

FINAL REPORT ON THE
SAMPLING DESIGN FOR THE OHSMI

VOLUME 2

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U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
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National Institute for Occupational Safety and Health
Division of Respiratory Disease Studies
Morgantown, West Virginia 26505

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16. Abstract (Limit: 200 words) Procedures used to develop the sampling design for the Occupational Hazard Survey of the Mining Industry are illustrated. Sample frames outline the active metal mines stratified by commodity and community for iron (7439896) ore, copper (7440508) ore, lead (7439921) and zinc (7440666) ores, silver (7440224) ore, aluminum (7429905) ore, cobalt (7440484), manganese (7439965), molybdenum (7439987), nickel (7440020), uranium (7440611), vanadium (7440622), clays, barite (13462867), phosphate (14265442) rock, gypsum (13397245), asbestos (1332214), mica (12001262), and vermiculite (1318009). Manually selected self representing units are listed by standard industrial classification, mine identification number, and by geographic location. A sample draw is presented for an occupational hazard survey of the mining industry that shows the name of the mine and types of employment at the particular facility, subunit types, other operations on the same property, and numbers of employees, as well as location and union memberships. The projection algorithm subroutine code for the estimation of population totals and variances is exhibited. Representative data for stratum 1 and stratum 2 population and sample data, with projected totals for cells 1 and 2, are shown.					
17. Document Analysis a. Descriptors					
b. Identifiers/Open-Ended Terms NIOSH-Publication, NIOSH-Contract, Safety-research, Environmental-exposure, Occupational-exposure, Trace-analysis, Metals, Metallic-compounds, Sampling-equipment, Contract-210-80-0026					
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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in the context of public administration or corporate governance. The text outlines various methods for collecting and organizing data, including the use of standardized forms and digital databases.

2. The second section focuses on the role of internal controls and audits in ensuring the integrity of the information system. It describes how regular audits can help identify potential weaknesses or fraud, thereby safeguarding the organization's assets and reputation. The document also mentions the importance of training staff on proper record-keeping procedures to minimize errors.

3. The third part of the document addresses the challenges associated with data security and privacy. It highlights the need for robust security measures to protect sensitive information from unauthorized access or disclosure. The text discusses the implementation of firewalls, encryption techniques, and strict access policies to ensure that data remains confidential and secure.

4. The final section discusses the importance of data backup and recovery strategies. It stresses that having a reliable backup system is crucial for preventing data loss in the event of a disaster or system failure. The document provides guidelines for how often backups should be performed and how they should be stored to ensure they are accessible when needed.

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Exhibit 1. Sample Frame #6: Active Metal Mines
Stratified by Commodity and Geography

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 1

----- SIC=IRON ORE STRATUM=CA,UT -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓1	402511	IRON ORE	964.50	0	0	458.00	0	0	0	0	0	506.5
✓2	4200946	IRON ORE	30.25	0	0	17.25	0	0	0	0	0	13.0
✓3	404358	IRON ORE	2.50	0	0	2.50	0	0	0	0	0	0.0

N=3

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 2

----- SIC=IRON ORE STRATUM=MN,MI,WI -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
4	2100282	IRON ORE	1734.25	0	0	1734.25	0	0	0	0	0.00	0.00
5	2100256	IRON ORE	1704.50	0	0	1082.50	0	0	0	0	0.00	622.00
6	2100820	IRON ORE	1297.75	0	0	0.00	0	0	0	0	0.00	1297.75
7	2000422	IRON ORE	1243.00	0	0	409.75	0	0	0	0	0.00	833.25
8	2100209	IRON ORE	1096.75	0	0	1096.75	0	0	0	0	0.00	0.00
9	2101600	IRON ORE	1045.75	0	0	605.25	0	0	0	0	0.00	440.50
10	2100831	IRON ORE	976.25	0	0	0.00	0	0	0	0	0.00	976.25
11	2001012	IRON ORE	758.00	0	0	0.00	0	0	0	0	0.00	758.00
12	2100828	IRON ORE	725.00	0	0	0.00	0	0	0	0	0.00	725.00
13	2100200	IRON ORE	626.00	0	0	626.00	0	0	0	0	0.00	0.00
14	2100796	IRON ORE	494.75	0	0	0.00	0	0	0	0	0.00	494.75
15	2000418	IRON ORE	482.75	0	0	482.75	0	0	0	0	0.00	0.00
16	2000423	IRON ORE	431.33	0	0	271.33	0	0	0	0	0.00	160.00
17	2100819	IRON ORE	398.00	0	0	0.00	0	0	0	0	398.00	0.00
18	2100249	IRON ORE	372.75	0	0	372.75	0	0	0	0	0.00	0.00
19	2102449	IRON ORE	357.25	0	0	148.75	0	0	0	0	0.00	208.50
20	4700586	IRON ORE	269.25	0	0	95.00	0	0	0	0	0.00	174.25
21	2001013	IRON ORE	241.75	0	0	0.00	0	0	0	0	0.00	241.75
22	2100807	IRON ORE	199.50	0	0	199.50	0	0	0	0	0.00	0.00
23	2000424	IRON ORE	180.75	0	0	180.75	0	0	0	0	0.00	0.00
24	2100814	IRON ORE	180.75	0	0	0.00	0	0	0	0	0.00	180.75
25	2001008	IRON ORE	160.00	0	0	0.00	0	0	0	0	160.00	0.00
26	2100237	IRON ORE	126.50	0	0	85.25	0	0	0	0	0.00	41.25
27	2100797	IRON ORE	64.75	0	0	0.00	0	0	0	0	64.75	0.00
28	2100253	IRON ORE	58.75	0	0	58.75	0	0	0	0	0.00	0.00
29	2102648	IRON ORE	38.50	0	0	0.00	0	0	0	0	0.00	38.50
30	2101152	IRON ORE	25.75	0	0	0.00	0	0	0	0	0.00	25.75
31	2100285	IRON ORE	22.75	0	0	22.75	0	0	0	0	0.00	0.00
32	2001006	IRON ORE	13.33	0	0	0.00	0	0	0	0	0.00	13.33
33	2001010	IRON ORE	9.50	0	0	0.00	0	0	0	0	0.00	9.50
34	4702607	IRON ORE	7.50	0	0	0.00	0	0	0	0	0.00	7.50
35	2101576	IRON ORE	2.00	0	0	0.00	0	0	0	0	2.00	0.00
36	2100252	IRON ORE	1.00	0	0	1.00	0	0	0	0	0.00	0.00

N=33

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 3

----- SIC=IRON ORE STRATUM=MO -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓37	2300455	IRON ORE	292.00	143.5	55.25	0	0	0	0	0	0	93.25
✓38	2300454	IRON ORE	271.75	117.5	40.00	0	0	0	0	0	0	114.25
N=2												

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #0
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982

SIC=IRON ORE				STRATUM=OTHER								
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
39	2600078	IRON ORE	11.00	0	0	11.00	0	0	0	0	0	.
40	3100209	IRON ORE	8.67	.	0	0.00	0	0	0	0	0	8.67
41	500398	IRON ORE	8.25	0	0	8.25	0	0	0	0	0	0.00
42	100507	IRON ORE	8.00	0	0	0.00	0	0	0	0	0	8.00
43	500495	IRON ORE	8.00	8	0	0.00	0	0	0	0	0	0.00
44	2600146	IRON ORE	6.00	0	0	6.00	0	0	0	0	0	0.00
45	3602620	IRON ORE	6.00	6	.	0.00	0	0	0	0	0	0.00
46	2901458	IRON ORE	4.00	0	0	4.00	0	0	0	0	0	0.00

N=8

In-stratum sampling of all sites

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982

----- SIC=IRON ORE STRATUM=TX -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓47	4101643	IRON ORE	189.00	0	0	46.00	0	0	0	0	0	143.00
✓48	4102764	IRON ORE	21.25	0	0	11.00	0	0	0	0	0	10.25
49	4102320	IRON ORE	15.00	0	0	15.00	0	0	0	0	0	0.00
✓50	4100922	IRON ORE	13.50	0	0	9.75	0	0	0	0	0	3.75

N=4

Checks (✓) identify first round
Self-Representing Units (SRU)

Remaining site to be included as SRU

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982

----- SIC=IRON ORE STRATUM=WY -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓51	4800145	IRON ORE	497.50	0.00	0.00	141.75	0	0	0	0	0	355.75
✓52	4800144	IRON ORE	126.25	61.25	38.25	0.00	0	0	0	0	0	26.75
N=2												

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982

----- SIC=COPPER ORE STRATUM=AZ -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
53	200151	COPPER ORE	1997.75	1388.25	609.50	0.00	0	0	0	0	0	0.00
54	200150	COPPER ORE	1121.75	0.00	0.00	1121.75	0	0	0	0	0	0.00
55	200852	COPPER ORE	1038.25	0.00	0.00	0.00	0	0	0	0	0	1038.25
56	200152	COPPER ORE	841.50	707.00	134.50	0.00	0	0	0	0	0	0.00
57	200144	COPPER ORE	747.25	0.00	0.00	747.25	0	0	0	0	0	0.00
58	200136	COPPER ORE	719.50	0.00	0.00	719.50	0	0	0	0	0	0.00
✓59	200024	COPPER ORE	634.25	0.00	0.00	416.25	0	0	0	0	0	218.00
✓60	200157	COPPER ORE	570.00	0.00	0.00	376.50	0	0	0	0	0	193.50
61	200826	COPPER ORE	469.25	0.00	0.00	0.00	0	0	0	0	0	469.25
62	200137	COPPER ORE	388.50	0.00	0.00	388.50	0	0	0	0	0	0.00
63	200845	COPPER ORE	385.75	0.00	0.00	0.00	0	0	0	0	0	385.75
64	200135	COPPER ORE	379.25	0.00	0.00	379.25	0	0	0	0	0	0.00
65	201248	COPPER ORE	342.50	0.00	0.00	0.00	0	0	0	0	0	342.50
66	200498	COPPER ORE	333.08	208.33	124.75	0.00	0	0	0	0	0	0.00
✓67	200305	COPPER ORE	326.25	0.00	0.00	247.75	0	0	0	0	0	78.50
68	200842	COPPER ORE	321.50	0.00	0.00	0.00	0	0	0	0	0	321.50
69	201738	COPPER ORE	293.00	0.00	0.00	0.00	0	0	0	0	0	293.00
70	200112	COPPER ORE	245.75	0.00	0.00	245.75	0	0	0	0	0	0.00
71	201049	COPPER ORE	236.00	0.00	0.00	236.00	0	0	0	0	0	0.00
72	200156	COPPER ORE	233.75	0.00	0.00	233.75	0	0	0	0	0	0.00
73	200843	COPPER ORE	206.25	0.00	0.00	0.00	0	0	0	0	0	206.25
74	200850	COPPER ORE	196.00	0.00	0.00	0.00	0	0	0	0	0	196.00
75	200149	COPPER ORE	180.75	0.00	0.00	116.00	0	0	0	0	0	64.75
76	200856	COPPER ORE	176.00	0.00	0.00	0.00	0	0	0	0	0	176.00
77	200855	COPPER ORE	165.25	0.00	0.00	0.00	0	0	0	0	0	165.25
78	200142	COPPER ORE	138.00	0.00	0.00	138.00	0	0	0	0	0	0.00
79	201592	COPPER ORE	136.25	0.00	0.00	0.00	0	0	0	0	0	136.25
80	200854	COPPER ORE	125.50	0.00	0.00	0.00	0	0	0	0	0	125.50
81	200158	COPPER ORE	112.25	0.00	0.00	72.00	0	0	0	0	0	40.25
82	200851	COPPER ORE	109.50	0.00	0.00	0.00	0	0	0	0	0	109.50
83	200299	COPPER ORE	92.75	45.75	47.00	0.00	0	0	0	0	0	0.00
84	201656	COPPER ORE	77.75	9.00	68.75	0.00	0	0	0	0	0	0.00
85	200134	COPPER ORE	71.50	0.00	0.00	71.50	0	0	0	0	0	0.00
86	200139	COPPER ORE	70.75	46.75	24.00	0.00	0	0	0	0	0	0.00
87	201405	COPPER ORE	65.25	0.00	0.00	0.00	0	0	0	0	0	65.25
88	200791	COPPER ORE	54.25	0.00	0.00	0.00	0	0	0	0	0	54.25
89	201198	COPPER ORE	49.75	0.00	0.00	0.00	0	0	0	0	0	49.75
90	200411	COPPER ORE	42.00	0.00	0.00	42.00	0	0	0	0	0	0.00
91	201391	COPPER ORE	10.50	0.00	0.00	0.00	0	0	0	0	0	10.50
92	202005	COPPER ORE	8.00	0.00	0.00	6.00	0	0	0	0	0	2.00
93	200840	COPPER ORE	7.75	3.75	4.00	0.00	0	0	0	0	0	0.00
94	200759	COPPER ORE	6.75	0.00	0.00	6.75	0	0	0	0	0	0.00

N=42

Checks (✓) identify first round
Self-Representing Units (SRU)

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓95	2000371	COPPER ORE	904.25	638	176.5	0	0	0	0	0	0	89.75
N=1												

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982

----- SIC=COPPER ORE STRATUM=MT -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓96	2400338	COPPER ORE	597.75	0	0	597.75	0	0	0	0	0.00	0.0
✓97	2400689	COPPER ORE	268.50	0	0	0.00	0	0	0	0	0.00	268.5
98	2400721	COPPER ORE	28.75	0	0	0.00	0	0	0	0	28.75	0.0

N=3

6

Checks (✓) identify first round
Self-Representing Units (SRU)

Remaining site included as SRU

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982

----- SIC=COPPER ORE STRATUM=NM,NV,UT -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
99	4200149	COPPER ORE	2254.25	0.00	0.00	2254.25	0	0	0	0	0	0.00
100	4200716	COPPER ORE	883.25	0.00	0.00	0.00	0	0	0	0	0	883.25
101	4200712	COPPER ORE	764.00	0.00	0.00	0.00	0	0	0	0	0	764.00
✓102	2900159	COPPER ORE	717.25	0.00	0.00	447.50	0	0	0	0	0	269.75
✓103	4201153	COPPER ORE	635.25	571.00	.	0.00	0	0	0	0	0	64.25
✓104	2900708	COPPER ORE	545.50	0.00	0.00	510.25	0	0	0	0	0	35.25
105	4201660	COPPER ORE	389.00	0.00	0.00	0.00	0	0	0	0	0	389.00
106	2900233	COPPER ORE	387.75	265.50	86.75	0.00	0	0	0	0	0	35.50
107	2900014	COPPER ORE	376.00	0.00	0.00	0.00	0	0	0	0	0	376.00
108	2600550	COPPER ORE	234.50	0.00	0.00	234.50	0	0	0	0	0	0.00
109	2600867	COPPER ORE	134.25	0.00	0.00	0.00	0	0	0	0	0	134.25
110	4200717	COPPER ORE	125.00	0.00	0.00	0.00	0	0	0	0	0	125.00
111	2901520	COPPER ORE	123.00	0.00	0.00	123.00	0	0	0	0	0	0.00
112	2900725	COPPER ORE	113.25	0.00	0.00	82.25	0	0	0	0	0	31.00
113	2600576	COPPER ORE	7.75	2.25	5.50	0.00	0	0	0	0	0	0.00
114	4201392	COPPER ORE	7.00	.	7.00	0.00	0	0	0	0	0	0.00
115	2901754	COPPER ORE	0.33	0.00	0.00	0.33	0	0	0	0	0	0.00

N=17

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982

----- SIC=COPPER ORE STRATUM=OTHER -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
116	3502868	COPPER ORE	32.00	22	10	0	0	0	0	0.00	0	0
117	301496	COPPER ORE	2.00	0	0	2	0	0	0	0.00	0	0
118	402490	COPPER ORE	0.67	0	0	0	0	0	0	0.67	0	0
N=3												

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982

----- SIC=COPPER ORE STRATUM=TN,ID -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
119	4002040	COPPER ORE	265.50	0.00	0	0.0	0	0	0	0	265.5	0.00
✓120	4002039	COPPER ORE	129.25	0.00	0	0.0	0	0	0	0	0.0	129.25
✓121	4000704	COPPER ORE	124.25	124.25	0	0.0	0	0	0	0	0.0	0.00
✓122	4000603	COPPER ORE	122.00	0.00	0	0.0	0	0	0	0	0.0	122.00
123	4002633	COPPER ORE	85.00	0.00	0	0.0	0	0	0	0	85.0	0.00
124	4000706	COPPER ORE	70.00	0.00	0	0.0	0	0	0	0	70.0	0.00
✓125	4000707	COPPER ORE	61.00	61.00	.	0.0	0	0	0	0	0.0	0.00
126	4002074	COPPER ORE	54.00	0.00	0	54.0	0	0	0	0	0.0	0.00
127	4000708	COPPER ORE	43.00	43.00	0	0.0	0	0	0	0	0.0	0.00
✓128	1000458	COPPER ORE	32.50	0.00	0	19.5	0	0	0	0	0.0	13.00
129	1001458	COPPER ORE	21.67	0.00	0	0.0	0	0	0	0	0.0	21.67

N=11

12

Checks (✓) identify first round
Self-Representing Units (SRU)

Remaining sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 13

----- SIC=LEAD/ZINC ORES STRATUM=CO -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓ 130	500417	LEAD/ZINC ORES	162.75	100.00	15.25	0	0	0	0	0	0	47.50
✓ 131	500516	LEAD/ZINC ORES	139.25	80.25	43.75	0	0	0	0	0	0	15.25
✓ 132	500412	LEAD/ZINC ORES	95.00	92.25	2.75	0	0	0	0	0	0	0.00
133	500604	LEAD/ZINC ORES	76.25	68.75	7.50	0	0	0	0	0	0	0.00
134	500411	LEAD/ZINC ORES	31.00	27.75	3.25	0	0	0	0	0	0	.
135	503428	LEAD/ZINC ORES	12.50	8.50	4.00	0	0	0	0	0	0	0.00
136	500414	LEAD/ZINC ORES	12.00	2.00	10.00	0	0	0	0	0	0	.
137	503074	LEAD/ZINC ORES	3.00	3.00	0.00	0	0	0	0	0	0	0.00
138	503103	LEAD/ZINC ORES	3.00	3.00	0.00	0	0	0	0	0	0	0.00
139	503174	LEAD/ZINC ORES	2.50	2.50	0.00	0	0	0	0	0	0	0.00

N=10

13

Checks (✓) identify first round
Self-Representing Units (SRU)

Remaining sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 14

SIC=LEAD/ZINC ORES			STRATUM=ID									
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓140	1000083	LEAD/ZINC ORES	493.75	407.50	50.50	0	0	0	0	0	0	35.75
✓141	1000086	LEAD/ZINC ORES	312.00	218.25	66.75	0	0	0	0	0	0	27.00
✓142	1000088	LEAD/ZINC ORES	283.75	217.00	55.50	0	0	0	0	0	0	11.25
143	1000189	LEAD/ZINC ORES	4.00	4.00	0.00	0	0	0	0	0	0	0.00
144	1001317	LEAD/ZINC ORES	4.00	2.00	2.00	0	0	0	0	0	0	0.00
145	1000502	LEAD/ZINC ORES	0.67	0.00	0.00	0	0	0	0	0	0	0.67

N=6

Checks (✓) identify first round
Self-Representing Units (SRU)

Remaining sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 15

----- SIC=LEAD/ZINC ORES STRATUM=MO -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓146	2300457	LEAD/ZINC ORES	479.25	329.50	.	0	0	0	0	0	0.0	149.75
✓147	2300458	LEAD/ZINC ORES	403.50	255.75	35.50	0	0	0	0	0	0.0	112.25
✓148	2300494	LEAD/ZINC ORES	166.00	77.75	36.00	0	0	0	0	0	0.0	52.25
149	2300499	LEAD/ZINC ORES	148.75	89.75	27.50	0	0	0	0	0	0.0	31.50
150	2300409	LEAD/ZINC ORES	139.25	84.00	23.25	0	0	0	0	0	0.0	32.00
151	2300497	LEAD/ZINC ORES	108.75	68.75	21.00	0	0	0	0	0	0.0	19.00
152	2301390	LEAD/ZINC ORES	89.50	0.00	0.00	0	0	0	0	0	89.5	0.00
153	2300495	LEAD/ZINC ORES	71.75	67.75	4.00	0	0	0	0	0	0.0	0.00
154	2300456	LEAD/ZINC ORES	66.00	.	39.00	0	0	0	0	0	0.0	27.00
155	2301787	LEAD/ZINC ORES	41.00	.	41.00	0	0	0	0	0	0.0	0.00

N=10

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 16

----- SIC=LEAD/ZINC ORES STRATUM=OTHER -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
156	4200150	LEAD/ZINC ORES	271.50	222.75	48.75	0.00	0	0	0	0	0	.
157	4401921	LEAD/ZINC ORES	255.50	180.50	55.50	0.00	0	0	0	0	0	19.50
158	3001185	LEAD/ZINC ORES	226.25	124.75	8.50	0.00	0	0	0	0	0	93.00
159	3602627	LEAD/ZINC ORES	181.33	128.33	29.25	0.00	0	0	0	0	0	23.75
160	2800393	LEAD/ZINC ORES	133.50	101.75	0.00	0.00	0	0	0	0	0	31.75
161	4200147	LEAD/ZINC ORES	104.25	98.25	6.00	0.00	0	0	0	0	0	0.00
162	3001184	LEAD/ZINC ORES	33.00	30.00	3.00	0.00	0	0	0	0	0	0.00
163	3606923	LEAD/ZINC ORES	26.50	0.00	0.00	0.00	0	0	0	0	0	26.50
164	4200148	LEAD/ZINC ORES	9.25	0.00	0.00	0.00	0	0	0	0	0	9.25
165	3001688	LEAD/ZINC ORES	7.00	7.00	0.00	0.00	0	0	0	0	0	0.00
166	4500366	LEAD/ZINC ORES	7.00	4.00	3.00	0.00	0	0	0	0	0	0.00
167	2900960	LEAD/ZINC ORES	5.67	0.00	0.00	5.67	0	0	0	0	0	0.00
168	4201424	LEAD/ZINC ORES	4.00	4.00	0.00	0.00	0	0	0	0	0	0.00
169	200286	LEAD/ZINC ORES	2.00	2.00	0.00	0.00	0	0	0	0	0	0.00
170	4201226	LEAD/ZINC ORES	2.00	0.00	0.00	2.00	0	0	0	0	0	0.00

N=15

In-stratum sampling for all sites

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 17

----- SIC=LEAD/ZINC ORES STRATUM=TN -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓171	4000864	LEAD/ZINC ORES	144.75	100.75	44.00	0	0	0	0	0	0	0.00
✓172	4000168	LEAD/ZINC ORES	143.25	139.00	4.25	0	0	0	0	0	0	0.00
✓173	4000606	LEAD/ZINC ORES	129.25	123.25	6.00	0	0	0	0	0	0	0.00
174	4000607	LEAD/ZINC ORES	128.75	128.75	.	0	0	0	0	0	0	0.00
175	4000170	LEAD/ZINC ORES	107.50	103.25	4.25	0	0	0	0	0	0	0.00
176	4000137	LEAD/ZINC ORES	92.00	74.00	18.00	0	0	0	0	0	0	0.00
✓177	4000866	LEAD/ZINC ORES	59.75	0.00	0.00	0	0	0	0	0	0	59.75
✓178	4001981	LEAD/ZINC ORES	59.75	0.00	0.00	0	0	0	0	0	0	59.75
179	4001627	LEAD/ZINC ORES	58.00	36.25	21.75	0	0	0	0	0	0	0.00
180	4000166	LEAD/ZINC ORES	35.00	34.00	1.00	0	0	0	0	0	0	0.00
181	4001751	LEAD/ZINC ORES	29.83	23.50	6.33	0	0	0	0	0	0	0.00
✓182	4001749	LEAD/ZINC ORES	29.00	0.00	0.00	0	0	0	0	0	0	29.00
183	4000868	LEAD/ZINC ORES	22.00	0.00	0.00	0	0	0	0	0	0	22.00
184	4001425	LEAD/ZINC ORES	21.25	21.25	0.00	0	0	0	0	0	0	0.00
185	4000605	LEAD/ZINC ORES	19.25	0.00	0.00	0	0	0	0	0	0	19.25
186	4000869	LEAD/ZINC ORES	15.00	0.00	0.00	0	0	0	0	0	0	15.00
187	4002196	LEAD/ZINC ORES	14.00	0.00	0.00	0	0	0	0	0	0	14.00
188	4002213	LEAD/ZINC ORES	2.83	1.33	1.50	0	0	0	0	0	0	0.00

N=18

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

17

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 18

----- SIC=SILVER STRATUM=ALL SITES -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓189	1000082	SILVER	257.50	195.50	47.25	0.00	0	0	0	0	0	14.75
✓190	1000089	SILVER	251.50	193.25	23.00	0.00	0	0	0	0	0	35.25
✓191	500413	SILVER	178.75	141.00	1.50	0.00	0	0	0	0	0	36.25
192	1000402	SILVER	172.25	0.00	0.00	108.50	0	0	0	0	0	63.75
193	1000479	SILVER	139.25	109.50	19.00	0.00	0	0	0	0	0	10.75
194	2401467	SILVER	121.75	.	84.75	0.00	0	0	0	0	0	37.00
195	1000085	SILVER	73.25	73.25	0.00	0.00	0	0	0	0	0	0.00
196	2601451	SILVER	69.25	0.00	0.00	16.00	0	0	0	0	0	53.25
197	1000158	SILVER	39.67	23.00	14.67	0.00	0	0	0	0	0	2.00
198	1000409	SILVER	37.17	25.50	11.67	0.00	0	0	0	0	0	0.00
199	2400242	SILVER	26.25	12.75	.	0.00	0	0	0	0	0	13.50
200	2601662	SILVER	26.00	26.00	0.00	0.00	0	0	0	0	0	0.00
201	1000142	SILVER	25.25	17.25	.	0.00	0	0	0	0	0	8.00
202	4201613	SILVER	22.58	11.25	11.33	0.00	0	0	0	0	0	0.00
203	2401516	SILVER	20.67	14.17	6.50	0.00	0	0	0	0	0	0.00
204	2601638	SILVER	20.00	14.00	6.00	0.00	0	0	0	0	0	0.00
205	2601379	SILVER	19.67	0.00	0.00	0.00	0	0	0	0	0	19.67
206	502267	SILVER	17.25	0.00	0.00	0.00	0	0	0	0	0	17.25
207	503572	SILVER	17.00	0.00	0.00	6.00	0	0	0	0	0	11.00
208	2901816	SILVER	16.67	0.00	0.00	3.00	0	0	0	0	0	13.67
209	1001506	SILVER	16.00	16.00	0.00	0.00	0	0	0	0	0	0.00
210	500534	SILVER	14.00	6.00	4.00	0.00	0	0	0	0	0	4.00
211	2600615	SILVER	13.50	0.00	0.00	0.00	0	0	0	0	0	13.50
212	201913	SILVER	13.00	0.00	0.00	0.00	0	0	0	0	0	13.00
213	500416	SILVER	12.25	0.25	12.00	0.00	0	0	0	0	0	0.00
214	4102905	SILVER	10.75	0.00	10.75	0.00	0	0	0	0	0	0.00
215	2601524	SILVER	10.25	8.75	1.50	0.00	0	0	0	0	0	0.00
216	503594	SILVER	10.00	4.00	6.00	0.00	0	0	0	0	0	0.00
217	500775	SILVER	9.67	0.00	0.00	0.00	0	0	0	0	0	9.67
218	500539	SILVER	8.50	4.50	1.00	0.00	0	0	0	0	0	3.00
219	2901830	SILVER	8.33	0.00	0.00	8.33	0	0	0	0	0	0.00
220	202001	SILVER	8.00	2.00	6.00	0.00	0	0	0	0	0	0.00
221	4201463	SILVER	8.00	0.00	0.00	0.00	0	0	0	0	0	8.00
222	2400320	SILVER	7.50	7.50	0.00	0.00	0	0	0	0	0	.
223	2601575	SILVER	7.50	1.50	6.00	0.00	0	0	0	0	0	0.00
224	2601603	SILVER	7.00	0.00	0.00	5.00	0	0	0	0	0	2.00
225	2601604	SILVER	6.83	1.50	5.33	0.00	0	0	0	0	0	0.00
226	502557	SILVER	6.50	0.00	0.00	0.00	0	0	0	0	0	6.50
227	502774	SILVER	6.50	4.50	2.00	0.00	0	0	0	0	0	0.00
228	503574	SILVER	6.00	6.00	0.00	0.00	0	0	0	0	0	0.00
229	4201465	SILVER	5.75	0.00	0.00	5.75	0	0	0	0	0	0.00
230	503557	SILVER	5.50	0.00	5.50	0.00	0	0	0	0	0	0.00
231	201993	SILVER	4.50	2.50	2.00	0.00	0	0	0	0	0	0.00
232	201969	SILVER	4.33	3.33	1.00	0.00	0	0	0	0	0	0.00
233	200444	SILVER	4.00	0.00	0.00	0.00	0	0	0	0	0	4.00
234	2400928	SILVER	4.00	0.00	0.00	0.00	0	0	0	0	0	4.00
235	201950	SILVER	3.75	0.00	0.00	0.00	0	0	0	0	0	3.75
236	401337	SILVER	3.50	2.00	0.00	0.00	0	0	0	0	0	1.50
237	2600545	SILVER	3.50	0.00	0.00	0.00	0	0	0	0	0	3.50
238	201981	SILVER	3.33	0.00	0.00	3.33	0	0	0	0	0	0.00

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 19

----- SIC=SILVER STRATUM=ALL SITES -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
241	2400686	SILVER	3.00	2.0	1	0.00	0	0	0	0	0	0
242	4502855	SILVER	3.00	0.0	0	3.00	0	0	0	0	0	0
243	2601588	SILVER	2.67	0.0	0	2.67	0	0	0	0	0	0
244	201959	SILVER	2.50	0.5	2	0.00	0	0	0	0	0	0
245	200328	SILVER	2.00	0.0	0	2.00	0	0	0	0	0	0
246	2401549	SILVER	2.00	2.0	.	0.00	0	0	0	0	0	0
247	2601568	SILVER	2.00	0.0	0	0.00	0	0	0	0	0	2
248	2601670	SILVER	2.00	2.0	0	0.00	0	0	0	0	0	0
249	2601537	SILVER	1.00	0.0	0	1.00	0	0	0	0	0	0
250	2601457	SILVER	0.50	0.0	0	0.50	0	0	0	0	0	0

N=62

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 20

----- SIC=ALUMINUM ORE+ STRATUM=AR -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓251	300257	ALUMINUM ORE+	1093.75	0	0	0.0	0	0	0	0	0	1093.75
✓252	300069	ALUMINUM ORE+	836.75	0	0	0.0	0	0	0	0	0	836.75
✓253	300262	ALUMINUM ORE+	176.00	0	0	176.0	0	0	0	0	0	0.00
✓254	300472	ALUMINUM ORE+	89.00	0	0	89.0	0	0	0	0	0	0.00
255	300470	ALUMINUM ORE+	24.50	0	0	0.0	0	0	0	0	0	24.50
✓256	300261	ALUMINUM ORE+	14.00	0	0	2.0	0	0	0	0	0	12.00
257	300715	ALUMINUM ORE+	4.50	0	0	4.5	0	0	0	0	0	0.00
258	301141	ALUMINUM ORE+	3.00	0	0	3.0	0	0	0	0	0	0.00

N=8

20

Checks (✓) identify first round
Self-Representing Units (SRU)

Remaining sites to be included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 21

----- SIC=ALUMINUM ORE+ STRATUM=GA,AL -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓259	100650	ALUMINUM ORE+	672.75	0	0	0.00	0	0	0	0	0	672.75
✓260	900684	ALUMINUM ORE+	19.00	0	0	0.00	0	0	0	0	0	19.00
✓261	102214	ALUMINUM ORE+	4.00	0	0	4.00	0	0	0	0	0	0.00
✓262	101565	ALUMINUM ORE+	3.75	0	0	3.75	0	0	0	0	0	0.00
✓263	900921	ALUMINUM ORE+	2.00	0	0	0.00	0	0	0	0	0	2.00

N=5

21

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 22

----- SIC=ALUMINUM ORE+ STRATUM=OTHER -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
264	4100906	ALUMINUM ORE+	1119.00	0	0	0	0	0	0	0	0	1119.00
265	4100320	ALUMINUM ORE+	922.25	0	0	0	0	0	0	0	0	922.25
266	1600222	ALUMINUM ORE+	825.00	0	0	0	0	0	0	0	0	825.00
267	5500005	ALUMINUM ORE+	638.25	0	0	0	0	0	0	0	0	638.25
268	1600352	ALUMINUM ORE+	510.25	0	0	0	0	0	0	0	0	510.25
269	1600354	ALUMINUM ORE+	306.75	0	0	0	0	0	0	0	0	306.75
270	1600353	ALUMINUM ORE+	128.00	0	0	0	0	0	0	0	0	128.00
271	4102721	ALUMINUM ORE+	8.00	0	0	0	0	0	0	0	0	8.00

N=8

In-stratum sampling of all sites

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 23

----- SIC=COBALT STRATUM=ALL SITES -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓ 272	1000533	COBALT	119.83	37.5	78.00	0	0	0	0	0	0	4.33
273	2301770	COBALT	27.75	0.0	27.75	0	0	0	0	0	0	0.00

N=2

Checks (✓) identify first round
Self-Representing Units (SRU)

Remaining sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 24

----- SIC=MANGANESE STRATUM=ALL SITES -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓274	1100876	MANGANESE	44.25	0	0	0.00	0	0	0	0	0	44.25
✓275	4102978	MANGANESE	17.00	0	0	0.00	0	0	0	0	0	17.00
✓276	4100148	MANGANESE	14.25	0	0	0.00	0	0	0	0	0	14.25
✓277	2900762	MANGANESE	6.75	0	0	6.75	0	0	0	0	0	0.00
✓278	3800206	MANGANESE	1.00	0	0	1.00	0	0	0	0	0	0.00

N=5

24

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 25

----- SIC=MOLYBDENUM STRATUM=CO,NM -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓279	500354	MOLYBDENUM	1729.50	1594.5	135	0.00	0	0	0	0	0	0.00
✓280	502337	MOLYBDENUM	745.00	0.0	0	0.00	0	0	0	0	0	745.00
✓281	502256	MOLYBDENUM	459.25	0.0	0	459.25	0	0	0	0	0	0.00
✓282	2900164	MOLYBDENUM	443.75	0.0	0	136.25	0	0	0	0	0	307.50
✓283	500790	MOLYBDENUM	442.75	.	.	0.00	0	0	0	0	0	442.75
284	2901267	MOLYBDENUM	201.00	.	174	0.00	0	0	0	0	0	27.00
285	502255	MOLYBDENUM	5.00	5.0	0	0.00	0	0	0	0	0	0.00

N=7

28

Checks (✓) identify first round
Self-Representing Units (SRU)

Remaining sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

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OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓286	1000531	MOLYBDENUM	8.5	8.5	0	0	0	0	0	0	0	0
✓287	1001416	MOLYBDENUM	6.0	3.0	3	0	0	0	0	0	0	0

N=2

25

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 27

----- SIC=MOLYBDENUM STRATUM=OTHER -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
288	2601483	MOLYBDENUM	585	0	0	498	0	0	0	0	0	87
289	2401590	MOLYBDENUM	8	8	0	0	0	0	0	0	0	0
N=2												

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

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----- SIC=NICKEL STRATUM=ALL SITES -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓290	3500391	NICKEL	186.5	0	0	115.25	0	0	0	0	0	71.25
N=1												

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 29

----- SIC=URANIUM+ STRATUM=ALL SITES -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓291	4800490	URANIUM+	498.75	0.00	0.00	416.75	0	0	0	0	0	82.00
292	2900399	URANIUM+	487.75	0.00	0.00	487.75	0	0	0	0	0	0.00
293	2900772	URANIUM+	415.25	0.00	0.00	0.00	0	0	0	0	0	415.25
294	4800826	URANIUM+	386.75	0.00	0.00	386.75	0	0	0	0	0	0.00
295	4201550	URANIUM+	339.00	0.00	0.00	0.00	0	0	0	0	0	339.00
✓296	4800466	URANIUM+	337.50	0.00	0.00	255.50	0	0	0	0	0	82.00
297	4800557	URANIUM+	304.75	0.00	0.00	304.75	0	0	0	0	0	0.00
298	4102494	URANIUM+	301.50	0.00	0.00	301.50	0	0	0	0	0	0.00
✓299	4502424	URANIUM+	277.75	0.00	0.00	166.50	0	0	0	0	0	111.25
300	2900776	URANIUM+	261.25	0.00	0.00	0.00	0	0	0	0	0	261.25
301	2900782	URANIUM+	256.75	203.75	53.00	0.00	0	0	0	0	0	0.00
302	4102746	URANIUM+	245.50	0.00	0.00	168.50	0	0	0	0	0	77.00
303	4801177	URANIUM+	230.50	0.00	0.00	230.50	0	0	0	0	0	0.00
304	2901688	URANIUM+	228.25	76.25	152.00	0.00	0	0	0	0	0	0.00
305	4801181	URANIUM+	220.67	0.00	0.00	162.00	0	0	0	0	0	58.67
306	2901214	URANIUM+	218.50	208.50	10.00	0.00	0	0	0	0	0	0.00
307	4801099	URANIUM+	215.75	0.00	0.00	169.75	0	0	0	0	0	46.00
308	501785	URANIUM+	210.25	0.00	0.00	0.00	0	0	0	0	0	210.25
309	2900775	URANIUM+	207.25	0.00	0.00	0.00	0	0	0	0	0	207.25
310	502141	URANIUM+	204.50	0.00	0.00	204.50	0	0	0	0	0	0.00
311	4801144	URANIUM+	198.50	0.00	0.00	198.50	0	0	0	0	0	0.00
312	500791	URANIUM+	192.25	158.75	23.75	0.00	0	0	0	0	0	9.75
313	4200800	URANIUM+	183.00	0.00	0.00	0.00	0	0	0	0	0	183.00
314	501732	URANIUM+	182.50	0.00	0.00	0.00	0	0	0	0	0	182.50
315	4800946	URANIUM+	180.25	163.25	17.00	0.00	0	0	0	0	0	0.00
316	2900560	URANIUM+	171.50	143.00	28.50	0.00	0	0	0	0	0	0.00
317	2901775	URANIUM+	159.50	152.00	7.50	0.00	0	0	0	0	0	0.00
318	2900591	URANIUM+	156.25	93.00	63.25	0.00	0	0	0	0	0	0.00
319	2901678	URANIUM+	152.50	0.00	0.00	0.00	0	0	0	0	0	152.50
320	4102745	URANIUM+	150.00	0.00	0.00	0.00	0	0	0	0	0	150.00
321	4102492	URANIUM+	138.50	0.00	0.00	0.00	0	0	0	0	0	138.50
322	4201150	URANIUM+	136.25	98.25	21.00	0.00	0	0	0	0	0	17.00
323	4200677	URANIUM+	134.00	134.00	0.00	0.00	0	0	0	0	0	0.00
324	4800559	URANIUM+	133.75	0.00	0.00	0.00	0	0	0	0	0	133.75
325	4800862	URANIUM+	132.75	0.00	0.00	132.75	0	0	0	0	0	0.00
326	4800861	URANIUM+	119.25	0.00	0.00	0.00	0	0	0	0	0	119.25
327	2901598	URANIUM+	117.00	89.75	27.25	0.00	0	0	0	0	0	0.00
328	4801132	URANIUM+	110.00	0.00	0.00	110.00	0	0	0	0	0	0.00
329	4101796	URANIUM+	105.50	0.00	0.00	0.00	0	0	0	0	0	105.50
330	2900565	URANIUM+	100.50	.	36.00	0.00	0	0	0	0	0	64.50
331	2901790	URANIUM+	100.25	.	100.25	0.00	0	0	0	0	0	0.00
332	503535	URANIUM+	97.33	0.00	0.00	97.33	0	0	0	0	0	0.00
333	4102807	URANIUM+	97.25	0.00	0.00	0.00	0	0	0	0	0	97.25
334	4801051	URANIUM+	91.00	82.25	8.75	0.00	0	0	0	0	0	0.00
335	501786	URANIUM+	90.25	71.75	18.50	0.00	0	0	0	0	0	0.00
336	2900590	URANIUM+	86.75	.	86.75	0.00	0	0	0	0	0	0.00
337	4800588	URANIUM+	84.50	0.00	0.00	0.00	0	0	0	0	0	84.50
338	4200769	URANIUM+	83.25	61.25	22.00	0.00	0	0	0	0	0	0.00
339	4500783	URANIUM+	82.25	0.00	0.00	82.25	0	0	0	0	0	0.00
340	4201532	URANIUM+	82.00	.	.	0.00	0	0	0	0	0	0.00

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SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

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----- SIC=URANIUM+ STRATUM=ALL SITES -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
343	4800381	URANIUM+	67.25	0.00	0.00	0.00	0	0	0	0.0	0.00	67.25
344	2900573	URANIUM+	59.75	.	59.75	0.00	0	0	0	0.0	0.00	0.00
345	4800497	URANIUM+	59.25	0.00	0.00	59.25	0	0	0	0.0	0.00	0.00
346	4801158	URANIUM+	58.25	0.00	0.00	58.25	0	0	0	0.0	0.00	0.00
347	4102517	URANIUM+	57.50	0.00	0.00	57.50	0	0	0	0.0	0.00	0.00
348	2900575	URANIUM+	57.25	51.00	6.25	0.00	0	0	0	0.0	0.00	0.00
349	2900778	URANIUM+	57.25	53.25	4.00	0.00	0	0	0	0.0	0.00	0.00
350	4500909	URANIUM+	55.50	0.00	0.00	13.50	0	0	0	0.0	0.00	42.00
351	4800479	URANIUM+	55.00	0.00	0.00	.	0	0	0	0.0	0.00	55.00
352	4200473	URANIUM+	54.75	41.75	13.00	0.00	0	0	0	0.0	0.00	0.00
353	4102777	URANIUM+	54.50	0.00	0.00	0.00	0	0	0	54.5	0.00	0.00
354	501197	URANIUM+	49.50	36.00	13.50	0.00	0	0	0	0.0	0.00	0.00
355	502675	URANIUM+	43.00	31.00	12.00	0.00	0	0	0	0.0	0.00	0.00
356	4102460	URANIUM+	42.75	0.00	0.00	0.00	0	0	0	0.0	0.00	42.75
357	2901364	URANIUM+	42.00	32.00	10.00	0.00	0	0	0	0.0	0.00	0.00
358	4800969	URANIUM+	41.75	.	41.75	0.00	0	0	0	0.0	0.00	0.00
359	4102717	URANIUM+	40.75	0.00	0.00	0.00	0	0	0	0.0	0.00	40.75
360	4201611	URANIUM+	40.75	0.00	0.00	0.00	0	0	0	0.0	40.75	0.00
361	4201527	URANIUM+	40.50	30.25	10.25	0.00	0	0	0	0.0	0.00	0.00
362	4102809	URANIUM+	38.25	0.00	0.00	0.00	0	0	0	0.0	0.00	38.25
363	2901683	URANIUM+	38.00	29.50	8.50	0.00	0	0	0	0.0	0.00	0.00
364	4801070	URANIUM+	37.25	0.00	0.00	37.25	0	0	0	0.0	0.00	0.00
365	4102497	URANIUM+	36.50	0.00	0.00	0.00	0	0	0	11.0	0.00	25.50
366	2900537	URANIUM+	36.00	30.00	6.00	0.00	0	0	0	0.0	0.00	0.00
367	2901606	URANIUM+	35.50	.	35.50	0.00	0	0	0	0.0	0.00	0.00
368	4102733	URANIUM+	33.00	0.00	0.00	33.00	0	0	0	0.0	0.00	0.00
369	2901645	URANIUM+	33.00	29.00	4.00	0.00	0	0	0	0.0	0.00	0.00
370	2901766	URANIUM+	32.00	19.75	12.25	0.00	0	0	0	0.0	0.00	0.00
371	4801301	URANIUM+	31.50	0.00	0.00	0.00	0	0	0	21.5	0.00	10.00
372	2900579	URANIUM+	31.00	24.50	6.50	0.00	0	0	0	0.0	0.00	0.00
373	2901730	URANIUM+	30.25	15.25	15.00	0.00	0	0	0	0.0	0.00	0.00
374	4201422	URANIUM+	30.25	17.50	12.75	0.00	0	0	0	0.0	0.00	0.00
375	4801286	URANIUM+	29.50	0.00	0.00	19.50	0	0	0	0.0	0.00	10.00
376	502719	URANIUM+	29.00	0.00	0.00	29.00	0	0	0	0.0	0.00	0.00
377	503249	URANIUM+	28.25	23.00	5.25	0.00	0	0	0	0.0	0.00	0.00
378	4200470	URANIUM+	27.00	20.00	7.00	0.00	0	0	0	0.0	0.00	0.00
379	4200503	URANIUM+	26.75	18.50	8.25	0.00	0	0	0	0.0	0.00	0.00
380	2900542	URANIUM+	26.00	.	26.00	0.00	0	0	0	0.0	0.00	0.00
381	4102598	URANIUM+	26.00	0.00	0.00	26.00	0	0	0	0.0	0.00	0.00
382	4801119	URANIUM+	25.25	0.00	0.00	0.00	0	0	0	0.0	0.00	25.25
383	2900538	URANIUM+	23.00	.	23.00	0.00	0	0	0	0.0	0.00	0.00
384	4201164	URANIUM+	23.00	18.00	5.00	0.00	0	0	0	0.0	0.00	0.00
385	2901727	URANIUM+	22.00	0.00	0.00	0.00	0	0	0	0.0	0.00	22.00
386	201973	URANIUM+	21.00	10.00	11.00	0.00	0	0	0	0.0	0.00	0.00
387	502921	URANIUM+	21.00	19.00	2.00	0.00	0	0	0	0.0	0.00	0.00
388	4201528	URANIUM+	21.00	0.00	0.00	0.00	0	0	0	0.0	0.00	21.00
389	502912	URANIUM+	20.34	16.67	3.67	0.00	0	0	0	0.0	0.00	0.00
390	2900589	URANIUM+	20.25	11.00	9.25	0.00	0	0	0	0.0	0.00	0.00
391	2901744	URANIUM+	19.50	18.25	1.25	0.00	0	0	0	0.0	0.00	0.00
392	4801315	URANIUM+	19.33	0.00	0.00	10.33	0	0	0	0.0	0.00	0.00

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----- SIC=URANIUM+ STRATUM=ALL SITES -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
395	4102811	URANIUM+	18.00	0.00	0.00	0	0	0	0	0	0.0	18.00
396	500918	URANIUM+	17.75	14.50	3.25	0	0	0	0	0	0.0	0.00
397	4102814	URANIUM+	17.00	0.00	0.00	0	0	0	0	0	0.0	17.00
398	502993	URANIUM+	16.75	10.25	6.50	0	0	0	0	0	0.0	0.00
399	2900539	URANIUM+	16.50	.	16.50	0	0	0	0	0	0.0	0.00
400	2901650	URANIUM+	16.25	14.00	2.25	0	0	0	0	0	0.0	0.00
401	2900569	URANIUM+	16.00	16.00	0.00	0	0	0	0	0	0.0	0.00
402	2900543	URANIUM+	16.00	.	16.00	0	0	0	0	0	0.0	0.00
403	2900781	URANIUM+	16.00	.	16.00	0	0	0	0	0	0.0	0.00
404	4801179	URANIUM+	15.25	7.25	8.00	0	0	0	0	0	0.0	0.00
405	4103032	URANIUM+	15.00	0.00	0.00	15	0	0	0	0	0.0	.
406	2901726	URANIUM+	14.50	.	14.50	0	0	0	0	0	0.0	0.00
407	4102801	URANIUM+	14.00	0.00	0.00	0	0	0	0	0	0.0	14.00
408	2901729	URANIUM+	13.75	11.00	2.75	0	0	0	0	0	0.0	0.00
409	503066	URANIUM+	13.58	11.25	2.33	0	0	0	0	0	0.0	0.00
410	4201196	URANIUM+	13.25	9.25	4.00	0	0	0	0	0	0.0	0.00
411	4201448	URANIUM+	13.00	0.00	0.00	0	0	0	0	0	0.0	13.00
412	501679	URANIUM+	12.75	10.25	2.50	0	0	0	0	0	0.0	0.00
413	502789	URANIUM+	12.75	9.50	3.25	0	0	0	0	0	0.0	0.00
414	4801243	URANIUM+	12.50	0.00	0.00	0	0	0	0	0	0.0	12.50
415	2901571	URANIUM+	12.25	10.25	2.00	0	0	0	0	0	0.0	0.00
416	4800837	URANIUM+	12.25	6.25	6.00	0	0	0	0	0	0.0	0.00
417	4201068	URANIUM+	11.75	9.00	2.75	0	0	0	0	0	0.0	0.00
418	502671	URANIUM+	11.50	8.00	3.50	0	0	0	0	0	0.0	0.00
419	500916	URANIUM+	10.75	8.50	2.25	0	0	0	0	0	0.0	0.00
420	502959	URANIUM+	10.42	5.67	4.75	0	0	0	0	0	0.0	0.00
421	502383	URANIUM+	10.00	8.00	2.00	0	0	0	0	0	0.0	0.00
422	503418	URANIUM+	10.00	8.50	1.50	0	0	0	0	0	0.0	0.00
423	503211	URANIUM+	9.75	8.00	1.75	0	0	0	0	0	0.0	0.00
424	2901710	URANIUM+	9.25	7.75	1.50	0	0	0	0	0	0.0	0.00
425	4201438	URANIUM+	9.25	7.50	1.75	0	0	0	0	0	0.0	0.00
426	501658	URANIUM+	9.00	7.00	2.00	0	0	0	0	0	0.0	0.00
427	503151	URANIUM+	8.25	0.00	0.00	0	0	0	0	0	0.0	8.25
428	503031	URANIUM+	8.25	6.25	2.00	0	0	0	0	0	0.0	0.00
429	503152	URANIUM+	8.17	6.50	1.67	0	0	0	0	0	0.0	0.00
430	501761	URANIUM+	8.00	4.67	3.33	0	0	0	0	0	0.0	0.00
431	501819	URANIUM+	8.00	5.25	2.75	0	0	0	0	0	0.0	0.00
432	2900602	URANIUM+	7.75	5.00	2.75	0	0	0	0	0	0.0	0.00
433	2901070	URANIUM+	7.50	0.00	0.00	0	0	0	0	0	7.5	0.00
434	502786	URANIUM+	7.25	5.25	2.00	0	0	0	0	0	0.0	0.00
435	2901720	URANIUM+	7.25	7.25	.	0	0	0	0	0	0.0	0.00
436	4201689	URANIUM+	6.50	4.50	2.00	0	0	0	0	0	0.0	0.00
437	503153	URANIUM+	6.50	6.50	0.00	0	0	0	0	0	0.0	0.00
438	503465	URANIUM+	6.00	5.50	0.50	0	0	0	0	0	0.0	0.00
439	502338	URANIUM+	5.50	4.25	1.25	0	0	0	0	0	0.0	0.00
440	4200784	URANIUM+	5.50	4.25	1.25	0	0	0	0	0	0.0	0.00
441	4201472	URANIUM+	5.50	5.50	0.00	0	0	0	0	0	0.0	0.00
442	501106	URANIUM+	5.25	5.25	0.00	0	0	0	0	0	0.0	0.00
443	502771	URANIUM+	5.25	5.25	.	0	0	0	0	0	0.0	0.00
444	502995	URANIUM+	5.25	5.25	.	0	0	0	0	0	0.0	0.00

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STRATIFIED BY COMMODITY AND GEOGRAPHY

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----- SIC=URANIUM+ STRATUM=ALL SITES -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
447	501278	URANIUM+	4.75	3.75	1.00	0.0	0	0	0	0	0	0.0
448	2900541	URANIUM+	4.75	3.00	1.75	0.0	0	0	0	0	0	0.0
449	501506	URANIUM+	4.50	3.50	1.00	0.0	0	0	0	0	0	0.0
450	501653	URANIUM+	4.50	3.25	1.25	0.0	0	0	0	0	0	0.0
451	4201622	URANIUM+	4.50	4.50	0.00	0.0	0	0	0	0	0	0.0
452	4801252	URANIUM+	4.50	0.00	0.00	4.5	0	0	0	0	0	0.0
453	501793	URANIUM+	4.34	3.67	0.67	0.0	0	0	0	0	0	0.0
454	4200577	URANIUM+	4.25	1.75	2.50	0.0	0	0	0	0	0	0.0
455	502940	URANIUM+	4.00	2.00	2.00	0.0	0	0	0	0	0	0.0
456	502996	URANIUM+	4.00	3.00	1.00	0.0	0	0	0	0	0	0.0
457	4200481	URANIUM+	4.00	4.00	0.00	0.0	0	0	0	0	0	0.0
458	4200624	URANIUM+	4.00	2.75	1.25	0.0	0	0	0	0	0	0.0
459	4201699	URANIUM+	4.00	4.00	0.00	0.0	0	0	0	0	0	0.0
460	4201703	URANIUM+	4.00	4.00	.	0.0	0	0	0	0	0	0.0
461	500909	URANIUM+	3.75	3.75	.	0.0	0	0	0	0	0	0.0
462	501304	URANIUM+	3.67	2.67	1.00	0.0	0	0	0	0	0	0.0
463	502379	URANIUM+	3.50	2.50	1.00	0.0	0	0	0	0	0	0.0
464	4201676	URANIUM+	3.50	1.00	2.50	0.0	0	0	0	0	0	0.0
465	503464	URANIUM+	3.33	1.33	2.00	0.0	0	0	0	0	0	0.0
466	501765	URANIUM+	3.25	2.25	1.00	0.0	0	0	0	0	0	0.0
467	503417	URANIUM+	3.25	2.00	1.25	0.0	0	0	0	0	0	0.0
468	501065	URANIUM+	3.00	2.00	1.00	0.0	0	0	0	0	0	0.0
469	501780	URANIUM+	3.00	2.00	1.00	0.0	0	0	0	0	0	0.0
470	502741	URANIUM+	3.00	2.00	1.00	0.0	0	0	0	0	0	0.0
471	503433	URANIUM+	3.00	2.00	1.00	0.0	0	0	0	0	0	0.0
472	503456	URANIUM+	3.00	3.00	.	0.0	0	0	0	0	0	0.0
473	501159	URANIUM+	3.00	2.00	1.00	0.0	0	0	0	0	0	0.0
474	501754	URANIUM+	3.00	1.50	1.50	0.0	0	0	0	0	0	0.0
475	502706	URANIUM+	3.00	2.00	1.00	0.0	0	0	0	0	0	0.0
476	503011	URANIUM+	3.00	3.00	0.00	0.0	0	0	0	0	0	0.0
477	503104	URANIUM+	3.00	3.00	0.00	0.0	0	0	0	0	0	0.0
478	2901831	URANIUM+	3.00	.	3.00	0.0	0	0	0	0	0	0.0
479	4201443	URANIUM+	3.00	2.00	1.00	0.0	0	0	0	0	0	0.0
480	4201635	URANIUM+	3.00	3.00	0.00	0.0	0	0	0	0	0	0.0
481	503004	URANIUM+	2.83	1.50	1.33	0.0	0	0	0	0	0	0.0
482	502512	URANIUM+	2.75	1.75	1.00	0.0	0	0	0	0	0	0.0
483	2900593	URANIUM+	2.67	0.67	2.00	0.0	0	0	0	0	0	0.0
484	2900536	URANIUM+	2.50	0.00	0.00	0.0	0	0	0	0	0	2.5
485	501281	URANIUM+	2.00	2.00	0.00	0.0	0	0	0	0	0	0.0
486	501117	URANIUM+	2.00	2.00	0.00	0.0	0	0	0	0	0	0.0
487	503209	URANIUM+	2.00	2.00	0.00	0.0	0	0	0	0	0	0.0
488	2901728	URANIUM+	2.00	0.00	0.00	0.0	0	0	0	0	0	2.0
489	4200463	URANIUM+	2.00	2.00	0.00	0.0	0	0	0	0	0	0.0
490	4200489	URANIUM+	2.00	2.00	0.00	0.0	0	0	0	0	0	0.0
491	4200647	URANIUM+	2.00	2.00	0.00	0.0	0	0	0	0	0	0.0
492	4201551	URANIUM+	2.00	2.00	0.00	0.0	0	0	0	0	0	0.0
493	4201562	URANIUM+	2.00	2.00	0.00	0.0	0	0	0	0	0	0.0
494	502787	URANIUM+	1.67	1.67	0.00	0.0	0	0	0	0	0	0.0
495	4200498	URANIUM+	1.50	0.75	0.75	0.0	0	0	0	0	0	0.0
496	4201574	URANIUM+	1.50	1.50	0.00	0.0	0	0	0	0	0	0.0

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 33

----- SIC=URANIUM+ STRATUM=ALL SITES -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
499	503184	URANIUM+	1	1	0	0	0	0	0	0	0	0
500	2901375	URANIUM+	1	.	.	0	0	0	0	0	0	1
501	4800855	URANIUM+	1	.	1	0	0	0	0	0	0	0

N=211

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 34

----- SIC=VANADIUM STRATUM=AR -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓502	300479	VANADIUM	169.5	0	0	14.75	0	0	0	0	0	154.75
N=1												

34

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE METAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

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----- SIC=VANADIUM STRATUM=CO -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓ 503	501784	VANADIUM	29.5	0	0	0	0	0	0	0	0	29.5
N=1												

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 36

----- SIC=CLAY GROUP STRATUM=GA,FL,SC -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓1	900125	CLAY GROUP	370.25	0	0	43.00	0	0	0	0	0	327.25
2	900482	CLAY GROUP	343.25	0	0	0.00	0	0	0	0	0	343.25
3	900231	CLAY GROUP	304.75	0	0	0.00	0	0	0	0	0	304.75
✓4	900110	CLAY GROUP	294.75	0	0	99.00	0	0	0	0	0	195.75
5	800115	CLAY GROUP	251.25	0	0	0.00	0	0	0	0	0	251.25
6	900472	CLAY GROUP	232.25	0	0	0.00	0	0	0	0	0	232.25
7	900111	CLAY GROUP	215.25	0	0	0.00	0	0	0	0	0	215.25
8	900359	CLAY GROUP	207.50	0	0	0.00	0	0	0	0	0	207.50
9	900142	CLAY GROUP	199.75	0	0	0.00	0	0	0	0	0	199.75
10	900337	CLAY GROUP	165.00	0	0	0.00	0	0	0	0	0	165.00
✓11	900135	CLAY GROUP	139.00	0	0	9.00	0	0	0	0	0	130.00
12	900471	CLAY GROUP	135.50	0	0	0.00	0	0	0	0	0	135.50
13	900584	CLAY GROUP	134.75	0	0	134.75	0	0	0	0	0	0.00
14	900139	CLAY GROUP	132.00	0	0	132.00	0	0	0	0	0	0.00
15	900354	CLAY GROUP	125.50	0	0	41.75	0	0	0	0	0	83.75
16	900114	CLAY GROUP	123.50	0	0	9.75	0	0	0	0	0	113.75
17	900157	CLAY GROUP	101.25	0	0	5.75	0	0	0	0	0	95.50
18	900143	CLAY GROUP	94.00	0	0	0.00	0	0	0	0	0	94.00
19	800116	CLAY GROUP	73.50	0	0		0	0	0	0	0	73.50
20	900126	CLAY GROUP	72.25	0	0	72.25	0	0	0	0	0	0.00
21	900121	CLAY GROUP	67.50	0	0	21.50	0	0	0	0	0	46.00
22	900832	CLAY GROUP	65.25	0	0	58.25	0	0	0	0	0	7.00
23	900474	CLAY GROUP	63.75	0	0	63.75	0	0	0	0	0	0.00
24	3800041	CLAY GROUP	58.50	0	0	10.50	0	0	0	0	0	48.00
25	900339	CLAY GROUP	56.75	0	0	0.00	0	0	0	0	0	56.75
26	900127	CLAY GROUP	53.50	0	0	53.50	0	0	0	0	0	0.00
27	900149	CLAY GROUP	53.50	0	0	22.75	0	0	0	0	0	30.75
28	3800052	CLAY GROUP	51.25	0	0	0.00	0	0	0	0	0	51.25
29	900128	CLAY GROUP	48.00	0	0	10.50	0	0	0	0	0	37.50
30	900881	CLAY GROUP	46.75	0	0	46.75	0	0	0	0	0	0.00
31	900901	CLAY GROUP	46.00	0	0	0.00	0	0	0	0	0	46.00
32	800524	CLAY GROUP	44.75	0	0	44.75	0	0	0	0	0	0.00
33	3800527	CLAY GROUP	43.50	0	0	13.50	0	0	0	0	0	30.00
34	900475	CLAY GROUP	41.25	0	0	41.25	0	0	0	0	0	0.00
35	3800157	CLAY GROUP	39.00	0	0	6.75	0	0	0	0	0	32.25
36	900473	CLAY GROUP	38.00	0	0	0.00	0	0	0	0	0	38.00
37	900188	CLAY GROUP	37.75	0	0	0.00	0	0	0	0	0	37.75
38	900585	CLAY GROUP	37.50	0	0	37.50	0	0	0	0	0	0.00
39	3800054	CLAY GROUP	37.00	0	0	22.00	0	0	0	0	0	15.00
40	900145	CLAY GROUP	33.75	0	0	33.75	0	0	0	0	0	0.00
41	3800155	CLAY GROUP	33.75	0	0	0.00	0	0	0	0	0	33.75
42	900150	CLAY GROUP	32.50	0	0	6.25	0	0	0	0	0	26.25
43	900131	CLAY GROUP	32.25	0	0	32.25	0	0	0	0	0	0.00
44	900229	CLAY GROUP	31.25	0	0	0.00	0	0	0	0	0	31.25
45	900115	CLAY GROUP	31.00	0	0	14.00	0	0	0	0	0	17.00
46	900486	CLAY GROUP	30.50	0	0	12.50	0	0	0	0	0	18.00
47	800110	CLAY GROUP	29.75	0	0	0.00	0	0	0	0	0	29.75
48	3800038	CLAY GROUP	24.75	0	0	2.00	0	0	0	0	0	22.75
49	3800158	CLAY GROUP	23.50	0	0	6.00	0	0	0	0	0	17.50
50	900340	CLAY GROUP	18.00	0	0	18.00	0	0	0	0	0	0.00
51	900155	CLAY GROUP	15.50	0	0	2.00	0	0	0	0	0	13.50
52	3800152	CLAY GROUP	15.50	0	0	15.50	0	0	0	0	0	

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 37

----- SIC=CLAY GROUP STRATUM=GA,FL,SC -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
53	900152	CLAY GROUP	12.00	0	0	3.00	0	0	0	0	0	9
54	3800156	CLAY GROUP	10.00	0	0	10.00	0	0	0	0	0	0
55	3800066	CLAY GROUP	9.00	0	0	4.00	0	0	0	0	0	5
56	900119	CLAY GROUP	8.75	0	0	8.75	0	0	0	0	0	.
57	900151	CLAY GROUP	8.00	0	0	8.00	0	0	0	0	0	0
58	800885	CLAY GROUP	7.75	0	0	7.75	0	0	0	0	0	0
59	900352	CLAY GROUP	7.25	0	0	7.25	0	0	0	0	0	0
60	900705	CLAY GROUP	7.25	0	0	7.25	0	0	0	0	0	0
61	900342	CLAY GROUP	5.00	0	0	5.00	0	0	0	0	0	0
62	900758	CLAY GROUP	5.00	0	0	5.00	0	0	0	0	0	0
63	3800175	CLAY GROUP	5.00	0	0	5.00	0	0	0	0	0	0
64	800548	CLAY GROUP	4.25	0	0	4.25	0	0	0	0	0	0
65	900138	CLAY GROUP	4.25	0	0	2.25	0	0	0	0	0	2
66	900769	CLAY GROUP	3.75	0	0	3.75	0	0	0	0	0	0
67	900843	CLAY GROUP	3.50	0	0	3.50	0	0	0	0	0	0
68	900124	CLAY GROUP	3.00	0	0	2.00	0	0	0	0	0	1
69	900203	CLAY GROUP	3.00	0	0	0.00	0	0	0	0	0	3
70	3800193	CLAY GROUP	3.00	0	0	1.00	0	0	0	0	0	2
71	3800306	CLAY GROUP	3.00	0	0	3.00	0	0	0	0	0	0
72	900890	CLAY GROUP	2.50	0	0	2.50	0	0	0	0	0	0
73	900521	CLAY GROUP	2.25	0	0	2.25	0	0	0	0	0	0
74	3800034	CLAY GROUP	2.25	0	0	2.25	0	0	0	0	0	.
75	3800262	CLAY GROUP	2.25	0	0	2.25	0	0	0	0	0	0
76	800113	CLAY GROUP	2.00	0	0	2.00	0	0	0	0	0	0
77	900156	CLAY GROUP	2.00	0	0	2.00	0	0	0	0	0	0
78	900928	CLAY GROUP	2.00	0	0	2.00	0	0	0	0	0	0
79	3800055	CLAY GROUP	1.25	0	0	1.25	0	0	0	0	0	0
80	900715	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0
81	3800031	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0
82	3800056	CLAY GROUP	0.75	0	0	0.75	0	0	0	0	0	0

N=82

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 38

----- SIC=CLAY GROUP STRATUM=MO,OH,PA -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓83	2300159	CLAY GROUP	133.75	0.00	0.0	2.75	0	0	0	0	0	131.00
✓84	2301602	CLAY GROUP	100.00	0.00	0.0	13.50	0	0	0	0	0	86.50
85	2301545	CLAY GROUP	41.00	0.00	0.0	0.00	0	0	0	0	0	41.00
86	3300484	CLAY GROUP	27.50	24.50	3.0	0.00	0	0	0	0	0	0.00
87	2301038	CLAY GROUP	22.50	0.00	0.0	0.00	0	0	0	0	0	22.50
88	3300528	CLAY GROUP	19.00	0.00	0.0	19.00	0	0	0	0	0	.
89	3600616	CLAY GROUP	17.50	17.50	0.0	0.00	0	0	0	0	0	.
✓90	3600630	CLAY GROUP	17.50	10.75	1.5	0.00	0	0	0	0	0	5.25
91	2301005	CLAY GROUP	17.25	0.00	0.0	0.00	0	0	0	0	0	17.25
92	2300319	CLAY GROUP	16.25	0.00	0.0	4.00	0	0	0	0	0	12.25
93	3600657	CLAY GROUP	14.50	0.00	0.0	0.00	0	0	0	0	0	14.50
94	3300491	CLAY GROUP	13.00	0.00	0.0	2.00	0	0	0	0	0	11.00
95	3300497	CLAY GROUP	10.00	0.00	0.0	8.33	0	0	0	0	0	1.67
96	3600609	CLAY GROUP	9.50	8.50	1.0	0.00	0	0	0	0	0	0.00
97	3600606	CLAY GROUP	8.50	7.50	1.0	0.00	0	0	0	0	0	.
98	3300559	CLAY GROUP	8.25	0.00	0.0	4.50	0	0	0	0	0	3.75
99	2300334	CLAY GROUP	8.00	0.00	0.0	8.00	0	0	0	0	0	0.00
100	3600607	CLAY GROUP	8.00	0.00	0.0	5.50	0	0	0	0	0	2.50
101	3605852	CLAY GROUP	8.00	0.00	0.0	8.00	0	0	0	0	0	0.00
102	3300453	CLAY GROUP	7.25	0.00	0.0	7.25	0	0	0	0	0	0.00
103	3300507	CLAY GROUP	7.25	0.00	0.0	7.25	0	0	0	0	0	0.00
104	3300565	CLAY GROUP	7.00	0.00	0.0	0.00	0	0	0	0	0	7.00
105	3302476	CLAY GROUP	7.00	0.00	0.0	7.00	0	0	0	0	0	0.00
106	3300476	CLAY GROUP	6.00	0.00	0.0	3.00	0	0	0	0	0	3.00
107	3300563	CLAY GROUP	6.00	6.00	0.0	0.00	0	0	0	0	0	0.00
108	2301456	CLAY GROUP	5.75	0.00	0.0	5.75	0	0	0	0	0	0.00
109	3600645	CLAY GROUP	5.50	0.00	0.0	5.50	0	0	0	0	0	.
110	2300382	CLAY GROUP	4.75	0.00	0.0	4.75	0	0	0	0	0	0.00
111	3301991	CLAY GROUP	4.00	0.00	0.0	2.00	0	0	0	0	0	2.00
112	3300514	CLAY GROUP	3.75	0.00	0.0	2.75	0	0	0	0	0	1.00
113	2301716	CLAY GROUP	3.50	0.00	0.0	3.50	0	0	0	0	0	0.00
114	3600655	CLAY GROUP	3.25	0.00	0.0	3.25	0	0	0	0	0	0.00
115	3605385	CLAY GROUP	3.25	0.00	0.0	3.25	0	0	0	0	0	0.00
116	2301812	CLAY GROUP	3.00	0.00	0.0	3.00	0	0	0	0	0	0.00
117	3600675	CLAY GROUP	3.00	0.00	0.0	2.00	0	0	0	0	0	1.00
118	2300366	CLAY GROUP	3.00	0.00	0.0	3.00	0	0	0	0	0	0.00
119	2301813	CLAY GROUP	3.00	0.00	0.0	3.00	0	0	0	0	0	0.00
120	2301756	CLAY GROUP	2.75	0.00	0.0	2.75	0	0	0	0	0	0.00
121	2300354	CLAY GROUP	2.75	0.00	0.0	2.75	0	0	0	0	0	0.00
122	2300921	CLAY GROUP	2.75	0.00	0.0	2.75	0	0	0	0	0	0.00
123	2301244	CLAY GROUP	2.75	0.00	0.0	2.75	0	0	0	0	0	0.00
124	3600620	CLAY GROUP	2.50	0.00	0.0	2.50	0	0	0	0	0	.
125	3600650	CLAY GROUP	2.50	0.00	0.0	2.50	0	0	0	0	0	0.00
126	2300348	CLAY GROUP	2.50	0.00	0.0	2.50	0	0	0	0	0	0.00
127	2300365	CLAY GROUP	2.25	0.00	0.0	2.25	0	0	0	0	0	0.00
128	2301773	CLAY GROUP	2.25	0.00	0.0	2.25	0	0	0	0	0	0.00
129	2300320	CLAY GROUP	2.25	0.00	0.0	2.25	0	0	0	0	0	.
130	2300310	CLAY GROUP	2.00	0.00	0.0	1.00	0	0	0	0	0	1.00
131	3300474	CLAY GROUP	1.75	0.00	0.0	1.75	0	0	0	0	0	0.00
132	3303752	CLAY GROUP	1.75	0.00	0.0	1.75	0	0	0	0	0	0.00
133	3303725	CLAY GROUP	1.50	0.00	0.0	1.50	0	0	0	0	0	0.00
134	3604714	CLAY GROUP	1.50	0.00	0.0	1.50	0	0	0	0	0	0.00

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 39

----- SIC=CLAY GROUP STRATUM=MO,OH,PA -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
135	3301835	CLAY GROUP	1.25	0	0	1.25	0	0	0	0	0	0
136	2301041	CLAY GROUP	1.00	0	0	0.00	0	0	0	0	1	0
137	2300345	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	.
138	2301664	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0
139	3303627	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	.
140	2300322	CLAY GROUP	0.75	0	0	0.75	0	0	0	0	0	.
141	3302872	CLAY GROUP	0.75	0	0	0.75	0	0	0	0	0	.
142	2301035	CLAY GROUP	0.50	0	0	0.50	0	0	0	0	0	0
143	2301036	CLAY GROUP	0.50	0	0	0.50	0	0	0	0	0	0
144	2300335	CLAY GROUP	0.25	0	0	0.25	0	0	0	0	0	0
145	2301045	CLAY GROUP	0.25	0	0	0.25	0	0	0	0	0	0

N=63

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

39

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 40

----- SIC=CLAY GROUP STRATUM=MS,AL -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓ 146	2200415	CLAY GROUP	130.00	0	0	0.00	0	0	0	0	0	130.00
✓ 147	2200035	CLAY GROUP	88.75	0	0	9.75	0	0	0	0	0	79.00
✓ 148	100034	CLAY GROUP	52.75	0	0	4.00	0	0	0	0	0	48.75
✓ 149	100770	CLAY GROUP	48.00	0	0	0.00	0	0	0	0	0	48.00
✓ 150	2200032	CLAY GROUP	43.25	0	0	15.25	0	0	0	0	0	28.00
151	2200044	CLAY GROUP	36.00	0	0	4.75	0	0	0	0	0	31.25
152	100093	CLAY GROUP	27.75	0	0	5.25	0	0	0	0	0	22.50
153	2200031	CLAY GROUP	23.25	0	0	20.25	0	0	0	0	0	3.00
154	2200133	CLAY GROUP	22.25	0	0	0.00	0	0	0	0	0	22.25
155	100959	CLAY GROUP	21.50	0	0	21.50	0	0	0	0	0	0.00
156	100665	CLAY GROUP	20.50	0	0	0.00	0	0	0	0	0	20.50
157	2200460	CLAY GROUP	19.00	0	0	19.00	0	0	0	0	0	0.00
158	2200051	CLAY GROUP	17.50	0	0	1.00	0	0	0	0	0	16.50
159	100098	CLAY GROUP	14.50	0	0	3.00	0	0	0	0	0	11.50
160	2200013	CLAY GROUP	11.00	0	0	11.00	0	0	0	0	0	0.00
161	100107	CLAY GROUP	9.75	0	0	9.75	0	0	0	0	0	0.00
162	101118	CLAY GROUP	7.00	0	0	0.00	0	0	0	0	0	7.00
163	100666	CLAY GROUP	6.75	0	0	6.75	0	0	0	0	0	0.00
164	100766	CLAY GROUP	5.50	0	0	5.50	0	0	0	0	0	0.00
165	100111	CLAY GROUP	5.00	0	0	2.00	0	0	0	0	0	3.00
166	2200436	CLAY GROUP	4.25	0	0	4.25	0	0	0	0	0	.
167	100115	CLAY GROUP	3.50	0	0	3.00	0	0	0	0	0	0.50
168	101112	CLAY GROUP	3.00	0	0	3.00	0	0	0	0	0	0.00
169	100099	CLAY GROUP	2.00	0	0	2.00	0	0	0	0	0	0.00
170	100667	CLAY GROUP	1.75	0	0	1.75	0	0	0	0	0	.
171	102237	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0.00

N=26

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 29, 1982 41

----- SIC=CLAY GROUP STRATUM=OTHER -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
172	3000644	CLAY GROUP	91.50	20.75	0.00	0.00	0	0	0	0	0	70.75
173	1600033	CLAY GROUP	90.00	0.00	0.00	14.00	0	0	0	0	0	76.00
174	402964	CLAY GROUP	89.25	0.00	0.00	38.00	0	0	0	0	0	51.25
175	2601043	CLAY GROUP	66.75	0.00	0.00	9.00	0	0	0	0	0	57.75
176	1100494	CLAY GROUP	59.00	0.00	0.00	0.00	0	0	0	0	0	59.00
177	1800078	CLAY GROUP	57.75	0.00	0.00	1.50	0	0	0	0	0	56.25
178	402866	CLAY GROUP	54.67	0.00	0.00	0.00	0	0	0	0	0	54.67
179	400551	CLAY GROUP	52.00	0.00	0.00	32.25	0	0	0	0	0	19.75
180	402638	CLAY GROUP	50.50	0.00	0.00	18.75	0	0	0	0	0	31.75
181	4600148	CLAY GROUP	45.25	39.50	5.75	0.00	0	0	0	0	0	.
182	1102403	CLAY GROUP	45.25	0.00	0.00	1.50	0	0	0	0	0	43.75
183	1600995	CLAY GROUP	40.00	0.00	0.00	0.00	0	0	0	0	0	40.00
184	4400211	CLAY GROUP	33.75	0.00	0.00	27.75	0	0	0	0	0	6.00
185	300136	CLAY GROUP	32.75	0.00	0.00	4.75	0	0	0	0	0	28.00
186	400553	CLAY GROUP	27.50	0.00	0.00	0.75	0	0	0	0	0	26.75
187	300537	CLAY GROUP	26.75	0.00	0.00	0.00	0	0	0	0	0	26.75
188	3400117	CLAY GROUP	22.50	0.00	0.00	1.00	0	0	0	0	0	21.50
189	1400212	CLAY GROUP	20.25	0.00	0.00	1.75	0	0	0	0	0	18.50
190	4200071	CLAY GROUP	19.00	0.00	0.00	2.25	0	0	0	0	0	16.75
191	4200073	CLAY GROUP	18.50	0.00	0.00	0.50	0	0	0	0	0	18.00
192	3002245	CLAY GROUP	18.50	9.75	0.00	0.00	0	0	0	0	0	8.75
193	400588	CLAY GROUP	17.25	0.00	0.00	17.25	0	0	0	0	0	0.00
194	402634	CLAY GROUP	16.50	0.00	0.00	0.00	0	0	0	0	0	16.50
195	400562	CLAY GROUP	12.75	0.00	0.00	0.00	0	0	0	0	0	12.75
196	3100864	CLAY GROUP	12.00	0.00	0.00	.	0	0	0	0	0	12.00
197	300135	CLAY GROUP	11.50	0.00	0.00	3.00	0	0	0	0	0	8.50
198	300481	CLAY GROUP	11.00	0.00	0.00	0.00	0	0	0	0	0	11.00
199	2100154	CLAY GROUP	11.00	0.00	0.00	3.00	0	0	0	0	0	8.00
200	2100904	CLAY GROUP	9.50	0.00	0.00	0.00	0	0	0	0	0	9.50
201	200103	CLAY GROUP	9.00	0.00	0.00	9.00	0	0	0	0	0	0.00
202	2500050	CLAY GROUP	8.75	0.00	0.00	6.75	0	0	0	0	0	2.00
203	400491	CLAY GROUP	8.50	0.00	0.00	8.50	0	0	0	0	0	0.00
204	400556	CLAY GROUP	8.25	0.00	0.00	7.25	0	0	0	0	0	1.00
205	1900098	CLAY GROUP	8.00	0.00	0.00	2.00	0	0	0	0	0	6.00
206	4400209	CLAY GROUP	8.00	0.00	0.00	.	0	0	0	0	0	8.00
207	1400224	CLAY GROUP	7.50	0.00	0.00	7.50	0	0	0	0	0	0.00
208	1400227	CLAY GROUP	7.50	0.00	0.00	7.50	0	0	0	0	0	0.00
209	402620	CLAY GROUP	7.50	0.00	0.00	.	0	0	0	0	0	7.50
210	1400225	CLAY GROUP	7.50	0.00	0.00	7.50	0	0	0	0	0	0.00
211	2000978	CLAY GROUP	7.25	0.00	0.00	7.25	0	0	0	0	0	0.00
212	1200263	CLAY GROUP	7.00	0.00	0.00	7.00	0	0	0	0	0	0.00
213	1400214	CLAY GROUP	7.00	0.00	0.00	5.00	0	0	0	0	0	2.00
214	1400217	CLAY GROUP	7.00	0.00	0.00	5.00	0	0	0	0	0	2.00
215	1400215	CLAY GROUP	6.75	0.00	0.00	5.00	0	0	0	0	0	1.75
216	1300349	CLAY GROUP	6.75	0.00	0.00	3.00	0	0	0	0	0	3.75
217	4702545	CLAY GROUP	6.25	0.00	0.00	0.00	0	0	0	0	0	6.25
218	1400730	CLAY GROUP	6.25	0.00	0.00	6.25	0	0	0	0	0	.
219	1400221	CLAY GROUP	6.00	0.00	0.00	3.00	0	0	0	0	0	3.00
220	1800074	CLAY GROUP	6.00	0.00	0.00	3.00	0	0	0	0	0	3.00
221	1100466	CLAY GROUP	5.67	0.00	0.00	5.67	0	0	0	0	0	.
222	2600052	CLAY GROUP	5.67	1.00	4.67	0.00	0	0	0	0	0	0.00
223	404293	CLAY GROUP	5.50	0.00	0.00	5.50	0	0	0	0	0	.

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 42

----- SIC=CLAY GROUP STRATUM=OTHER -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
224	1300402	CLAY GROUP	5.50	0.00	0	5.50	0	0	0	0	0	0.00
225	1401102	CLAY GROUP	5.50	0.00	0	5.50	0	0	0	0	0	0.00
226	4400210	CLAY GROUP	5.50	0.00	0	1.25	0	0	0	0	0	4.25
227	4400214	CLAY GROUP	5.25	0.00	0	5.25	0	0	0	0	0	0.00
228	400600	CLAY GROUP	5.00	0.00	0	5.00	0	0	0	0	0	0.00
229	600084	CLAY GROUP	5.00	0.00	0	5.00	0	0	0	0	0	0.00
230	1400216	CLAY GROUP	5.00	0.00	0	5.00	0	0	0	0	0	0.00
231	1200262	CLAY GROUP	5.00	0.00	0	5.00	0	0	0	0	0	0.00
232	1800080	CLAY GROUP	5.00	0.00	0	1.00	0	0	0	0	0	4.00
233	4403083	CLAY GROUP	5.00	0.00	0	5.00	0	0	0	0	0	0.00
234	300142	CLAY GROUP	4.75	0.00	0	1.00	0	0	0	0	0	3.75
235	400558	CLAY GROUP	4.50	0.00	0	4.50	0	0	0	0	0	0.00
236	3400120	CLAY GROUP	4.00	0.00	0	4.00	0	0	0	0	0	0.00
237	404294	CLAY GROUP	4.00	0.00	0	4.00	0	0	0	0	0	0.00
238	500203	CLAY GROUP	4.00	0.00	0	4.00	0	0	0	0	0	0.00
239	500204	CLAY GROUP	4.00	0.00	0	4.00	0	0	0	0	0	0.00
240	501843	CLAY GROUP	4.00	0.00	0	4.00	0	0	0	0	0	0.00
241	4400213	CLAY GROUP	4.00	0.00	0	4.00	0	0	0	0	0	0.00
242	500197	CLAY GROUP	3.75	2.75	1	0.00	0	0	0	0	0	0.00
243	1201159	CLAY GROUP	3.75	0.00	0	3.75	0	0	0	0	0	0.00
244	3400112	CLAY GROUP	3.75	0.00	0	3.75	0	0	0	0	0	0.00
245	3400110	CLAY GROUP	3.50	0.00	0	3.50	0	0	0	0	0	0.00
246	1100478	CLAY GROUP	3.33	0.00	0	1.33	0	0	0	0	0	2.00
247	1400211	CLAY GROUP	3.00	0.00	0	3.00	0	0	0	0	0	0.00
248	2601404	CLAY GROUP	3.00	0.00	0	3.00	0	0	0	0	0	0.00
249	400599	CLAY GROUP	3.00	0.00	0	3.00	0	0	0	0	0	0.00
250	1200266	CLAY GROUP	3.00	0.00	0	1.00	0	0	0	0	0	2.00
251	1900099	CLAY GROUP	3.00	0.00	0	2.00	0	0	0	0	0	1.00
252	2900078	CLAY GROUP	3.00	0.00	0	0.00	0	0	0	0	0	3.00
253	4402823	CLAY GROUP	3.00	0.00	0	2.00	0	0	0	0	0	1.00
254	500187	CLAY GROUP	2.75	2.75	0	0.00	0	0	0	0	0	0.00
255	301361	CLAY GROUP	2.75	0.00	0	2.75	0	0	0	0	0	0.00
256	400531	CLAY GROUP	2.75	0.00	0	2.75	0	0	0	0	0	0.00
257	1100479	CLAY GROUP	2.50	0.00	0	1.50	0	0	0	0	0	1.00
258	3400123	CLAY GROUP	2.50	0.00	0	2.50	0	0	0	0	0	0.00
259	1800072	CLAY GROUP	2.50	0.00	0	1.50	0	0	0	0	0	1.00
260	1100495	CLAY GROUP	2.33	0.00	0	2.33	0	0	0	0	0	0.00
261	500223	CLAY GROUP	2.33	1.33	1	0.00	0	0	0	0	0	0.00
262	1100486	CLAY GROUP	2.25	0.00	0	1.25	0	0	0	0	0	1.00
263	1400218	CLAY GROUP	2.25	0.00	0	2.25	0	0	0	0	0	0.00
264	2900914	CLAY GROUP	2.00	0.00	0	2.00	0	0	0	0	0	0.00
265	300133	CLAY GROUP	2.00	0.00	0	1.00	0	0	0	0	0	1.00
266	300149	CLAY GROUP	2.00	0.00	0	2.00	0	0	0	0	0	0.00
267	500340	CLAY GROUP	2.00	0.00	0	2.00	0	0	0	0	0	0.00
268	1100474	CLAY GROUP	2.00	0.00	0	1.00	0	0	0	0	0	1.00
269	1100491	CLAY GROUP	2.00	0.00	0	2.00	0	0	0	0	0	0.00
270	1101235	CLAY GROUP	2.00	0.00	0	2.00	0	0	0	0	0	0.00
271	1400220	CLAY GROUP	2.00	0.00	0	1.00	0	0	0	0	0	1.00
272	1400748	CLAY GROUP	2.00	0.00	0	2.00	0	0	0	0	0	0.00
273	2700021	CLAY GROUP	2.00	0.00	0	2.00	0	0	0	0	0	0.00
274	3000296	CLAY GROUP	2.00	0.00	0	2.00	0	0	0	0	0	0.00
275	3400279	CLAY GROUP	2.00	0.00	0	2.00	0	0	0	0	0	0.00

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 43

----- SIC=CLAY GROUP STRATUM=OTHER -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
276	501850	CLAY GROUP	1.75	0	0	1.75	0	0	0	0	0	0.00
277	1400210	CLAY GROUP	1.75	0	0	.	0	0	0	0	0	1.75
278	3400108	CLAY GROUP	1.75	0	0	1.75	0	0	0	0	0	0.00
279	3400121	CLAY GROUP	1.75	0	0	1.75	0	0	0	0	0	.
280	400545	CLAY GROUP	1.67	0	0	1.67	0	0	0	0	0	.
281	500234	CLAY GROUP	1.50	0	0	1.50	0	0	0	0	0	0.00
282	500196	CLAY GROUP	1.25	0	0	1.25	0	0	0	0	0	0.00
283	500213	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0.00
284	1300343	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	.
285	1800081	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0.00
286	3400122	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	.
287	1400686	CLAY GROUP	0.75	0	0	0.75	0	0	0	0	0	0.00
288	501435	CLAY GROUP	0.50	0	0	0.50	0	0	0	0	0	0.00
289	1300336	CLAY GROUP	0.50	0	0	0.50	0	0	0	0	0	0.00

N=118

In-stratum sampling of all sites

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 29, 1982 44

----- SIC=CLAY GROUP STRATUM=TN,KY -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓290	4000204	CLAY GROUP	76.00	0	0	4.00	0	0	0	0	0	72.00
✓291	1500187	CLAY GROUP	43.00	0	0	13.50	0	0	0	0	0	29.50
✓292	4000194	CLAY GROUP	40.00	0	0	10.50	0	0	0	0	0	29.50
293	4000883	CLAY GROUP	37.75	0	0	20.00	0	0	0	0	0	17.75
294	4001052	CLAY GROUP	36.75	0	0	0.00	0	0	0	0	0	36.75
295	1504511	CLAY GROUP	34.75	0	0	9.75	0	0	0	0	0	25.00
296	4000195	CLAY GROUP	34.50	0	0	11.00	0	0	0	0	0	23.50
297	4000188	CLAY GROUP	29.00	0	0	.	0	0	0	0	0	29.00
298	4002513	CLAY GROUP	15.00	0	0	15.00	0	0	0	0	0	0.00
299	4001046	CLAY GROUP	14.00	0	0	14.00	0	0	0	0	0	0.00
300	1507011	CLAY GROUP	13.50	0	0	0.00	0	0	0	0	0	13.50
301	1504512	CLAY GROUP	11.75	0	0	11.75	0	0	0	0	0	0.00
302	4000192	CLAY GROUP	11.50	0	0	4.00	0	0	0	0	0	7.50
303	4000743	CLAY GROUP	11.50	0	0	4.00	0	0	0	0	0	7.50
304	1500188	CLAY GROUP	9.75	0	0	9.75	0	0	0	0	0	0.00
305	4001051	CLAY GROUP	9.00	0	0	0.00	0	0	0	0	0	9.00
306	4000199	CLAY GROUP	8.25	0	0	2.25	0	0	0	0	0	6.00
307	4000189	CLAY GROUP	7.92	0	0	3.25	0	0	0	0	0	4.67
308	4000187	CLAY GROUP	5.75	0	0	0.00	0	0	0	0	0	5.75
309	4000191	CLAY GROUP	5.25	0	0	3.25	0	0	0	0	0	2.00
310	1500155	CLAY GROUP	5.00	0	0	2.00	0	0	0	0	0	3.00
311	4001050	CLAY GROUP	5.00	0	0	5.00	0	0	0	0	0	0.00
312	4001286	CLAY GROUP	5.00	0	0	5.00	0	0	0	0	0	0.00
313	1500159	CLAY GROUP	4.75	0	0	4.75	0	0	0	0	0	.
314	4001081	CLAY GROUP	4.50	0	0	4.50	0	0	0	0	0	0.00
315	4002484	CLAY GROUP	4.50	0	0	2.50	0	0	0	0	0	2.00
316	4001045	CLAY GROUP	2.75	0	0	2.75	0	0	0	0	0	0.00
317	4001084	CLAY GROUP	2.75	0	0	2.75	0	0	0	0	0	0.00
318	1500167	CLAY GROUP	1.75	0	0	1.75	0	0	0	0	0	0.00
319	4001783	CLAY GROUP	1.50	0	0	1.50	0	0	0	0	0	0.00
320	4000042	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0.00

N=31

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 23, 1982 45

----- SIC=CLAY GROUP STRATUM=TX,NC -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓321	4100262	CLAY GROUP	131.75	0	0	12.00	0	0	0	0	0	119.75
✓322	4100298	CLAY GROUP	115.00	0	0	43.00	0	0	0	0	0	72.00
323	3100136	CLAY GROUP	46.00	0	0	0.00	0	0	0	0	0	46.00
✓324	3100135	CLAY GROUP	39.00	0	0	8.00	0	0	0	0	0	31.00
325	4100303	CLAY GROUP	35.00	0	0	35.00	0	0	0	0	0	.
326	4100252	CLAY GROUP	31.25	0	0	3.00	0	0	0	0	0	28.25
327	4100308	CLAY GROUP	23.00	0	0	0.00	0	0	0	0	0	23.00
328	4100263	CLAY GROUP	18.75	0	0	0.00	0	0	0	0	0	18.75
329	4100309	CLAY GROUP	12.50	0	0	0.00	0	0	0	0	0	12.50
330	4100293	CLAY GROUP	9.50	0	0	1.00	0	0	0	0	0	8.50
331	3101077	CLAY GROUP	8.50	0	0	0.00	0	0	0	0	0	8.50
332	4100265	CLAY GROUP	8.25	0	0	8.25	0	0	0	0	0	.
333	3100132	CLAY GROUP	8.00	0	0	8.00	0	0	0	0	0	0.00
334	4101224	CLAY GROUP	8.00	0	0	5.00	0	0	0	0	0	3.00
335	4100264	CLAY GROUP	6.50	0	0	6.50	0	0	0	0	0	.
336	3100156	CLAY GROUP	5.75	0	0	5.75	0	0	0	0	0	0.00
337	4100241	CLAY GROUP	5.50	0	0	5.50	0	0	0	0	0	.
338	4102994	CLAY GROUP	5.00	0	0	5.00	0	0	0	0	0	0.00
339	4102594	CLAY GROUP	4.67	0	0	0.00	0	0	0	0	0	4.67
340	4100245	CLAY GROUP	4.00	0	0	2.00	0	0	0	0	0	2.00
341	3100539	CLAY GROUP	4.00	0	0	4.00	0	0	0	0	0	0.00
342	3100148	CLAY GROUP	3.25	0	0	2.00	0	0	0	0	0	1.25
343	4102192	CLAY GROUP	3.25	0	0	3.25	0	0	0	0	0	0.00
344	4100278	CLAY GROUP	3.00	0	0	3.00	0	0	0	0	0	0.00
345	4102829	CLAY GROUP	3.00	0	0	2.00	0	0	0	0	0	1.00
346	3100128	CLAY GROUP	3.00	0	0	3.00	0	0	0	0	0	0.00
347	4101339	CLAY GROUP	3.00	0	0	3.00	0	0	0	0	0	0.00
348	3100140	CLAY GROUP	2.00	0	0	2.00	0	0	0	0	0	0.00
349	3100159	CLAY GROUP	2.00	0	0	2.00	0	0	0	0	0	.
350	3100636	CLAY GROUP	2.00	0	0	2.00	0	0	0	0	0	0.00
351	3101130	CLAY GROUP	2.00	0	0	2.00	0	0	0	0	0	0.00
352	4100275	CLAY GROUP	2.00	0	0	2.00	0	0	0	0	0	.
353	4101220	CLAY GROUP	2.00	0	0	2.00	0	0	0	0	0	0.00
354	4101763	CLAY GROUP	2.00	0	0	2.00	0	0	0	0	0	0.00
355	4100260	CLAY GROUP	1.50	0	0	0.00	0	0	0	0	0	1.50
356	3100129	CLAY GROUP	1.50	0	0	1.50	0	0	0	0	0	.
357	3100126	CLAY GROUP	1.25	0	0	1.25	0	0	0	0	0	0.00
358	3100613	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	.
359	3100146	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	.
360	3100154	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0.00
361	3100155	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0.00
362	3100217	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0.00
363	3100247	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0.00
364	3100259	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	.
365	3100631	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0.00
366	4100274	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0.00

N=46

Checks (✓) identify first round
Self-Representing Units (SRU)

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 23, 1982 46

----- SIC=CLAY GROUP STRATUM=WY,MT,SD -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
367	4800057	CLAY GROUP	125.00	0	0	0.00	0	0	0	0	0	125.00
368	3900049	CLAY GROUP	96.25	0	0	0.00	0	0	0	0	0	96.25
369	4800602	CLAY GROUP	95.00	0	0	0.00	0	0	0	0	0	95.00
✓ 370	4801016	CLAY GROUP	89.58	0	0	68.58	0	0	0	0	0	21.00
✓ 371	4800070	CLAY GROUP	82.75	0	0	14.00	0	0	0	0	0	68.75
372	4800059	CLAY GROUP	73.25	0	0	0.00	0	0	0	0	0	73.25
✓ 373	4800611	CLAY GROUP	61.75	0	0	17.50	0	0	0	0	0	44.25
374	4800603	CLAY GROUP	55.75	0	0	55.75	0	0	0	0	0	0.00
375	2401437	CLAY GROUP	55.25	0	0	0.00	0	0	0	0	0	55.25
376	4800617	CLAY GROUP	49.50	0	0	0.00	0	0	0	0	0	49.50
377	4800888	CLAY GROUP	48.75	0	0	48.75	0	0	0	0	0	0.00
378	4800807	CLAY GROUP	45.00	0	0	45.00	0	0	0	0	0	0.00
379	4800594	CLAY GROUP	40.00	0	0	0.00	0	0	0	0	0	40.00
380	4800245	CLAY GROUP	39.75	0	0	0.00	0	0	0	0	0	39.75
381	4800974	CLAY GROUP	38.75	0	0	38.75	0	0	0	0	0	0.00
382	3900844	CLAY GROUP	35.00	0	0	35.00	0	0	0	0	0	0.00
383	4800597	CLAY GROUP	28.25	0	0	6.00	0	0	0	0	0	22.25
384	4801125	CLAY GROUP	21.00	0	0	21.00	0	0	0	0	0	0.00
385	4800816	CLAY GROUP	17.50	0	0	17.50	0	0	0	0	0	0.00
386	4800243	CLAY GROUP	17.25	0	0	0.00	0	0	0	0	0	17.25
387	4800889	CLAY GROUP	14.75	0	0	14.75	0	0	0	0	0	0.00
388	4801191	CLAY GROUP	14.50	0	0	0.00	0	0	0	0	0	14.50
389	4800987	CLAY GROUP	8.75	0	0	0.00	0	0	0	0	0	8.75
390	4800970	CLAY GROUP	7.00	0	0	7.00	0	0	0	0	0	0.00
391	4800877	CLAY GROUP	6.00	0	0	6.00	0	0	0	0	0	0.00
392	4800066	CLAY GROUP	4.00	0	0	4.00	0	0	0	0	0	0.00
393	4800063	CLAY GROUP	2.00	0	0	2.00	0	0	0	0	0	0.00
394	3900853	CLAY GROUP	1.00	0	0	1.00	0	0	0	0	0	0.00

N=28

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 47

----- SIC=BARITE STRATUM=AR,NV -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓395	300787	BARITE	101.00	0	0.0	14.50	0	0	0	0	0	86.50
✓396	2600411	BARITE	80.75	0	0.0	38.50	0	0	0	0	0	42.25
397	2601390	BARITE	68.50	0	0.0	0.00	0	0	0	0	0	68.50
✓398	2601592	BARITE	65.00	0	0.0	58.50	0	0	0	0	0	6.50
399	2601464	BARITE	53.50	0	0.0	53.50	0	0	0	0	0	0.00
400	2601152	BARITE	45.75	0	0.0	0.00	0	0	0	0	0	45.75
401	301454	BARITE	41.17	0	0.0	10.67	0	0	0	0	0	30.50
402	2600412	BARITE	35.75	0	0.0	0.00	0	0	0	0	0	35.75
403	2601418	BARITE	31.50	0	0.0	0.00	0	0	0	0	0	31.50
404	2600405	BARITE	27.67	0	0.0	27.67	0	0	0	0	0	0.00
405	2600635	BARITE	26.00	0	0.0	26.00	0	0	0	0	0	0.00
406	2601212	BARITE	25.50	0	0.0	0.00	0	0	0	0	0	25.50
407	2600828	BARITE	17.75	0	0.0	0.00	0	0	0	0	0	17.75
408	2600847	BARITE	17.50	0	0.0	17.50	0	0	0	0	0	0.00
409	2601613	BARITE	15.50	4	11.5	0.00	0	0	0	0	0	0.00
410	2601424	BARITE	15.00	0	0.0	0.00	0	0	0	0	0	15.00
411	2601473	BARITE	15.00	0	0.0	0.00	0	0	0	0	0	15.00
412	2601535	BARITE	14.75	0	0.0	0.00	0	0	0	0	0	14.75
413	2601124	BARITE	14.00	0	0.0	0.00	0	0	0	0	0	14.00
414	2601667	BARITE	13.00	0	0.0	13.00	0	0	0	0	0	0.00
415	2600401	BARITE	12.25	0	0.0	12.25	0	0	0	0	0	0.00
416	2600906	BARITE	12.00	0	0.0	0.00	0	0	0	0	0	12.00
417	2601660	BARITE	10.00	0	0.0	10.00	0	0	0	0	0	0.00
418	2600708	BARITE	8.00	0	0.0	8.00	0	0	0	0	0	0.00
419	301409	BARITE	7.75	0	0.0	7.75	0	0	0	0	0	0.00
420	2601610	BARITE	7.33	0	0.0	7.33	0	0	0	0	0	0.00
421	2601642	BARITE	7.00	0	0.0	7.00	0	0	0	0	0	0.00
422	2601578	BARITE	6.50	0	0.0	6.50	0	0	0	0	0	0.00
423	2601479	BARITE	6.33	0	0.0	6.33	0	0	0	0	0	0.00
424	2601634	BARITE	6.00	0	0.0	0.00	0	0	0	0	0	6.00
425	2601047	BARITE	5.50	0	0.0	5.50	0	0	0	0	0	0.00
426	2600823	BARITE	3.75	0	0.0	3.75	0	0	0	0	0	0.00
427	2600638	BARITE	3.25	0	0.0	3.25	0	0	0	0	0	0.00
428	2601641	BARITE	3.00	0	0.0	3.00	0	0	0	0	0	0.00
429	2601637	BARITE	1.50	0	0.0	1.50	0	0	0	0	0	0.00
430	2601636	BARITE	1.00	0	0.0	1.00	0	0	0	0	0	0.00

N=36

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 48

----- SIC=BARITE STRATUM=MT,GA,TN -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓431	900244	BARITE	47.50	0	0	17.25	0	0	0	0	0	30.25
✓432	900245	BARITE	42.50	0	0	8.00	0	0	0	0	0	34.50
433	2401220	BARITE	15.00	0	0	0.00	0	0	0	0	0	15.00
✓434	4000749	BARITE	10.75	0	0	7.00	0	0	0	0	0	3.75
435	4002521	BARITE	3.00	0	0	3.00	0	0	0	0	0	0.00
436	4002549	BARITE	2.67	0	0	2.67	0	0	0	0	0	0.00

N=6

Checks (✓) identify first round
Self-Representing Units (SRU)

Remaining sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 49

----- SIC=BARITE STRATUM=OTHER -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
437	1600257	BARITE	72.75	0	0	0.00	0	0	0	0	0	72.75
438	4102282	BARITE	64.75	0	0	0.00	0	0	0	0	0	64.75
439	2300567	BARITE	62.00	0	0	9.00	0	0	0	0	0	53.00
440	4201350	BARITE	52.75	0	0	0.00	0	0	0	0	0	52.75
441	2301771	BARITE	45.50	0	21	24.50	0	0	0	0	0	0.00
442	4100908	BARITE	45.00	0	0	0.00	0	0	0	0	0	45.00
443	1600255	BARITE	43.75	0	0	0.00	0	0	0	0	0	43.75
444	4102513	BARITE	42.75	0	0	0.00	0	0	0	0	0	42.75
445	2901750	BARITE	33.33	0	0	3.33	0	0	0	0	0	30.00
446	1600812	BARITE	32.50	0	0	0.00	0	0	0	0	0	32.50
447	4102515	BARITE	32.00	0	0	0.00	0	0	0	0	0	32.00
448	1600256	BARITE	30.00	0	0	0.00	0	0	0	0	0	30.00
449	1600967	BARITE	29.00	0	0	0.00	0	0	0	0	0	29.00
450	1600245	BARITE	27.25	0	0	0.00	0	0	0	0	0	27.25
451	4201360	BARITE	27.00	0	0	0.00	0	0	0	0	0	27.00
452	1600825	BARITE	25.50	0	0	0.00	0	0	0	0	0	25.50
453	4103033	BARITE	25.00	0	0	0.00	0	0	0	0	0	25.00
454	4101007	BARITE	24.50	0	0	0.00	0	0	0	0	0	24.50
455	2301212	BARITE	23.00	0	0	23.00	0	0	0	0	0	0.00
456	2301730	BARITE	23.00	0	0	0.00	0	0	0	0	0	23.00
457	1600495	BARITE	22.50	0	0	0.00	0	0	0	0	0	22.50
458	2300562	BARITE	22.50	0	0	11.50	0	0	0	0	0	11.00
459	2301796	BARITE	21.00	0	0	21.00	0	0	0	0	0	0.00
460	2300561	BARITE	19.00	0	0	9.50	0	0	0	0	0	9.50
461	4101665	BARITE	19.00	0	0	0.00	0	0	0	0	0	19.00
462	1001011	BARITE	18.67	0	0	0.00	0	0	0	0	0	18.67
463	2301625	BARITE	18.25	0	0	18.25	0	0	0	0	0	0.00
464	2300550	BARITE	17.75	0	0	6.75	0	0	0	0	0	11.00
465	2300559	BARITE	17.75	0	0	0.00	0	0	0	0	0	17.75
466	1600979	BARITE	17.25	0	0	0.00	0	0	0	0	0	17.25
467	4102993	BARITE	16.50	0	0	0.00	0	0	0	0	0	16.50
468	2300563	BARITE	16.25	0	0	0.00	0	0	0	0	0	16.25
469	4201351	BARITE	15.50	0	0	0.00	0	0	0	0	0	15.50
470	402649	BARITE	15.00	0	0	0.00	0	0	0	0	0	15.00
471	2300806	BARITE	13.00	0	0	13.00	0	0	0	0	0	0.00
472	3401247	BARITE	13.00	0	0	0.00	0	0	0	0	0	13.00
473	4101005	BARITE	13.00	0	0	0.00	0	0	0	0	0	13.00
474	2300553	BARITE	12.75	0	0	0.00	0	0	0	0	0	12.75
475	4102760	BARITE	12.00	0	0	0.00	0	0	0	0	0	12.00
476	5000470	BARITE	11.33	0	0	11.33	0	0	0	0	0	0.00
477	2300549	BARITE	11.00	0	0	4.00	0	0	0	0	0	7.00
478	4201658	BARITE	10.00	0	0	0.00	0	0	0	0	0	10.00
479	2300548	BARITE	9.50	0	0	4.00	0	0	0	0	0	5.50
480	4200989	BARITE	9.50	0	0	0.00	0	0	0	0	0	9.50
481	404269	BARITE	8.00	0	0	8.00	0	0	0	0	0	0.00
482	2300551	BARITE	8.00	0	0	3.25	0	0	0	0	0	4.75
483	4103035	BARITE	8.00	0	0	0.00	0	0	0	0	0	8.00
484	4201129	BARITE	7.33	0	0	0.00	0	0	0	0	0	7.33
485	1600989	BARITE	6.50	0	0	0.00	0	0	0	0	0	6.50
486	4102573	BARITE	6.50	0	0	0.00	0	0	0	0	0	6.50
487	2901749	BARITE	6.00	0	0	0.00	0	0	0	0	0	6.00
488	2901793	BARITE	6.50	0	0	6.50	0	0	0	0	0	

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 50

----- SIC=BARITE STRATUM=OTHER -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
489	2901808	BARITE	3.75	0	0	3.75	0	0	0	0	0	0.00
490	2301720	BARITE	3.25	0	0	1.50	0	0	0	0	0	1.75
491	202014	BARITE	3.00	0	0	2.00	0	0	0	0	0	1.00

N=55

In-stratum sampling of all sites

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 51

----- SIC=PHOSPHATE ROCK STRATUM=FL -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓492	800178	PHOSPHATE ROCK	461.00	0	0	242.75	0	0	0	0	0	218.25
✓493	800183	PHOSPHATE ROCK	390.50	0	0	222.50	0	0	0	0	0	168.00
✓494	800177	PHOSPHATE ROCK	358.92	0	0	197.42	0	0	0	0	0	161.50
495	800832	PHOSPHATE ROCK	325.75	0	0	282.00	0	0	0	0	0	43.75
496	800381	PHOSPHATE ROCK	324.75	0	0	281.50	0	0	0	0	0	43.25
497	800189	PHOSPHATE ROCK	267.00	0	0	231.00	0	0	0	0	0	36.00
498	800388	PHOSPHATE ROCK	234.00	0	0	0.00	0	0	0	0	0	234.00
499	800798	PHOSPHATE ROCK	228.50	0	0	111.50	0	0	0	0	0	117.00
500	800174	PHOSPHATE ROCK	217.33	0	0	87.33	0	0	0	0	0	130.00
501	800168	PHOSPHATE ROCK	208.25	0	0	126.50	0	0	0	0	0	81.75
502	800715	PHOSPHATE ROCK	208.08	0	0	135.83	0	0	0	0	0	72.25
503	800835	PHOSPHATE ROCK	203.33	0	0	122.58	0	0	0	0	0	80.75
504	800379	PHOSPHATE ROCK	202.25	0	0	132.25	0	0	0	0	0	70.00
505	800871	PHOSPHATE ROCK	201.00	0	0	201.00	0	0	0	0	0	.
506	800903	PHOSPHATE ROCK	195.00	0	0	152.25	0	0	0	0	0	42.75
507	800768	PHOSPHATE ROCK	181.00	0	0	91.50	0	0	0	0	0	89.50
508	800172	PHOSPHATE ROCK	178.25	0	0	95.25	0	0	0	0	0	83.00
509	800176	PHOSPHATE ROCK	174.25	0	0	101.00	0	0	0	0	0	73.25
510	800186	PHOSPHATE ROCK	157.25	0	0	96.75	0	0	0	0	0	60.50
511	800187	PHOSPHATE ROCK	142.50	0	0	81.00	0	0	0	0	0	61.50
512	800182	PHOSPHATE ROCK	138.25	0	0	0.00	0	0	0	0	0	138.25
513	800382	PHOSPHATE ROCK	123.50	0	0	0.00	0	0	0	0	0	123.50
514	800385	PHOSPHATE ROCK	118.50	0	0	72.50	0	0	0	0	0	46.00
515	800375	PHOSPHATE ROCK	107.00	0	0	0.00	0	0	0	0	0	107.00
516	800551	PHOSPHATE ROCK	76.50	0	0	0.00	0	0	0	0	0	76.50
517	800173	PHOSPHATE ROCK	71.50	0	0	37.50	0	0	0	0	0	34.00
518	800962	PHOSPHATE ROCK	39.67	0	0	39.67	0	0	0	0	0	0.00
519	800181	PHOSPHATE ROCK	3.75	0	0	3.75	0	0	0	0	0	0.00
520	800222	PHOSPHATE ROCK	3.25	0	0	3.25	0	0	0	0	0	0.00
521	800373	PHOSPHATE ROCK	3.00	0	0	3.00	0	0	0	0	0	0.00
522	800184	PHOSPHATE ROCK	2.75	0	0	0.00	0	0	0	0	0	2.75
523	800179	PHOSPHATE ROCK	2.00	0	0	2.00	0	0	0	0	0	.

N=32

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 52

----- SIC=PHOSPHATE ROCK STRATUM=ID -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓524	1000556	PHOSPHATE ROCK	279.50	0	0	279.50	0	0	0	0	0	0.00
✓525	1000094	PHOSPHATE ROCK	212.50	0	0	157.25	0	0	0	0	0	55.25
✓526	1000093	PHOSPHATE ROCK	167.25	0	0	154.25	0	0	0	0	0	13.00
527	1000095	PHOSPHATE ROCK	96.25	0	0	96.25	0	0	0	0	0	0.00
528	1001408	PHOSPHATE ROCK	77.75	0	0	77.75	0	0	0	0	0	0.00
529	1000091	PHOSPHATE ROCK	3.00	0	0	3.00	0	0	0	0	0	0.00

N=6

57
23

Checks (✓) identify first round
Self-Representing Units (SRU)

Remaining sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 53

----- SIC=PHOSPHATE ROCK STRATUM=NC -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓530	3100212	PHOSPHATE ROCK	543.75	0	0	359.75	0	0	0	0	0	184
N=1												

53

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 54

----- SIC=PHOSPHATE ROCK STRATUM=OTHER -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
531	2400146	PHOSPHATE ROCK	108.25	78.25	30	0.00	0	0	0	0	0	0.00
532	4800160	PHOSPHATE ROCK	72.75	0.00	0	6.00	0	0	0	0	0	66.75
533	4200998	PHOSPHATE ROCK	50.75	0.00	0	50.75	0	0	0	0	0	0.00
534	4200164	PHOSPHATE ROCK	28.50	0.00	0	0.00	0	0	0	0	0	28.50
535	4200842	PHOSPHATE ROCK	9.75	0.00	0	0.00	0	0	0	0	0	9.75

N=5

54

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 55

SIC=PHOSPHATE ROCK			STRATUM=TN									
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓536	4000629	PHOSPHATE ROCK	29.75	0	0	0.00	0	0	0	0	0	29.75
✓537	4000920	PHOSPHATE ROCK	16.00	0	0	8.00	0	0	0	0	0	8.00
538	4000885	PHOSPHATE ROCK	15.75	0	0	0.00	0	0	0	0	0	15.75
✓539	4000611	PHOSPHATE ROCK	10.25	0	0	10.25	0	0	0	0	0	0.00
540	4002175	PHOSPHATE ROCK	10.25	0	0	10.25	0	0	0	0	0	0.00
✓541	4002630	PHOSPHATE ROCK	9.50	0	0	5.00	0	0	0	0	0	4.50
542	4000921	PHOSPHATE ROCK	8.00	0	0	8.00	0	0	0	0	0	0.00
543	4001444	PHOSPHATE ROCK	7.00	0	0	7.00	0	0	0	0	0	0.00
544	4002173	PHOSPHATE ROCK	7.00	0	0	7.00	0	0	0	0	0	0.00
545	4000916	PHOSPHATE ROCK	6.33	0	0	6.33	0	0	0	0	0	0.00
546	4002339	PHOSPHATE ROCK	6.25	0	0	6.25	0	0	0	0	0	0.00
547	4001695	PHOSPHATE ROCK	6.00	0	0	6.00	0	0	0	0	0	0.00
548	4001445	PHOSPHATE ROCK	5.75	0	0	5.75	0	0	0	0	0	0.00
549	4002516	PHOSPHATE ROCK	5.75	0	0	5.75	0	0	0	0	0	0.00

N=14

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 56

----- SIC=GYP SUM STRATUM=ALL SITES -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓550	3400266	GYP SUM	232.75	0.00	0.00	35.00	0	0	0	0	0	197.75
✓551	2600097	GYP SUM	106.25	0.00	0.00	17.25	0	0	0	0	0	89.00
✓552	1200427	GYP SUM	86.25	31.25	42.50	0.00	0	0	0	0	0	12.50
553	3000593	GYP SUM	65.50	53.25	0.00	0.00	0	0	0	0	0	12.25
554	1300434	GYP SUM	53.75	26.00	19.75	0.00	0	0	0	0	0	8.00
555	300276	GYP SUM	47.25	0.00	0.00	35.50	0	0	0	0	0	11.75
556	2000372	GYP SUM	46.50	0.00	0.00	23.00	0	0	0	0	0	23.50
557	400915	GYP SUM	41.25	0.00	0.00	18.25	0	0	0	0	0	23.00
558	4401926	GYP SUM	38.25	38.25	0.00	0.00	0	0	0	0	0	0.00
559	1200429	GYP SUM	34.75	30.00	0.00	0.00	0	0	0	0	0	4.75
560	2000375	GYP SUM	33.00	0.00	0.00	33.00	0	0	0	0	0	0.00
561	4100847	GYP SUM	31.25	0.00	0.00	19.25	0	0	0	0	0	12.00
562	1300433	GYP SUM	27.75	0.00	0.00	23.75	0	0	0	0	0	4.00
563	4100852	GYP SUM	26.00	0.00	0.00	21.50	0	0	0	0	0	4.50
564	1301615	GYP SUM	24.50	0.00	0.00	24.50	0	0	0	0	0	0.00
565	1400309	GYP SUM	24.00	19.00	0.00	0.00	0	0	0	0	0	5.00
566	500429	GYP SUM	23.75	0.00	0.00	7.75	0	0	0	0	0	16.00
567	3400269	GYP SUM	22.25	0.00	0.00	22.25	0	0	0	0	0	0.00
568	1600021	GYP SUM	21.00	0.00	0.00	10.00	0	0	0	0	0	11.00
569	4100850	GYP SUM	21.00	0.00	0.00	11.00	0	0	0	0	0	10.00
570	2600817	GYP SUM	18.75	0.00	0.00	0.00	0	0	0	0	0	18.75
571	200163	GYP SUM	17.50	0.00	0.00	13.50	0	0	0	0	0	4.00
572	2001019	GYP SUM	16.50	15.50	1.00	0.00	0	0	0	0	0	0.00
573	1300437	GYP SUM	16.00	0.00	0.00	8.25	0	0	0	0	0	7.75
574	2600093	GYP SUM	16.00	0.00	0.00	5.25	0	0	0	0	0	10.75
575	3301188	GYP SUM	15.00	0.00	0.00	10.00	0	0	0	0	0	5.00
576	1400308	GYP SUM	14.00	7.00	7.00	0.00	0	0	0	0	0	0.00
577	4100851	GYP SUM	14.00	0.00	0.00	7.00	0	0	0	0	0	7.00
578	2000379	GYP SUM	13.25	0.00	0.00	13.25	0	0	0	0	0	0.00
579	3400270	GYP SUM	12.75	0.00	0.00	12.75	0	0	0	0	0	.
580	4401927	GYP SUM	12.75	2.50	1.00	0.00	0	0	0	0	0	9.25
581	1300435	GYP SUM	12.50	0.00	0.00	9.50	0	0	0	0	0	3.00
582	400929	GYP SUM	12.00	0.00	0.00	9.00	0	0	0	0	0	3.00
583	4200161	GYP SUM	12.00	0.00	0.00	6.00	0	0	0	0	0	6.00
584	4801019	GYP SUM	11.50	0.00	0.00	11.50	0	0	0	0	0	0.00
585	2000378	GYP SUM	11.33	11.33	0.00	0.00	0	0	0	0	0	.
586	500425	GYP SUM	11.00	0.00	0.00	9.00	0	0	0	0	0	2.00
587	2400145	GYP SUM	9.75	6.75	0.00	0.00	0	0	0	0	0	3.00
588	4102670	GYP SUM	9.75	0.00	0.00	9.75	0	0	0	0	0	.
589	1400630	GYP SUM	9.25	0.00	0.00	9.25	0	0	0	0	0	0.00
590	404276	GYP SUM	9.00	0.00	0.00	4.50	0	0	0	0	0	4.50
591	3901035	GYP SUM	9.00	0.00	0.00	9.00	0	0	0	0	0	0.00
592	4100848	GYP SUM	9.00	0.00	0.00	9.00	0	0	0	0	0	.
593	400927	GYP SUM	8.75	0.00	0.00	2.75	0	0	0	0	0	6.00
594	4102822	GYP SUM	8.33	0.00	0.00	8.33	0	0	0	0	0	0.00
595	4200160	GYP SUM	8.00	0.00	0.00	7.00	0	0	0	0	0	1.00
596	2600095	GYP SUM	6.75	0.00	0.00	6.75	0	0	0	0	0	0.00
597	2600668	GYP SUM	6.50	0.00	0.00	6.50	0	0	0	0	0	0.00
598	1301714	GYP SUM	6.25	0.00	0.00	0.00	0	0	0	0	0	6.25
599	4800629	GYP SUM	6.00	0.00	0.00	6.00	0	0	0	0	0	0.00
600	3401132	GYP SUM	5.00	0.00	0.00	5.00	0	0	0	0	0	0.00
601	3400267	GYP SUM	4.75	0.00	0.00	4.75	0	0	0	0	0	.

SAMPLE FRAME R6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 57

----- SIC=GYP SUM STRATUM=ALL SITES -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
602	3401168	GYP SUM	4.75	0	0	4.75	0	0	0	0	0	0.00
603	3400272	GYP SUM	4.00	0	0	4.00	0	0	0	0	0	0.00
604	4201132	GYP SUM	3.83	0	0	1.50	0	0	0	0	0	2.33
605	200164	GYP SUM	3.75	0	0	3.75	0	0	0	0	0	0.00
606	500427	GYP SUM	3.75	0	0	3.75	0	0	0	0	0	0.00
607	2900181	GYP SUM	3.00	0	0	3.00	0	0	0	0	0	0.00
608	4800630	GYP SUM	2.75	0	0	2.75	0	0	0	0	0	0.00
609	2900182	GYP SUM	2.25	0	0	2.25	0	0	0	0	0	0.00
610	403571	GYP SUM	2.00	0	0	2.00	0	0	0	0	0	0.00
611	404235	GYP SUM	2.00	0	0	2.00	0	0	0	0	0	0.00
612	2900178	GYP SUM	2.00	0	0	2.00	0	0	0	0	0	0.00
613	3901041	GYP SUM	2.00	0	0	2.00	0	0	0	0	0	0.00
614	404190	GYP SUM	1.75	0	0	1.75	0	0	0	0	0	0.00
615	3400271	GYP SUM	1.00	0	0	1.00	0	0	0	0	0	0.00
616	404359	GYP SUM	0.50	0	0	0.50	0	0	0	0	0	0.00

N=67

Checks (✓) identify first round
Self-Representing Units (SRU)

In-stratum sampling of nonchecked sites

57

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 58

----- SIC=ASBESTOS STRATUM=AZ -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓617	200951	ASBESTOS	13.25	13.25	0	0	0	0	0	0	0	0
✓618	200954	ASBESTOS	6.00	0.00	0	0	0	0	0	0	0	6
N=2												

CU
00

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 59

----- SIC=ASBESTOS STRATUM=E.CA -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓619	401061	ASBESTOS	121.75	0	0	0	0	0	0	0	0	121.75
✓620	402547	ASBESTOS	84.00	0	0	84	0	0	0	0	0	0.00

N=2

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 60

----- SIC=ASBESTOS STRATUM=VT -----

OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓621	4300065	ASBESTOS	176	0	0	54.5	0	0	0	0	0	121.5
N=1												

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 61

----- SIC=ASBESTOS STRATUM=W.CA -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓622	401062	ASBESTOS	60.25	0	0	0	0	0	0	0	0	60.25
✓623	402550	ASBESTOS	12.00	0	0	12	0	0	0	0	0	0.00
N=2												

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 62

----- SIC=GILSONITE STRATUM=ALL SITES -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓624	4200854	GILSONITE	95.00	44.50	17.00	0	0	0	0	0	0	33.5
✓625	4201146	GILSONITE	38.25	21.75	16.50	0	0	0	0	0	0	0.0
✓626	4200876	GILSONITE	13.17	.	3.67	0	0	0	0	0	0	9.5
✓627	4201446	GILSONITE	8.50	6.50	2.00	0	0	0	0	0	0	0.0
628	4201200	GILSONITE	3.25	2.25	1.00	0	0	0	0	0	0	0.0
629	4201395	GILSONITE	3.00	2.00	1.00	0	0	0	0	0	0	0.0
N=6												

62

Checks (✓) identify first round
Self-Representing Units (SRU)

Remaining sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

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----- SIC=MICA STRATUM=NC -----												
OBS	MID	SIC	HUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓630	3100375	MICA	79.00	0	0	20	0	0	0	0	0	59.00
✓631	3100273	MICA	44.75	0	0	12	0	0	0	0	0	32.75
632	3101148	MICA	37.25	0	0	0	0	0	0	0	0	37.25
✓633	3100274	MICA	21.50	0	0	7	0	0	0	0	0	14.50
634	3101746	MICA	21.00	0	0	0	0	0	0	0	0	21.00
635	3100675	MICA	12.75	0	0	0	0	0	0	0	0	12.75
636	3100381	MICA	9.25	0	0	0	0	0	0	0	0	9.25
637	3101080	MICA	5.00	0	0	0	0	0	0	0	0	5.00

N=8

Checks (✓) identify first round
Self-Representing Units (SRU)

Remaining sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 64

		SIC=MICA		STRATUM=OTHER								
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
638	900241	MICA	23.25	0	0	12.75	0	0	0	0	0	10.50
639	3901158	MICA	12.50	0	0	0.00	0	0	0	0	0	12.50
640	502798	MICA	11.50	0	0	0.00	0	0	0	0	0	11.50
641	2900751	MICA	11.25	0	0	0.00	0	0	0	0	0	11.25
642	3600164	MICA	9.25	0	0	9.25	0	0	0	0	0	0.00
643	3800095	MICA	9.00	0	0	2.00	0	0	0	0	0	7.00
644	100669	MICA	5.00	0	0	0.00	0	0	0	0	0	5.00
645	1800562	MICA	5.00	0	0	5.00	0	0	0	0	0	0.00
646	2900608	MICA	3.50	0	0	3.50	0	0	0	0	0	.
647	3900956	MICA	3.00	0	0	0.00	0	0	0	0	0	3.00
648	3901235	MICA	2.33	0	0	0.00	0	0	0	0	0	2.33
649	3901239	MICA	2.00	0	0	2.00	0	0	0	0	0	0.00
650	3901251	MICA	2.00	0	0	0.00	0	0	0	0	0	2.00
651	3901234	MICA	1.67	0	0	1.67	0	0	0	0	0	0.00
652	3800205	MICA	1.00	0	0	1.00	0	0	0	0	0	0.00

N=15

In-stratum sampling of all sites

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 65

----- SIC=VERMICULITE STRATUM=MT -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓653	2400165	VERMICULITE	168.75	0	0	49.25	0	0	0	0	0	119.5
N=1												

65

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 66

----- SIC=VERMICULITE STRATUM=OTHER -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
654	301364	VERMICULITE	20.5	0	0	0	0	0	0	0	0	20.5
655	2301650	VERMICULITE	14.5	0	0	0	0	0	0	0	0	14.5
N=2												

99

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 67

----- SIC=VERMICULITE STRATUM=SC -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
✓656	3800085	VERMICULITE	45.75	0	0	0.00	0	0	0	0	0	45.75
✓657	3800251	VERMICULITE	29.25	0	0	29.25	0	0	0	0	0	0.00
✓658	3800086	VERMICULITE	10.75	0	0	5.00	0	0	0	0	0	5.75
✓659	3800259	VERMICULITE	9.25	0	0	9.25	0	0	0	0	0	0.00

N=4

67

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

SAMPLE FRAME #6
ACTIVE NONMETAL MINES
STRATIFIED BY COMMODITY AND GEOGRAPHY

12:27 MONDAY, OCTOBER 25, 1982 68

----- SIC=VERMICULITE STRATUM=VA -----												
OBS	MID	SIC	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9
660	4405101	VERMICULITE	20	0	0	3.67	0	0	0	0	0	16.33
N=1												

Checks (✓) identify first round
Self-Representing Units (SRU)

All sites included as SRU's

Exhibit 2. Sample Frame #6: Manually Selected First
Round SRU's by SIC and MID

SAMPLE FRAME #6
MANUALLY SELECTED T ROUND SRUS
BY SIC AND MID

15:12 FRIDAY, OCTOBER 29, 1982 20

OBS	MID	SIC	GEO	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9	WT
1	402511	IRON ORE	0	964.50	0.00	0.00	458.00	0	0	0	0	0	506.50	A
2	404358	IRON ORE	0	2.50	0.00	0.00	2.50	0	0	0	0	0	0.00	A
3	2000422	IRON ORE	2	1243.00	0.00	0.00	409.75	0	0	0	0	0	833.25	A
4	2100256	IRON ORE	2	1704.50	0.00	0.00	1082.50	0	0	0	0	0	622.00	A
5	2101600	IRON ORE	2	1045.75	0.00	0.00	605.25	0	0	0	0	0	440.50	A
6	2300454	IRON ORE	9	271.75	117.50	40.00	0.00	0	0	0	0	0	114.25	A
7	2300455	IRON ORE	9	292.00	143.50	55.25	0.00	0	0	0	0	0	93.25	A
8	4100922	IRON ORE	0	13.50	0.00	0.00	9.75	0	0	0	0	0	3.75	A
9	4101643	IRON ORE	0	189.00	0.00	0.00	46.00	0	0	0	0	0	143.00	A
10	4102764	IRON ORE	0	21.25	0.00	0.00	11.00	0	0	0	0	0	10.25	A
11	4200946	IRON ORE	0	30.25	0.00	0.00	17.25	0	0	0	0	0	13.00	A
12	4800144	IRON ORE	9	126.25	61.25	38.25	0.00	0	0	0	0	0	26.75	A
13	4800145	IRON ORE	9	497.50	0.00	0.00	141.75	0	0	0	0	0	355.75	A
14	200024	COPPER ORE	1	634.25	0.00	0.00	416.25	0	0	0	0	0	218.00	A
15	200157	COPPER ORE	1	570.00	0.00	0.00	376.50	0	0	0	0	0	193.50	A
16	200305	COPPER ORE	1	326.25	0.00	0.00	247.75	0	0	0	0	0	78.50	A
17	1000458	COPPER ORE	0	32.50	0.00	0.00	19.50	0	0	0	0	0	13.00	A
18	2000371	COPPER ORE	9	904.25	638.00	176.50	0.00	0	0	0	0	0	89.75	A
19	2400338	COPPER ORE	0	597.75	0.00	0.00	597.75	0	0	0	0	0	0.00	A
20	2400689	COPPER ORE	0	268.50	0.00	0.00	0.00	0	0	0	0	0	268.50	A
21	2900159	COPPER ORE	4	717.25	0.00	0.00	447.50	0	0	0	0	0	269.75	A
22	2900708	COPPER ORE	4	545.50	0.00	0.00	510.25	0	0	0	0	0	35.25	A
23	4000603	COPPER ORE	0	122.00	0.00	0.00	0.00	0	0	0	0	0	122.00	A
24	4000704	COPPER ORE	0	124.25	124.25	0.00	0.00	0	0	0	0	0	0.00	A
25	4000707	COPPER ORE	0	61.00	61.00	.	0.00	0	0	0	0	0	0.00	A
26	4002039	COPPER ORE	0	129.25	0.00	0.00	0.00	0	0	0	0	0	129.25	A
27	4201153	COPPER ORE	4	635.25	571.00	.	0.00	0	0	0	0	0	64.25	A
28	500412	LEAD/ZINC ORES	0	95.00	92.25	2.75	0.00	0	0	0	0	0	0.00	A
29	500417	LEAD/ZINC ORES	0	162.75	100.00	15.25	0.00	0	0	0	0	0	47.50	A
30	500516	LEAD/ZINC ORES	0	139.25	80.25	43.75	0.00	0	0	0	0	0	15.25	A
31	1000083	LEAD/ZINC ORES	0	493.75	407.50	50.50	0.00	0	0	0	0	0	35.75	A
32	1000086	LEAD/ZINC ORES	0	312.00	218.25	66.75	0.00	0	0	0	0	0	27.00	A
33	1000088	LEAD/ZINC ORES	0	283.75	217.00	55.50	0.00	0	0	0	0	0	11.25	A
34	2300457	LEAD/ZINC ORES	3	479.25	329.50	.	0.00	0	0	0	0	0	149.75	A
35	2300458	LEAD/ZINC ORES	3	403.50	255.75	35.50	0.00	0	0	0	0	0	112.25	A
36	2300494	LEAD/ZINC ORES	3	166.00	77.75	36.00	0.00	0	0	0	0	0	52.25	A
37	4000168	LEAD/ZINC ORES	5	143.25	139.00	4.25	0.00	0	0	0	0	0	0.00	A
38	4000606	LEAD/ZINC ORES	5	129.25	123.25	6.00	0.00	0	0	0	0	0	0.00	A
39	4000864	LEAD/ZINC ORES	5	144.75	100.75	44.00	0.00	0	0	0	0	0	0.00	A
40	4000866	LEAD/ZINC ORES	5	59.75	0.00	0.00	0.00	0	0	0	0	0	59.75	A
41	4001749	LEAD/ZINC ORES	5	29.00	0.00	0.00	0.00	0	0	0	0	0	29.00	A
42	4001981	LEAD/ZINC ORES	5	59.75	0.00	0.00	0.00	0	0	0	0	0	59.75	A
43	500413	SILVER	8	178.75	141.00	1.50	0.00	0	0	0	0	0	36.25	A
44	1000082	SILVER	8	257.50	195.50	47.25	0.00	0	0	0	0	0	14.75	A
45	1000089	SILVER	8	251.50	193.25	23.00	0.00	0	0	0	0	0	35.25	A
46	100650	ALUMINUM ORE+	9	672.75	0.00	0.00	0.00	0	0	0	0	0	672.75	A
47	101565	ALUMINUM ORE+	9	3.75	0.00	0.00	3.75	0	0	0	0	0	0.00	A
48	102214	ALUMINUM ORE+	9	4.00	0.00	0.00	4.00	0	0	0	0	0	0.00	A
49	300069	ALUMINUM ORE+	0	836.75	0.00	0.00	0.00	0	0	0	0	0	836.75	A
50	300257	ALUMINUM ORE+	0	1093.75	0.00	0.00	0.00	0	0	0	0	0	1093.75	A
51	300261	ALUMINUM ORE+	0	14.00	0.00	0.00	2.00	0	0	0	0	0	12.00	A
52	300262	ALUMINUM ORE+	0	176.00	0.00	0.00	176.00	0	0	0	0	0	0.00	A
53	300472	ALUMINUM ORE+	0	89.00	0.00	0.00	89.00	0	0	0	0	0	0.00	A
54	900684	ALUMINUM ORE+	9	19.00	0.00	0.00	0.00	0	0	0	0	0	19.00	A

SAMPLE FRAME #6
MANUALLY SELECTED ROUND SRUS
BY : ID

15:12 FRIDAY, OCTOBER 29, 1982 21

OBS	MID	SIC	GEO	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9	WT
55	900921	ALUMINUM ORE+	9	2.00	0.00	0.0	0.00	0	0	0	0	0	2.00	A
56	1000533	COBALT	9	119.83	37.50	78.0	0.00	0	0	0	0	0	4.33	A
57	1100876	MANGANESE	9	44.25	0.00	0.0	0.00	0	0	0	0	0	44.25	A
58	2900762	MANGANESE	9	6.75	0.00	0.0	6.75	0	0	0	0	0	0.00	A
59	3800206	MANGANESE	9	1.00	0.00	0.0	1.00	0	0	0	0	0	0.00	A
60	4100148	MANGANESE	9	14.25	0.00	0.0	0.00	0	0	0	0	0	14.25	A
61	4102978	MANGANESE	9	17.00	0.00	0.0	0.00	0	0	0	0	0	17.00	A
62	500354	MOLYBDENUM	0	1729.50	1594.50	135.0	0.00	0	0	0	0	0	0.00	A
63	500790	MOLYBDENUM	0	442.75	.	.	0.00	0	0	0	0	0	442.75	A
64	502256	MOLYBDENUM	0	459.25	0.00	0.0	459.25	0	0	0	0	0	0.00	A
65	502337	MOLYBDENUM	0	745.00	0.00	0.0	0.00	0	0	0	0	0	745.00	A
66	1000531	MOLYBDENUM	9	8.50	8.50	0.0	0.00	0	0	0	0	0	0.00	A
67	1001416	MOLYBDENUM	9	6.00	3.00	3.0	0.00	0	0	0	0	0	0.00	A
68	2900164	MOLYBDENUM	0	443.75	0.00	0.0	136.25	0	0	0	0	0	307.50	A
69	3500391	NICKEL	9	186.50	0.00	0.0	115.25	0	0	0	0	0	71.25	A
70	4502424	URANIUM+	8	277.75	0.00	0.0	166.50	0	0	0	0	0	111.25	A
71	4800466	URANIUM+	8	337.50	0.00	0.0	255.50	0	0	0	0	0	82.00	A
72	4800490	URANIUM+	8	498.75	0.00	0.0	416.75	0	0	0	0	0	82.00	A
73	300479	VANADIUM	9	169.50	0.00	0.0	14.75	0	0	0	0	0	154.75	A
74	501784	VANADIUM	9	29.50	0.00	0.0	0.00	0	0	0	0	0	29.50	A
75	100034	CLAY GROUP	3	52.75	0.00	0.0	4.00	0	0	0	0	0	48.75	A
76	900110	CLAY GROUP	1	294.75	0.00	0.0	99.00	0	0	0	0	0	195.75	A
77	900125	CLAY GROUP	1	370.25	0.00	0.0	43.00	0	0	0	0	0	327.25	A
78	900135	CLAY GROUP	1	139.00	0.00	0.0	9.00	0	0	0	0	0	130.00	A
79	1500187	CLAY GROUP	5	43.00	0.00	0.0	13.50	0	0	0	0	0	29.50	A
80	2200032	CLAY GROUP	3	43.25	0.00	0.0	15.25	0	0	0	0	0	28.00	A
81	2200035	CLAY GROUP	3	88.75	0.00	0.0	9.75	0	0	0	0	0	79.00	A
82	2300159	CLAY GROUP	2	133.75	0.00	0.0	2.75	0	0	0	0	0	131.00	A
83	2301602	CLAY GROUP	2	100.00	0.00	0.0	13.50	0	0	0	0	0	86.50	A
84	3100135	CLAY GROUP	6	39.00	0.00	0.0	8.00	0	0	0	0	0	31.00	A
85	3600630	CLAY GROUP	2	17.50	10.75	1.5	0.00	0	0	0	0	0	5.25	A
86	4000194	CLAY GROUP	5	40.00	0.00	0.0	10.50	0	0	0	0	0	29.50	A
87	4000204	CLAY GROUP	5	76.00	0.00	0.0	4.00	0	0	0	0	0	72.00	A
88	4100262	CLAY GROUP	6	131.75	0.00	0.0	12.00	0	0	0	0	0	119.75	A
89	4100298	CLAY GROUP	6	115.00	0.00	0.0	43.00	0	0	0	0	0	72.00	A
90	4800070	CLAY GROUP	7	82.75	0.00	0.0	14.00	0	0	0	0	0	68.75	A
91	4800611	CLAY GROUP	7	61.75	0.00	0.0	17.50	0	0	0	0	0	44.25	A
92	4801016	CLAY GROUP	7	89.58	0.00	0.0	68.58	0	0	0	0	0	21.00	A
93	300787	BARITE	1	101.00	0.00	0.0	14.50	0	0	0	0	0	86.50	A
94	900244	BARITE	0	47.50	0.00	0.0	17.25	0	0	0	0	0	30.25	A
95	900245	BARITE	0	42.50	0.00	0.0	8.00	0	0	0	0	0	34.50	A
96	2600411	BARITE	1	80.75	0.00	0.0	38.50	0	0	0	0	0	42.25	A
97	2601592	BARITE	1	65.00	0.00	0.0	58.50	0	0	0	0	0	6.50	A
98	4000749	BARITE	0	10.75	0.00	0.0	7.00	0	0	0	0	0	3.75	A
99	800177	PHOSPHATE ROCK	1	358.92	0.00	0.0	197.42	0	0	0	0	0	161.50	A
100	800178	PHOSPHATE ROCK	1	461.00	0.00	0.0	242.75	0	0	0	0	0	218.25	A
101	800183	PHOSPHATE ROCK	1	390.50	0.00	0.0	222.50	0	0	0	0	0	168.00	A
102	1000093	PHOSPHATE ROCK	0	167.25	0.00	0.0	154.25	0	0	0	0	0	13.00	A
103	1000094	PHOSPHATE ROCK	0	212.50	0.00	0.0	157.25	0	0	0	0	0	55.25	A
104	1000556	PHOSPHATE ROCK	0	279.50	0.00	0.0	279.50	0	0	0	0	0	0.00	A
105	3100212	PHOSPHATE ROCK	9	543.75	0.00	0.0	359.75	0	0	0	0	0	184.00	A
106	4000611	PHOSPHATE ROCK	5	10.25	0.00	0.0	10.25	0	0	0	0	0	0.00	A
107	4000629	PHOSPHATE ROCK	5	29.75	0.00	0.0	0.00	0	0	0	0	0	29.75	A
108	4000920	PHOSPHATE ROCK	5	16.00	0.00	0.0	8.00	0	0	0	0	0	8.00	A

SAMPLE FRAME #6
MANUALLY SELECTED ST ROUND SRUS
BY MID

15:12 FRIDAY, OCTOBER 29, 1982 22

OBS	MID	SIC	GEO	NUMAVM	AVM1	AVM2	AVM3	AVM4	AVM5	AVM6	AVM7	AVM8	AVM9	WT
109	4002630	PHOSPHATE ROCK	5	9.50	0.00	0.00	5.00	0	0	0	0	0	4.50	A
110	1200427	GYP SUM	8	86.25	31.25	42.50	0.00	0	0	0	0	0	12.50	A
111	2600097	GYP SUM	8	106.25	0.00	0.00	17.25	0	0	0	0	0	89.00	A
112	3400266	GYP SUM	8	232.75	0.00	0.00	35.00	0	0	0	0	0	197.75	A
113	200951	ASBESTOS	9	13.25	13.25	0.00	0.00	0	0	0	0	0	0.00	A
114	200954	ASBESTOS	9	6.00	0.00	0.00	0.00	0	0	0	0	0	6.00	A
115	401061	ASBESTOS	9	121.75	0.00	0.00	0.00	0	0	0	0	0	121.75	A
116	401062	ASBESTOS	9	60.25	0.00	0.00	0.00	0	0	0	0	0	60.25	A
117	402547	ASBESTOS	9	84.00	0.00	0.00	84.00	0	0	0	0	0	0.00	A
118	402550	ASBESTOS	9	12.00	0.00	0.00	12.00	0	0	0	0	0	0.00	A
119	4300065	ASBESTOS	9	176.00	0.00	0.00	54.50	0	0	0	0	0	121.50	A
120	4200854	GILSONITE	9	95.00	44.50	17.00	0.00	0	0	0	0	0	33.50	A
121	4200876	GILSONITE	9	13.17	.	3.67	0.00	0	0	0	0	0	9.50	A
122	4201146	GILSONITE	9	38.25	21.75	16.50	0.00	0	0	0	0	0	0.00	A
123	4201446	GILSONITE	9	8.50	6.50	2.00	0.00	0	0	0	0	0	0.00	A
124	3100273	MICA	1	44.75	0.00	0.00	12.00	0	0	0	0	0	32.75	A
125	3100274	MICA	1	21.50	0.00	0.00	7.00	0	0	0	0	0	14.50	A
126	3100375	MICA	1	79.00	0.00	0.00	20.00	0	0	0	0	0	59.00	A
127	2400165	VERMICULITE	9	168.75	0.00	0.00	49.25	0	0	0	0	0	119.50	A
128	3800085	VERMICULITE	9	45.75	0.00	0.00	0.00	0	0	0	0	0	45.75	A
129	3800086	VERMICULITE	9	10.75	0.00	0.00	5.00	0	0	0	0	0	5.75	A
130	3800251	VERMICULITE	9	29.25	0.00	0.00	29.25	0	0	0	0	0	0.00	A
131	3800259	VERMICULITE	9	9.25	0.00	0.00	9.25	0	0	0	0	0	0.00	A
132	4405101	VERMICULITE	9	20.00	0.00	0.00	3.67	0	0	0	0	0	16.33	A

N=132

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Exhibit 3. Occupational Hazard Survey of the Mining Industry:
Sample Draw, October 30, 1982

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 100507

SIC CODE: 10110 IRON ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: SHOOK) FLETCHER SUPPLY CO ROUTE 3

RUSSELLVILLE AL 35653

MINE NAME AND ADDRESS: BLACKBURN MN & MLL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): FRANKLIN , AL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	8.00
	TOTAL MINE EMPLOYMENT	8.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 402511

SIC CODE: 10110 IRON ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: KAISER STEEL CORPORATION

P. O. BOX 158

EAGLE MT. CA 92241

MINE NAME AND ADDRESS: EAGLE MOUNTAIN MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): RIVERSIDE , CA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	458.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	506.50
	TOTAL MINE EMPLOYMENT	964.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 404358 SIC CODE: 10110 IRON ORE SELECTION STATUS: A
COMPANY NAME AND ADDRESS: TRANSCORP TECHNOLOGY INC 23900 HAWTHORNE BOULEVARD, #15 TORRANCE CA 90505
MINE NAME AND ADDRESS: SILVER LAKE
MINE TELEPHONE NUMBER:
HEALTH AND SAFETY CONTACT:
MINE LOCATION (COUNTY, STATE): SAN BERNARDINO , CA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	2.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	2.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 500495

SIC CODE: 10110 IRON ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: BOYLES BROS DRILLING CO

1624 PIONEER RD PO BOX 58

SALT LAKE CTY UT 84110

MINE NAME AND ADDRESS: ARGO TUNNEL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CLEAR CREEK , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	8.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	8.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2600146

SIC CODE: 10110 IRON ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: COONEY MINING CO

PO BOX 568

LOVELOCK

NV 89419

MINE NAME AND ADDRESS: COONEY IRON MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PERSHING , NV

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	6.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	6.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4100922

SIC CODE: 10110 IRON ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: MATHIS & MATHIS MNG & EXPL CO BOX 452

SILVER CITY NM 88061

MINE NAME AND ADDRESS: SIDERITE MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CASS , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	9.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	3.75
	TOTAL NINE EMPLOYMENT	13.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4102764

SIC CODE: 10110 IRON ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: TEX IRON INC

P O BOX 46

LARUE

TX 75770

MINE NAME AND ADDRESS: LA RUE PIT AND PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HENDERSON , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	11.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	10.25
	TOTAL MINE EMPLOYMENT	21.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4101643

SIC CODE: 10110 IRON ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: PLAINS MACHINERY CO

P O BOX 30800

AMARILLO TX 79120

MINE NAME AND ADDRESS: LONESTAR STEEL MINES AND PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MORRIS , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	46.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	143.00
	TOTAL MINE EMPLOYMENT	189.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4200946

SIC CODE: 10110 IRON ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: MATHEWS INDUSTRIAL CONST INC 379 LAWNDALE DRIVE

SALT LAKE C UT 84115

MINE NAME AND ADDRESS: COMSTOCK MN & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): IRON , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	17.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	13.00
	TOTAL MINE EMPLOYMENT	30.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2000422

SIC CODE: 10110 IRON ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: CLEVELAND CLIFFS IRON CO

SPRUCE STREET

ISHPEMING

MI 49849

MINE NAME AND ADDRESS: TILDEN MINE OP

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MARQUETTE , MI

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	409.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	833.25
	TOTAL MINE EMPLOYMENT	1243.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 310 DULUTH, MN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2000423

SIC CODE: 10110 IRON ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: CLEVELAND CLIFFS IRON CO SPRUCE STREET

ISHPEMING MI 49849

MINE NAME AND ADDRESS: REPUBLIC OP PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MARQUETTE , MI

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	271.33
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	160.00
	TOTAL MINE EMPLOYMENT	431.33

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 310 DULUTH, MN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2100831

SIC CODE: 10110 IRON ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: RESERVE MINING CO

SILVER BAY MN 55614

MINE NAME AND ADDRESS: E W DAVIS WORKS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LAKE , MN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	976.25
	TOTAL MINE EMPLOYMENT	976.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 310 DULUTH, MN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2100209

SIC CODE: 10110 IRON ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: RESERVE MINING CO

SILVER BAY MN 55614

MINE NAME AND ADDRESS: PETER MITCHELL MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ST LOUIS , MN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	1096.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	1096.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 310 DULUTH, MN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2100256

SIC CODE: 10110 IRON ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: ERIE MINING COMPANY

P O BOX 847

HOYT LAKES MN 55750

MINE NAME AND ADDRESS: ERIE MINING COMPANY

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ST LOUIS , MN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	1082.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	622.00
	TOTAL MINE EMPLOYMENT	1704.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 310 DULUTH, MN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2100282

SIC CODE: 10110 IRON ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: US STEEL CRP-MINN ORE OPERS P O BOX 417

MOUNTAIN IRON MN 55768

MINE NAME AND ADDRESS: MINNTAC MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ST LOUIS , MN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	1734.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	1734.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 310 DULUTH, MN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2100820

SIC CODE: 10110 IRON ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: US STEEL CRP-MINN ORE OPERS P O BOX 417

MOUNTAIN IRON MN 55768

MINE NAME AND ADDRESS: MINNTAC PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ST LOUIS , MN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	1297.75
	TOTAL MINE EMPLOYMENT	1297.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 310 DULUTH, MN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2101600

SIC CODE: 10110 IRON ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: HIBBING TACONITE COMPANY

P O BOX 589

HIBBING

MN 55746

MINE NAME AND ADDRESS: HIBBING TACONITE COMPANY

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ST LOUIS , MN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	605.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	440.50
	TOTAL MINE EMPLOYMENT	1045.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 310 DULUTH, MN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4102320

SIC CODE: 10110 IRON ORE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: HUDSON BROS. MINING CO., INC. P.O. BOX 301

RUSK TX 75785

MINE NAME AND ADDRESS: HUDSON PIT & PLT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CHEROKEE , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	15.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	15.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2300455

SIC CODE: 10110 IRON ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: THE HANNA MINING CO., AGENT BOX 26

IRONTON MO 63650

MINE NAME AND ADDRESS: PILOT KNOB PELLET COMPANY

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): IRON , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	143.50
	SURFACE FACILITIES	55.25
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	93.25
	TOTAL MINE EMPLOYMENT	292.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2300454

SIC CODE: 10110 IRON ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: PEA RIDGE IRON ORE CO INC ROUTE 4

SULLIVAN NO 63080

MINE NAME AND ADDRESS: PEA RIDGE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WASHINGTON , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	117.50
	SURFACE FACILITIES	40.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	114.25
	TOTAL MINE EMPLOYMENT	271.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800145

SIC CODE: 10110 IRON ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: UNITED STATES STEEL CORP

BOX 569

LANDER

WY 82520

MINE NAME AND ADDRESS: ATLANTIC CITY ORE OPER

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): FREMONT , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	141.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	355.75
	TOTAL MINE EMPLOYMENT	497.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800144

SIC CODE: 10110 IRON ORE

SELECTION STATUS: A

* COMPANY NAME AND ADDRESS: CF&I STEEL CORPORATION

STAR ROUTE

HARTVILLE WY 82215

MINE NAME AND ADDRESS: SUNRISE MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PLATTE , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	61.25
	SURFACE FACILITIES	38.25
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	26.75
	TOTAL MINE EMPLOYMENT	126.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 301496

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: JENNIE M. MINING COMPANY 202 SOUTH BLANCHE STREET

TERRELL TX 75160

MINE NAME AND ADDRESS: MONA LISA

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	2.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	2.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 402490 SIC CODE: 10210 COPPER ORE SELECTION STATUS: 0
COMPANY NAME AND ADDRESS: IRON MOUNTAIN MINES INC 1900 POINT WEST WAY SUITE 102 SACRAMENTO CA 95815
MINE NAME AND ADDRESS: IRON MOUNTAIN MINES
MINE TELEPHONE NUMBER:
HEALTH AND SAFETY CONTACT:
MINE LOCATION (COUNTY, STATE): SHASTA , CA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.67
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	0.67

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

25

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000458 SIC CODE: 10210 CUPPER ORE SELECTION STATUS: A
COMPANY NAME AND ADDRESS: SILVER KING MINES INC 322 FIRST SECURITY BANK BLDG SALT LAKE CITY UT 84111
MINE NAME AND ADDRESS: CUPPER CLIFF MINE
MINE TELEPHONE NUMBER:
HEALTH AND SAFETY CONTACT:
MINE LOCATION (COUNTY, STATE): ADA , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	19.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	13.00
	TOTAL MINE EMPLOYMENT	32.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2400338

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: ANACONDA COMPANY

MARVIN JOHNSON PO BOX 689

BUTTE

MT 59701

MINE NAME AND ADDRESS: BERKELEY PIT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SILVER BOW , MT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	597.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	597.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2400689

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: ANACONDA CO/MONT MNG DIV

MARVIN JOHNSON PO BOX 689

BUTTE

MT 59701

MINE NAME AND ADDRESS: WEED CONCENTRATOR

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SILVER BOW , MT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	268.50
	TOTAL MINE EMPLOYMENT	268.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

100

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3502868

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: SILVER KING MINES INC

BOX G

OXBOW

OR 97840

MINE NAME AND ADDRESS: IRON DYKE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BAKER , OR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	22.00
	SURFACE FACILITIES	10.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	32.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000603

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: CITY SERVICE CO

SAFETY OFFICE

COPPERHILL TN 37317

MINE NAME AND ADDRESS: LONDON MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	122.00
	TOTAL MINE EMPLOYMENT	122.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000704

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: CITIES SERVICE CO

SAFETY OFFICE

COPPERHILL TN 37317

MINE NAME AND ADDRESS: CHEROKEE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	124.25
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	124.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000707

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: CITIES SERVICE CO

SAFETY OFFICE

COPPERHILL TN 37317

MINE NAME AND ADDRESS: CALLOWAY MINE COPPERHILL OPN

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	61.00
	SURFACE FACILITIES	.
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	61.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4002039

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: CITIES SERVICE CO

C W ROHLER PLANT MANAGER CITIE COPPERHILL TN 37317

MINE NAME AND ADDRESS: IRON ROASTERS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	129.25
	TOTAL MINE EMPLOYMENT	129.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 200112

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: BOYLES BROS DRILLING CO

1624 PIONEER RD PO BOX 58

SALT LAKE CTY UT 84110

MINE NAME AND ADDRESS: INSPIRATION PITS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GILA , AZ

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	245.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	245.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 200024

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: VAN DYKES WESTERN CONSTR CO P O BOX AE

CLAYPOOL AZ 85532

MINE NAME AND ADDRESS: MORENCI MINE MILL & TAILING

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GREENLEE , AZ

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	416.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	218.00
	TOTAL MINE EMPLOYMENT	634.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

107

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 200305

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: JOY MFG CO

BOX 39-J

DENVER CO 80239

MINE NAME AND ADDRESS: METCALF MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GREENLEE , AZ

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	247.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	78.50
	TOTAL MINE EMPLOYMENT	326.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 200144

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: JOY MFG CO

BOX 39-J

DENVER

CO 80239

MINE NAME AND ADDRESS: SIERRITA MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PIMA , AZ

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	747.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	747.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 200157

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: CYPRUS PIMA MINING CO

BOX 7187

TUCSON

AZ 85725

MINE NAME AND ADDRESS: PIMA MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PIMA , AZ

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	376.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	193.50
	TOTAL MINE EMPLOYMENT	570.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 200852

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: DUVAL CORP

PO BOX 125

SAHUARITA AZ 85629

MINE NAME AND ADDRESS: SIERRITA MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PIMA , AZ

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	1038.25
	TOTAL MINE EMPLOYMENT	1038.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 200151

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: CEMITTA ENGINEERING & CONST CO PO BOX 50464

TUSCON AZ 85703

MINE NAME AND ADDRESS: SAN MANUEL MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PINAL , AZ

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	1388.25
	SURFACE FACILITIES	609.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	1997.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 200152

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: NEWBERRY STATE INC

PO BOX 21-MECHANICAL DIV

PHOENIX

AZ 85001

MINE NAME AND ADDRESS: MAGMA MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PINAL , AZ

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	707.00
	SURFACE FACILITIES	134.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	841.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 200842

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: MAGMA COPPER CO SAN MANUEL DIV PO BOX M

SAN MANUEL AZ 85631

MINE NAME AND ADDRESS: SAN MANUEL DIV MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PINAL , AZ

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	321.50
	TOTAL MINE EMPLOYMENT	321.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2400721

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: ANACONDA CO/MONT MNG DIV

MARVIN JOHNSON PO BOX 689

BUTTE

MT 59701

MINE NAME AND ADDRESS: BUTTE MINES WAREHOUSE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SILVER BOW , MT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	28.75
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	28.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

57

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2900159

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: SMITH DRILLING CO

PO BOX 1668

SILVER CITY NM 88061

MINE NAME AND ADDRESS: TYRONE BRANCH

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GRANT , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	447.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	269.75
	TOTAL MINE EMPLOYMENT	717.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2900708

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: JAMES HAMILTON CONSTRUCTION CO P O DRAWER 1287

SILVER CITY NM 88061

MINE NAME AND ADDRESS: KENNECOTT MINERALS COMPANY, CHI

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GRANT , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	510.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	35.25
	TOTAL MINE EMPLOYMENT	545.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2900725

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: J D DUTTON CO

PO BOX 829

OLYMPIA WA 98507

MINE NAME AND ADDRESS: CONTINENTAL SURFACE COMPLEX

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GRANT , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	82.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	31.00
	TOTAL MINE EMPLOYMENT	113.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4200149

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: B

COMPANY NAME AND ADDRESS: RAPP CONSTR CO

1815 SOUTH

SALT LK CITY UT 84116

MINE NAME AND ADDRESS: UTAH COPPER DIVISION MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SALT LAKE , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	2254.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	2254.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4201660

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: KENNECOTT MINERALS CO, UT COPP P.O. BOX 6500

SALT LAKECITY UT 84106

MINE NAME AND ADDRESS: ORE HAULAGE PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SALT LAKE , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	389.00
	TOTAL MINE EMPLOYMENT	389.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4201153

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: C M INC

AKA X02 4705 PARIS ST

DENVER

CO 80239

MINE NAME AND ADDRESS: CARR FORK MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): TOOELE , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	571.00
	SURFACE FACILITIES	.
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	64.25
	TOTAL MINE EMPLOYMENT	635.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4200716

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: KENNECOTT MINERALS CO UT COPPE P.O. BOX 6500

SALT LAKECITY UT 84106

MINE NAME AND ADDRESS: MAGNA CONCENTRATOR

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): COUNTY UNKNOWN , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	883.25
	TOTAL MINE EMPLOYMENT	883.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1001458

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: SILVER KING MINES INC

322 FIRST SECURITY BANK BLDG

SALT LAKE CITY UT 84111

MINE NAME AND ADDRESS: COPPER CLIFF MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ADAMS , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	21.67
	TOTAL MINE EMPLOYMENT	21.67

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000706

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: CITIES SERVICE CO

SAFETY OFFICE

COPPERHILL TN 37317

MINE NAME AND ADDRESS: MINE SHOPS AND MISCELLANEOUS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	70.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	70.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000708

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: CITIES SERVICE CO

SAFETY OFFICE

COPPERHILL TN 39317

MINE NAME AND ADDRESS: BOYD MINE COPPERHILL OPN

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	43.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	43.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

125

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4002040

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: CITIES SERVICE CO

COPPERHILL TN 37317

MINE NAME AND ADDRESS: CENTRAL SERVICES

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	265.50
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	265.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4002074

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: CITIES SERVICE COMPANY

SAFETY OFFICE

COPPERHILL TN 39317

MINE NAME AND ADDRESS: CHEROKEE OPEN PIT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	54.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	54.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4002633

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: CITIES SERVICE COMPANY

SAFETY OFFICE

COPPERHILL TN 37317

MINE NAME AND ADDRESS: RAILROAD DEPARTMENT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	85.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	85.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2000371

SIC CODE: 10210 COPPER ORE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: COPPER RANGE COMPANY

P O BOX 100

WHITE PINE MI 49971

MINE NAME AND ADDRESS: WHITE PINE COPPER DIVISION

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ONTONAGON , MI

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	638.00
	SURFACE FACILITIES	176.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	89.75
	TOTAL MINE EMPLOYMENT	904.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 310 DULUTH, MN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 500516

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: AMERICAN SMELTING AND REFINING BOX 936

LEADVILLE CO 80461

MINE NAME AND ADDRESS: LEADVILLE UNIT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LAKE , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	80.25
	SURFACE FACILITIES	43.75
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	15.25
	TOTAL MINE EMPLOYMENT	139.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 500412

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: HARRISON WESTERN CORP

1208 QUAIL ST

LAKEWOOD

CO 80215

MINE NAME AND ADDRESS: EMPERIUS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MINERAL , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	92.25
	SURFACE FACILITIES	2.75
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	95.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 500417

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: STANDARD METALS CORPORATION PO BOX 247

SILVERTON CO 81433

MINE NAME AND ADDRESS: SUNNYSIDE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SAN JUAN , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	100.00
	SURFACE FACILITIES	15.25
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	47.50
	TOTAL MINE EMPLOYMENT	162.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000083

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: BUNKER HILL COMPANY

BOX 29

KELLOGG

ID 83837

MINE NAME AND ADDRESS: BUNKER HILL MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SHOSHONE , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	407.50
	SURFACE FACILITIES	50.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	35.75
	TOTAL MINE EMPLOYMENT	493.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000086

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: HECLA MINING COMPANY

BOX 320

WALLACE

ID 83873

MINE NAME AND ADDRESS: STAR MORNING

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SHOSHONE , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	218.25
	SURFACE FACILITIES	66.75
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	27.00
	TOTAL MINE EMPLOYMENT	312.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000088

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: NORTHWEST ERECTION INC

P O BOX 2159

MISSOULA

MT 59806

MINE NAME AND ADDRESS: LUCKY FRIDAY

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SHOSHONE , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	217.00
	SURFACE FACILITIES	55.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	11.25
	TOTAL MINE EMPLOYMENT	283.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3001185

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: ST. JOE RESOURCES COMPANY

BALMAT NEW YORK 13609

BALMAT

NY 13609

MINE NAME AND ADDRESS: BALMAT MINE NO 4 AND MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ST LAWRENCE , NY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	124.75
	SURFACE FACILITIES	8.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	93.00
	TOTAL MINE EMPLOYMENT	226.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 120 ALBANY, NY

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4200147

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: KENNECOTT COPPER CORP

BOX 250

EUREKA

UT 84628

MINE NAME AND ADDRESS: TRIxie TINTIC DIVISION

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): UTAH , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	98.25
	SURFACE FACILITIES	6.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	104.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4401921

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: NEW JERSEY ZINC CO

AUSTINVILLE VA 24312

MINE NAME AND ADDRESS: AUSTINVILLE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WYTHE , VA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	180.50
	SURFACE FACILITIES	55.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	19.50
	TOTAL MINE EMPLOYMENT	255.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 110 PITTSBURGH, PA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 500411

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: NEW JERSEY ZINC DIV

BOX 118

GILMAN

CO 81634

MINE NAME AND ADDRESS: EAGLE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): EAGLE , CO

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	27.75
SURFACE FACILITIES	3.25
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	.
TOTAL MINE EMPLOYMENT	31.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 503103

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: HUGHES MINING CO

208 VENTURA DRIVE

GRAND JCT CO 81501

MINE NAME AND ADDRESS: RISORGIMENTO

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HINSDALE , CO

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	3.00
SURFACE FACILITIES	0.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP PLANTS	0.00
TOTAL MINE EMPLOYMENT	3.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 500604

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: DAY MINES INC

P O BOX D

LEADVILLE CO 80461

MINE NAME AND ADDRESS: SHERMAN MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LAKE , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	68.75
	SURFACE FACILITIES	7.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	76.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 500414

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: IDARADO MINING CO

STAR ROUTE 81431

OURAY

CO 81427

MINE NAME AND ADDRESS: IDARADO MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): OURAY , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	2.00
	SURFACE FACILITIES	10.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	.
	TOTAL MINE EMPLOYMENT	12.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 503074

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: DON NORDLANDER MINING CO

PO BOX 313

OURAY

CO 81427

MINE NAME AND ADDRESS: MOUNTAIN MONARCH

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): OURAY , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	3.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	3.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 503174 SIC CODE: 10310 LEAD/ZINC ORES SELECTION STATUS: 0
COMPANY NAME AND ADDRESS: ZMK MINING CO ZMK MINING CO,P.O.BOX 192 RIDGWAY CO 81432
MINE NAME AND ADDRESS: VALLEY FORGE MINE
MINE TELEPHONE NUMBER:
HEALTH AND SAFETY CONTACT:
MINE LOCATION (COUNTY, STATE): SAN JUAN , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	2.50
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	2.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 503428

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: MAVERICK MINING CO

PO BOX 427

SILVERTON CO 81433

MINE NAME AND ADDRESS: OSCEOLA-PRIDE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SAN JUAN , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	8.50
	SURFACE FACILITIES	4.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	12.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000189

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: C S C MINING

P O BOX 1086

WALLACE

ID 83873

MINE NAME AND ADDRESS: STAR MINE #1 MAIN VEIN

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SHOSHONE , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	4.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	4.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000502

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: SILVER BARON MINING INCORPORAT P O BOX 749

KELLOGG ID 83837

MINE NAME AND ADDRESS: REX MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SHOSHONE , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	0.67
	TOTAL MINE EMPLOYMENT	0.67

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

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OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1001317

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: SILVER BARON MINING COMPANY P.O. BOX 119

KELLOGG ID 83837

MINE NAME AND ADDRESS: GOLDBACK MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SHOSHONE , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	2.00
	SURFACE FACILITIES	2.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	4.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2300457

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: RAGSDALE CORE DRILLING

307 HOUSER ST

FLATRIVER

MO 63601

MINE NAME AND ADDRESS: BUICK MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): IRON , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	329.50
	SURFACE FACILITIES	.
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	149.75
	TOTAL MINE EMPLOYMENT	479.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2300494

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: GOODWIN BROS. CONSTRUCTION CO PO BOX 110

CRYSTAL CITY MO 63019

MINE NAME AND ADDRESS: VIBURNUM NO 28 MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): IRON , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	77.75
	SURFACE FACILITIES	36.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	52.25
	TOTAL MINE EMPLOYMENT	166.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

151

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2301390

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: ST JOE MINERALS CORP

P O BOX 10

VIBURNUM

MO 65566

MINE NAME AND ADDRESS: CENTRAL SERVICE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): IRON , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	89.50
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	89.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2300409

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: ST JOE MINERALS CORP

PO BOX 500

VIBURNUM

MO 65566

MINE NAME AND ADDRESS: FLETCHER

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): REYNOLDS , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	84.00
	SURFACE FACILITIES	23.25
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	32.00
	TOTAL MINE EMPLOYMENT	139.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2300458

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: J.S.REDPATH CORPORATION

P.O.BOX 27328

TEMPE

AZ 85282

MINE NAME AND ADDRESS: FRANK R. MILLIKEN MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): REYNOLDS , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	255.75
	SURFACE FACILITIES	35.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	112.25
	TOTAL MINE EMPLOYMENT	403.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2300497

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: ST JOE MINERALS CORP

P O BOX 500

VIBURNUM

MO 65566

MINE NAME AND ADDRESS: INDIAN CREEK MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WASHINGTON , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	68.75
	SURFACE FACILITIES	21.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	19.00
	TOTAL MINE EMPLOYMENT	108.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000607

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: UNITED STATES STEEL CORP

BOX 599

FAIRFIELD

AL 35064

MINE NAME AND ADDRESS: JEFFERSON CITY ZINC UNDERGROUN

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): JEFFERSON , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	128.75
	SURFACE FACILITIES	.
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	128.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

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OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4001751

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: NEW JERSEY ZINC CO

P.O.BOX 32

JEFFERSONCITY TN 37760

MINE NAME AND ADDRESS: BEAVER CK MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): JEFFERSON , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	23.50
	SURFACE FACILITIES	6.33
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	29.83

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000170

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: ASARCO INC

000

MASCOT

TN 37806

MINE NAME AND ADDRESS: IMMEL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): KNOX , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	103.25
	SURFACE FACILITIES	4.25
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	107.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000168

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: ASARCO INC

000

MASCOT

TN 37806

MINE NAME AND ADDRESS: YOUNG MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): JEFFERSON , TN

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	139.00
SURFACE FACILITIES	4.25
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP PLANTS	0.00
TOTAL MINE EMPLOYMENT	143.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

12
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00

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000606

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: ASARCO INC

000

MASCOT

TN 37806

MINE NAME AND ADDRESS: NEW MARKET MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): JEFFERSON , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	123.25
	SURFACE FACILITIES	6.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	129.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000866

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: UNITED STATES STEEL CORP BOX 599

FAIRFIELD AL 35064

MINE NAME AND ADDRESS: JEFFERSON CITY MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): JEFFERSON , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	59.75
	TOTAL MINE EMPLOYMENT	59.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4001981

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: ASARCO COMPANY INC

MASCOT

MASCOT

TN 37806

MINE NAME AND ADDRESS: YOUNG MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): JEFFERSON , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	59.75
	TOTAL MINE EMPLOYMENT	59.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000864

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: JERSEY MINIERE ZINC COMPANY P O BOX 10

ELMWOOD TN 38560

MINE NAME AND ADDRESS: ELMWOOD MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SMITH , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	100.75
	SURFACE FACILITIES	44.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	144.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4001749

SIC CODE: 10310 LEAD/ZINC ORES

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: NEW JERSEY ZINC CO

P O BOX 10

ELMWOOD

TN 38560

MINE NAME AND ADDRESS: ELMWOOD MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SMITH , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	29.00
	TOTAL MINE EMPLOYMENT	29.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 500416 SIC CODE: 10440 SILVER SELECTION STATUS: 1
COMPANY NAME AND ADDRESS: NIELSONS INC PO BOX 1660 (22419 CITY RD G) CORTEZ CO 81321
MINE NAME AND ADDRESS: RICO ARGENTINE
MINE TELEPHONE NUMBER:
HEALTH AND SAFETY CONTACT:
MINE LOCATION (COUNTY, STATE): DOLORES , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.25
	SURFACE FACILITIES	12.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	0.00
	TOTAL MINE EMPLOYMENT	12.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 500413

SIC CODE: 10440 SILVER

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: BOYLES BROS DRILLING CO

1624 PIONEER RD PO BOX 58

SALT LAKE CTY UT 84110

MINE NAME AND ADDRESS: BULLDOG MTN. OPERATION

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MINERAL , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	141.00
	SURFACE FACILITIES	1.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	36.25
	TOTAL MINE EMPLOYMENT	178.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 503574

SIC CODE: 10440 SILVER

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: Z M K MINE CONSTR CORP

PO BOX 192

RIDGEWAY

CO 81432

MINE NAME AND ADDRESS: BUFALO BOY EXPLORATION PROJECT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SAN JUAN , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	6.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	6.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000142

SIC CODE: 10440 SILVER

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: CLAYTON SILVER MINES

SCOTT BLDG.

CLAYTON

ID 83227

MINE NAME AND ADDRESS: CLAYTON GROUP

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CUSTER , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	17.25
	SURFACE FACILITIES	.
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	8.00
	TOTAL MINE EMPLOYMENT	25.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000402

SIC CODE: 10440 SILVER

SELECTION STATUS: B

COMPANY NAME AND ADDRESS: ALLEN DRILLING CO

17 SMITH LANE

YARRINGTON NV 89447

MINE NAME AND ADDRESS: DELAMAR SILVER MINE AND MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): OWYHEE , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	108.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	63.75
	TOTAL MINE EMPLOYMENT	172.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000082

SIC CODE: 10440 SILVER

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: ASARCO INC

120 BROADWAY

NEW YORK

NY 10005

MINE NAME AND ADDRESS: GALENA

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SHOSHONE , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	195.50
	SURFACE FACILITIES	47.25
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	14.75
	TOTAL MINE EMPLOYMENT	257.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000089

SIC CODE: 10440 SILVER

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: KERN CONSTRUCTION INC PO BOX 1128

PINEHURST ID 83850

MINE NAME AND ADDRESS: SUNSHINE MINE & ML

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SHOSHONE , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	193.25
	SURFACE FACILITIES	23.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	35.25
	TOTAL MINE EMPLOYMENT	251.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000409

SIC CODE: 10440 SILVER

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: WALLACE DIAMOND DRILL

P O BOX 769

OSBURN

ID 83849

MINE NAME AND ADDRESS: CALLADAY PROJECT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SHOSHONE , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	25.50
	SURFACE FACILITIES	11.67
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	37.17

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000479

SIC CODE: 10440 SILVER

SELECTION STATUS: B

COMPANY NAME AND ADDRESS: ASARCO INC

PO BOX 440

WALLACE

ID 83873

MINE NAME AND ADDRESS: COEUR MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SHOSHONE , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	109.50
	SURFACE FACILITIES	19.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	10.75
	TOTAL MINE EMPLOYMENT	139.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2401467

SIC CODE: 10440 SILVER

SELECTION STATUS: 2

COMPANY NAME AND ADDRESS: NATKIN & COMPANY

P O BOX R

LIBBY

MT 59923

MINE NAME AND ADDRESS: TROY PROJECT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LINCOLN , MT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	.
	SURFACE FACILITIES	84.75
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	37.00
	TOTAL MINE EMPLOYMENT	121.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2601638

SIC CODE: 10440 SILVER

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: A M S INC

AKA X02 4705 PARIS ST

DENVER

CO 80239

MINE NAME AND ADDRESS: 16 TO 1 MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ESMERALDA , NV

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	14.00
	SURFACE FACILITIES	6.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	20.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2601451

SIC CODE: 10440 SILVER

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: HOUSTON INTERNATIONAL MINERALS PO BOX B

VIRGINIA CITY NV 89440

MINE NAME AND ADDRESS: AMERICAN FLAT #2 MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): STOREY , NV

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	16.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	53.25
	TOTAL MINE EMPLOYMENT	69.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4201465

SIC CODE: 10440 SILVER

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: 5M INCORPORATED

PO BOX 752

HURRICANE UT 84737

MINE NAME AND ADDRESS: SILVER REEF MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WASHINGTON , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	5.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	5.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 300069

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: REYNOLDS METALS CO

BOX 97

BAUXITE

AR 72011

MINE NAME AND ADDRESS: HURRICANE CREEK

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SALINE , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	836.75
	TOTAL MINE EMPLOYMENT	836.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 300257

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: ALUM CO AMERICA

P O BOX 300

BAUXITE

AR 72011

MINE NAME AND ADDRESS: BAUXITE MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SALINE , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	1093.75
	TOTAL MINE EMPLOYMENT	1093.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

221

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 300261

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: AMERICAN CYANAMID CO

BERDAN AVENUE

WAYNE

NJ 7470

MINE NAME AND ADDRESS: QUAPAW PIT & PLT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SALINE , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	2.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	12.00
	TOTAL MINE EMPLOYMENT	14.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 300262

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: REYNOLDS METALS COMPANY

P O BOX 398

BAUXITE

AR 72011

MINE NAME AND ADDRESS: REYNOLDS SURFACE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SALINE , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	176.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	176.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 300472

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: ALUMINUM COMPANY OF AMERICA P.O. BOX 300

BAUXITE AR 72011

MINE NAME AND ADDRESS: ARKANSAS OPERATIONS MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SALINE , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	89.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	89.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1600354

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: SECO INDUSTRIES INC

P O BOX 705

HARVEY

LA 70058

MINE NAME AND ADDRESS: ORMET CORPORATION

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ASCENSION , LA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	306.75
	TOTAL MINE EMPLOYMENT	306.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1600222

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: INTERNATIONAL MAINTENANCE CRP P O BOX 2750

BATON ROUGE LA 70821

MINE NAME AND ADDRESS: BATON ROUGE ALUMINA

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): EAST BATON ROUGE , LA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	825.00
	TOTAL MINE EMPLOYMENT	825.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4100906

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: GARRETT CONST CO

PO BOX 9257

CORPUS CHRIST TX 78408

MINE NAME AND ADDRESS: SHERWIN PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SAN PATRICIO , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	1119.00
	TOTAL MINE EMPLOYMENT	1119.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 300470

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: POROCEL CRP

PO BOX 509

LITTLE ROCK AR 72203

MINE NAME AND ADDRESS: BERGER PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PULASKI , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	24.50
	TOTAL MINE EMPLOYMENT	24.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 300715

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: MCGEORGE CONTRACTING COMPANY PO BOX 408

SWEET HOME AR 72164

MINE NAME AND ADDRESS: RAUCH MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PULASKI , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	4.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	4.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 301141

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: REYNOLDS METALS COMPANY

P O BOX 398

BAUXITE

AR 72011

MINE NAME AND ADDRESS: PULASKI COUNTY PITS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PULASKI , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	3.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	3.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 101565

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: EUFAULA MINERALS

520 S EUFAULA ST

EUFAULA AL 36027

MINE NAME AND ADDRESS: BARBOUR COUNTY MINES

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BARBOUR , AL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	3.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	3.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 102214

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: BURDETTE WOOD CO

ROUTE 1 BOX 260

EUFAULA AL 36027

MINE NAME AND ADDRESS: BARBOUR COUNTY PIT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BARBOUR , AL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	4.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	4.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 100650

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: ROBERT J BAGGETT INC

TWO OFFICE PARK SUITE 204

MOBILE

AL 36609

MINE NAME AND ADDRESS: MOBILE ALUMINUM REFINING PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MOBILE , AL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	672.75
	TOTAL MINE EMPLOYMENT	672.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900684

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: AMERICAN CYANAMID CO

P O BOX 38

ANDERSONVILLE GA 31711

MINE NAME AND ADDRESS: ANDERSONVILLE WORKS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MACON , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	19.00
	TOTAL MINE EMPLOYMENT	19.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900921

SIC CODE: 10510 ALUMINUM ORE+

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: DIXIE CHEMICALS OF DALTON INC P O BOX 1934

DALTON GA 30720

MINE NAME AND ADDRESS: DALTON PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WHITFIELD , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	2.00
	TOTAL MINE EMPLOYMENT	2.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000533

SIC CODE: 10612 COBALT

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: MINING CORP INC

12980 W CEDAR DR

LAKEWOOD CO 80228

MINE NAME AND ADDRESS: BLACKBIRD MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LEMHI , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	37.50
	SURFACE FACILITIES	78.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	4.33
	TOTAL MINE EMPLOYMENT	119.83

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2301770

SIC CODE: 10612 COBALT

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: HUFFMAN ENGINEERING INC

PO BOX 279

POPLAR BLUFF MO 63901

MINE NAME AND ADDRESS: MADISON MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MADISON , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	27.75
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	27.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1100876

SIC CODE: 10614 MANGANESE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: AMER MINERALS INC

RR 1 BOX 47

ROSICLARE IL 62982

MINE NAME AND ADDRESS: ROSICLARE MANGANESE PLT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HARDIN , IL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	44.25
	TOTAL MINE EMPLOYMENT	44.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 320 VINCENNES, IN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2900762

SIC CODE: 10614 MANGANESE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: LUCK MINING COMPANY

P.O. BOX 29

SILVER CITY NM 88061

MINE NAME AND ADDRESS: LUCK MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GRANT , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	6.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	6.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3800206

SIC CODE: 10614 MANGANESE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: BOREN CLAY PRODUCTS COMPANY P O BOX 550

GAFFNEY SC 29340

MINE NAME AND ADDRESS: MANGANESE MINE OP

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CHEROKEE , SC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	1.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	0.00
	TOTAL MINE EMPLOYMENT	1.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4100148

SIC CODE: 10614 MANGANESE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: C E MNLS DIV/COMBUSTION ENGRS P O BOX 1864

BROWNSVILLE TX 78520

MINE NAME AND ADDRESS: C.E. MINERALS,PORT BROWNSVILLE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CAMERON , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	14.25
	TOTAL MINE EMPLOYMENT	14.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4102978

SIC CODE: 10614 MANGANESE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: AMERICAN MINERALS, INC.

R. R. #1 BOX 47

ROSICLARE

IL 62982

MINE NAME AND ADDRESS: EL PASO MANGANESE PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): EL PASO , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	17.00
	TOTAL MINE EMPLOYMENT	17.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 500790

SIC CODE: 10615 MOLYBDENUM

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: J.S.REDPATH CORPORATION

P.O.BOX 27328

TEMPE

AZ 85282

MINE NAME AND ADDRESS: HENDERSON MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CLEAR CREEK , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	.
	SURFACE FACILITIES	.
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	442.75
	TOTAL MINE EMPLOYMENT	442.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 500354

SIC CODE: 10615 MOLYBDENUM

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: CLIMAX MOLYBDENUM CO

ATTN: SAFETY OFFICE

CLIMAX

CO 80429

MINE NAME AND ADDRESS: CLIMAX MOLYBDENUM MINE UG

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LAKE , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	1594.50
	SURFACE FACILITIES	135.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	1729.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 502256

SIC CODE: 10615 MOLYBDENUM

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: CLIMAX MOLYBDENUM CO

ATTN: SAFETY OFFICE

CLIMAX

CO 80429

MINE NAME AND ADDRESS: CLIMAX OPEN PIT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LAKE , CO

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	459.25
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP PLANTS	0.00
TOTAL MINE EMPLOYMENT	459.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 502337

SIC CODE: 10615 MOLYBDENUM

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: KOICHEVAR ENTERPRISES INC P O BOX C 604 FRONT ST

LEADVILLE CO 80461

MINE NAME AND ADDRESS: CLIMAX MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LAKE , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	745.00
	TOTAL MINE EMPLOYMENT	745.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2401590

SIC CODE: 10615 MOLYBDENUM

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: CENTENNIAL DEVELOPMENT CO

P O BOX 151065

SALT LAKE CY UT 84115

MINE NAME AND ADDRESS: CANNIVAN GULCH PROJECT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BEAVERHEAD , MT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	8.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	8.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2601483

SIC CODE: 10615 MOLYBDENUM

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: GULF STATES INC

323 CHERRY ST

FREEPORT

TX 77541

MINE NAME AND ADDRESS: NEVADA MOLY

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): NYE , NV

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	498.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	87.00
TOTAL MINE EMPLOYMENT	585.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2900164

SIC CODE: 10615 MOLYBDENUM

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: VESPER BROS CONSTRUCTION CO P O BOX 769

QUESTA NM 87556

MINE NAME AND ADDRESS: MOLY MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): TAOS , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	136.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	307.50
	TOTAL MINE EMPLOYMENT	443.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 502255

SIC CODE: 10615 MOLYBDENUM

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: CLIMAX MOLYBDENUM CO

ATTN: SAFETY OFFICE

CLIMAX

CO 80429

MINE NAME AND ADDRESS: CLIMAX TEN MILE TUNNEL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SUMMIT , CO

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	5.00
SURFACE FACILITIES	0.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP PLANTS	0.00
TOTAL MINE EMPLOYMENT	5.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2901267

SIC CODE: 10615 MOLYBDENUM

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: GULF STATES INC

323 CHERRY ST

FREEPORT TX 77541

MINE NAME AND ADDRESS: QUESTA MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): TAOS , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	
	SURFACE FACILITIES	174.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	27.00
	TOTAL MINE EMPLOYMENT	201.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1001416

SIC CODE: 10615 MOLYBDENUM

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: A & R MINING CONTRACTORS

BOX 312

HORSESHOE BND ID 83629

MINE NAME AND ADDRESS: ABELLA

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BOISE , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	3.00
	SURFACE FACILITIES	3.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	6.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000531

SIC CODE: 10615 MOLYBDENUM

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: CYPRUS EXPLORATION

EAST 12213 BROADWAY

SPOKANE

WA 99206

MINE NAME AND ADDRESS: THOMPSON CREEK PROJECT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CUSTER , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	8.50
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	8.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3500391

SIC CODE: 10616 NICKEL

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: HANNA MINING COMPANY

P O BOX 85

RIDDLE

OR 97469

MINE NAME AND ADDRESS: NICKEL MOUNTAIN MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): DOUGLAS , OR

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	115.25
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	71.25
TOTAL MINE EMPLOYMENT	186.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 501159

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: PICKETT CORRAL

BOX 99

NUCLA

CO 81424

MINE NAME AND ADDRESS: ANDREW'S MINING CO

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MONTROSE , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	2.00
	SURFACE FACILITIES	1.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	3.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 501785

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: COLO MACCO

. P O BOX 2648

GRAND JCT CO 81502

MINE NAME AND ADDRESS: MINING & METALS DIV URAVAN

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MONTROSE , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	210.25
	TOTAL MINE EMPLOYMENT	210.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

212

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 502921

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: BLAKE MINING CO

PO BOX 740 AIRPORT RD

NUCLA

CO 81424

MINE NAME AND ADDRESS: C-LP-21

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MONTROSE , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	19.00
	SURFACE FACILITIES	2.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	21.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 502141

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: ARROW DRILLING CO

2127 ELDERBERRY RDD

GOLDEN

CO 80401

MINE NAME AND ADDRESS: PITCH PROPERTY

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SAGUACHE , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	204.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	204.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2900537

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: KERR-MCGEE CONST DIV

1131 MT TAYLOR #114

GRANTS

NM 87020

MINE NAME AND ADDRESS: SEC 24 14N 10W

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MCKINLEY , NM

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	30.00
SURFACE FACILITIES	6.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP PLANTS	0.00
TOTAL MINE EMPLOYMENT	36.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2900591

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: MARINELLI CONSTRUCTION INC PO BOX 967

GRANTS NM 87020

MINE NAME AND ADDRESS: SEC. 25 MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MCKINLEY , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	93.00
	SURFACE FACILITIES	63.25
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	156.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2900778

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: KERR-MCGEE CONST DIV

1131 MT TAYLOR #114

GRANTS

NM 87020

MINE NAME AND ADDRESS: SEC 17 14N 9W

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MCKINLEY , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	53.25
	SURFACE FACILITIES	4.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	57.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2901597

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: BOKUM RESOURCES CORP

P O BOX 6022

ALBUQUERQUE NM 87197

MINE NAME AND ADDRESS: MARQUEZ SHAFT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MCKINLEY , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	19.00
	SURFACE FACILITIES	34.25
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	20.50
	TOTAL MINE EMPLOYMENT	73.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2901678

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: POTCO

1313 FRANCISCAN

GRANTS

NM 87020

MINE NAME AND ADDRESS: CHURCH ROCK MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MCKINLEY , NM

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	152.50
TOTAL MINE EMPLOYMENT	152.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2901710

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: COBB NUCLEAR CORPORATION

313 WASHINGTON SE

ALBUQUERQUE NM 87102

MINE NAME AND ADDRESS: WESTRANCH

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MCKINLEY , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	7.75
	SURFACE FACILITIES	1.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	9.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2901790

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: GUTHRIE WELDING CO INC

PO BOX 3510

MILAN

NM 87021

MINE NAME AND ADDRESS: CROWNPOINT SECTION 24

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MCKINLEY , NM

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	
SURFACE FACILITIES	100.25
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP PLANTS	0.00
TOTAL MINE EMPLOYMENT	100.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2900399

SIC CODE: 10940 URANIUM+

SELECTION STATUS: B

COMPANY NAME AND ADDRESS: THE ANACONDA COPPER COMPANY BOX 638

GRANTS NM 87020

MINE NAME AND ADDRESS: JACKPILE PAGUATE UNIT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): VALENCIA , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	487.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	487.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2900565

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: TETON EXP DRILLING CO INC

254 NO CENTER ST

CASPER

WY 82601

MINE NAME AND ADDRESS: L-BAR URANIUM OPERATIONS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): VALENCIA , NM

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	
SURFACE FACILITIES	36.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	64.50
TOTAL MINE EMPLOYMENT	100.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2900772

SIC CODE: 10940 URANIUM+

SELECTION STATUS: B

COMPANY NAME AND ADDRESS: NIELSONS INC

PO BOX 1660 (22419 CITY RD G)

CORTEZ

CO 81321

MINE NAME AND ADDRESS: BLUEWATER MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): VALENCIA , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	415.25
	TOTAL MINE EMPLOYMENT	415.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2900775

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: JAMES B GARNER

PO BOX 3146

MILAN

NM 87021

MINE NAME AND ADDRESS: MAC URANIUM MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): VALENCIA , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	207.25
	TOTAL MINE EMPLOYMENT	207.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2901214

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: THE ANACONDA COMPANY

BOX 638

GRANTS

NM 87020

MINE NAME AND ADDRESS: JACKPILE P-10 UNDERGROUND

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): VALENCIA , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	208.50
	SURFACE FACILITIES	10.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	218.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4102494

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: CONOCO, INC.

P O BOX 309

FALL CITY TX 78113

MINE NAME AND ADDRESS: KARNES COUNTY PITS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): KARNES , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	301.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	301.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4102492

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: UNITED STATES STEEL CORPORATIO 600 WINNEBAGO STREET

CORPUS CHRIST TX 78403

MINE NAME AND ADDRESS: CLAY WEST URANIUM PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LIVE OAK , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	138.50
	TOTAL MINE EMPLOYMENT	138.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4102745

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: WEST TEXAS EXPLORATION CO

P.O. BOX 745

ODESSA

TX 79760

MINE NAME AND ADDRESS: BURNS RANCH URANIUM PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LIVE OAK , TX

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	150.00
TOTAL MINE EMPLOYMENT	150.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

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OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4102777

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: INTERCONTINENTAL ENERGY CORP ROUTE 1, BOX 662

THREE RIVERS TX 78071

MINE NAME AND ADDRESS: ZAMZOW MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LIVE OAK , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	54.50
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	54.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4201422

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: PIONEER DRILLING CO

PO BOX 667 484 E SUNDAIL

MOAB

UT 84532

MINE NAME AND ADDRESS: PROBE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): EMERY , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	17.50
	SURFACE FACILITIES	12.75
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	30.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4201550

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: FRASIER & ASSOCIATES LTD

P O BOX 2251

GRAND JCT

CO 81502

MINE NAME AND ADDRESS: SHOOTERING MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GARFIELD , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	339.00
	TOTAL MINE EMPLOYMENT	339.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4200800

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: ATLAS MINERALS

PO BOX 1207

MOAB

UT 84532

MINE NAME AND ADDRESS: MOAB MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GRAND , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	183.00
	TOTAL MINE EMPLOYMENT	183.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4200481

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: T. S. R., INC.

P.O. BOX 848

MOAB

UT 84532

MINE NAME AND ADDRESS: MI AMORCITA MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SAN JUAN , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	4.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	4.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4500783

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: N A DIGERSTROM

PO BOX 424

SPOKANE

WA 99210

MINE NAME AND ADDRESS: MIDNITE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): STEVENS , WA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	82.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	82.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

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OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4502424

SIC CODE: 10940 URANIUM+

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: N A DIGERSTROM

PO BOX 424

SPOKANE WA 99210

MINE NAME AND ADDRESS: SHERWOOD

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): STEVENS , WA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	166.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	111.25
	TOTAL MINE EMPLOYMENT	277.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4801286

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: INSTITU CONSULTING INC

256 NO 3RD ST

LARAME

WY 82070

MINE NAME AND ADDRESS: COLLINS DRAW SOLUTION MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CAMPBELL , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	19.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	10.00
	TOTAL MINE EMPLOYMENT	29.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800490

SIC CODE: 10940 URANIUM+

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: PATHFINDER MINES CORPORATION SHIRLEY BASIN MINE

SHIRLEY BASIN WY 82615

MINE NAME AND ADDRESS: SHIRLEY BASIN URANIUM MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CARBON , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	416.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	82.00
	TOTAL MINE EMPLOYMENT	498.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800826

SIC CODE: 10940 URANIUM+

SELECTION STATUS: B

COMPANY NAME AND ADDRESS: GETTY OIL COMPANY PETROTOMICS P.O. BOX 2509

SHIRLEY BASIN WY 82615

MINE NAME AND ADDRESS: PETROTOMICS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CARBON , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	386.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	386.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800466

SIC CODE: 10940 URANIUM+

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: WILLWAM H SMITH & ASSOC PC PO BOX 654

GREEN RIVER WY 82935

MINE NAME AND ADDRESS: HIGHLAND URANIUM OPERATIONS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CONVERSE , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	255.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	82.00
	TOTAL MINE EMPLOYMENT	337.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4801051

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: FRONTIER KEMPER CONSTRUCTORS PO BOX 696

WAYNE WV 25570

MINE NAME AND ADDRESS: GOLDEN EAGLE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CONVERSE , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	82.25
	SURFACE FACILITIES	8.75
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	91.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4801099

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: BEAR CREEK URANIUM COMPANY BOX 2654

CASPER WY 82602

MINE NAME AND ADDRESS: BEAR CREEK URANIUM MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CONVERSE , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	169.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	46.00
	TOTAL MINE EMPLOYMENT	215.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

242

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800557

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: PATHFINDER MINES CORP.

P.O. BOX 831

RIVERTON

WY 82501

MINE NAME AND ADDRESS: LUCKY MC MINE OPERATIONS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): FREMONT , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	304.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	304.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800559

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: WESTERN NUCLEAR INC

JEFFREY CITY WY 82310

MINE NAME AND ADDRESS: SPLIT ROCK MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): FREMONT , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	133.75
	TOTAL MINE EMPLOYMENT	133.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800862 SIC CODE: 10940 URANIUM+ SELECTION STATUS: 1
COMPANY NAME AND ADDRESS: UNION CARBIDE CORPORATION BOX 5100, GAS HILLS STATION RIVERTON WY 82501
MINE NAME AND ADDRESS: WEST AREA PIT
MINE TELEPHONE NUMBER:
HEALTH AND SAFETY CONTACT:
MINE LOCATION (COUNTY, STATE): FREMONT , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	132.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	132.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

255

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4801144

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: PATHFINDER MINES CORP.

P.O. BOX 450

JEFFREY CITY WY 82310

MINE NAME AND ADDRESS: BIG EAGLE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): FREMONT , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	198.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	198.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4801177

SIC CODE: 10940 URANIUM+

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: FEDERAL AMERICAN PARTNERS

GAS HILLS STAR ROUTE

RIVERTON

WY 82501

MINE NAME AND ADDRESS: FEDERAL AMERICAN PARTNERS OPEN

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): FREMONT , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	230.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	230.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

257

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 300479

SIC CODE: 10942 VANADIUM

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: UNION CARBIDE CORP

ROUTE 6 BOX 943

HOT SPRINGS AR 71901

MINE NAME AND ADDRESS: WILSON SPGS PT & PLT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GARLAND , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	14.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	154.75
	TOTAL MINE EMPLOYMENT	169.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 501784

SIC CODE: 10942 VANADIUM

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: UNION CARBIDE CORP

PO BOX 1029

GRAND JCT CO 81501

MINE NAME AND ADDRESS: MINING & METALS DIV RIFLE MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GARFIELD , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	29.50
	TOTAL MINE EMPLOYMENT	29.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 300142

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: HOPE BRICK WORKS

P O BOX 663

HOPE

AR 71801

MINE NAME AND ADDRESS: STREAKED

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HEMPSTEAD , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	1.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	3.75
	TOTAL MINE EMPLOYMENT	4.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 402866

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: INTERPACE CORP

3502 BREAKWATER CT.

HAYWARD

CA 94545

MINE NAME AND ADDRESS: CALCINE 1-3 MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): AMADOR , CA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	54.67
	TOTAL MINE EMPLOYMENT	54.67

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 402620

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: BIG PINE DISTRIBUTORS

29000 LILAC ROAD

VALLEY CENTER CA 92082

MINE NAME AND ADDRESS: OLANCHA MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): INYO , CA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	.
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	7.50
	TOTAL MINE EMPLOYMENT	7.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

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OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 400551

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: R&R FIXIT SHOP

PO BOX 524

BUTTON WILLOW CA 93206

MINE NAME AND ADDRESS: SHEEP SPRINGS PIT & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): KERN , CA

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	32.25
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	19.75
TOTAL MINE EMPLOYMENT	52.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 402638

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: SOUTHERN CLAY OF CA INC

ELKHORN RD

MARICOPA

CA 93252

MINE NAME AND ADDRESS: ELKORN PIT & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): KERN , CA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	18.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	31.75
	TOTAL MINE EMPLOYMENT	50.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 402964

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: B

COMPANY NAME AND ADDRESS: EXCEL MINERAL COMPANY

P O BOX 1277

TAFT

CA 93268

MINE NAME AND ADDRESS: EXCEL CLAY MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): KERN , CA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	38.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	51.25
	TOTAL MINE EMPLOYMENT	89.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

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OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 400553 SIC CODE: 14530 CLAY GROUP SELECTION STATUS: 1
COMPANY NAME AND ADDRESS: LIGHTWEIGHT PROCESSING COMPANY 715 N. CENTRAL AVE., SUITE 321 GLENDALE CA 91203
MINE NAME AND ADDRESS: ROCKLITE PRODUCTS CLAY PIT
MINE TELEPHONE NUMBER:
HEALTH AND SAFETY CONTACT:
MINE LOCATION (COUNTY, STATE): VENTURA , CA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	26.75
	TOTAL MINE EMPLOYMENT	27.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1100494

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: SOUTHERN CLAY, INC.

P. O. BOX 68

OLMSTED

IL 62970

MINE NAME AND ADDRESS: SOUTHERN CLAY INC.

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PULASKI , IL

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	59.00
TOTAL MINE EMPLOYMENT	59.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 320 VINCENNES, IN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

257

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1102403

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: BISHOP BURD CONSTR CO

200 N MAIN

ANNA

IL 62906

MINE NAME AND ADDRESS: ABSORBENT CLAY PRODUCTS PIT &

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PULASKI , IL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	1.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	43.75
	TOTAL MINE EMPLOYMENT	45.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 320 VINCENNES, IN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

258

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1300349

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: BUD HECKART & SONS INC

PO BOX 884

OTTUMWA

IA 52501

MINE NAME AND ADDRESS: CANTEX INDUSTRIES-OTTUMWA PIT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WAPELLO , IA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	3.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	3.75
	TOTAL MINE EMPLOYMENT	6.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1400218

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: EXCELSIOR BRICK MFG CO INC P O BOX 32

FREDONIA KS 66736

MINE NAME AND ADDRESS: EXCELSIOR BRICK MFG CO INC

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WILSON , KS

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	2.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	.
	TOTAL MINE EMPLOYMENT	2.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1600995

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: CARBORUNDUM COMPANY

STAR ROUTE B BOX 390C

NEW IBERIA LA 70560

MINE NAME AND ADDRESS: PROPPANT PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): IBERIA , LA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	40.00
	TOTAL MINE EMPLOYMENT	40.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1600033

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: B

COMPANY NAME AND ADDRESS: BIG RIVER INDUSTRIES, INC. P.O. BOX 37

ERWINVILLE LA 70729

MINE NAME AND ADDRESS: BIG RIVER INDUSTRIES, INC.

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POINTE COUPEE , LA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	14.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	76.00
	TOTAL MINE EMPLOYMENT	90.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1800078

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: MARYLAND CLAY PRODUCTS INC

7100 MUIRKIRK ROAD

BELTSVILLE MD 20705

MINE NAME AND ADDRESS: MARYLAND CLAY PRODUCTS, INC.

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PRINCE GEORGES , MD

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	1.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	56.25
	TOTAL MINE EMPLOYMENT	57.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 110 PITTSBURGH, PA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2100904

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: FEDERAL BENTONITE DIV OF AUROR CULVER MN BOX 315

CULVER MN 55727

MINE NAME AND ADDRESS: BURNETT MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ST LOUIS , MN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	9.50
	TOTAL MINE EMPLOYMENT	9.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 310 DULUTH, MN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2601043

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: INDUS MNL VENTURES INC

BOX 237

LATHROP WELLS NV 89020

MINE NAME AND ADDRESS: AMARGOSA PIT & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): NYE , NV

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	9.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	57.75
TOTAL MINE EMPLOYMENT	66.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

265

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3000644

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: B

COMPANY NAME AND ADDRESS: NYCO, DIV. OF PROCESSED MINERAL 000

WILLSBORO NY 12996

MINE NAME AND ADDRESS: WILLSBORO WALLASTONITE MINE &

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ESSEX , NY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	20.75
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	70.75
	TOTAL MINE EMPLOYMENT	91.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 120 ALBANY, NY

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3400117

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: MANGUM BRICK CO

BOX 296

MANGUM

OK 73554

MINE NAME AND ADDRESS: MANGUM BRICK COMPANY

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GREER , OK

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	1.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	21.50
TOTAL MINE EMPLOYMENT	22.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4200071

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: UTELITE CORP

RFD

COALVILLE UT 84017

MINE NAME AND ADDRESS: CLAY MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SUMMIT , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	2.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	16.75
	TOTAL MINE EMPLOYMENT	19.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

802

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4400211

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: WEBLITE CORP

P O BOX 12887

ROANOKE

VA 24029

MINE NAME AND ADDRESS: WEBLITE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BOTETOURT , VA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	27.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	6.00
	TOTAL MINE EMPLOYMENT	33.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 110 PITTSBURGH, PA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4600148

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: GLOBE REFRACTORIES INC

P O BOX D

NEWELL

WV 26050

MINE NAME AND ADDRESS: GLOBE MINE = 1

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HANCOCK , WV

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	39.50
SURFACE FACILITIES	5.75
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	.
TOTAL MINE EMPLOYMENT	45.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 110 PITTSBURGH, PA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 800110

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: FLORIDIN COMPANY

PO BOX 677

HAVANA

FL 32333

MINE NAME AND ADDRESS: HAVANA MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GADSDEN , FL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	29.75
	TOTAL MINE EMPLOYMENT	29.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 800524

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: FLORIDIN CO FOR PENN GLASS SAN PO BOX 510

QUINCY FL 32351

MINE NAME AND ADDRESS: GADSEN CTY MINES

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GADSDEN , FL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	44.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	44.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900125

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: ENGELHARD MINERAL & CHEM CORP 000

ATTAPULGUS GA 31715

MINE NAME AND ADDRESS: AMSTERDAM MN & PLT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): DECATUR , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	43.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	327.25
	TOTAL MINE EMPLOYMENT	370.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900135

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: GEORGIA TENNESSEE MIN & CHEM C BOX 307

WRENS GA 30833

MINE NAME AND ADDRESS: WRENS MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): JEFFERSON , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	9.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	130.00
	TOTAL MINE EMPLOYMENT	139.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

211

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900143

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: J M HUBER CORP

P O BOX 528

WRENS

GA 30833

MINE NAME AND ADDRESS: PALMER MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): JEFFERSON , GA

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	94.00
TOTAL MINE EMPLOYMENT	94.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900114

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: FLINT RIVER ELECTRIC CO INC P O BOX 493 210 NEWTON RD

BAINBRIDGE GA 31717

MINE NAME AND ADDRESS: OCHLOCKNEE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): THOMAS , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	9.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	113.75
	TOTAL MINE EMPLOYMENT	123.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900139

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: GEORGIA STEEL INC

1825 FULLER ST

MACON

GA 31298

MINE NAME AND ADDRESS: DRY BRANCH MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): TWIGGS , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	132.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	132.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

212

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900482

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: MACON ELECTRIC CO INC

PO BOX 4162

MACON

GA 31208

MINE NAME AND ADDRESS: DRY BRANCH MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): TWIGGS , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	343.25
	TOTAL MINE EMPLOYMENT	343.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

23
818

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900584

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: H & T TRUCKING CO INC

4415 BROADWAY

MACON

GA 31206

MINE NAME AND ADDRESS: HUBER MINE AND MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): TWIGGS , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	134.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	134.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900110

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: AM. INC. CLAY CO DIV YARA ENG. PO BOX 617

SANDERSVILLE GA 31082

MINE NAME AND ADDRESS: DEEP STEP MINE & ML

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WASHINGTON , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	99.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	195.75
	TOTAL MINE EMPLOYMENT	294.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900337

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: THIELE KAOLIN CO

BOX 1056

SANDERSVILLE GA 31082

MINE NAME AND ADDRESS: MAIN PROCESSING PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WASHINGTON , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	165.00
	TOTAL MINE EMPLOYMENT	165.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900229

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: M & M CLAY CO INC

P O BOX 98

MCINTYRE GA 31054

MINE NAME AND ADDRESS: MCINTYRE MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WILKINSON , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	31.25
	TOTAL MINE EMPLOYMENT	31.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900359

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: ENGELHARD MNLS & CHEM CRP

ROUTE #1

MC INTYRE

GA 31054

MINE NAME AND ADDRESS: EDGAR PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WILKINSON , GA

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	207.50
TOTAL MINE EMPLOYMENT	207.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900472

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: ENGELHARD MNLS & CHEM CRP

GENERAL DELIVERY

MCINTYRE GA 31054

MINE NAME AND ADDRESS: TODDVILLE PLANTS 2 & 6

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WILKINSON , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	232.25
	TOTAL MINE EMPLOYMENT	232.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3800038

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: CYPRUS INDUSTRIAL MINERALS COM P.O.BOX 1370

AIKEN SC 29801

MINE NAME AND ADDRESS: AIKEN PLANT NO. 47

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): AIKEN , SC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	2.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	22.75
	TOTAL MINE EMPLOYMENT	24.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2300320

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: CERAMO CO INC

BOX 384

JACKSON

MO 63755

MINE NAME AND ADDRESS: CERAMO CLAY CO PIT & PLT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CAPE GIRARDEAU , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	2.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	.
	TOTAL MINE EMPLOYMENT	2.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2301756

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: JONES & TURNER, INC.

POST OFFICE BOX 126

LINN

MO 65051

MINE NAME AND ADDRESS: WESTERMAN PIT #1

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): FRANKLIN , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	2.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	2.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2301545

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: MO-MNLS PROCESSING INCORP

P O BOX 186

HIGH HILL MO 63350

MINE NAME AND ADDRESS: MISSOURI MINERALS PROCESSING I

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MONTGOMERY , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	41.00
	TOTAL MINE EMPLOYMENT	41.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2300159

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: MO PORTLAND CEMENT CO

9403 RIVERVIEW DRIVE

ST. LOUIS MO 63137

MINE NAME AND ADDRESS: ST LOUIS PT & PLT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ST LOUIS , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	2.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	131.00
	TOTAL MINE EMPLOYMENT	133.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2301005

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: SOUTHERN CLAY INC LOWES INC ROUTE 1 BOX 155

ORAN MO 63771

MINE NAME AND ADDRESS: SOUTHERN CLAY PLT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SCOTT , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	17.25
	TOTAL MINE EMPLOYMENT	17.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2301602

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: GRIFFIN CONTRACTING CO

ROUTE 1 BOX 124

BLOOMFIELD MO 63825

MINE NAME AND ADDRESS: SOUTHERN CLAY PIT & PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): STODDARD , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	13.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	86.50
	TOTAL MINE EMPLOYMENT	100.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3300484

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: SWANK REFRACTORIES COMPANY

GENERAL DELIVERY

IRONDALE

OH 43932

MINE NAME AND ADDRESS: IRONDALE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): JEFFERSON , OH

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	24.50
	SURFACE FACILITIES	3.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	0.00
	TOTAL MINE EMPLOYMENT	27.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 320 VINCENNES, IN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3300565

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: SPARTEK INC

P O BOX 5

EAST SPARTA OH 44626

MINE NAME AND ADDRESS: ROMANY PLT & PITS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): STARK , OH

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	7.00
	TOTAL MINE EMPLOYMENT	7.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 320 VINCENNES, IN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3300514

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: ORRVILLE TILE CO

P. O. BOX 158

ORRVILLE OH 44667

MINE NAME AND ADDRESS: ORRVILLE TILE COMPANY

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WAYNE , OH

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	2.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	1.00
	TOTAL MINE EMPLOYMENT	3.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 320 VINCENNES, IN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3600609

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: DREXEL REFRACTORIES INC SUB OF BOX 50

KITTANNING PA 16201

MINE NAME AND ADDRESS: DREXEL MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ARMSTRONG , PA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	8.50
	SURFACE FACILITIES	1.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	9.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 110 PITTSBURGH, PA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

2005

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3600630

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: HANLEY CO

28 KENNEDY ST.

SUMMERVILLE PA 15864

MINE NAME AND ADDRESS: HANLEY #4A MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): JEFFERSON , PA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	10.75
	SURFACE FACILITIES	1.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	5.25
	TOTAL MINE EMPLOYMENT	17.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 110 PITTSBURGH, PA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3600657

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: C-E MINERALS

901 E 8TH AVE

KNG OF PRUSIA PA 19406

MINE NAME AND ADDRESS: NARVON PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LANCASTER , PA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	14.50
	TOTAL MINE EMPLOYMENT	14.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 110 PITTSBURGH, PA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

207

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 100107

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: HARBISON WALKER REFRACTORIES RT 1 BOX 58

EUFAULA AL 36027

MINE NAME AND ADDRESS: HENRY CTY MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HENRY , AL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	9.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	9.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 100034

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: TOMBIGBEE LIGHTWEIGHT AGGREGAT P O BOX V

LIVINGSTON AL 35470

MINE NAME AND ADDRESS: TOMBIGEE LTWT AGGRE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SUMTER , AL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	4.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	48.75
	TOTAL MINE EMPLOYMENT	52.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2200031

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: JACKSON READY MIX INCORPORATED P O BOX 1292

JACKSON MS 39205

MINE NAME AND ADDRESS: CYNTHIA QUARRY & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HINDS , MS

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	20.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	3.00
	TOTAL MINE EMPLOYMENT	23.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2200415

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: FILTROL CORPORATION

P O BOX 8337

JACKSON

MS 39204

MINE NAME AND ADDRESS: JACKSON PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HINDS , MS

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	130.00
TOTAL MINE EMPLOYMENT	130.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2200032

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: KENTUCKY TENNESSEE CLAY CO

P.O. BOX 160

CRENSHAW

MS 38621

MINE NAME AND ADDRESS: CRENSHAW MINE & PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): PANOLA , MS

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	15.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	28.00
	TOTAL MINE EMPLOYMENT	43.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2200035

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: OIL-DRI PRODUCTION CO

PO BOX 476

RIPLEY

MS 38663

MINE NAME AND ADDRESS: RIPLEY MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): TIPPAAH , MS

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	9.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	79.00
	TOTAL MINE EMPLOYMENT	88.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1507011

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: OLD HICKORY CLAY CO

P O BOX 66

HICKORY

KY 42051

MINE NAME AND ADDRESS: HICKORY CLAY MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GRAVES , KY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	13.50
	TOTAL MINE EMPLOYMENT	13.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4001045

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: KENTUCKY TENNESSEE CLAY COMPAN P O BOX 232

GLEASON TN 38229

MINE NAME AND ADDRESS: HOBBS CARROLL MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CARROLL , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	2.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	2.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000195

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: SPINKS H C CLAY CO INC

P O BOX 820

PARIS

TN 38242

MINE NAME AND ADDRESS: GLEASON MINE & ML

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WEAKLEY , TN

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	11.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	23.50
TOTAL MINE EMPLOYMENT	34.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4002513

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: CYPRUS INDUSTRIAL MINERALS CO. BOX 111

GLEASON TN 38229

MINE NAME AND ADDRESS: WEAKLEY COUNTY MINES

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WEAKLEY , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	15.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	15.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1500187

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: KENTUCKY SOLITE CRP

P O BOX 27211

RICHMOND VA 23261

MINE NAME AND ADDRESS: SHEPHERDSVILLE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BULLITT , KY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	13.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	29.50
	TOTAL MINE EMPLOYMENT	43.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3100128

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: BORDEN BRICK & TILE CO

PO BOX 11558

DURHAM

NC 27703

MINE NAME AND ADDRESS: COOK - STONE PITS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): DURHAM , NC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	3.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	3.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3100136

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: CAROLINA STALITE CO

DRAWER 1037

SALISBURY NC 28144

MINE NAME AND ADDRESS: STALITE MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ROWAN , NC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	46.00
	TOTAL MINE EMPLOYMENT	46.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000194

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: H C SPINKS CLAY CO INC BOX 820

PARIS TN 38242

MINE NAME AND ADDRESS: HENRY COUNTY MINES AND MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HENRY , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	10.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	29.50
	TOTAL MINE EMPLOYMENT	40.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000204

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: SOUTHERN CLAY, INC.

PO BOX 819

PARIS

TN 38242

MINE NAME AND ADDRESS: SOUTHERN CLAY, INC.

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HENRY , TN

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	4.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	72.00
TOTAL MINE EMPLOYMENT	76.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4100263

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: DRESSER MINERALS

PO BOX 65

ZAVALLA

TX 75980

MINE NAME AND ADDRESS: DRESSER MINERALS-ZAVALLA

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ANGELINA , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	18.75
	TOTAL MINE EMPLOYMENT	18.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

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OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4100308

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: FLATONIA PIT & PLANT

P O BOX 15038

HOUSTON

TX 77020

MINE NAME AND ADDRESS: FLATONIA MINES AND PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): FAYETTE , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	23.00
	TOTAL MINE EMPLOYMENT	23.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4100303

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: TEX INDUS INC

PO BOX 2672

HOUSTON

TX 77001

MINE NAME AND ADDRESS: CLODINE PIT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): FORT BEND , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	35.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	.
	TOTAL MINE EMPLOYMENT	35.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4100241

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: ACME BRICK COMPANY

PO BOX 158

MCQUEENEY TX 78123

MINE NAME AND ADDRESS: MCQUEENEY PIT AND PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GUADALUPE , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	5.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	.
	TOTAL MINE EMPLOYMENT	5.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3100135

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: CAROLINA SOLITE CORP

P O BOX 27211

RICHMOND VA 23261

MINE NAME AND ADDRESS: AQUADALE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): STANLY , NC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	8.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	31.00
	TOTAL MINE EMPLOYMENT	39.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3900049

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: AMERICAN COLLOID COMPANY

PO BOX 160

BELLEFOURCHE SD 57717

MINE NAME AND ADDRESS: BELLE FOURCHE PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BUTTE , SD

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	96.25
	TOTAL MINE EMPLOYMENT	96.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4100298

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: SOUTHERN CLAY PROD INC

BOX 44

GONZALES

TX 78629

MINE NAME AND ADDRESS: SOUTHERN CLAY PLANT AND PITS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GONZALES , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	43.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	72.00
	TOTAL MINE EMPLOYMENT	115.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4100262

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: DRESSER MINERALS

KOSSE

TX 76653

MINE NAME AND ADDRESS: KOSSE OPERATIONS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LIMESTONE , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	12.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	119.75
	TOTAL MINE EMPLOYMENT	131.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800602

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: DRESSER MINERALS

PO BOX 832

GREYBULL WY 82426

MINE NAME AND ADDRESS: GREYBULL MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BIG HORN , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	95.00
	TOTAL MINE EMPLOYMENT	95.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800888

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: AMERICAN COLLOID CO

P O BOX 818

BELLE FOURCHE SD 57717

MINE NAME AND ADDRESS: COLONY MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CROOK , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	48.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	48.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800059

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: BECK & FAXON CONSTR

BOX 262

UPTON

WY 82730

MINE NAME AND ADDRESS: UPTON MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): COUNTY UNKNOWN , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	73.25
	TOTAL MINE EMPLOYMENT	73.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800611

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: WYO-BEN, INC.

BOX 529

GREYBULL WY 82426

MINE NAME AND ADDRESS: STUCCO MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BIG HORN , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	17.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	44.25
	TOTAL MINE EMPLOYMENT	61.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4801016

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: U M C INC

3700 BUFFALO SPEEDWAY

HOUSTON

TX 77052

MINE NAME AND ADDRESS: LOVELL MINERS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BIG HORN , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	68.58
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	21.00
	TOTAL MINE EMPLOYMENT	89.58

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800070

SIC CODE: 14530 CLAY GROUP

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: S&S TRUCKING INC

ALAZADA STAR RT

BELLE TOURCHE SD 57742

MINE NAME AND ADDRESS: COLONY MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CROOK , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	14.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	68.75
	TOTAL MINE EMPLOYMENT	82.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900244

SIC CODE: 14720 BARITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: PAGA MINING CO

P O BOX 130

CARTERSVILLE GA 30120

MINE NAME AND ADDRESS: PAGA MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BARTOW , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	17.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	30.25
	TOTAL MINE EMPLOYMENT	47.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900245

SIC CODE: 14720 BARITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: NEW RIVERSIDE OCHRE CO

BOX 387

CARTERSVILLE GA 30120

MINE NAME AND ADDRESS: BARITE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BARTOW , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	8.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	34.50
	TOTAL MINE EMPLOYMENT	42.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1600255

SIC CODE: 14720 BARITE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: TESCON INC

PO BOX 6764

METAIRIE LA 70009

MINE NAME AND ADDRESS: NEW ORLEANS GRINDING PLANT -DR

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ORLEANS , LA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	43.75
	TOTAL MINE EMPLOYMENT	43.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1600495

SIC CODE: 14720 BARITE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: THE MILWHITE COMPANY, INC. P.O. BOX 1259

MORGAN CITY LA 70380

MINE NAME AND ADDRESS: MORGAN CITY PLT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ST MARY , LA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	22.50
	TOTAL MINE EMPLOYMENT	22.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

033

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2300550

SIC CODE: 14720 BARITE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: GENERAL BARITE CO

PO BOX 129

DESOTO

MO 63020

MINE NAME AND ADDRESS: GENERAL BARITE CO. OLD MINES P

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WASHINGTON , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	6.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	11.00
	TOTAL MINE EMPLOYMENT	17.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2300567

SIC CODE: 14720 BARITE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: JIMS EXCAVATING INC

RT1 BOX JJO-E HWY

CADET

MO 63630

MINE NAME AND ADDRESS: KINGSTON #1

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WASHINGTON , MO

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	9.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	53.00
TOTAL MINE EMPLOYMENT	62.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2301796

SIC CODE: 14720 BARITE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: MISSOURI RESOURCE SERVICES INC ROUTE 1, BOX 2B

MINERAL POINT MO 63660

MINE NAME AND ADDRESS: IMCO APEX MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WASHINGTON , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	21.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	21.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000749

SIC CODE: 14720 BARITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: C.R. WOOD COMPANY, INC.

BOX 284

SWEETWATER TN 37874

MINE NAME AND ADDRESS: CEDARFORK MINE AND MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LOUDON , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	7.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	3.75
	TOTAL MINE EMPLOYMENT	10.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4101665

SIC CODE: 14720 BARITE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: MILWHITE COMPANY THE

P O BOX 67

BROWNSVILLE TX 78520

MINE NAME AND ADDRESS: BROWNSVILLE MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CAMERON , TX

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	19.00
TOTAL MINE EMPLOYMENT	19.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

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63
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OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4102515

SIC CODE: 14720 BARITE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: SULLIVAN ENTERPRISES INC

P O BOX 3387

GALVESTON

TX 77552

MINE NAME AND ADDRESS: GALVESTON PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GALVESTON , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	32.00
	TOTAL MINE EMPLOYMENT	32.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4201351

SIC CODE: 14720 BARITE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: EISENMAN CHEMICAL COMPANY 312 EAST 16TH STREET

GREELEY CO 80631

MINE NAME AND ADDRESS: EISENMAN CHEMICAL BARITE MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SALT LAKE , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	15.50
	TOTAL MINE EMPLOYMENT	15.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 300787

SIC CODE: 14720 BARITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: NL BAROID-DIV. OF NL INDUSTRIE P O BOX 10

MALVERN AR 72104

MINE NAME AND ADDRESS: MAGNET COVE MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HOT SPRING , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	14.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	86.50
	TOTAL MINE EMPLOYMENT	101.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2601592

SIC CODE: 14720 BARITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: BROWN & ROOT INC

P O BOX 3

HOUSTON

TX 77001

MINE NAME AND ADDRESS: STORMY CREEK MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ELKO , NV

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	58.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	6.50
	TOTAL MINE EMPLOYMENT	65.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2600412

SIC CODE: 14720 BARITE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: NL BAROID DIV OF NL INDUSTRIES PO BOX 414

BATTLE MOUNTA NV 89820

MINE NAME AND ADDRESS: DUNPHY MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): EUREKA , NV

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	35.75
	TOTAL MINE EMPLOYMENT	35.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2601464

SIC CODE: 14720 BARITE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: BROWN & ROOT WESTERN INC

BOX 74

CRESCENT VALL NV 89821

MINE NAME AND ADDRESS: FILLIPINI STRIP

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): EUREKA , NV

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	53.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	53.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2601660

SIC CODE: 14720 BARITE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: PORTER & MEISSNER INC

BOX 1072

BATTLE MNTAIN NV 89820

MINE NAME AND ADDRESS: REDHOUSE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HUMBOLDT , NV

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	10.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP PLANTS	0.00
TOTAL MINE EMPLOYMENT	10.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2600411

SIC CODE: 14720 BARITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: DRESSER MINERALS DIV DRESSER I 601 JEFFERSON

HOUSTON TX 75221

MINE NAME AND ADDRESS: GREYSTONE MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LANDER , NV

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	38.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	42.25
	TOTAL MINE EMPLOYMENT	80.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2601047

SIC CODE: 14720 BARITE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: MAJOR BARITE INC

GENERAL DELIVERY

CRESCENT VALL NV 89821

MINE NAME AND ADDRESS: MAJOR BARITE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LANDER , NV

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	5.50
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP PLANTS	0.00
TOTAL MINE EMPLOYMENT	5.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2601390

SIC CODE: 14720 BARITE

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: IMCO SERVICES INC

BOX 861

BATTLE MOUNTA NV 89820

MINE NAME AND ADDRESS: MOUNTAIN SPRINGS PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LANDER , NV

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	68.50
	TOTAL MINE EMPLOYMENT	68.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

345

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2401220

SIC CODE: 14720 BARITE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: MONTANA BARITE

P O BOX 3296

MISSOULA MT 59806

MINE NAME AND ADDRESS: MONTANA BARITE MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MISSOULA , MT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	15.00
	TOTAL MINE EMPLOYMENT	15.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4002521

SIC CODE: 14720 BARITE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: A.J. SMITH JR.

ROUTE 3

SWEETWATER TN 37874

MINE NAME AND ADDRESS: A.J. SMITH MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LOUDON , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	3.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	3.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

253

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4002549

SIC CODE: 14720 BARITE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: L.O. - J.A.C. BARITE COMPANY ROUTE 2

NIOTA TN 37826

MINE NAME AND ADDRESS: NO.1 WASH PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MCMINN , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	2.67
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	2.67

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000093

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: COCOA COLA BOTTLING CO OF POCA 1003 N MAIN

POCATELLO ID 83201

MINE NAME AND ADDRESS: GAY PHOSPHATE MN

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BINGHAM , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	154.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	13.00
	TOTAL MINE EMPLOYMENT	167.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000094

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: J R SIMPLOT CO

P O BOX 67

CONDA

ID 83230

MINE NAME AND ADDRESS: CONDA MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CARIBOU , ID

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	157.25
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	55.25
TOTAL MINE EMPLOYMENT	212.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000556

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: WASHINGTON CONSTRUCTION CO P O BOX 536

SODA SPRINGS ID 83276

MINE NAME AND ADDRESS: MAYBE CANYON MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CARIBOU , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	279.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	279.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2400146

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: COMINCO AMERICAN INC

GARRISON MT 59731

MINE NAME AND ADDRESS: WARM SPRINGS MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POWELL , MT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	78.25
	SURFACE FACILITIES	30.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	108.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4200164

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: STAUFFER CHEMICAL CO

MANILA STAR ROUTE

VERNAL

UT 84078

MINE NAME AND ADDRESS: VERNAL MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): UINTAH , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	28.50
	TOTAL MINE EMPLOYMENT	28.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

353

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4200998

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: STAUFFER CHEMICAL

MANILA STAR ROUTE

VERNAL

UT 84078

MINE NAME AND ADDRESS: VERNAL PIT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): UINTAH , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	50.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	50.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4200842

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: STAUFFER CHEMICAL CO

MANILA STAR ROUTE

VERNAL

UT 84078

MINE NAME AND ADDRESS: PHOSTON OPERATIONS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WASATCH , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	9.75
	TOTAL MINE EMPLOYMENT	9.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

355

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4800160

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: CIRCLE A CONSTR INC

PO BOX B

TWIN FALLS ID 83301

MINE NAME AND ADDRESS: LEEFE OPERATION WYOMING

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LINCOLN , WY

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	6.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	66.75
	TOTAL MINE EMPLOYMENT	72.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 800183

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: OCCIDENTAL CHEMICAL CO

BOX 300

WHITE SPRINGS FL 32096

MINE NAME AND ADDRESS: SUWANNEE RIVER MINE PHOSPHATE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HAMILTON , FL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	222.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	168.00
	TOTAL MINE EMPLOYMENT	390.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 800832

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: BREWSTER PHOSPHATES

GENERAL DELIVERY

BRADLEY FL 33835

MINE NAME AND ADDRESS: LONESOME MINE AND MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HILLSBOROUGH , FL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	282.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	43.75
	TOTAL MINE EMPLOYMENT	325.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUDDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 800172

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: PICK TRUCKING CO INC

4025 JOHNSON RD

MULBERRY

FL 33860

MINE NAME AND ADDRESS: PAYNE CREEK

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , FL

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	95.25
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	83.00
TOTAL MINE EMPLOYMENT	178.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 800177

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: MC DONALD CONSTR CO

5610 S FLORIDA AVE

LAKELAND FL 33803

MINE NAME AND ADDRESS: KINGSFORD MINE AND MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , FL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	197.42
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	161.50
	TOTAL MINE EMPLOYMENT	358.92

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 800178

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: IMCC

BOX 867

BARTOW

FL 33830

MINE NAME AND ADDRESS: NORALYN MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , FL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	242.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	218.25
	TOTAL MINE EMPLOYMENT	461.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 800189

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: USS AGRI-CHEMICALS DIV. OF U.S P.O. BOX 150

BARTOW FL 33830

MINE NAME AND ADDRESS: ROCKLAND MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , FL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	231.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	36.00
	TOTAL MINE EMPLOYMENT	267.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 800385

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: U-INDUSTRIAL TRAINING SYSTEMS 3750 LAKE ALFRED ROAD

WINTER HAVEN FL 33880

MINE NAME AND ADDRESS: NICHOLS MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): POLK , FL

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	72.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	46.00
	TOTAL MINE EMPLOYMENT	118.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000091

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: MONSANTO COMPANY

P O BOX 816

SODA SPRINGS ID 83276

MINE NAME AND ADDRESS: HENRY MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CARIBOU , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	3.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	3.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1000095

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: STAUFFER CHEMICAL COMPANY

P O BOX 856

SODA SPRINGS ID 83276

MINE NAME AND ADDRESS: WOOLEY VALLEY

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CARIBOU , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	96.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	96.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1001408

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: DRAVO - SODA SPRINGS

P O BOX 975

SODA SPRINGS ID 83276

MINE NAME AND ADDRESS: HENRY PHOSPHATE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CARIBOU , ID

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	77.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	77.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 610 BELLEVUE, WA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000916

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: WEST M C INC

P O BOX 381

COLUMBIA TN 38401

MINE NAME AND ADDRESS: MAURY COUNTY MINE-GODWIN

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MAURY , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	6.33
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	6.33

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4002339

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: HALL AND KNOX MINING CO

PO BOX 66

MT PLEASANT TN 38474

MINE NAME AND ADDRESS: MOBIL THOMAS TRACT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MAURY , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	6.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	6.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4001695

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: FARMER CONSTRUCTION COMPANY, I P O BOX 481

COLUMBIA TN 38401

MINE NAME AND ADDRESS: AMOS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WILLIAMSON , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	6.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	6.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000611

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: M C WEST INC

BOX 381

COLUMBIA TN 38402

MINE NAME AND ADDRESS: HICKMAN COUNTY-WILLIAMSPORT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HICKMAN , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	10.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	10.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4002630

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: M.C. WEST, INC.

BOX 73

COLUMBIA

TN 38401

MINE NAME AND ADDRESS: LITTLELOT WASHER & MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HICKMAN , TN

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	5.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	4.50
TOTAL MINE EMPLOYMENT	9.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000629

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: STAUFFER CHEMICAL CO

PO BOX 89

MT PLEASANT TN 38474

MINE NAME AND ADDRESS: GLOBE MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MAURY , TN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	29.75
	TOTAL MINE EMPLOYMENT	29.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4000920

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: PRESSNELL PHOSPHATE CO

DAVIS BUILDING

COLUMBIA

TN 38401

MINE NAME AND ADDRESS: WASHER MINE AND MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MAURY , TN

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	8.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	8.00
TOTAL MINE EMPLOYMENT	16.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

313

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3100212

SIC CODE: 14750 PHOSPHATE ROCK

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: TRADER CONSTRUCTION CO

P.O. BOX 1578

NEW BERN

NC 28560

MINE NAME AND ADDRESS: LEE CREEK

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BEAUFORT , NC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	359.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	184.00
	TOTAL MINE EMPLOYMENT	543.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 300276

SIC CODE: 14920 GYPSUM

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: WEYERHAEUSER CO DIERKS DIV RT 4 BOX 78

NASHVILLE AR 71852

MINE NAME AND ADDRESS: BRIAR PITS & PLT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HOWARD , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	35.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	11.75
	TOTAL MINE EMPLOYMENT	47.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

312

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 500427

SIC CODE: 14920 GYPSUM

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: ERNEST W MUNROE

101 EAST VINE DR

FORT COLLINS CO 80521

MINE NAME AND ADDRESS: GOODWIN QY

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LARIMER , CO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	3.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	3.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1200427

SIC CODE: 14920 GYPSUM

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: UNITED STATES GYPSUM CO

BOX M

SHOALS

IN 47581

MINE NAME AND ADDRESS: UNITED STATES GYPSUM CO

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MARTIN , IN

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	31.25
	SURFACE FACILITIES	42.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	12.50
	TOTAL MINE EMPLOYMENT	86.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 320 VINCENNES, IN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

377

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1300434

SIC CODE: 14920 GYPSUM

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: UNITED STATES GYPSUM CO

SPERRY

IA 52650

MINE NAME AND ADDRESS: SPERRY MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): DES MOINES , IA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	26.00
	SURFACE FACILITIES	19.75
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	8.00
	TOTAL MINE EMPLOYMENT	53.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 1301615

SIC CODE: 14920 GYPSUM

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: GOLD BOND BUILDING PRODUCTS PO BOX 977

FORT DODGE IA 50506

MINE NAME AND ADDRESS: KAUFFMAN GEORGE PIT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): WEBSTER , IA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	24.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	0.00
	TOTAL MINE EMPLOYMENT	24.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

613

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2000372

SIC CODE: 14920 GYPSUM

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: UNITED STATES GYPSUM CO

ROUTE #2

TAWAS CITY MI 48763

MINE NAME AND ADDRESS: ALABASTER MINE AND PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): IOSCO , MI

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	23.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	23.50
	TOTAL MINE EMPLOYMENT	46.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 310 DULUTH, MN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2001019

SIC CODE: 14920 GYPSUM

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: GEORGIA-PACIFIC

2228 BUTTERWORTH RD

GRAND RAPIDS MI 49504

MINE NAME AND ADDRESS: KENTWOOD MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): KENT , MI

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	15.50
	SURFACE FACILITIES	1.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	16.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 310 DULUTH, MN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2600097

SIC CODE: 14920 GYPSUM

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: THE FLINTKOTE CO

STAR RT 89031 BOX 29

LAS VEGAS NV 89100

MINE NAME AND ADDRESS: FLINTKOTE GYPSUM QUARRY

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CLARK , NV

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	17.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	89.00
	TOTAL MINE EMPLOYMENT	106.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3000593

SIC CODE: 14920 GYPSUM

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: UNITED STATES GYPSUM CO

101 S WACKER DRIVE

OAKFIELD

NY 14125

MINE NAME AND ADDRESS: OAKFIELD MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GENESEE , NY

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	53.25
SURFACE FACILITIES	0.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	12.25
TOTAL MINE EMPLOYMENT	65.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 120 ALBANY, NY

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3400266

SIC CODE: 14920 GYPSUM

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: UNITED STATES GYPSUM CO

BOX 187

SOUTHARD

OK 73770

MINE NAME AND ADDRESS: SOUTHARD MINE AND PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BLAINE , OK

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	35.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	197.75
	TOTAL MINE EMPLOYMENT	232.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3401132

SIC CODE: 14920 GYPSUM

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: NORTHWEST GYPSUM, INC.

ROUTE 1

FORT SUPPLY OK 73841

MINE NAME AND ADDRESS: NORTHWEST GYPSUM PIT & PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MAJOR , OK

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	5.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	5.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4100852

SIC CODE: 14920 GYPSUM

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: FREDERICKSBURG GYPSUM CO

MASON ROUTE BOX 27

FREDERICKSBUR TX 78624

MINE NAME AND ADDRESS: CHERRY MOUNTAIN QUARRY

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GILLESPIE , TX

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	21.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	4.50
	TOTAL MINE EMPLOYMENT	26.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4401926

SIC CODE: 14920 GYPSUM

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: UNITED STATES GYPSUM COMPANY

SALTVILLE VA 24370

MINE NAME AND ADDRESS: COVE MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SMYTH , VA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	38.25
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	38.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 110 PITTSBURGH, PA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 200951

SIC CODE: 14991 ASBESTOS

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: JAQUAYS MINING CORP

1219 SO. 19TH AVENUE

PHOENIX

AZ 85009

MINE NAME AND ADDRESS: EL DORADO MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GILA , AZ

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	13.25
SURFACE FACILITIES	0.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP PLANTS	0.00
TOTAL MINE EMPLOYMENT	13.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 200954

SIC CODE: 14991 ASBESTOS

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: JAQUAYS MINING CORP

1219 SOUTH 19TH AVENUE

PHOENIX

AZ 85009

MINE NAME AND ADDRESS: JAQUAYS MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): GILA , AZ

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	6.00
TOTAL MINE EMPLOYMENT	6.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 401061

SIC CODE: 14991 ASBESTOS

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: CALAVERAS NATURAL RESOURCES, I P O BOX 127

COPPEROPOLIS CA 95228

MINE NAME AND ADDRESS: CALAVERAS ASBESTOS LTD

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CALAVERAS , CA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	121.75
	TOTAL MINE EMPLOYMENT	121.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 402547

SIC CODE: 14991 ASBESTOS

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: CALARERAS NATURAL RESOURCES, I PO BOX 127

COPPEROPOLIS CA 95228

MINE NAME AND ADDRESS: CALARERAS ASBESTOS LTD

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CALAVERAS , CA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	84.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	84.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 401062

SIC CODE: 14991 ASBESTOS

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: UNION CARBIDE CORP

P O BOX K

KING CITY CA 93930

MINE NAME AND ADDRESS: KING CITY MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MONTEREY , CA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	60.25
	TOTAL MINE EMPLOYMENT	60.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 402550

SIC CODE: 14991 ASBESTOS

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: GRANITE CONSTRUCTION CO 585 BEACH ST

WATSONVILLE CA 95076

MINE NAME AND ADDRESS: JOE 5 PIT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SAN BENITO , CA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	12.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	12.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 620 PHOENIX, AZ

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4300065

SIC CODE: 14991 ASBESTOS

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: VERMONT ASBESTOS GROUP INC BOX 54B, R.R. #1

MORRISVILLE VT 5661

MINE NAME AND ADDRESS: LOWELL MINE & MILL ASBESTOS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ORLEANS , VT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	54.50
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	121.50
	TOTAL MINE EMPLOYMENT	176.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 120 ALBANY, NY

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4201200

SIC CODE: 14993 GILSONITE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: ZIEGLER CHEM & MNL CRP

STAR ROUTE

VERNAL

UT 84078

MINE NAME AND ADDRESS: BONANZA NO. 8-A

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): Uintah , UT

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	2.25
SURFACE FACILITIES	1.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP PLANTS	0.00
TOTAL MINE EMPLOYMENT	3.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4201395

SIC CODE: 14993 GILSONITE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: ZIEGLER CHEMICAL & MINERAL COR 3277 SOUTH 15 EAST

VERNAL UT 84078

MINE NAME AND ADDRESS: U-32 SHIFT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): UINTAH , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	2.00
	SURFACE FACILITIES	1.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	3.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4200854

SIC CODE: 14993 GILSONITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: AMERICAN GILSONITE

P.O. BOX 28

BONANZA UT 84008

MINE NAME AND ADDRESS: BONANZA OPERATIONS

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): Uintah , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	44.50
	SURFACE FACILITIES	17.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	33.50
	TOTAL MINE EMPLOYMENT	95.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4200876

SIC CODE: 14993 GILSONITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: ZIEGLER CHEMICAL AND MINERAL C STAR ROUTE

VERNAL UT 84078

MINE NAME AND ADDRESS: LITTLE BONANZA MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): UINTAH , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	.
	SURFACE FACILITIES	3.67
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	9.50
	TOTAL MINE EMPLOYMENT	13.17

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4201146

SIC CODE: 14993 GILSONITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: DEMAR BOREN CONTRACTOR

P O BOX #8

BONANZA

UT 84008

MINE NAME AND ADDRESS: BOREN MINES

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): UINTAH , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	21.75
	SURFACE FACILITIES	16.50
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	38.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4201446

SIC CODE: 14993 GILSONITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: DON HOLMES, CONTRACTOR

3277 S 1500 E

VERNAL

UT 84078

MINE NAME AND ADDRESS: HOLMES MINES

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): Uintah , UT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	6.50
	SURFACE FACILITIES	2.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	8.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 900241

SIC CODE: 14994 MICA

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: FRANKLIN MINERAL PRODUCTS CO DRAWER 390

HARTWELL GA 30643

MINE NAME AND ADDRESS: HARTWELL QUARRY & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): HART , GA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	12.75
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	10.50
	TOTAL MINE EMPLOYMENT	23.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 210 BIRMINGHAM, AL

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2900751

SIC CODE: 14994 MICA

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: MINERAL IND COMMODITIES OF AME BOX 2403

SANTA FE NM 87501

MINE NAME AND ADDRESS: MICA MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SANTA FE , NM

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	11.25
	TOTAL MINE EMPLOYMENT	11.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3901158

SIC CODE: 14994 MICA

SELECTION STATUS: 1

COMPANY NAME AND ADDRESS: PACER CORPORATION

PO BOX 912

CUSTER

SD 57730

MINE NAME AND ADDRESS: BRITE X MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CUSTER , SD

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	12.50
	TOTAL MINE EMPLOYMENT	12.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 510 DENVER, CO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3100375

SIC CODE: 14994 MICA

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: HARRIS MINING CO

BOX 628

SPRUCE PINE NC 28777

MINE NAME AND ADDRESS: KAOLIN MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): AVERY , NC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	20.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	59.00
	TOTAL MINE EMPLOYMENT	79.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3101080

SIC CODE: 14994 MICA

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: ASHEVILLE MICA CO

P.O.BOX 5325

ASHEVILLE NC 28813

MINE NAME AND ADDRESS: BILTMORE PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): BUNCOMBE , NC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	5.00
	TOTAL MINE EMPLOYMENT	5.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3100273

SIC CODE: 14994 MICA

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: KINGS MTN MICA CO

P O BOX 709

KINGS MTN NC 28086

MINE NAME AND ADDRESS: MOSS MINE & MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CLEVELAND , NC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	12.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	32.75
	TOTAL MINE EMPLOYMENT	44.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3100274

SIC CODE: 14994 MICA

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: KINGS MOUNTAIN MICA CO INC P O BOX 709

KINGS MTN NC 28086

MINE NAME AND ADDRESS: PATTERSON MN & ML

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CLEVELAND , NC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	7.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	14.50
	TOTAL MINE EMPLOYMENT	21.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

407

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3100381

SIC CODE: 14994 MICA

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: UNITED STATES GYPSUM CO P O BOX 821

KINGS MTN NC 28086

MINE NAME AND ADDRESS: KINGS MOUNTAIN GRINDING PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): CLEVELAND , NC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	9.25
	TOTAL MINE EMPLOYMENT	9.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3101746

SIC CODE: 14994 MICA

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: FRANKLIN MINERAL PRODUCTS CO PO BOX 28

FRANKLIN NC 28734

MINE NAME AND ADDRESS: FRANKLIN PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): MACON , NC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	21.00
	TOTAL MINE EMPLOYMENT	21.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3100675

SIC CODE: 14994 MICA

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: U. S. GYPSUM COMPANY

P O BOX 648

SPRUCE PINE NC 28777

MINE NAME AND ADDRESS: SPRUCE PINE PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): YANCEY , NC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	12.75
	TOTAL MINE EMPLOYMENT	12.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3101148

SIC CODE: 14994 MICA

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: DENEEN MICA CO

GENERAL DELIVERY

NEWDALE

NC 28714

MINE NAME AND ADDRESS: DENEEN MICA MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): YANCEY , NC

MINE EMPLOYMENT:

SUBUNIT TYPE	NO. OF EMPLOYEES
UNDERGROUND MINING	0.00
SURFACE FACILITIES	0.00
SURFACE MINING	0.00
AUGER MINING	0.00
CULM BANK & REFUSE PILE	0.00
DREDGE OPERATIONS	0.00
OTHER SURFACE MINING	0.00
INDEPENDENT SHOPS & YARDS	0.00
MILL OR PREP. PLANT	37.25
TOTAL MINE EMPLOYMENT	37.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 301364

SIC CODE: 14998 VERMICULITE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: STRONG-LITE PRODUCTS CORPORATI P O BOX 8068

PINE BLUFF AR 71611

MINE NAME AND ADDRESS: PORT PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): JEFFERSON , AR

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	20.50
	TOTAL MINE EMPLOYMENT	20.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 410 DALLAS, TX

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2301650

SIC CODE: 14998 VERMICULITE

SELECTION STATUS: 0

COMPANY NAME AND ADDRESS: W R GRACE AND CO CONSTRUCTION 1705 SULPHUR AVENUE

ST LOUIS MO 63110

MINE NAME AND ADDRESS: ST. LOUIS EXPANDING PLANT

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): ST LOUIS CITY , MO

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	14.50
	TOTAL MINE EMPLOYMENT	14.50

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 420 ROLLA, MO

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 2400165

SIC CODE: 14998 VERMICULITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: W R GRACE & CO

BOX 609

LIBBY

MT 59923

MINE NAME AND ADDRESS: ZONOLITE DIV LIBBY

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LINCOLN , MT

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	49.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	119.50
	TOTAL MINE EMPLOYMENT	168.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 520 SALT LAKE CITY, UT

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3800085

SIC CODE: 14998 VERMICULITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: W.R. GRACE & CO., CONSTRUCTION ROUTE 1

ENOREE SC 29335

MINE NAME AND ADDRESS: KEARNEY MILL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LAURENS , SC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	0.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	45.75
	TOTAL MINE EMPLOYMENT	45.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3800086

SIC CODE: 14998 VERMICULITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: PATTERSON VERMICULITE CO

ROUTE 1

ENOREE

SC 29335

MINE NAME AND ADDRESS: LAURENS COUNTY MINE

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LAURENS , SC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	5.00
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	5.75
	TOTAL MINE EMPLOYMENT	10.75

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3800259

SIC CODE: 14998 VERMICULITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: GRACE W R & CO

ENOREE

SC 29335

MINE NAME AND ADDRESS: LAURENS COUNTY MINES

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LAURENS , SC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	9.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	9.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

427

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 3800251

SIC CODE: 14998 VERMICULITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: GRACE W R & CO

ENOREE

SC 29335

MINE NAME AND ADDRESS: SPARTANBURG COUNTY MINES

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): SPARTANBURG , SC

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	29.25
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP PLANTS	0.00
	TOTAL MINE EMPLOYMENT	29.25

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 220 KNOXVILLE, TN

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

OCCUPATIONAL HAZARD SURVEY OF THE MINING INDUSTRY
SAMPLE DRAW OCTOBER 30, 1982

MINE ID: 4405101

SIC CODE: 14998 VERMICULITE

SELECTION STATUS: A

COMPANY NAME AND ADDRESS: VIRGINIA VERMICULITE LTD

PO BOX 70

LOUISA

VA 23093

MINE NAME AND ADDRESS: RICHARD E. SANSOM MINE AND MIL

MINE TELEPHONE NUMBER:

HEALTH AND SAFETY CONTACT:

MINE LOCATION (COUNTY, STATE): LOUISA , VA

MINE EMPLOYMENT:	SUBUNIT TYPE	NO. OF EMPLOYEES
	UNDERGROUND MINING	0.00
	SURFACE FACILITIES	0.00
	SURFACE MINING	3.67
	AUGER MINING	0.00
	CULM BANK & REFUSE PILE	0.00
	DREDGE OPERATIONS	0.00
	OTHER SURFACE MINING	0.00
	INDEPENDENT SHOPS & YARDS	0.00
	MILL OR PREP. PLANT	16.33
	TOTAL MINE EMPLOYMENT	20.00

OTHER MSHA OPERATIONS ON THE SAME PROPERTY (LIST BY MINE ID):

MSHA SUBDISTRICT OFFICE: 110 PITTSBURGH, PA

MSHA OFFICE TELEPHONE NUMBER:

LABOR UNIONS:

UNION CONTACT NAME:

UNION CONTACT ADDRESS:

UNION CONTACT TELEPHONE NUMBER:

Exhibit 4. Projection Algorithm Subroutine Code



FOLLOWING 16 LINES WERE USED FOR TEST PURPOSES.

```

IMENSION X(2,3),P(2,3),PH(2),IFLAG(2,3),N1(2),N2(2)
ATA N1/1,1/,N2/2,2/,PH/32.,34./,IFLAG/1,1,2,2,2,2/
ATA P/60.,50.,10.,15.,8.,10./,X/25.,22.,3.,8.,4.,4./
N2
+1=2
+2=7
=NH1+NH2
ALL STAT(X,P,IFLAG,PH,N1,N2,L,K1,K2,YHAT,YHAT1,YHAT2,VAR)
VG=YHAT/N
VG1=YHAT1/NH1
VG2=YHAT2/NH2
RITE(6,101) YHAT,YHAT1,YHAT2,VAR,AVG,AVG1,AVG2
FORMAT(' ',YHAT=,F10.4/,YHAT1=,F10.4/,YHAT2=,F10.4,
'VAR(YHAT)=,F10.4/,AVG=,F10.4/,AVG1=,F10.4/,AVG2=,F10.4)
TOP
ND

```

THE SUBROUTINE STAT COMPUTES AND RETURNS TO THE MAIN PROGRAM
VALUES FOR YHAT (YHAT) , YHAT1 (YHAT1) , YHAT2 (YHAT2) , AND
VARIANCE OF YHAT (VAR) . YHAT IS THE ESTIMATE OF THE POPULATION
TOTAL. YHAT1 IS THE ESTIMATE OF THE POPULATION TOTAL FOR THE
SELF-REPRESENTING UNITS OF THE POPULATION ONLY. YHAT2 IS THE
ESTIMATE OF THE POPULATION TOTAL FOR ONLY THE NONSELF-REPRESENT-
ING UNITS OF THE POPULATION. VAR IS THE ESTIMATE OF THE VARIANCE
OF YHAT.

INPUT REQUIRED :

X(I,J) IS THE CHARACTERISTIC VALUE OF THE ITH STRATUM
AND THE JTH MINE.

P(I,J) IS THE NUMBER OF EMPLOYEES IN THE ITH STRATUM
AND THE JTH MINE.

IFLAG1(I,J) IS THE VARIABLE WHICH DETERMINES IF
THE VALUE IN THE ITH STRATUM AND THE JTH MINE
IS A SELF-REPRESENTING UNIT OR A NONSELF-
REPRESENTING UNIT. IFLAG1(I,J) IS EQUAL TO 1 IF
THE VALUE IS A SELF-REPRESENTING UNIT OR
IFLAG1(I,J) IS EQUAL TO 2 IF THE VALUE IS A
NONSELF-REPRESENTING UNIT.

PH(I) IS THE TOTAL NUMBER OF EMPLOYEES IN NONSELF-
REPRESENTING UNITS IN THE ITH STRATUM OF THE
POPULATION.

N1(I) IS THE NUMBER OF SELF-REPRESENTING UNITS IN THE
ITH STRATUM OF THE SAMPLE.

N2(I) IS THE NUMBER OF NONSELF-REPRESENTING UNITS IN

```

      THE ITH STRATUM OF THE SAMPLE.
      L IS THE NUMBER OF STRATA.
      K1 IS THE MAXIMUM NUMBER OF STRATA.
      K2 IS THE MAXIMUM NUMBER OF MINES IN ANY STRATUM.
*****
JOBROUTINE STAT(X,P,IFLAG1,PH,N1,N2,L,K1,K2,YHAT,YHAT1,YHAT2,VAR)
IMENSION X(K1,K2),P(K1,K2),PH(K1),TEMP(K1),IFLAG1(K1,K2),
I(K1),N2(K1)
JM1=0
JM2=0
JM3=0
AR=0
SUM2=0
*****
S LOOP COMPUTES YHAT OVER ALL THE STRATA.
*****
DO 10 I=1,L
*****
S THE TOTAL NUMBER OF MINES IN THE ITH STRATUM.
*****
=N1(I)+N2(I)
*****
S LOOP COMPUTES OVER THE MINES IN THE ITH STRATUM.
*****
DO 20 J=1,N
IF(IFLAG1(I,J).NE.1) GO TO 15
SUM1=SUM1+X(I,J)
GO TO 20
IF(IFLAG1(I,J).NE.2) GO TO 20
Z=P(I,J)/PH(I)
SUM2=SUM2+X(I,J)/(N2(I)*Z)
CONTINUE
*****
P(I) CONTAINS THE ESTIMATE OF THE POPULATION TOTAL FOR THE
SELF-REPRESENTING UNITS IN THE ITH STRATUM. THIS VALUE IS
D IN THE VARIANCE COMPUTATION.
*****
EMP(I)=SUM2-ASUM2
SUM2=SUM2
CONTINUE
HAT1=SUM1
HAT2=SUM2
HAT=YHAT1+YHAT2
*****
S LOOP COMPUTES VAR OVER ALL THE STRATA.
*****

```

```

DO 30 I=1,L
N=N1(I)+N2(I)
DO 40 J=1,N
IF(IFLAG1(I,J) .NE. 2) GO TO 40
Z=P(I,J)/PH(I)
TERM=(X(I,J)/Z)-TEMP(I)
SUM3=SUM3+TERM*TERM
CONTINUE
R1=SUM3/(N2(I)*(N2(I)-1))
R=VAR+VAR1
JM3=0
CONTINUE
RETURN
ID

```

POPULATION DATA

	<u>MINE</u>	<u>P(I,J)</u>	<u>X(I,J)</u>	<u>IFLAG(I,J)</u>
stratum 1 {	1	60	25	1
	2	10	3	2
	3	5	2	2
	4	8	4	2
	5	9	4	2
stratum 2 {	1	50	22	1
	2	15	8	2
	3	10	4	2
	4	9	3	2

SAMPLE DATA

	<u>MINE</u>	<u>P(I,J)</u>	<u>X(I,J)</u>	<u>IFLAG(I,J)</u>
stratum 1 {	1	60	25	1
	2	10	3	2
	4	8	4	2
stratum 2 {	1	50	22	1
	2	15	8	2
	3	10	4	2

RESULTS

	<u>PROJECTED TOTAL</u>	<u>AVERAGE</u>	<u>VARIANCE</u>
l1 1	47	23.5	0
l1 2	28.6666	4.0952	15.3778
population	75.6666	8.4074	15.3778

FE: P(I,J) is the number of employees

X(I,J) is the number of female employees

IFLAG(I,J) is the code for a self-representing or nonself-representing unit

