CONTACT INFORMATION
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Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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Vol.~~3~~ 2, Bk.21

0039

TOMBSTONE

Mining District
Cochise Co.
Arizona

Santa Fe Mining, Inc.
Misc. Maps - Semi Annual Reports
1988-1992
Homestake Sampling Program 1991

Homestake (1991)

Homestake (1991)

RECEIVED JUL 31 1991

Barker
Calcagno
Kern
Lindquist

NEVADA GSI GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

Tombstone District Recon
Cochise County, AZ
2922

CLIENT: R.R. Kern
Homestake Mining Co.
155 Glendale Ave. Suite 18
Sparks, NV 89431 tel:702/331-6980

GSI JOB #: HOG-1S9729
SAMPLES: 190
PROJECT: 2922
PRODUCT: FA1/AA & TRACE
P.O. #: 14527-1

This report has been reviewed and approved by:

Borden Putnam

Borden Putnam, Quality Assurance

31 July 1991
Date

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NEVADA

GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

GSI JOB # HOG-1S9729

LABORATORY: Geochemical Services, Inc.
NO. SAMPLES: 190
SAMPLE SIZE: 29.16g
NO. SAMPLE BLANKS: 10
NO. CONTROL SAMPLES: 10

ELEMENTS	DET. LIM.	UNITS	METHOD
Au	.0010	opt	fa/aa
Ag	.0600	ppm	trace

1498 Kleppe Lane • Sparks, NV 89431 • 702/353-5400 • FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

JOB #: HOG-189729

Sample ID	#	Au opt fa/aa	Ag ppm trace	(OPT)	TYPE	WIDTH	LOC.
3076BB	1	.001	1.28				
3077BB	2	<.0010	4.00				
3078BB	3	.002	3.56				
3079BB	4	<.0010	1.48				
3080BB	5	.003	8.68				
3081BB	6	<.0010	.765				
3082BB	7	<.0010	4.57				
3083BB	8	<.0010	.550				
3084BB	9	<.0010	.715				
3085BB	10	<.0010	.442				
3086BB	11	<.0010	4.97				
3087BB	12	.026	17.9	(0.52)	RX	22'	CONT. PIT
3088BB	13	<.0010	1.49				
3089BB	14	.010	43.2	(1.26)	RX	22' - TRUE = ?	
3090BB	15	.005	18.7	(0.55)	RX	30' - TRUE = ?	
3091BB	16	.007	13.2	(0.39)			
3092BB	17	.006	8.13				
3093BB	18	.010	52.9	(1.54)	RX	7' w/CU STAIN	
3094BB	19	<.0010	3.11				
3095BB	20	.001	1.80				
3096BB	21	.002	3.85				
3097BB	22	.002	72.6	(2.11)	RX	4'	
3098BB	23	.002	32.5	(0.95)	RX	20'	CONT. PIT
3099BB	24	.002	26.1	(0.76)	RX	17'	"
3100BB	25	.002	14.2	(0.41)			
3101BB	26	.015	8.40		RX	17'	
3102BB	27	.005	8.07				CONT. PIT
3103BB	28	.008	49.7	(1.45)	RX	6'	
3104BB	29	.007	116.	(3.39)	RX	10'	CONT. PIT
3105BB	30	.002	52.2	(1.52)	RX	7'	"
3106BB	31	.032	74.9	(2.19)	RX	≈8'	"
3107BB	32	.002	12.8				"
3108BB	33	.008	16.7	(.049)			
3109BB	34	.004	18.1	(0.53)	RX	20'	"
3110BB	35	<.0009	10.7	(0.31)			
3111BB	36	<.0010	8.88				
3112BB	37	.002	2.13				
3113BB	38	<.0010	.791				
3114BB	39	<.0010	.577				
3115BB	40	<.0010	.451				
3116BB	41	<.0009	.609				
3117BB	42	<.0009	.570				
3118BB	43	.001	1.62				
3119BB	44	.002	1.78				
3120BB	45	.012	1.55				

LARGE DOZER TRENCH WEST of CONT. PIT 3113-3120 BB. (11654N, 10423E)

NEVADA

GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

JOB #: HOG-1S9729

Sample ID	#	Au opt fa/aa	Ag ppm trace	Ag (OPT)	TYPE	WIDTH	LOC
3121BB	46	.004	1.61				
3122BB	47	.005	1.73				
3123BB	48	<.0009	1.06				
3124BB	49	<.0010	.614				
3125BB	50	<.0010	.801				
3126BB	51	<.0010	.372				
3127BB	52	<.0010	.569				
3128BB	53	<.0010	.457				
3129BB	54	<.0010	1.02				
3130BB	55	<.0010	.738				
3131BB	56	<.0010	.609				
3132BB	57	.001	.735				
3133BB	58	<.0010	.738				
3134BB	59	<.0010	.710				
135BB	60	.005	1.41				
3136BB	61	.065	13.8	(0.40)	RX	20'	
3137BB	62	.002	4.12				
3138BB	63	.026	6.34	(0.19)	RX	20'	
3139BB	64	.006	3.51		RX	20'	
3140BB	65	<.0009	1.06				
3141BB	66	<.0010	.443				
3142BB	67	<.0010	.539				
3143BB	68	<.0009	.582				
3144BB	69	<.0010	.560				
3145BB	70	<.0010	.186				
3146BB	71	.015	23.2	(0.68)	RX	20'	
3147BB	72	.003	2.64		RX	20'	
3148BB	73	.003	1.93		RX	20'	
3149BB	74	.009	10.2	(0.30)	RX	≈10'	
3150BB	75	.026	32.4	(0.95)	RX	20', TRUE=?	
3151BB	76	<.0010	.638				
3152BB	77	<.0010	.569				
3153BB	78	<.0010	.347				
3154BB	79	<.0009	.694				
3155BB	80	<.0010	.378				
3156BB	81	.001	2.18				
3157BB	82	<.0010	1.56				
3158BB	83	<.0010	1.45				
3159BB	84	.001	6.50				
60BB	85	.006	11.0	(0.32)			
161BB	86	<.0009	.385				
3162BB	87	<.0010	.547				
3163BB	88	<.0010	.823				
3164BB	89	<.0010	1.21				
3165BB	90	<.0010	1.24				

DEEP BACKHOE TRENCH W. of CONT. PIT, 3121,22BB
3123 - 3125BB - CUT S. of SOUTH PIT

TRENCHES W. of CENTRAL PORTION of CONT. PIT 3127 - 3135BB

SMAL PIT WEST of CONT. PIT 3136 - 3139BB

CONT. PIT
"
"
"

3151 - 3155BB - LARGE CUT S. of SMALL S. PIT

3156 - 3161BB - TRENCH S.SW of SMALL S. PIT

3162 - 3167BB - TRENCH SW of SOUTH PIT PARALLEL TO PIT

NEVADA

GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

JOB #: HOG-1S9729

Sample ID	#	Au opt fa/aa	Ag ppm trace	Au (opt)	TYPE	WIDTH	LOC
3166BB	91	.002	1.35				
3167BB	92	.004	5.02				
3168BB	93	<.0010	.682		3168 - 317388 - BENCH ON S.W. WALL of SOUTH PIT		
3169BB	94	.004	2.85				
3170BB	95	.003	11.2	(0.33)			
3171BB	96	.015	13.5	(0.39)			
3172BB	97	<.0010	1.29				
3173BB	98	<.0010	.781				
3174BB	99	<.0010	.107				
3175BB	100	.007	11.0	(0.32)	RX	2.5'	SELECT, S. PIT
3176BB	101	<.0010	.952				
3177BB	102	.015	1.33		RX	SELECT	SOUTH PIT
3178BB	103	<.0010	.254				
3179BB	104	<.0010	.219				
3180BB	105	<.0009	.631				
3181BB	106	<.0010	.472				
3182BB	107	<.0009	11.9	(0.35)			
3183BB	108	<.0010	.389				
3184BB	109	<.0010	.144				
3185BB	110	<.0010	.245				
3186BB	111	<.0010	.587				
3187BB	112	<.0010	.391				
3188BB	113	<.0010	.834				
3189BB	114	<.0009	.654				
3190BB	115	<.0010	3.11				
3191BB	116	.010	26.8	(0.78)	RX	30' AREA	
3192BB	117	.001	16.4	(0.48)			
3193BB	118	.015	205.	(5.99)	DUMP		Lucky Cuss
3194BB	119	.005	7.61				
3195BB	120	<.0010	.353				
3196BB	121	<.0010	.272				
3197BB	122	<.0010	.516				
3198BB	123	.007	2.09		RX	x6	
3199BB	124	.007	4.21		DUMP		
3200BB	125	.132	111.	(3.24)	RX	4'	W. of CONT. PIT
3201BB	126	<.0010	.423				
3202BB	127	<.0010	.376				
3203BB	128	<.0009	2.05				
3204BB	129	<.0010	.309				
3223BB	130	<.0010	1.42				
3224BB	131	<.0009	.555				
3225BB	132	.057	201.	(5.87)	DUMP		TELEPHONE MINE
3226BB	133	<.0010	1.37				
3227BB	134	<.0010	.552				
3228BB	135	<.0010	.419				

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GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

JOB #: HOG-1S9729

Sample ID	#	Au opt fa/aa	Ag ppm trace	Au (OPT)	TYPE	WIDTH	LOC
3229BB	136	<.0010	.835				
3230BB	137	<.0009	39.1	(1.14)	RX	8'	CHAPEL PIT
3231BB	138	<.0009	2.78				
3232BB	139	<.0010	.842				
3001BE	140	.339	31.7	(0.93)	DUMP		W. of CONT. PIT
3002BE	141	<.0010	.996				
3003BE	142	.003	1.83				
3004BE	143	<.0009	.519		TRENCH	10210N	3004-3007BE (10' SAMPLES)
3005BE	144	.002	.876	E. of SOUTH PIT			
3006BE	145	.001	1.27				
3007BE	146	<.0010	1.07		TRENCH	10560E	3008-3011BE
3008BE	147	.0010	1.50				
3009BE	148	<.0009	2.47				
3010BE	149	<.0010	.828				
3011BE	150	<.0010	.548				
3012BE	151	<.0009	1.03				
3013BE	152	<.0010	.343				
3014BE	153	.027	41.6	(1.21)	DUMP		TRIBUTE MINE
3015BE	154	<.0009	28.6	(0.84)	RX	7'	"
3016BE	155	.025	13.7	(0.40)			
3017BE	156	<.0010	.788				
3018BE	157	<.0010	6.60				
3019BE	158	.048	233.	(6.80)	DUMP		INGERSOLL MINE
3020BE	159	.001	29.2	(0.85)	RX	5.5'	"
3021BE	160	<.0010	4.05				
3022BE	161	<.0010	.563				
3023BE	162	<.0010	.734				
3024BE	163	.003	54.2	(1.58)	RX	5'	WEST SIDE MINE
3025BE	164	<.0010	.368				
3924BE	165	<.0010	1.24				
3925BE	166	.010	67.6	(1.97)			
3926BE	167	.003 .003	.716	.630			
3927BE	168	.0010	8.64				
3928BE	169	.022 .027	9.31	10.3			
3929BE	170	<.0010	5.12				
3930BE	171	.002	3.11				
3931BE	172	<.0010 <.001	.070	<.06			
3932BE	173	.026	88.7	(2.59)			
3933BE	174	.259 .3	50.6	(1.48)	44.5	(1.30)	
3934BE	175	<.0010	.360				
3935BE	176	.0010	2.41				
3936BE	177	<.0010	1.56				
3937BE	178	.018 .021	138.	(4.03)	141.	(4.12)	
3938BE	179	<.0010	.599				
3939BE	180	.003	4.77				

REPS/STAND.

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GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

JOB #: HOG-1S9729

Sample ID	#	Au opt fa/aa	Ag ppm trace
3940BE	181	.117 .13	38.8 34.2
3941BE	182	<.0010	.912
3942BE	183	<.0010	.597
3943BE	184	.215 .244	15.5 17.1
3944BE	185	<.0010	.241
3947BE	186	<.0010	.450
3948BE	187	.016 .021	129. 141
3949BE	188	.004	4.44
3951BE	189	.268 .3	50.1 44.5
3952BE	190	<.0010	.470

REPS / STAND.

JOB 14527-1

Replicate	Original
3924BE	3008BE
3925BE	3093BB
3927BE	3110BB
3929BE	3086BB
3930BE	3078BB
3932BE	3014BE
3934BE	3025BE
3935BE	3156BB
3936BE	3172BB
3938BE	3142BB
3939BE	3167BB
3941BE	3133BB
3942BE	3127BB
3944BE	3184BB
3945BE	3237BB
3947BE	3228BB
3949BE	3199BB
3950BE	3214BB
3952BE	3201BB

Standard	Au	Ag
3926BE	.003 O/T	.630 ppm
3928BE	.027 O/T	10.3 ppm
3931BE	.<.001 O/T	<.06 ppm
3933BE	.3 O/T	44.5 ppm
3937BE	.021 O/T	141.0 ppm
3940BE	.13 O/T	34.2 ppm
3943BE	.244 O/T	17.1 ppm
3946BE	5-30 ppb	<.06 ppm
3948BE	.021 O/T	141.0 ppm
3951BE	.3 O/T	44.5 ppm

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Barker
Calcagno
Kern
Lindquist

NEVADA GSI GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

Tombstone District Recon
Cochise County, AZ
2922

CLIENT: R.R. Kern
Homestake Mining Co.
155 Glendale Ave. Suite 18
Sparks, NV 89431 tel:702/331-6980

GSI JOB #: HOG-19729A
SAMPLES: 27
PROJECT: 2922
PRODUCT: FAT & TRACE
P.O. #: 14527-1

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This report has been reviewed and approved by:

Borden Putnam

Borden Putnam, Quality Assurance

31 July 1991
Date

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NEVADA

GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

GSI JOB # HOG-19729A

LABORATORY: Geochemical Services, Inc.
NO. SAMPLES: 27
SAMPLE SIZE: 29.16g
NO. SAMPLE BLANKS: 2
NO. CONTROL SAMPLES: 2

ELEMENTS	DET. LIM.	UNITS	METHOD
Au	3.4000	ppb	FAT
Ag	.0600	ppm	trace

NEVADA

GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

J[redacted] #: HOG-19729A

Sample ID	#	Au ppb FAT	Ag ppm trace	
3[redacted]5BB 4WCLE Sam	1	5.68	.275	
3[redacted]6BB	2	8.99	.442	
3207BB	3	7.12	.349	
3208BB	4	12.0	.436	
3209BB	5	16.4	.339	
3210BB	6	11.6	.243	
3211BB	7	14.6	.308	
3212BB	8	9.41	.287	
3213BB	9	15.9	.451	
3214BB	10	18.4	.126	
3215BB	11	21.2	.587	
3216BB	12	14.4	.515	
3217BB	13	14.4	.369	
3218BB DUMP	14	94.7	53.4	1.5LBS
[redacted]9BB 2½	15	64.0	7.89	SELECT
[redacted].0BB	16	16.1	1.73	
3221BB	17	14.6	.287	
3222BB	18	15.8	.455	
3233BB STATE of MAINE	19	16.5	.719	
3234BB	20	7.89	.608	
3235BB	21	17.4	6.23	
3236BB	22	19.8	5.30	
3237BB	23	13.2	1.81	
3238BB	24	10.3	.760	
3945BE	25	16.6	1.72	
3946BE	26	<3.35	<.054	
3950BE	27	7.78	.194	

JOB 14527-1

Replicate	Original
3924BE	3008BE
3925BE	3093BB
3927BE	3110BB
3929BE	3086BB
3930BE	3078BB
3932BE	3014BE
3934BE	3025BE
3935BE	3156BB
3936BE	3172BB
3938BE	3142BB
3939BE	3167BB
3941BE	3133BB
3942BE	3127BB
3944BE	3184BB
3945BE	3237BB
3947BE	3228BB
3949BE	3199BB
3950BE	3214BB
3952BE	3201BB

Standard	Au	Ag
3926BE	.003 O/T	.630 ppm
3928BE	.027 O/T	10.3 ppm
3931BE	.<.001 O/T	<.06 ppm
3933BE	.3 O/T	44.5 ppm
3937BE	.021 O/T	141.0 ppm
3940BE	.13 O/T	34.2 ppm
3943BE	.244 O/T	17.1 ppm
3946BE	5-30 ppb	<.06 ppm
3948BE	.021 O/T	141.0 ppm
3951BE	.3 O/T	44.5 ppm

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NEVADA GSI GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

Barker
Calcagno
Howell
Kerr
Lindqvist

Tombstone
Cochise County, AZ

2922

CLIENT: Mr. Frank Howell
Homestake Mining Co.
155 Glendale Ave. #18
Sparks, NV 89431 tel:702\331-6980

Incomplete

NO AG
9/13/91

GSI JOB #: HOG-180073
SAMPLES: 34
PROJECT: 2922
PRODUCT: FA1/AA
P.O. #: 15315-1

Incomplete See Attached

This report has been reviewed and approved by:

Borden Putnam

Borden Putnam, Quality Assurance

19 Aug 1991

Date

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NEVADA GSI GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

GSI JOB # HOG-1S0073

LABORATORY: Geochemical Services, Inc.
NO. SAMPLES: 34
SAMPLE SIZE: 29.16g
NO. SAMPLE BLANKS: 2
NO. CONTROL SAMPLES: 2

ELEMENTS	DET. LIM.	UNITS	METHOD
Au	.0010	opt	fa/aa

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NEVADA

GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

JOB #: HOG-1S0073

Sample ID		#	Au opt fa/aa
5851BE	EAST WALL	1	.005
5852BE	CONT. PIT	2	.002
5853BE		3	.008
5854BE		4	.007
5855BE	W. WALL	5	.014
5856BE	CONT. PIT	6	.077
5857BE	AT BASE	7	.045
5858BE		8	.041
5859BE		9	.009
5860BE		10	.001
5861BE		11	.006
5862BE		12	.009
5863BE	W. of PIT	13	.006
5864BE		14	.088
5865BE		15	<.0010
5866BE	UPPER BENCH	16	<.0010
5867BE	WEST WALL	17	<.0010
5868BE	of PIT	18	.001
5869BE		19	<.0009
5870BE		20	<.0010
5871BE		21	<.0010
5872BE		22	<.0010
5873BE		23	<.0010
5874BE		24	<.0010
5875BE	W. of CONT. PIT	25	.005
5876BE		26	.005
5877BE		27	.004
5878BE	S. of FIRE STATION	28	.009
5879BE	N. END of PIT	29	.003
4720BE		30	.011
4722BE		31	.003
4723BE		32	<.0010
4724BE		33	.019
4725BE		34	.001

Replicate	Original
4721BE	5859BE
4723BE	5872BE
4725BE	5868BE

Standard	Au	Ag
4722BE	.0030/T	.630 ppm
4724BE	.0220/T	2.2 ppm

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Calcagno
Kern

NEVADA
GSI
GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

Tombstone District Recon
Cochise County, AZ

2922 Checks

CLIENT: R.R. Kern
Homestake Mining Co.
155 Glendale Ave. Suite 18
Sparks, NV 89431 tel:702/331-6980

GSI JOB #: CHK-1S9729
SAMPLES: 23
PROJECT: 2922
PRODUCT: CHECKS
P.O. #: 14527-1 - 3 pp.

This report has been reviewed and approved by:

for 8/14/91

Borden Putnam, Quality Assurance Date

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NEVADA

GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

GSI JOB # CHK-1S9729

LABORATORY: Geochemical Services, Inc.
NO. SAMPLES: 23
SAMPLE SIZE: 29.16g
NO. SAMPLE BLANKS: 2
NO. CONTROL SAMPLES: 2

ELEMENTS	DET. LIM.	UNITS	METHOD
Au	.0010	opt	fa/aa

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NEVADA

GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

JOB #: CHK-1S9729

Sample ID	#	Au opt fa/aa
3087BB	1	.027
3101BB	2	.015
3[illegible]BB	3	.035
3136BB	4	.041
3138BB	5	.018
3150BB	6	.018
3171BB	7	.010
3177BB	8	.013
3193BB	9	.015
3200BB	10	.151
3225BB	11	.052
3001BE	12	.376
3014BE	13	.032
3016BE	14	.028
3019BE	15	.051
3928BE	16	.027
3[illegible]BE	17	.304
3[illegible]0BE	18	.142
3943BE	19	.239
3948BE	20	.019
3949BE	21	.004
3951BE	22	.298
3199BB	23	.006

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Calcagno
Kern

NEVADA

GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

Tombstone District Recon
Cochise County, AZ

2922 Checks

CLIENT: R.R. Kern
Homestake Mining Co.
155 Glendale Ave. Suite 18
Sparks, NV 89431 tel:702/331-6980

GSI JOB #: CHK-19729N
SAMPLES: 1
PROJECT: 2922
PRODUCT: TRACE
P.O. #: 14527-1 - 3pgs.

This report has been reviewed and approved by:

for

Borden Putnam, Quality Assurance

8/14/91

Date

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NEVADA
GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

GSI JOB # CHK-19729N

LABORATORY: Geochemical Services, Inc.
NO. SAMPLES: 1
SAMPLE SIZE: 1.00g
NO. SAMPLE BLANKS: 1
NO. CONTROL SAMPLES: 1

ELEMENTS	DET. LIM.	UNITS	METHOD
Ag	.0600	ppm	trace

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NEVADA

GEOCHEMICAL SERVICES INC.

ANALYTICAL REPORT

JOB #: CHK-19729N

mple ID	#	Ag ppm trace
3200BB	1	118.

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NEVADA GSI GEOCHEMICAL SERVICES INC.

RECEIVED AUG 1991

Barker
Calcagno
Kerr
Lindqvist

GEOCHEMICAL ANALYSIS REPORT

Tombstone District Recon
Cochise County, AZ

2922

CLIENT: Mr. Vince Calcagno
Homestake Mining Co.
155 Glendale Ave. Suite 18
Sparks, NV 89431 tel:702/331-6980

GSI JOB #: RXP-1S9753
SAMPLES: 34
PROJECT:
PRODUCT: RXP
P.O. #: 14527#1-4pgs.

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This report has been reviewed and approved by:

8/14/91

Michael Rogers, Quality Assurance

Date

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NEVADA GSI GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

GSI JOB # RXP-1S9753

LABORATORY: Geochemical Services, Inc.
NO. SAMPLES: 34
SAMPLE SIZE: 5.00g
NO. SAMPLE BLANKS: 6
NO. CONTROL SAMPLES: 2

ELEMENTS	DET. LIM.	UNITS	METHOD
Co	1.0000	ppm	ICP
Fe	1.0000	ppm	ICP
Mn	1.0000	ppm	ICP
Ni	1.0000	ppm	ICP
V	1.0000	ppm	ICP

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NEVADA GSI GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: RXP-159753

Sample ID	#	Co ppm ICP	Fe ppm ICP	Mn ppm ICP	Ni ppm ICP	V ppm ICP
309388	1	<.965	42.7K	51.9	2.23	12.2
3101	2	3.63	29.0K	413.	12.4	24.0
3106	3	2.07	38.1K	357.	2.31	15.7
3120	4	6.43	22.6K	1017.	11.1	35.6
3135	5	13.2	24.9K	3333.	14.5	40.4
3136	6	18.7	26.0K	1190.	15.0	34.2
3138	7	7.73	25.0K	632.	17.7	36.3
3146	8	<.965	31.4K	50.8	2.05	10.8
317188	9	7.06	31.4K	645.	8.01	78.7
317788	10	29.6	15.2K	>5.14K	23.0	27.6
3182	11	3.93	21.7K	958.	9.92	8.50
3191	12	4.29	19.0K	>5.28K	11.1	12.3
3200	13	25.1	144.K	2826.	4.61	7.75
3205	14	<.958	26.7K	17.6	1.68	10.3
3208	15	<.949	47.9K	21.6	<.949	21.6
3209	16	<.916	23.6K	26.9	2.26	13.6
3215	17	<.960	98.5K	<.960	2.02	38.9
321888	18	<.940	155.K	34.9	<.940	8.89
321988	19	2.53	27.8K	759.	2.84	15.2
322288	20	<.945	51.7K	22.9	1.24	28.3
3225	21	1.90	38.2K	>5.24K	7.25	43.7
3226	22	3.85	8199.	933.	3.40	8.46
3229	23	1.64	31.3K	221.	<.919	5.14.
3230	24	6.58	145.K	65.9	6.39	46.5
323488	25	1.16	15.4K	332.	1.18	11.0
323588	26	<.929	45.8K	40.6	<.929	23.4
323688	27	<.945	50.1K	289.	<.945	7.89
301288	28	1.24	2948.	380.	1.98	3.89
301488	29	<.912	77.3K	37.5	3.69	55.1
301588	30	13.8	45.8K	1457.	9.39	63.2

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NEVADA GSI GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

#: RXP-159753

ple ID	#	Co ppm ICP	Fe ppm ICP	Mn ppm ICP	Ni ppm ICP	V ppm ICP
68E	31	2.32	48.5K	1257.	5.61	7.32
38B	32	12.2	24.9K	74.6	1.69	4.92
98E	33	9.48	12.0K	>5.30K	7.84	13.5
43E	34	<.947	24.6K	27.0	2.09	3.57

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NEVADA GSI GEOCHEMICAL SERVICES INC.

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Calcagno
Kern
Lindquist

GEOCHEMICAL ANALYSIS REPORT

Tombstone District Recon
Cochise County, AZ

2922

CLIENT: Mr. Vince Calcagno
Homestake Mining Co.
155 Glendale Ave. Suite 18
Sparks, NV 89431 tel:702/331-6980

GSI JOB #: HOG-1S9753
SAMPLES: 28
PROJECT:
PRODUCT: GXP
P.O. #: 14527#1-3pp.

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This report has been reviewed and approved by:

Michael Rogers, Quality Assurance

8/14/91
Date

NEVADA GSI GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

GSI JOB # HOG-1S9753

LABORATORY: Geochemical Services, Inc.
NO. SAMPLES: 28
SAMPLE SIZE: 5.00g
NO. SAMPLE BLANKS: 2
NO. CONTROL SAMPLES: 4

ELEMENTS	DET. LIM.	UNITS	METHOD
Ag	.0150	ppm	ICP
As	1.0000	ppm	ICP
Au	.0500	ppm	ICP
Cu	.0500	ppm	ICP
Hg	.1000	ppm	ICP
Mo	.1000	ppm	ICP
Pb	.2500	ppm	ICP
Sb	.2500	ppm	ICP
Tl	.5000	ppm	ICP
Zn	1.0000	ppm	ICP
Bi	.2500	ppm	ICP
Cd	.1000	ppm	ICP
Ga	.5000	ppm	ICP
Se	1.0000	ppm	ICP
Te	.5000	ppm	ICP

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NEVADA GSI
GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: HOG-1S9753

Sample ID	#	Ag ppm ICP	As ppm ICP	Au ppm ICP	Cu ppm ICP	Hg ppm ICP	Mo ppm ICP	Pb ppm ICP	Sb ppm ICP	Tl ppm ICP	Zn ppm ICP	Bi ppm ICP	Cd ppm ICP	Ga ppm ICP	Se ppm ICP	Te ppm ICP
3101	1	6.40	237.	.727	13.7	.248	2.27	6.20	9.80	1.23	1123.	.235	14.8	4.93	<.914	.466
3106	2	55.1	302.	1.22	45.9	.416	3.83	1467.	11.9	1.46	323.	<.245	14.6	1.93	16.1	59.4
3120	3	1.28	71.6	.416	34.3	<.097	1.65	193.	1.78	.671	273.	<.243	1.78	3.71	<.973	13.0
3135	4	.924	104.	.111	83.4	<.100	2.60	70.2	1.69	<.498	256.	.332	3.51	3.26	<.996	13.5
3136	5	14.9	135.	1.56	90.8	<.097	2.52	322.	3.93	2.03	368.	<.243	1.31	5.29	1.90	17.2
3146	6	26.1	230.	.366	17.7	<.097	9.20	194.	9.91	<.483	82.1	<.241	.419	1.63	<.965	5.32
3171BB	7	15.9	178.	.389	260.	.213	3.64	2076.	329.	<.496	888.	<.248	7.22	3.25	6.76	198.
3177BB	8	1.11	115.	.481	82.9	<.093	<.093	552.	7.99	10.4	14.4K	<.234	11.0	2.80	<.935	<.467
3182	9	12.5	88.3	<.047	148.	<.093	3.29	157.	71.3	<.466	679.	.271	3.50	1.88	<.933	<.466
3191	10	27.0	199.	.404	526.	<.096	7.42	2262.	90.9	<.480	11.3K	<.240	7.32	1.99	<.960	30.8
3200	11	128.	804.	4.32	366.	<.095	55.8	2538.	68.0	4.21	876.	1.59	2.59	1.44	9.27	248.
3205	12	.098	7.27	<.048	4.41	<.096	4.11	14.5	.430	<.479	<.958	.551	<.096	1.12	<.958	.676
3208	13	.248	10.7	<.047	8.67	<.095	8.18	16.8	.556	<.474	3.25	.505	<.095	1.57	<.949	.751
3209	14	.237	11.9	<.046	4.33	<.092	22.5	34.8	.309	.478	2.71	1.22	<.092	1.95	<.916	.495
3215	15	.113	7.30	<.048	10.6	<.096	9.39	27.8	<.240	<.480	2.59	<.240	<.096	5.02	<.960	<.480
3138	16	7.46	112.	.587	199.	<.098	2.42	878.	11.3	1.24	684.	.445	3.11	7.04	<.984	352.
3219BB	17	8.38	250.	<.049	212.	.486	18.8	4962.	399.	<.486	331.	.725	1.72	<.486	1.23	1.39
3222BB	18	.199	7.49	<.047	5.25	<.095	7.39	33.8	.674	<.473	2.38	1.07	<.095	.660	3.07	2.00
3229	19	.547	86.3	<.046	35.4	<.092	3.24	502.	9.44	<.460	1761.	<.230	7.19	<.460	2.12	.476
3235BB	20	6.25	145.	<.046	72.5	<.093	6.23	1662.	48.1	<.465	71.3	.406	.254	<.465	.993	<.465
3236BB	21	5.85	56.5	<.047	16.4	<.095	11.1	896.	19.5	<.473	388.	2.28	1.01	<.473	1.80	1.39
3012BE	22	.079	4.64	<.046	8.71	<.092	1.19	14.7	.577	<.460	16.9	.539	.242	5.05	<.919	<.460
3014BE	23	96.4	334.	1.07	94.7	.150	4.16	3255.	84.9	<.456	450.	<.228	6.71	1.78	1.35	41.5
3015BE	24	31.8	200.	<.047	79.0	<.095	4.34	372.	13.7	1.42	591.	<.237	4.45	3.10	1.52	1.27
3193BB	25	219.	899.	.412	961.	1.00	3.04	4248.	231.	<.480	1461.	<.240	7.48	.539	44.7	136.
3024BE	26	58.7	112.	.119	204.	<.095	3.79	1428.	28.1	<.473	157.	<.237	.879	<.473	6.97	2.45
3226	27	.308	6.18	<.046	14.9	<.093	1.47	19.2	.954	<.463	37.1	.282	.532	1.99	<.926	<.463
3234BB	28	.445	6.71	<.047	5.67	<.094	5.15	10.8	.383	<.470	41.1	.419	.220	3.45	<.940	<.470

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NEVADA

GEOCHEMICAL SERVICES INC.

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GEOCHEMICAL ANALYSIS REPORT

Tombstone Dist. Recon.
Cochise AZ 2922

File
Barber
Calcagno
Kern
Lindquist

CLIENT: Mr. Vince Calcagno
Homestake Mining Co.
155 Glendale Ave. Suite 18
Sparks, NV 89431 tel:702/331-6980

GSI JOB #: HIA-1S9460
SAMPLES: 6
PROJECT:
PRODUCT: GXP-HIV
P.O. #: 14527#1

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This report has been reviewed and approved by:

8/16/91

Michael Rogers, Quality Assurance — Date

1498 Kleppe Lane • Sparks, NV 89431 • 702/353-5400 • FAX: 702/359-6605

NEVADA GSI GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

GSI JOB # HIA-1S9460

LABORATORY: Geochemical Services, Inc.
NO. SAMPLES: 6
SAMPLE SIZE: 1.00g
NO. SAMPLE BLANKS: 1
NO. CONTROL SAMPLES: 2

ELEMENTS	DET. LIM.	UNITS	METHOD
Ag	.0150	ppm	ICP
As	1.0000	ppm	ICP
Au	.0500	ppm	ICP
Cu	.0500	ppm	ICP
Hg	.1000	ppm	ICP
Mo	.1000	ppm	ICP
Pb	.2500	ppm	ICP
Sb	.2500	ppm	ICP
Tl	.5000	ppm	ICP
Zn	1.0000	ppm	ICP
Bi	.2500	ppm	ICP
Cd	.1000	ppm	ICP
Ga	.5000	ppm	ICP
Se	1.0000	ppm	ICP
Te	.5000	ppm	ICP

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NEVADA

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: WIA-159460

Sample ID	#	Ag ppm ICP	As ppm ICP	Au ppm ICP	Cu ppm ICP	Hg ppm ICP	Mo ppm ICP	Pb ppm ICP	Sb ppm ICP	Tl ppm ICP	Zn ppm ICP	Bi ppm ICP	Cd ppm ICP	Ga ppm ICP	Se ppm ICP	Te ppm ICP
309388	1	53.2	318.	.530	714.	1.55	4.56	7877.	41.1	6.07	160.	<2.45	5.09	<4.90	53.3	57.9
321888	2	63.2	1523.	<.472	114.	2.19	255.	58.4K	1453.	7.19	59.7	15.4	<.943	8.87	12.5	10.8
322588	3	301.	4116.	1.73	2994.	10.8	381.	49.1K	3502.	11.6	29.7K	4.03	487.	23.4	31.8	649.
323088	4	42.6	488.	<.463	1605.	3.85	24.8	71.9K	48.3	<4.63	2282.	11.6	10.0	9.31	19.8	13.1
301688E	5	16.2	370.	1.16	446.	2.01	10.1	38.5K	358.	<4.67	11.5K	<2.34	119.	<4.67	79.1	140.
301988E	6	240.	741.	2.02	31.5K	<.952	16.2	27.9K	1598.	5.26	118.K	<2.38	723.	<4.76	16.2	86.5

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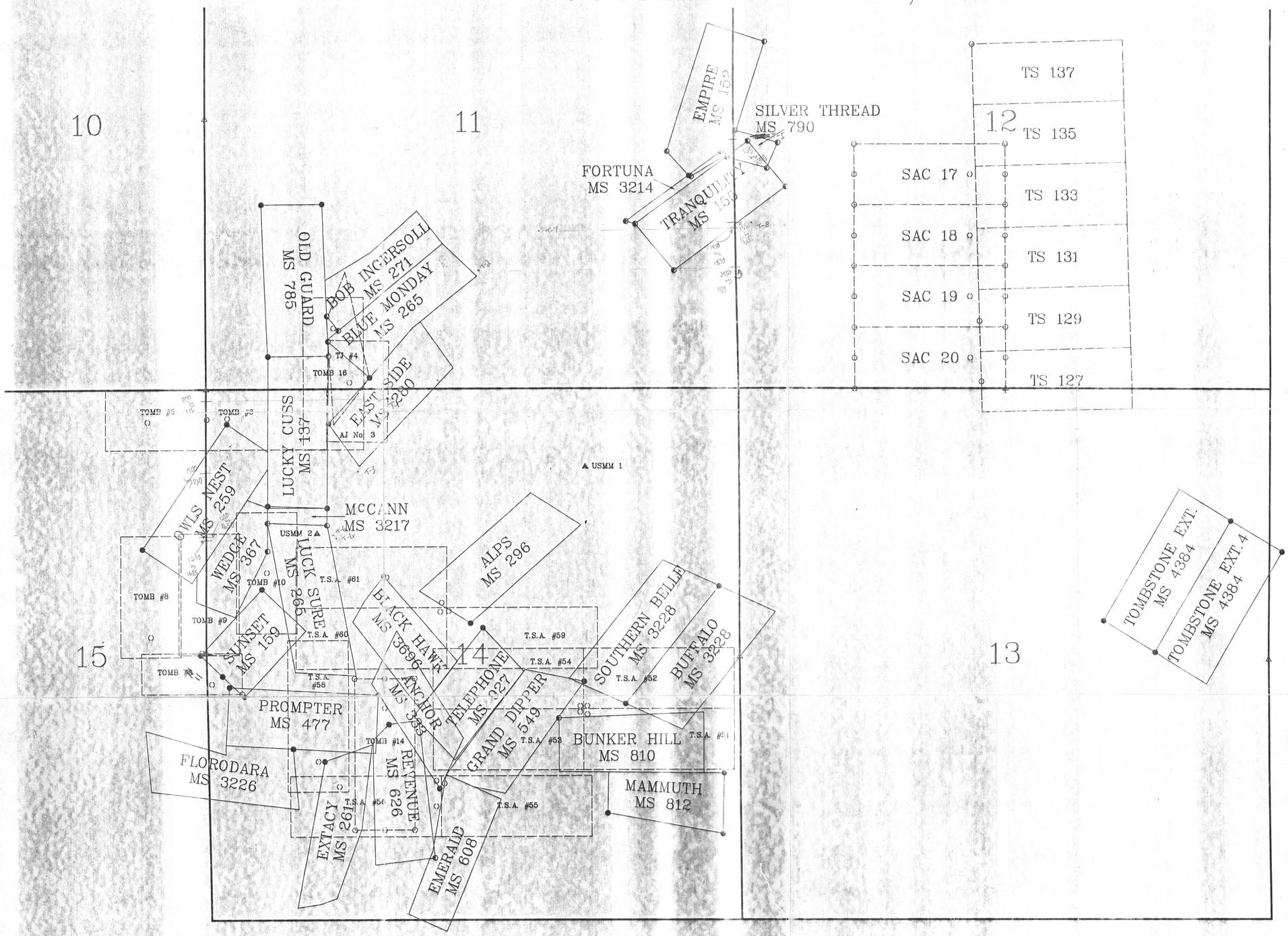
A MAP OF THE TOMBSTONE PROJECT
T. 20 S., R. 22 E., G & SRM
COCHISE COUNTY, ARIZONA

4 monuments by MHS 11/11/99



NOTE: All section lines are projected.

BASIS OF BEARING: The bearing between USMM 2 and USMM 1 as determined by SOLAR observation is N. 76°21'35" E.

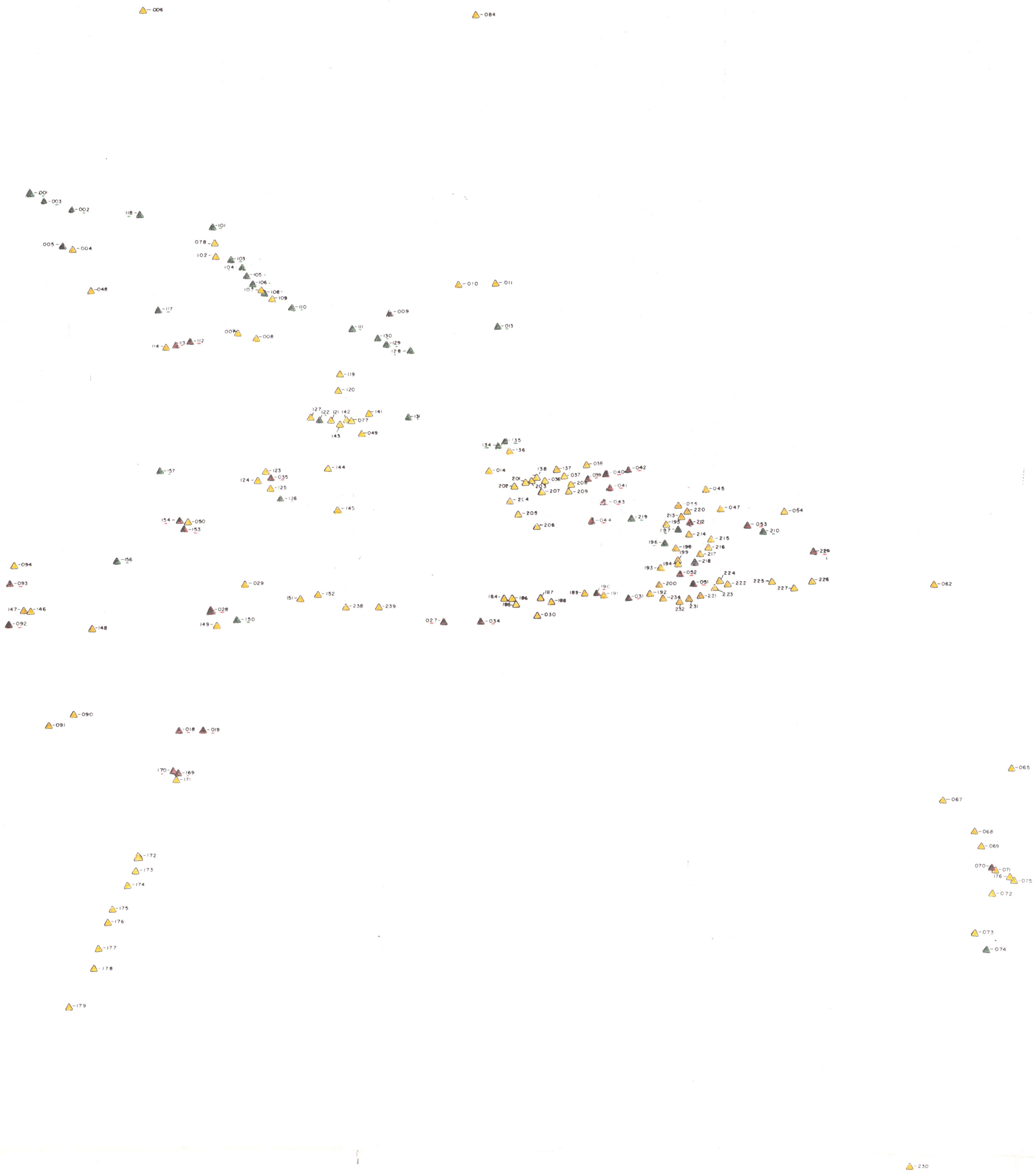
LEGEND

- ● PATENT CORNERS FOUND AND SURVEYED.
- ○ CLAIM CORNERS OR LOCATIONS FOUND AND SURVEYED OR SET.
- ◐ PATENT CORNERS SET BY SCHAAF AND ASSOCIATES.
- △ SECTION OR QUARTER CORNERS FOUND – STONE.
- ▲ MINERAL MONUMENTS.

SANTE FE PACIFIC MINING INC.

BOX 27019
ALBUQUERQUE, NEW MEXICO
87125

D.H.			
D.H.	1"=500'	J8816	1 1



L E G E N D

△ = Sample Location
(001 → 100, mostly dump)
(101 → 239, mostly outcrop)

Ag Assay Values (opt)

- < 1.0
- 1.0 - 10.0
- > 10.0

N

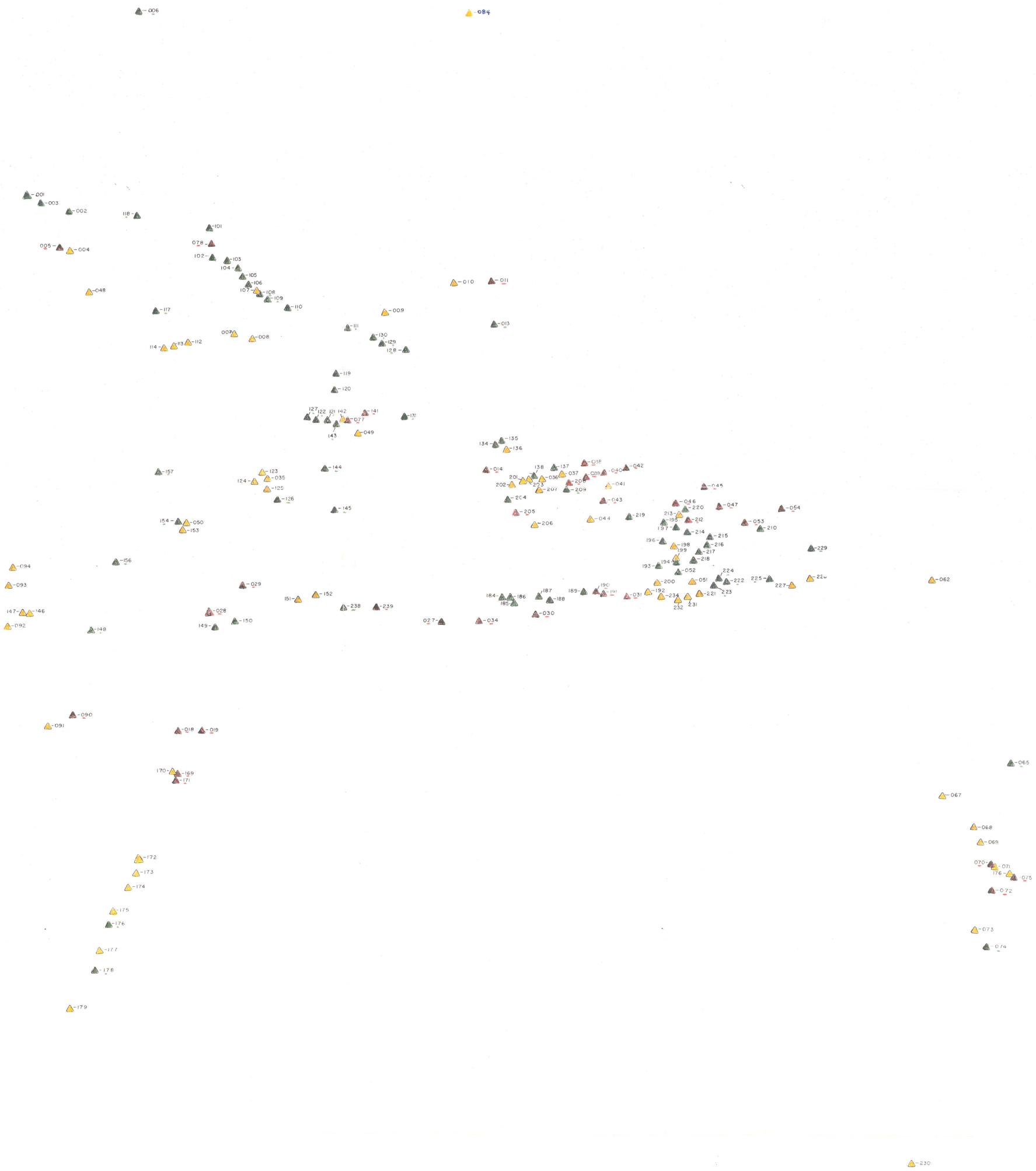
SCALE 1" = 200'

0 100 200 400
F E E T

Sample Location Map

TOMBSTONE-WEDGE PROJECT

PLATE II

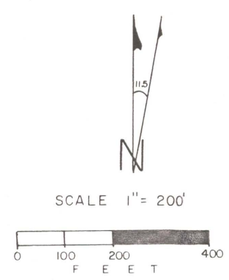


L E G E N D

△ = Sample Location
(001 → 100, mostly dump)
(101 → 239, mostly outcrop)

Au Assay Values (opt)

- < .002
- .002 → < .01
- .01 or >

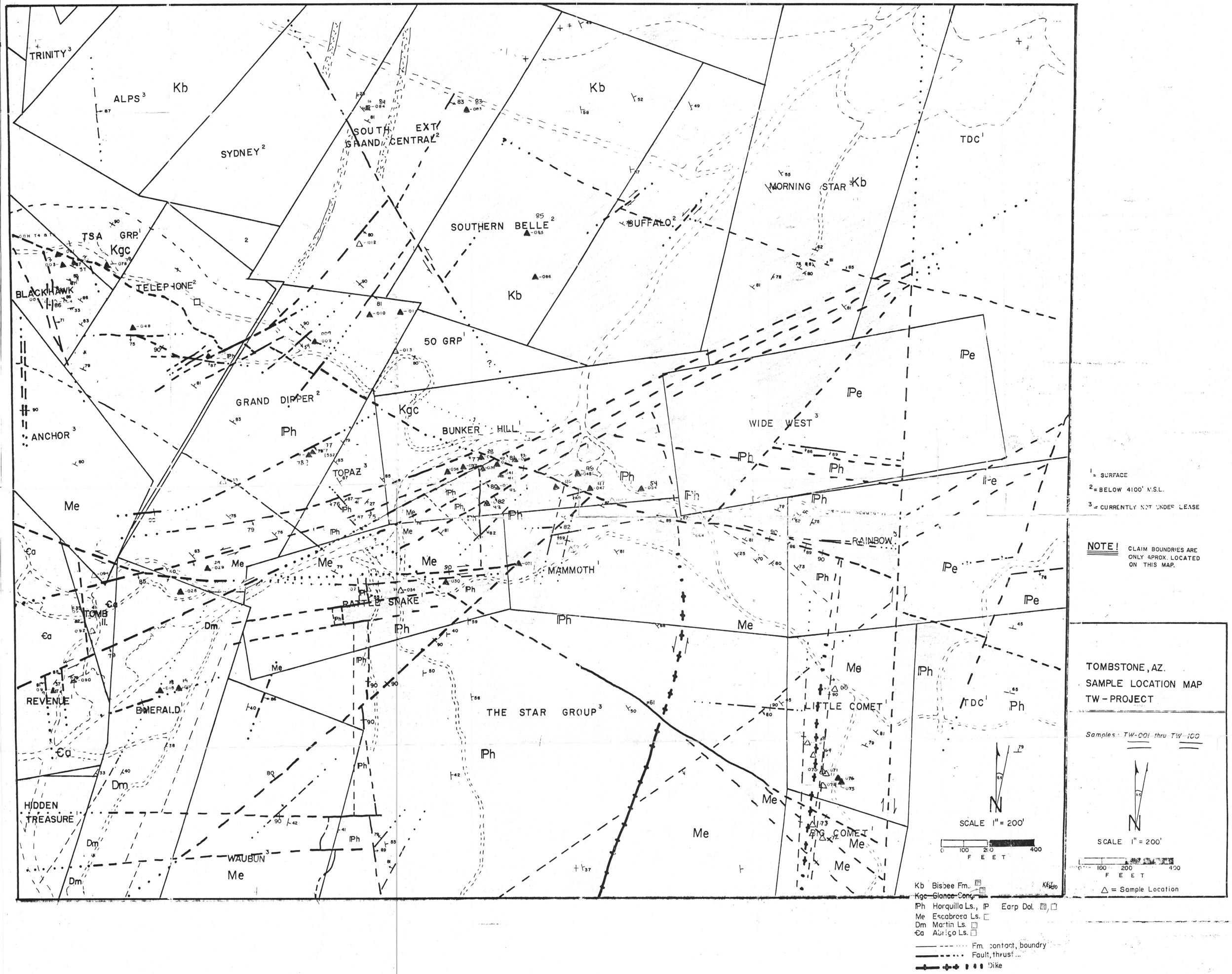


Sample Location Map

TOMBSTONE-WEDGE PROJECT

PLATE III

Tombstone, Az. General Lithology & Structure of the TW project



R 22 E

T 20 S

Tombstone

Lucky Hills Stock Ranch

Military Hill

Substation

City Limits

Townsite Patent

Tombstone Development Co.

TS Claims (Loc. 9-6-81)

Tombstone Development Co.

CLOSED TO MINING

NEW YEARS GIFT 248 (Warren A. Sellstrom trust, et al)

LALLA ROOK 457 (Multiple owners)

MOUNTAIN MAID 232 (Multiple owners)

JENNIE BELL 539 (Warren A. Sellstrom trust, et al)

LITTLE TOM 538 (Warren A. Sellstrom trust, et al)

KATE (Will Brown) (Loc. 7-1-54)

JEAN (Will Brown) (Loc. 7-1-54)

MARION (Will Brown) (Loc. 7-1-54)

MATTIA (Will Brown) (Loc. 7-1-54)

SHOOFLY 3227

ANTELOPE 3227

T.D.C. Patented and TSA unpatented Claims leased to SFPM (all depths 3-033-0001)

T.D.C. Claims leased to SFPM (below 4100 feet sea level) 3-033-0001

T.D.C. Claims leased to B.P.R. Minerals (Surface to 4100 feet sea level)

SFPM Tomb & SAC Claims - SFPM 3-033-0002

A. Clark - SFPM3-033-0003 (Ace & Dakota Lodes)

Scott Lewis

Wayne Winters

Lewis & Winters, TJ 1-7

Helday - SFPM 3-033-0005 (Jessies Lode)

Escapule - SFPM 3-033-0006 (Baker et al)

Joe Graves AJ-3 (SFPM 3-003-0004)

Alta 289 — Patented claim with patented number

Unpatented claim, approximate location

N

Santa Fe Pacific Mining, Inc.

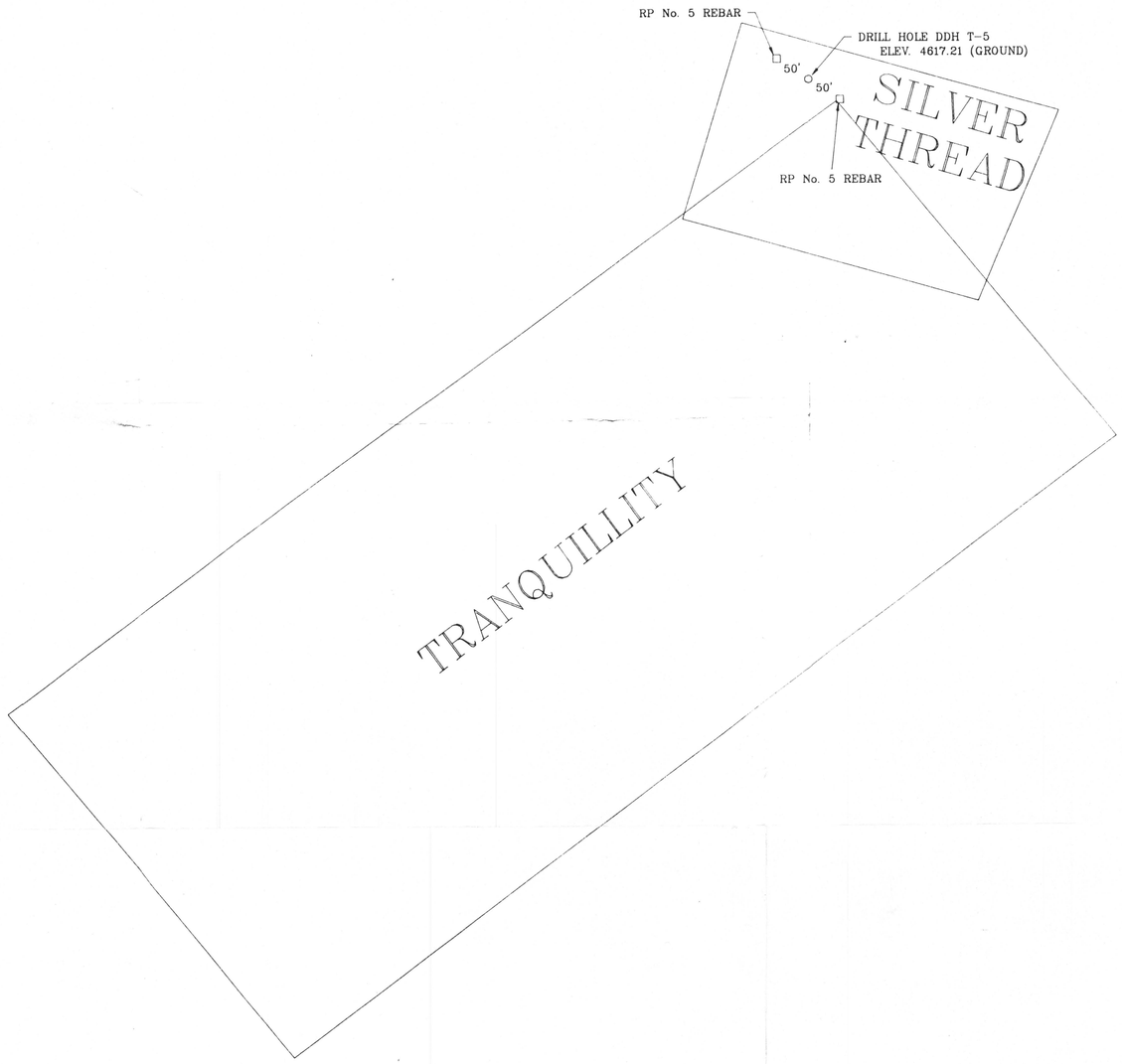
Albuquerque, New Mexico

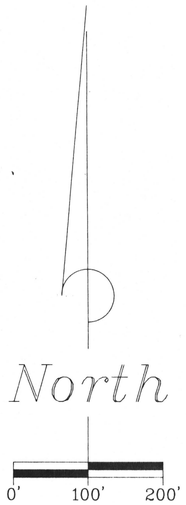
TOMBSTONE AREA LAND STATUS

Revisions By	Date
BB	10-2-78
BB	1-9-88
BB	2-5-89
BB	1-31-89
BB	6-1-88
BB	7-6-88
BB	8-12-88
BB	10-3-88
BB	10-14-88

Scale: 1" = 500'	Data by	State Arizona	Date 10-11-87
	Drawn by B. Bone	County Cochise	File No. K-8

A MAP OF
DRILL HOLE DDH T-5





RP'S FOR DDH T-5 DRILL HOLE ARE N. 57° W., 50 FT. AND S. 57° E., 50 FT.

SANTA FE PACIFIC MINING INC.

BOX 27019
ALBUQUERQUE, NEW MEXICO
87125

E. SCHAAF & ASSOCIATES
361 PALMER DELTA, COLORADO R.L.S. 12457 — U.S. MINERAL SURVEYOR

SURVEYED BY	DATE	CKD. by	
D.H.			
DRAWN BY	SCALE	ACCT. NO.	SHEET
D.H.	1"=200'	J8816A1F	1 OF 1

97• N END CTR., BIG COMIT LODE, M.S. 3224, MONUMENTED WITH A 4x4 INS. POST, FIRMLY SET AND PROPERLY MKD., IDENTICAL WITH S. END CTR., LITTLE COMET LODE, M.S. 3224.

99 COR. NO. 6, MAMMOTH LODE, M.S. 812, MONUMENTED WITH UNMARKED 4x4 INS. POST, IDENTICAL WITH COR. NO. 5, RATTLESNAKE LODE, M.S. 811.

110 COR. NO. 1, MAMMOTH LODE, M.S. 812, MONUMENTED WITH A 4.5x2 FT. HIGH ROCK MOUND, IDENTICAL WITH COR. NO. 4, RATTLESNAKE LODE, M.S. 811.

112 COR. NO. 2, MAMMOTH LODE, M.S. 812, MONUMENTED WITH A 4x2 FT. HIGH ROCK MOUND, IDENTICAL WITH COR. NO. 3, RATTLESNAKE LODE, M.S. 811.

114 COR. NO. 1, BUNKER HILL LODE, M.S. 810, MONUMENTED WITH A 4x2 FT. HIGH ROCK MOUND, IDENTICAL WITH COR. NO. 1, TOPAZ LODE, M.S. 875.

120 COR. NO. 2, BUNKER HILL LODE, M.S. 810, MONUMENTED WITH AN A.C.P. MKD., "COR. 2", FIRMLY SET ALONGSIDE A 2x2 INS. POST, IDENTICAL WITH COR. NO. 6, TOPAZ LODE, M.S. 875.

124 COR. NO. 4, SOUTH EXT. GRAND CENTRAL LODE, M.S. 144, MONUMENTED WITH AN A.C.P. MKD., "MORIA 84002 A-144 ALS 14217", FIRMLY SET IN A 7x3x1 FT. HIGH ROCK MOUND.

127 COR. NO. 8, GRAND DIPPER LODE, M.S. 540, MONUMENTED WITH A 6x6 INS. POST, NO MARKINGS, IN A 5x7 FT. HIGH ROCK MOUND.

128 COR. NO. 3, TELEPHONE LODE 927, MONUMENTED WITH A 4.5x3 FT. HIGH ROCK MOUND.

130 COR. NO. 4, TELEPHONE LODE 927, MONUMENTED WITH A 4x4 INS. POST, (NO MARKINGS), LYING ON A 4x2 FT. HIGH ROCK MOUND.

132 COR. NO. 5, TELEPHONE LODE 927, MONUMENTED WITH A 4x4 INS. POST, FIRMLY SET, (NO MARKINGS), IN A 3x2 FT. HIGH ROCK MOUND.

136 COR. NO. 2, GRAND DIPPER LODE, M.S. 540, MONUMENTED WITH AN A.C.P., MKD., "COR 2", FIRMLY SET IN A 4.5x1.5 FT. HIGH ROCK MOUND, LYING ALONGSIDE IS AN UNMARKED 6x6 INS. POST.

138• COR. NO. 3, GRAND DIPPER LODE, M.S. 540, MONUMENTED WITH A 6x6 INS. POST, FIRMLY SET AND PROPERLY MKD., IN A 4x2 FT. HIGH ROCK MOUND.

140 COR. NO. 2, RATTLESNAKE LODE, M.S. 811, MONUMENTED WITH A 4x4 INS. POST, (NO MARKINGS), LOOSELY SET IN A 4x2 FT. HIGH ROCK MOUND, IDENTICAL WITH COR. NO. 4, GRAND DIPPER LODE, M.S. 540.

147• COR. NO. 7, GRAND DIPPER LODE, M.S. 540, MONUMENTED WITH A 6x6 INS. POST, FIRMLY SET AND PROPERLY MKD. IN A 5x3 FT. HIGH ROCK MOUND, IDENTICAL WITH COR. NO. 3, EMERALD LODE, M.S. 608.

154 COR. NO. 4, MAMMOTH LODE, M.S. 812, MONUMENTED WITH A 5x2 FT. HIGH ROCK MOUND, IDENTICAL WITH A 5x2 FT. HIGH ROCK MOUND, IDENTICAL WITH COR. NO. 1, RAINBOW LODE, M.S. 817.

158• COR. NO. 3, MAMMOTH LODE, M.S. 812, MONUMENTED WITH A 4x4 INS. POST, FIRMLY SET AND PROPERLY MKD. IN A 4x2 FT. HIGH ROCK MOUND.

160 COR. NO. 6, RAINBOW LODE, M.S. 817, MONUMENTED WITH A 5x2 FT. HIGH SCATTERED ROCK MOUND.

162 COR. NO. 3, LITTLE COMET LODE, M.S. 3224, MONUMENTED WITH A 5x1.5 FT. HIGH ROCK MOUND.

166 COR. NO. 7, WIDE WEST LODE, M.S. 759, MONUMENTED WITH A 1x2 INS. STAKE, FIRMLY SET IN A 3.5x1.5 FT. HIGH SCATTERED ROCK MOUND.

168 COR. NO. 2, WIDE WEST LODE, M.S. 759, MONUMENTED WITH A 4.5x1.5 FT. HIGH ROCK MOUND.

170• COR. NO. 2, BUFFALO LODE, M.S. 3228, MONUMENTED WITH AN A.C.P., MKD., "MORIA 23228, BUFFALO 84002, ALS 14217", FIRMLY SET AT SOUTH EDGE OF 3x1.5 FT. HIGH ROCK MOUND, LYING ALONGSIDE IS A 4x4 INS. POST, PROPERLY MKD.

172 COR. NO. 3, WIDE WEST LODE, M.S. 759, MONUMENTED WITH AN A.C.P., "WWMC NO. 3, LS 4968", FIRMLY SET IN CONCRETE AT CTR. OF A 5x1 FT. HIGH SCATTERED ROCK MOUND.

174 COR. NO. 3, MORNING STAR LODE, M.S. 795, MONUMENTED WITH AN A.C.P., MKD., "MSMC NO. 3, LS 4968", FIRMLY SET IN A 5x1 FT. HIGH ROCK MOUND.

176 COR. NO. 3, BUNKER HILL LODE, M.S. 810, MONUMENTED WITH A 4x4 INS. POST, (NO MARKINGS), LYING ON A 5x2 FT. HIGH ROCK MOUND.

180 COR. NO. 2, MORNING STAR LODE, M.S. 795, MONUMENTED WITH A 3x1 FT. HIGH SCATTERED ROCK MOUND, FROM WHICH AN A.C.P., MKD., "MSMC NO. 7, LS 4968", BEARS S 62°25'45" W, 260.37 FT. DIST.

182 COR. NO. 7, MORNING STAR LODE, M.S. 795, MONUMENTED WITH A 1x2 INS. STAKE IN A 4 FT. SCATTERED ROCK MOUND.

187 THE 1/4 COR. BETWEEN SEC.S. 13 AND 14, MONUMENTED WITH A 7x3x6 INS. HIGH STONE, PROPERLY MKD. AND LOOSELY SET AT CTR. OF A 3.5x1 FT. HIGH ROCK MOUND, 5 FT. WEST IS A 3x1 FT. HIGH ROCK MOUND.

194 COR. NO. 4, BIG COMIT LODE, M.S. 3224, MONUMENTED WITH A 4.5x3 FT. HIGH ROCK MOUND, IDENTICAL WITH COR. NO. 2, LITTLE COMET LODE, M.S. 3224.

196 COR. NO. 1, BIG COMIT LODE, M.S. 3224, MONUMENTED WITH A 4 FT. SCATTERED ROCK MOUND, IDENTICAL WITH COR. NO. 1, LITTLE COMET LODE, M.S. 3224.

198 THE SECTION COR. COMMON FOR SEC.S. 13, 14, 23 AND 24, MONUMENTED WITH AN 8x8 INS. LIMESTONE ROCK, 8 INS. ABOVE GROUND, FIRMLY SET AND PROPERLY MKD., 3 FT. WEST IS A 5 FT. SCATTERED ROCK MOUND.

200 COR. NO. 3, GREAT CARBONATE LODE, M.S. 2613, MONUMENTED WITH A 4.5x3.5 FT. HIGH ROCK MOUND.

202 COR. NO. 4, GREAT CARBONATE LODE, M.S. 2613, MONUMENTED WITH A 3x1 FT. HIGH ROCK MOUND, LYING ALONGSIDE IS AN UNMARKED 4x4 INS. POST.

205 COR. NO. 5, GREAT CARBONATE LODE, M.S. 2613, MONUMENTED WITH A 4x4 INS. POST, (NO MARKINGS), LOOSELY SET IN A 4x2 FT. HIGH ROCK MOUND.

214 COR. NO. 2, SOUTHERN BELLE LODE, M.S. 3228, MONUMENTED WITH AN A.C.P., MKD., "COR 2", FIRMLY SET IN A 4x2.5 FT. HIGH ROCK MOUND, IDENTICAL WITH COR. NO. 3, BUFFALO LODE, M.S. 3228.

218 COR. NO. 6, WIDE WEST LODE, M.S. 759, MONUMENTED WITH A 1x1 INS. REBAR IN A 6 FT. SCATTERED ROCK MOUND, LYING ALONGSIDE IS AN UNMARKED 4x4 INS. POST.

220 COR. NO. 4, WIDE WEST LODE, M.S. 759, MONUMENTED WITH A 1x1 INS. REBAR, AN A.C.P., MKD., "WWMC NO. 4, LS 4968", FIRMLY SET IN A 5x1 FT. HIGH ROCK MOUND, LYING ALONGSIDE IS AN UNMARKED 4x4 INS. POST.

222 COR. NO. 5, WIDE WEST LODE, M.S. 759, MONUMENTED WITH A 1x1 INS. REBAR, AN A.C.P., MKD., "WWMC NO. 5, LS 4968", AT THE WEST EDGE OF A 4x1 FT. HIGH ROCK MOUND, LYING ALONGSIDE IS AN UNMARKED 4x4 INS. POST.

226 COR. NO. 3, BIG COMIT LODE, M.S. 3224, MONUMENTED WITH AN A.C.P., MKD., COR. NO. 5, FIRMLY SET IN A 4x1.5 FT. HIGH ROCK MOUND, IDENTICAL WITH COR. NO. 3, MINERS DREAM LODE, M.S. 3224.

228 S. END CTR., BIG COMIT LODE, M.S. 3224, MONUMENTED WITH A 4x1.5 FT. HIGH ROCK MOUND, IDENTICAL WITH THE N. END CTR., MINERS DREAM LODE, M.S. 3224.

230 COR. NO. 4, RATTLESNAKE LODE, M.S. 811, MONUMENTED WITH A 5x1 FT. HIGH ROCK MOUND, LYING ALONGSIDE IS AN UNMARKED 4x4 INS. POST.

232 COR. NO. 1, RATTLESNAKE LODE, M.S. 811, MONUMENTED WITH A 3x1 FT. HIGH ROCK MOUND.

234 COR. NO. 8, EMERALD LODE, M.S. 608, MONUMENTED WITH A 4x4 INS. POST, MKD., SE M (OTHER MARKINGS ILLEGIBLE), FIRMLY SET IN A 5 FT. SCATTERED ROCK MOUND.

237 COR. NO. 4, EMERALD SOUTH LODE, M.S. 3712, MONUMENTED WITH A 4x4 INS. POST, (MARKINGS ILLEGIBLE), LOOSELY SET IN A 3x1.5 FT. HIGH ROCK MOUND, IDENTICAL WITH COR. NO. 4, EMERALD LODE, M.S. 608.

238• COR. NO. 3, EMERALD SOUTH LODE, M.S. 3712, MONUMENTED WITH A 4x4 INS. POST, FIRMLY SET AND PROPERLY MKD., IN A 4x1.5 FT. HIGH ROCK MOUND.

239 THE 1/4 COR. BETWEEN SEC.S. 13 AND 24, MONUMENTED WITH A 10x10 INS. LIMESTONE ROCK, 4 INS. ABOVE THE GROUND, FIRMLY SET AND PROPERLY MKD., 5 FT. NORTH IS A 4x2 FT. HIGH ROCK MOUND.

240 COR. NO. 2, EMERALD SOUTH LODE, M.S. 3712, MONUMENTED WITH A 5 FT. SCATTERED ROCK MOUND.

24 COR. NO. 1, EMERALD SOUTH LODE, M.S. 3712, MONUMENTED WITH A 6x6 INS. POST, (MARKINGS ILLEGIBLE), FIRMLY SET IN A 6x4 FT. HIGH ROCK MOUND, IDENTICAL WITH COR. NO. 6, EMERALD LODE, M.S. 608.

242 COR. NO. 4, MORNING STAR LODE, M.S. 795, MONUMENTED WITH AN A.C.P., MKD., "MSMC NO. 4, LS 4968", FIRMLY SET IN A 6 FT. SCATTERED ROCK MOUND.

243 COR. NO. 6, MORNING STAR LODE, M.S. 795, MONUMENTED WITH AN A.C.P., MKD., "MS 795 COR. 6, LS 4968", FIRMLY SET, 3 FT. WEST IS A 3x1 FT. HIGH ROCK MOUND.

244• COR. NO. 1, BUFFALO LODE, M.S. 3228, MONUMENTED WITH A 4x4 INS. POST, FIRMLY SET AND PROPERLY MKD., IN A 4x2 FT. HIGH ROCK MOUND.

245 COR. NO. 2, TELEPHONE LODE, M.S. 927, MONUMENTED WITH A 4x4 INS. POST, (MARKINGS ILLEGIBLE), FIRMLY SET IN A 3x2 FT. HIGH ROCK MOUND.

246 COR. NO. 6, BUNKER HILL LODE, M.S. 810, MONUMENTED WITH A 5x1 FT. HIGH ROCK MOUND, IDENTICAL WITH COR. NO. 2, TOPAZ LODE, M.S. 875.

252 COR. NO. 1, GRAND DIPPER LODE, M.S. 540, MONUMENTED WITH A SCATTERED ROCK MOUND.

258 COR. NO. 4, TELEPHONE LODE, M.S. 927, MONUMENTED WITH A 4x2.5 FT. HIGH ROCK MOUND.

260 COR. NO. 5, TELEPHONE LODE, M.S. 927, MONUMENTED WITH A 4x4 INS. POST, (MARKINGS ILLEGIBLE), FIRMLY SET IN A 3x2 FT. HIGH ROCK MOUND.

266 COR. NO. 2, RAINBOW LODE, M.S. 817, MONUMENTED WITH A 6x2 FT. HIGH ROCK MOUND, LYING ALONGSIDE IS AN UNMARKED 4x4 INS. POST, IDENTICAL WITH COR. NO. 5, MAMMOTH LODE, M.S. 812.

268 COR. NO. 4, LITTLE COMET LODE, M.S. 3224, MONUMENTED WITH A 3x1.5 FT. HIGH ROCK MOUND, REMAINS OF POST LYING ALONGSIDE.

271 COR. NO. 6, SOUTH EXT. GRAND CENTRAL LODE, M.S. 144, MONUMENTED WITH A 6 FT. SCATTERED ROCK MOUND.

(573.4') DENOTES RECORD DISTANCE

● DENOTES COR. FOUND AS DESCRIBED

SURVEYED & PLATTED DURING JULY & AUGUST 1990

GORDON McLAIN, U.S. MINERAL SURVEYOR

9-6-90

1" = 200'

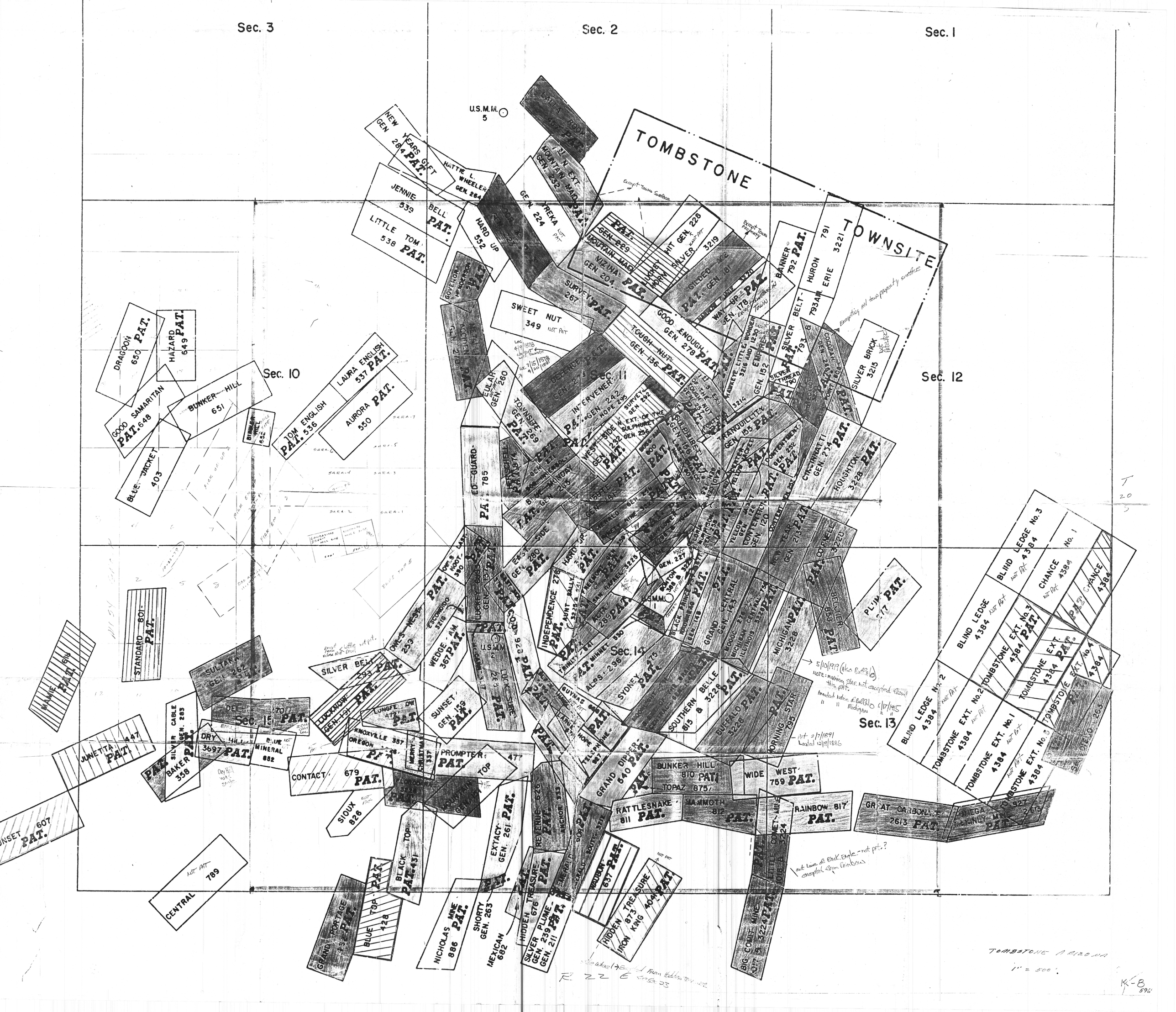
RESULTS OF SURVEY

SANTA FE PACIFIC MINING, INC.

TOMBSTONE PROJECT

COCHISE COUNTY, ARIZONA

McLAIN HARBERS CO., INC. 720 W. PRINCE RD. TUCSON, ARIZONA 85705	DATE: AUGUST 1990 SCALE: 1" = 200' DRAWN BY: L.W.	JOB NO. 1356-5


Sec. 3
Sec. 2
Sec. 1
Sec. 10
Sec. 11
Sec. 12
Sec. 13
Sec. 14
Sec. 15
TOMBSTONE
TOWNSITE
Except Town Surface
Excepting all town property surface
U.S.M.M. 5
U.S.M.M. 1
U.S.M.M. 2
NEW YEARS GIFT GEN 284 PAT.
HATTIE L. WHEELER GEN 264
JENNIE 339
BELL PAT.
LITTLE TOM 538 PAT.
HARD UP 552
GOVERNOR WOODSON 339 PAT.
SWEET NUT 349 NOT PAT
DRAGOON 650 PAT.
HAZARD 649 PAT.
GOOD SAMARITAN PAT. 648
BUNKER HILL 651
BLUE JACKET 403
LAURA ENGLISH 537 PAT.
TOM ENGLISH PAT. 536
AURORA PAT. 550
STANDARD 801 PAT.
MAINE 610 PAT.
SULTANA GEN 262 PAT.
SILVER BELL 293 PAT.
LUCKNOW GEN 131 PAT.
SILVER CABLE GEN. 283
BAKER PAT. 358
DRY HILL 3697 PAT.
BLUE MINERAL 882
JUNETTA 647 PAT.
CONTACT 679 PAT.
KNOXVILLE 357
OREGON PAT.
MERRY CHRISTMAS 337
PROMPTER PAT. 477
SIOUX 826
BLACK TOP PAT. 431
BLUE TOP 428
GRAND PORTAGE PAT.
CENTRAL 789
NICHOLAS MINE PAT. 886
SHORTY GEN. 263
MEXICAN 682
EXTACY GEN. 261 PAT.
HIDDEN TREASURE 676
SILVER PLUME GEN. 239 PAT.
GEN. 211 PAT.
HIDDEN TREASURE 873
IRON KING 404 PAT.
WADDEN 637 PAT.
BIG COMET MINE 3224 PAT.
RATTLESNAKE 811 PAT.
MAMMOTH 812 PAT.
RAINBOW 817 PAT.
GREAT CATARACT 2613 PAT.
OMEGA PAT.
BUNKER HILL 810 PAT.
TOPAZ 875
WIDE WEST 759 PAT.
GRAND DIPPER 640 PAT.
MORNING STAR 795
BUFFALO PAT. 3228
SOUTHERN BELLE 815 & 3228
MICHIGAN PAT. 3228
GRAND CENTRAL GEN. 143
SYDNEY PAT. 275
ALSIS 296
MINNIE 330
INDEPENDENCE 278 PAT.
EAST SIDE GEN. 280 PAT.
HARD UP PAT.
ECONOMIST 3216
OWL'S NEST 253
WEDGE AM 367 PAT.
SUNSET GEN. 155 PAT.
LUCK SURE PAT.
LUCKY BOY GEN. 133 PAT.
OWL'S NEST 330
EULAR GEN. 260
TOWNSITE GEN. 269 PAT.
DEFIANCE GEN. 271 PAT.
INTERVENER GEN. 242 HOPE 235
WEST SIDE GEN. 232 PAT.
EXT. OF THE SULPHURET GEN. 232 GEN. 236
SURVEY GEN. 232
SURVEY PAT. 267
VIZIMA GEN. 204 PAT.
MOUNTAIN MAID GEN. 229 PAT.
GEN. 229
MOUNTAIN MAID GEN. 232 PAT.
MOUNTAIN MAID GEN. 224 PAT.
HATTIE A. POOL 187 PAT.
LUCKY BOY GEN. 228
HORN SILVER 3219
GOOD ENOUGH GEN. 278 PAT.
TOUGH NUT GEN. 136 PAT.
WAY UP GEN. 178 PAT.
GIDDEY JOE GEN. 181
BANNER 792 PAT.
HURON 791
ERIE 3221
SILVER BELT 793
SILVER BRICK 3215
EMPEROR GEN. 152 PAT.
MAHONEY LITTLE WONDER 3216 AND 1230
TRANQUILLITY GEN. 155 PAT.
CONTENTMENT GEN. 252 PAT.
CINCINNATI GEN. 234 PAT.
HOUSTON 3228 PAT.
CORNELIA 3220
BELLVERN 838 PAT.
PLUM 217 PAT.
BLIND LEDGE No. 3 4384
CHANCE No. 1 4384
BLIND LEDGE 4384 NOT PAT
TOMBSTONE EXT. No. 3 4384 PAT.
TOMBSTONE EXT. No. 4 4384
BLIND LEDGE No. 2 4384
TOMBSTONE EXT. No. 2 4384 NOT PAT
TOMBSTONE EXT. No. 1 4384 NOT PAT
TOMBSTONE EXT. No. 3 4384 NOT PAT
5/10/1917 (Aka Buffalo)
NOTE: mahoney stone not excepted from this pat.
Amended notice of Buffalo 6/17/1915
" " Michigan
Pat 2/7/1891
Located 10/19/1886
R. 22 E
T. 20 S.
TOMBSTONE ARIZONA
1" = 500'
K-8
596

R 22 E

T 20 S

Walnut

Tombstone

Comstock Hill

Boothill Cem

Lucky Hills Stock Ranch

Tombstone Gulch

Emerald Gulch

Aqueduct

Military Hill

Substation

City Park

City Limits

Townsite Patent

Tombstone Development Co.

TS Claims

CLOSED MINING

ALTA 289 Patented claim with patented number

Unpatented claim, approximate location

Area of interest

T.D.C. Claims leased to SFPM (all depths 3-033-001)

Scott Lewis

Wayne Winters

Lewis & Winters, TJ 1-5

A. Clark - SFPM 3-033-0003 (Ace & Dakota Lodes)

SFPM Tomb Claims - SFPM 3-033-0002

Helday lease (Jessies load)

T.D.C. Claims leased to B.P.R. Minerals (surface to 4100 feet sea level)

T.D.C. Claims leased to SFPM (below 4100 feet sea level)

Escapule lease Baker etal

Santa Fe Pacific Mining, Inc.

Albuquerque, New Mexico

Revisions	
By	Date
BB	12-8-87
BB	1-26-88
BB	2-15-88
BB	3-31-88
BB	4-19-88
BB	6-1-88
BB	7-6-88
BB	8-12-88
BB	10-3-88
BB	10-14-88

TOMBSTONE AREA LAND STATUS

preliminary

Scale: 1" = 500'

Data by

Drawn by B Bone

State Arizona

County Cochise

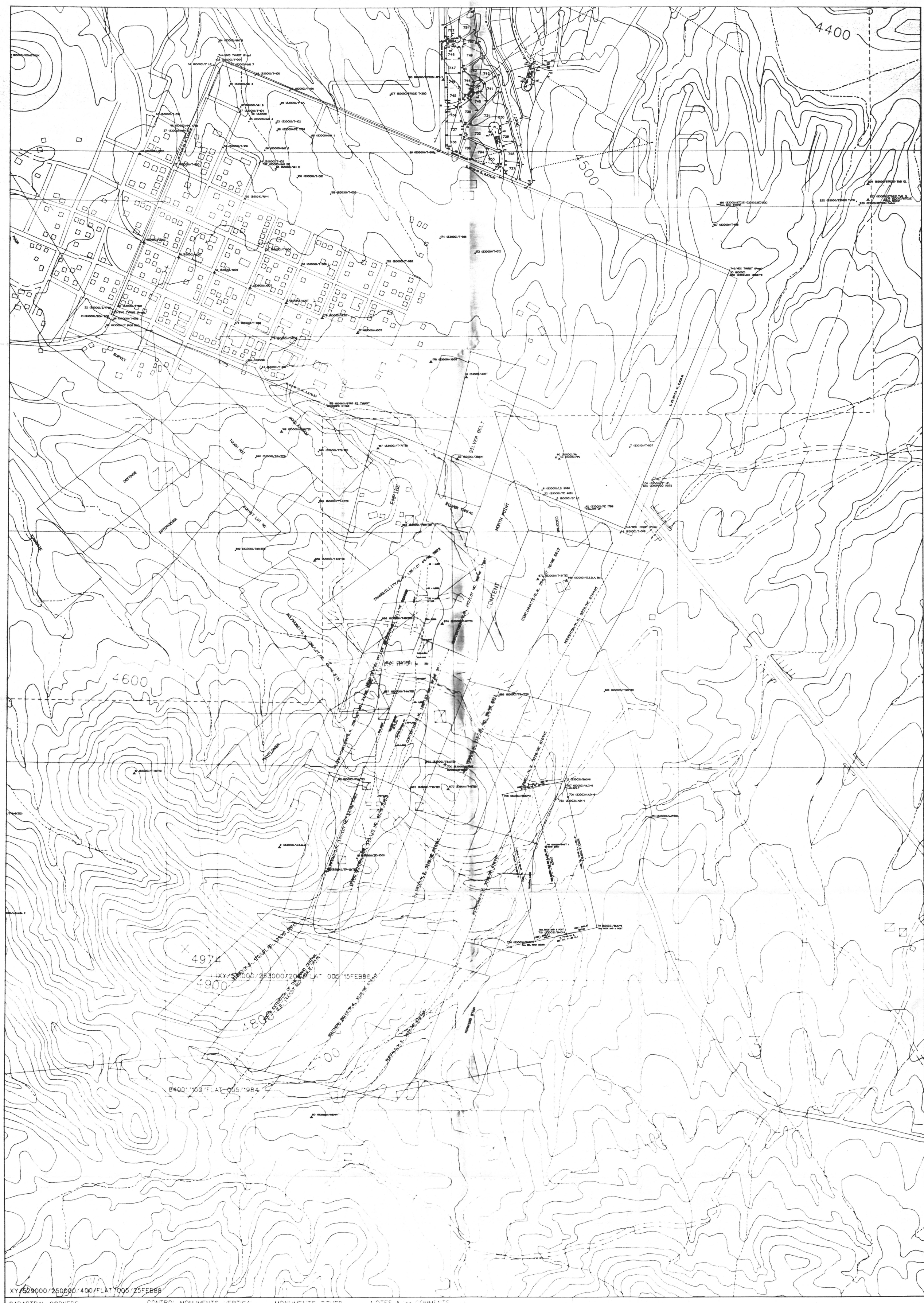
Date 10-11-87

File No. K-8

THE FOLLOWING MAPS
WERE NOT COPIED
FOR EXCELLON'S FILES
DUE TO THE FACT .THEY
WERE (INFORMATION) WAS
PRESENTED ELSEWHERE
ON OTHER MAPS -

I MADE A COPY
FOR OUR (JABA) FILES
FOR REFERENCE PURPOSES
ONLY

TOM
12/22/92



CADASTRAL CORNERS

- SECTION & CLOSING CORNERS, BRASS CAP
- QUARTER CORNERS, BRASS CAP
- SECTION & CLOSING CORNERS, OTHER
- QUARTER CORNERS, OTHER

CONTROL MONUMENTS, HORIZONTAL

- CONTROL POINT, BRASS CAP
- CONTROL POINT, SURVKAP
- CONTROL POINT, OTHER

CONTROL MONUMENTS, VERTICAL

- CONTROL POINT, BRASS CAP
- CONTROL POINT, SURVKAP
- CONTROL POINT, OTHER

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MONUMENTS, OTHER

- NAIL or Pk
- NAIL or Pk w/ SHINER
- POST
- SURVKAP, REBAR, OR PIPE
- OTHER
- OTHER

NOTES & or COMMENTS

TOPO OVERLAY FROM USGS TOMBSTONE, ARIZ 1952 (PR 1978)
ALL CLAIMS SHOWN HEREON MAY NOT BE SURVEYED
INFORMATION SHOWN ON SURVEY OVERLAY IS PROPRIETARY TO Moria Surveying, Inc.

87033 PRN DAT 25FEB88 16:07:23

XY/529000/250000/400

Moria Surveying, Inc.

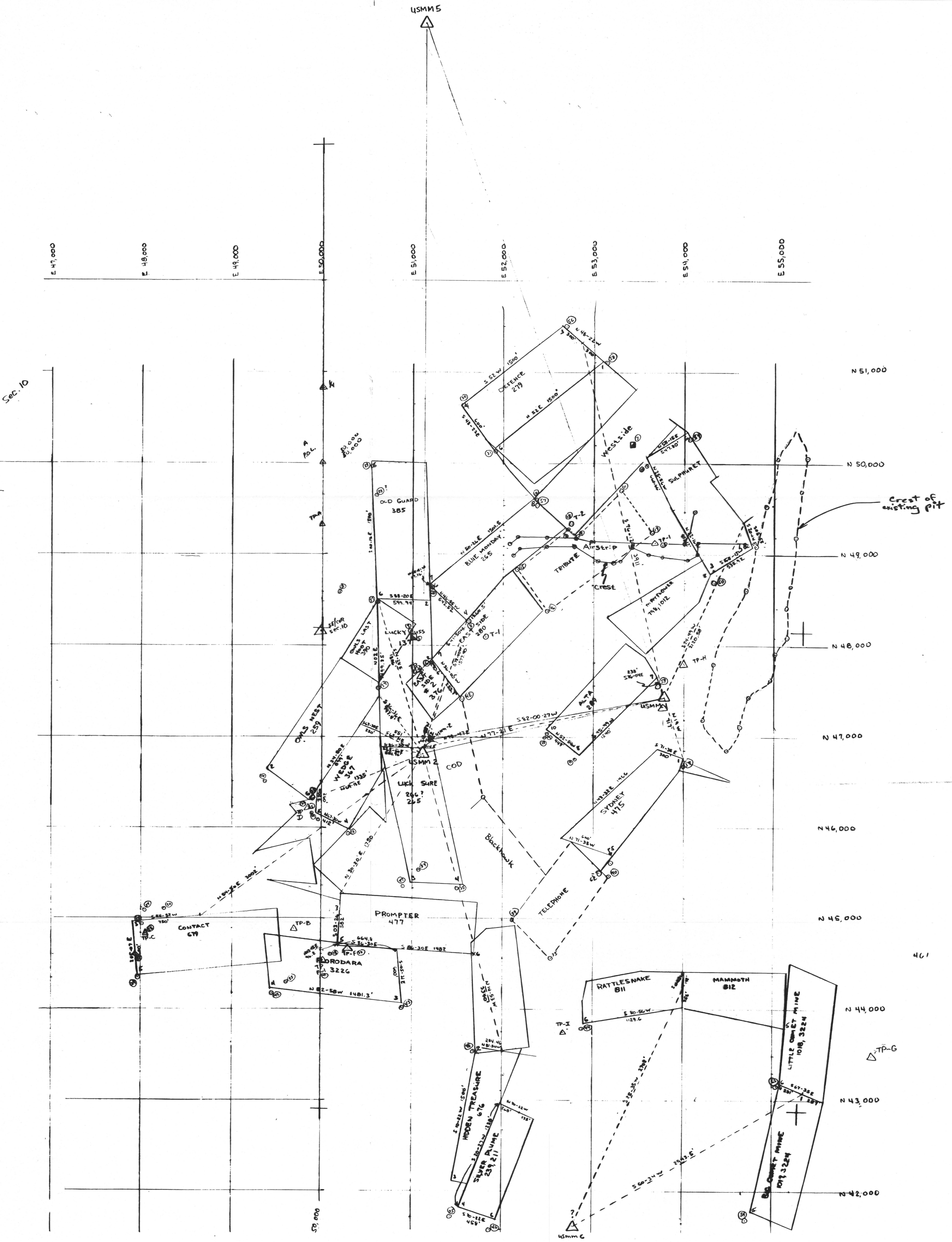
U.S. MINERAL SURVEYORS - REGISTERED LAND SURVEYORS - CARTOGRAPHERS
FORESTERS - COMPUTER CONSULTANTS
POST OFFICE BOX 879 TOMBSTONE, ARIZ. 85638
(602) 457-3703

Pr. 22:28 "Remove not the ancient landmark, which thy fathers have set."

SCALE: 1" = 400'

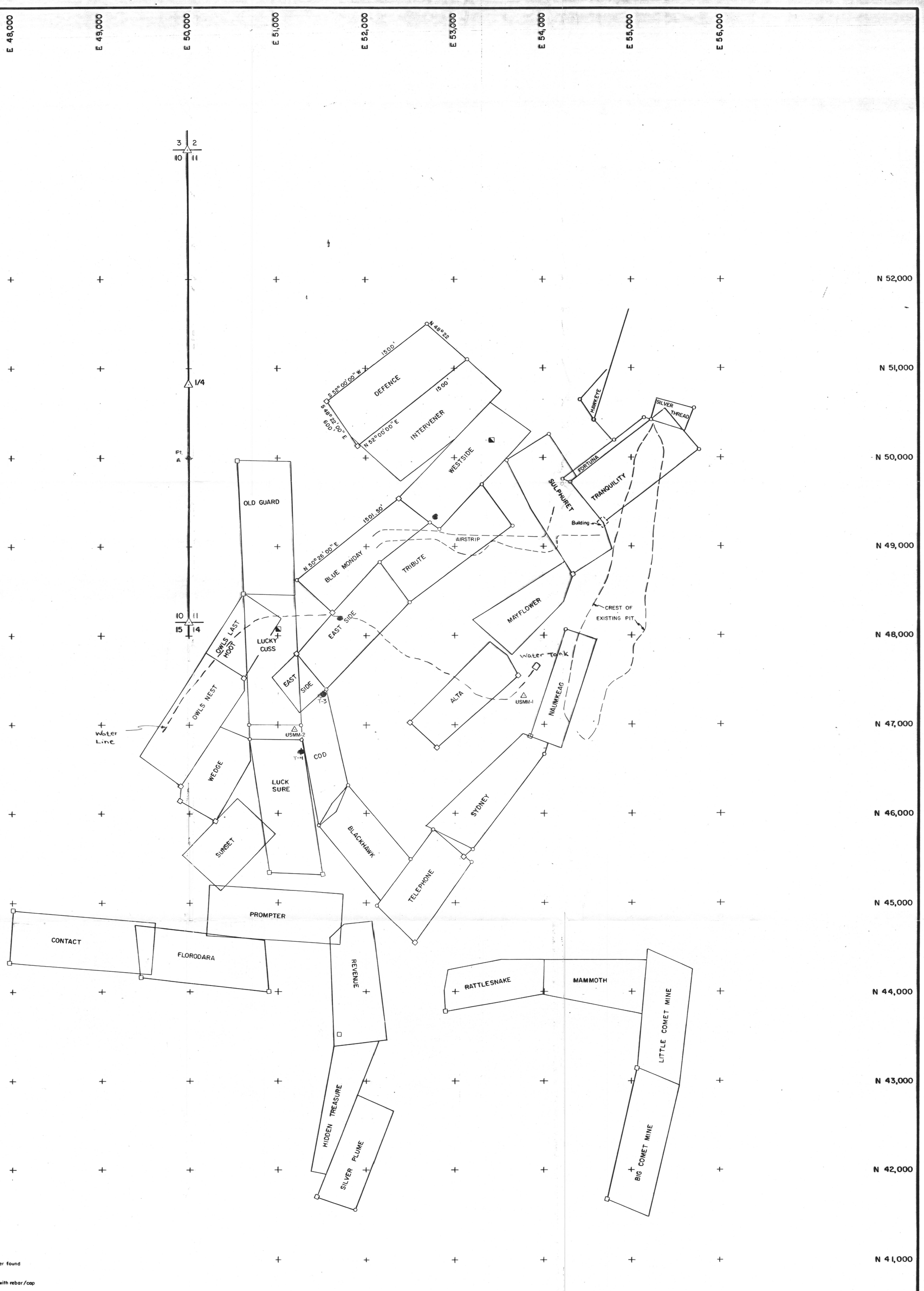
400 0 400 800 1,200 1,600 2,000 2,400

Misc Maps



Survey Dates 4/5/88 - 4/11/88
7/14 & 15/88

Tombstone, Arizona



□ = Existing corner found

O = Corner reset with rebar/cap

TOMBSTONE, ARIZONA PROJECT

Survey Date - August 9 & 10, 1988

Moria Surveying, Inc.

POST OFFICE BOX 879
TOMBSTONE, ARIZONA 85638
(602) 457-3703

REGISTERED PROFESSIONAL LAND SURVEYORS
Arizona • Colorado • Idaho • New Mexico
UNITED STATES MINERAL SURVEYORS
CARTOGRAPHERS FORESTERS

DEC2187

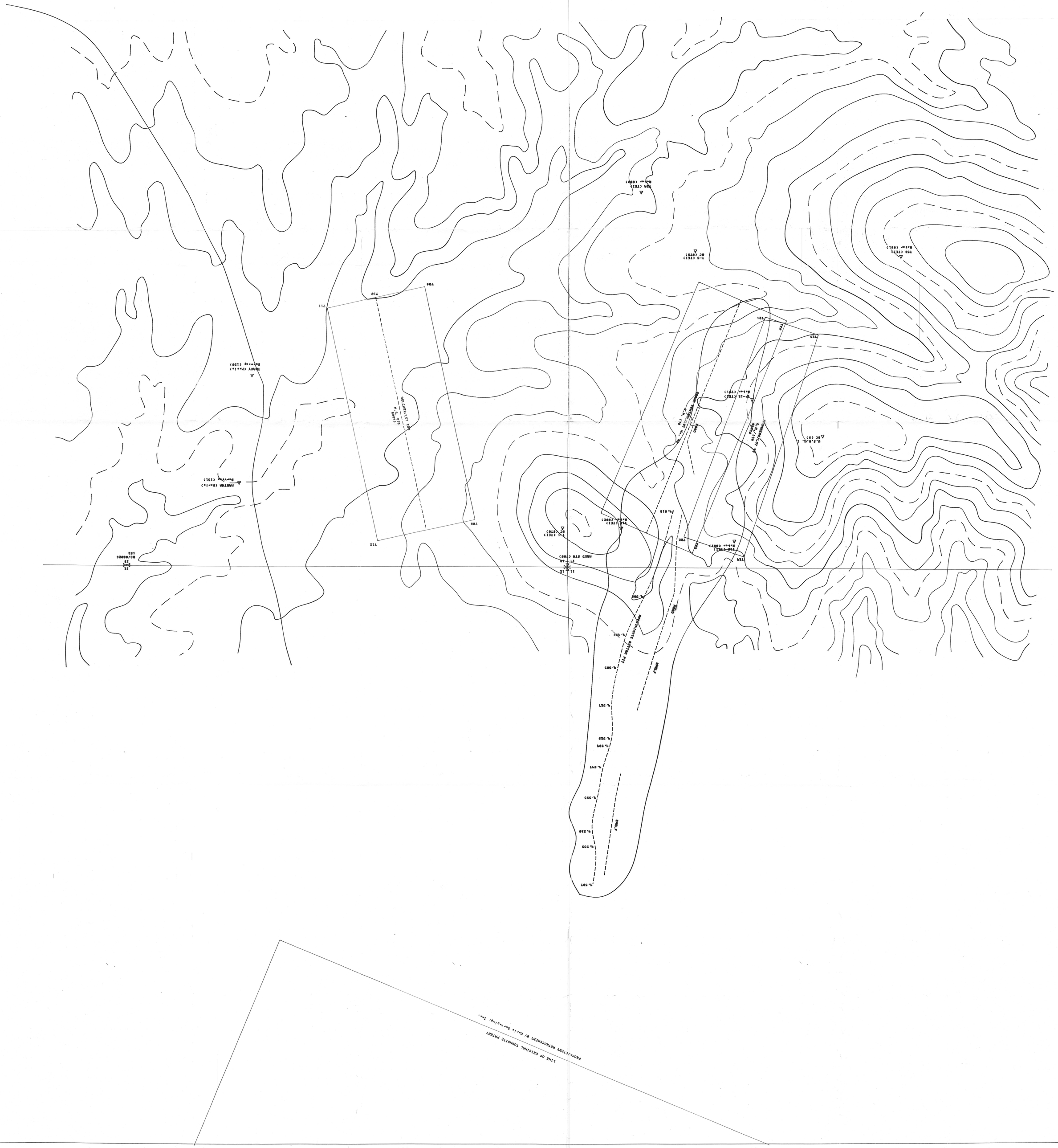
Laverne Baxter
Route 2
Grand Island, Neb 68803

PROJECT 87033

Enclosed find an interum map showing most of the terrain in the mining district including the pit superimposed over the original terrain. The final map with the rest of the topographic features and mining claims annotated should be ready shortly after the first of the year.

Moria Surveying, Inc.
Frank Chadwick
Frank Chadwick
Project Manager

Pr. 22:28 "Remove not the ancient landmark, which thy fathers have set."


LINE OF ORIGINAL TOWNSITE PATENT
PROPRIETARY RETRACEMENT BY Pehrle Surveying, Inc.
BEACH
BEACH
BEACH
BEACH
BELCHER/LOT 28
MARTIN (Pehrle)
Survey (151)
TRACY (Pehrle)
Survey (150)
MARTIN (TEL)
Survey (150)
T-3 (TEL)
BC (870)
T-2 (TEL)
BC (870)
T-1 (TEL)
BC (870)
T-12 (TEL)
BC (870)
T-9 (TEL)
BC (870)
T-8 (TEL)
BC (870)
U.S.M.M. 1
BC (9)
BC/BOARDS
12
13
12
11
12
MARK BTM (TEL)
T-4 (TEL)
BC (870)
T-5 (TEL)
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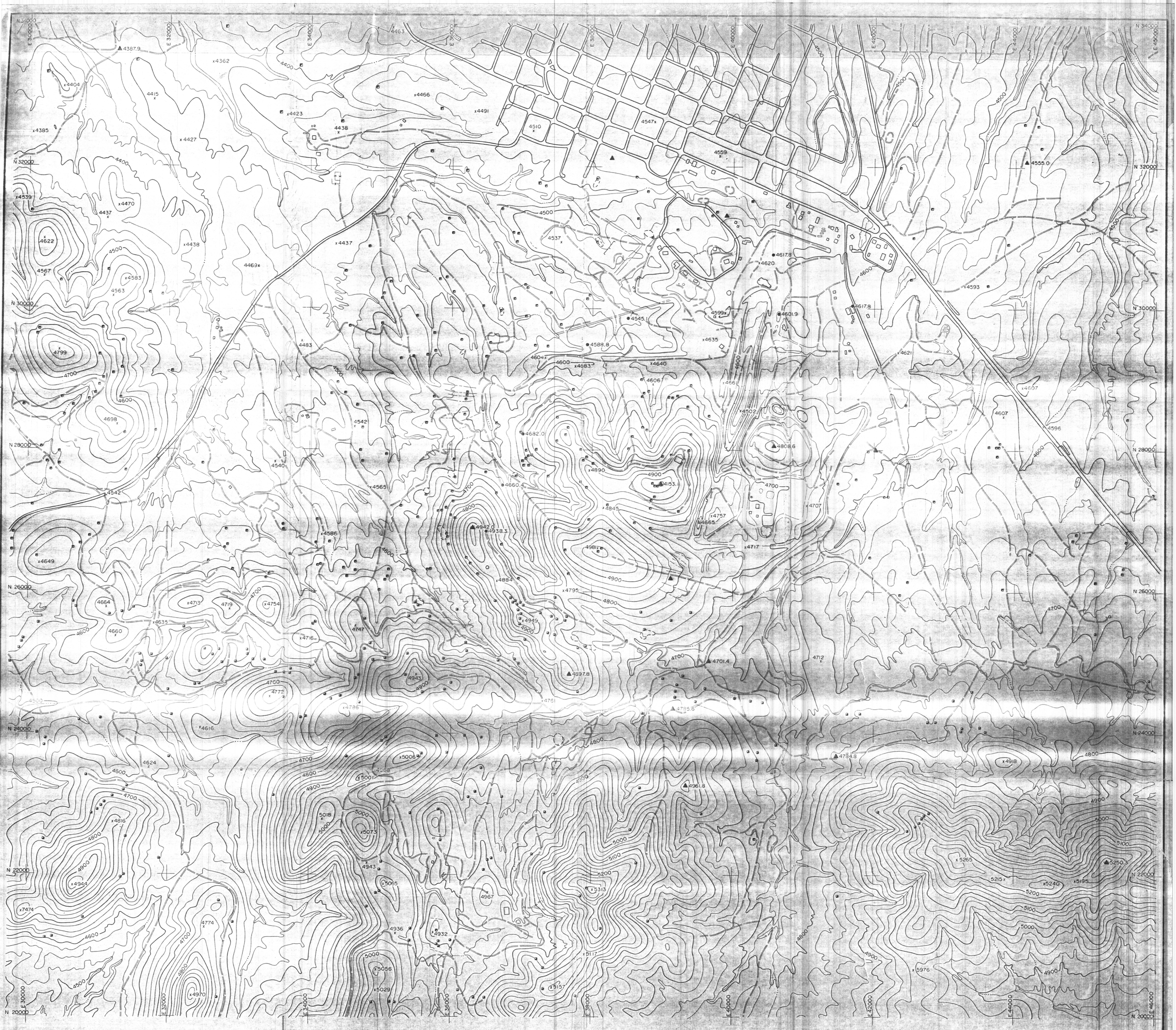


McLAIN HARBERS CO., INC.
AERIAL MAPPING & SURVEYING
720 W. Prince Rd.
Tucson, Arizona 85705
1356-4

THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS
TO NATIONAL MAP ACCURACY STANDARDS.
1" = 500' HORIZONTAL SCALE AND 25' CONTOUR INTERVALS
IT IS BASED ON GROUND CONTROL SURVEY DATA PROVIDED BY McLAIN HARBERS CO., INC.

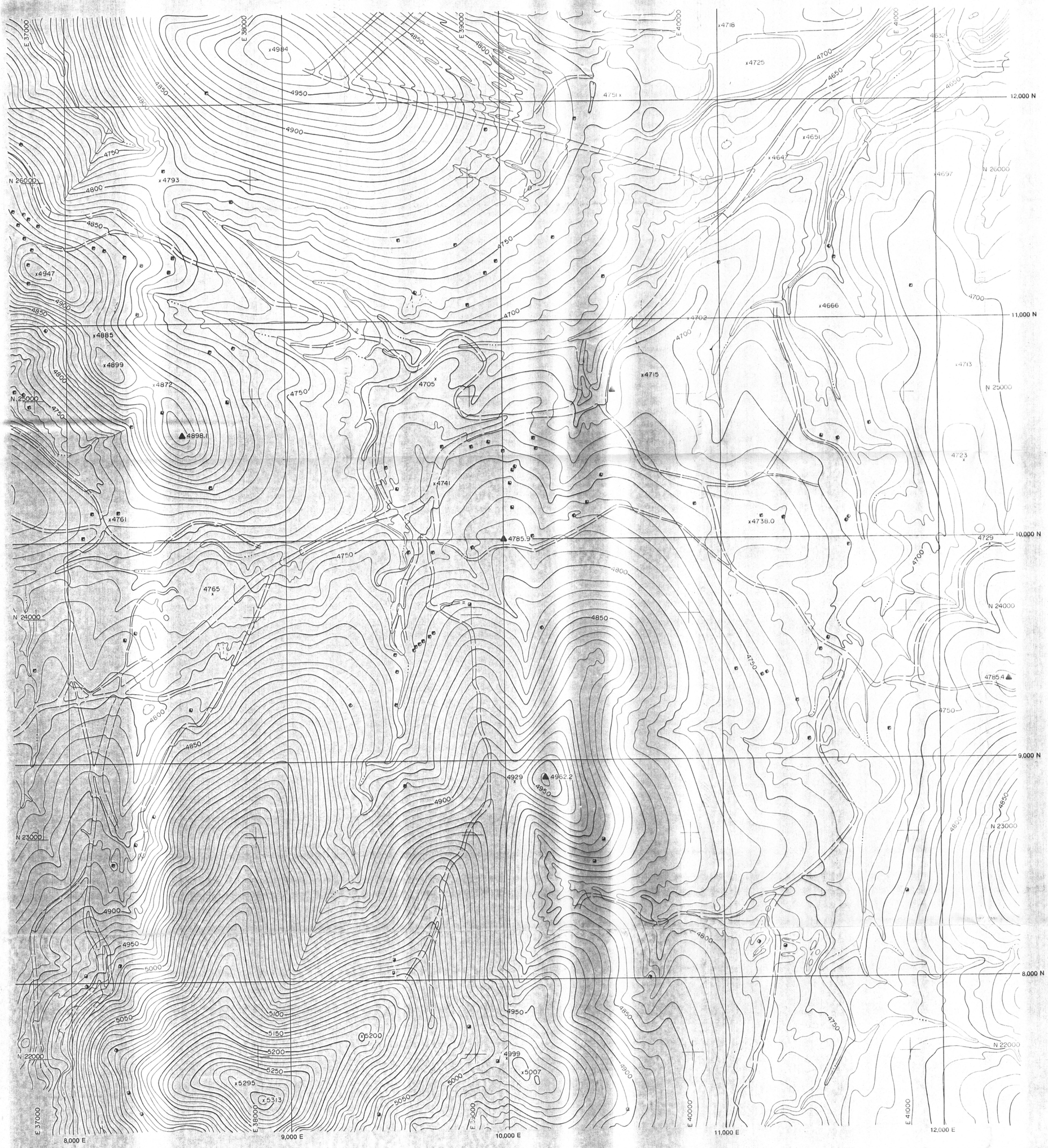
Santa Fe Pacific Mining, Inc.

Albuquerque, New Mexico

Revisions	
By	Date

Tombstone Topo Base Map

Scale: | Data by ____ | Drawn by ____ | State ____ | County ____ | Date ____ | File No. ____



THIS MAP WAS PREPARED BY PHOTOGRAMMETRIC METHODS
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1" = 200' HORIZONTAL SCALE AND 10' CONTOUR INTERVALS
IT IS BASED ON GROUND CONTROL SURVEY DATA PROVIDED BY McLAIN HARBERS CO., INC.

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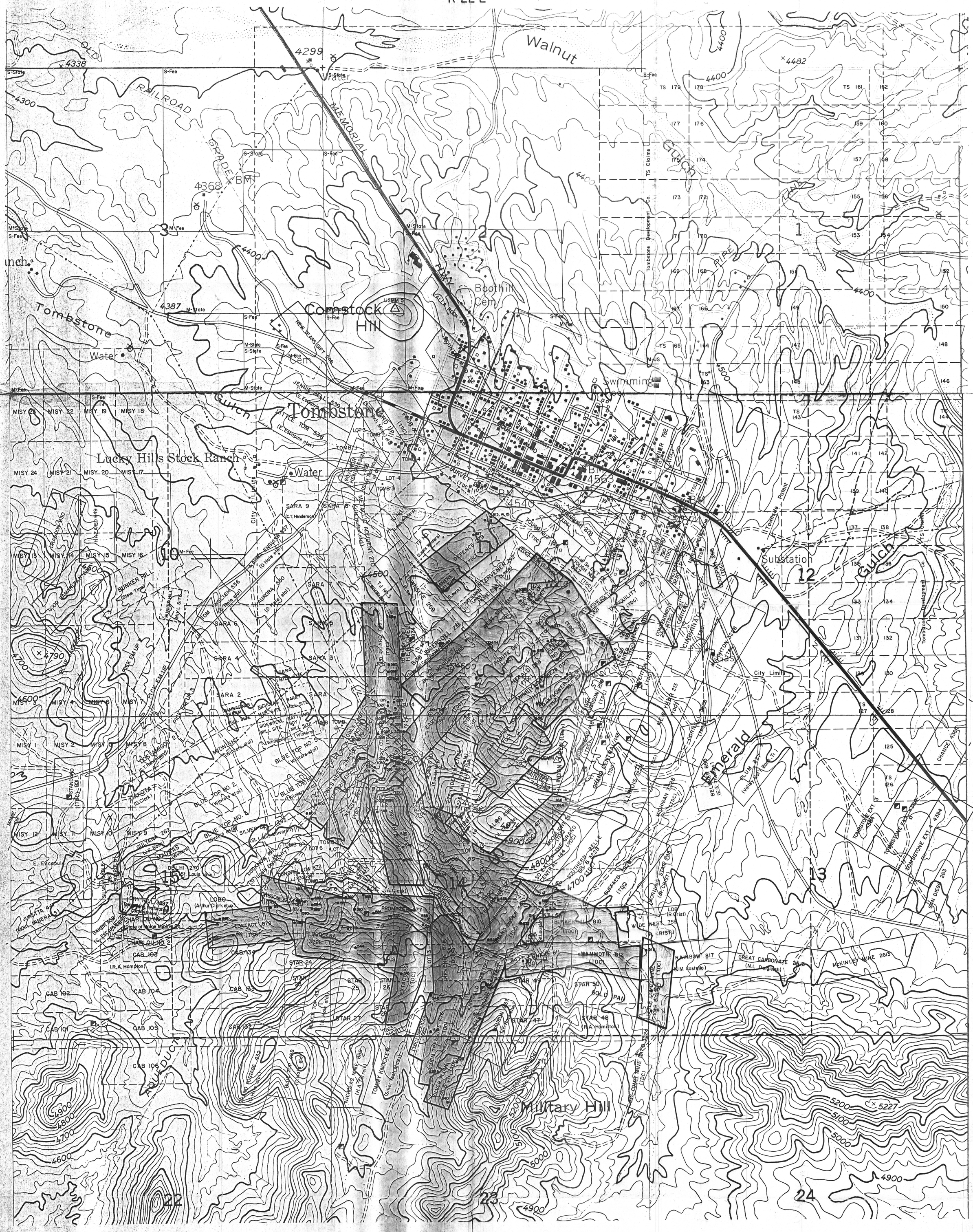
Albuquerque, New Mexico

Revisions	
By	Date

Wedge Project Topo Base Map

Scale:	Data by / Drawn by	State / County	Date / File No.



ALTA 289 Patented claim with patented number

Unpatented claim, approximate location

Area of interest

Tombstone Development Co. (TDC) SFPM 3-033-0001

Scott Lewis

Wayne Winters

Lewis & Winters, TJ 1-5

A. Clark - SFPM 3-033-0003 (Ace & Dakota Lodes)

SFPM Tomb Claims - SFPM 3-033-0002

Santa Fe Pacific Mining, Inc.
Albuquerque, New Mexico

Revisions By	Date

TOMBSTONE

GEOCHEMICAL SAMPLE AND DRILL HOLE LOCATION MAP

Scale: 1" = 500' | Date by Riesmeyer | Drawn by Bone | State Arizona | County Cochise | Date 8-3-88 | File No. K-8

Vol 2, pk 20

Santa Fe Pacific Mining, Inc.
Albuquerque, New Mexico

Revisions By	Date
BB	12-6-87
BB	1-26-88
BB	2-15-88
BB	3-31-88
BB	4-19-88
BB	6-1-88
BB	7-6-88

TOMBSTONE AREA LAND STATUS

HOMESTAKE MINING COMPANY

TOMBSTONE DISTRICT

SAMPLE LOCATION

COCHISE COUNTY, ARIZONA

1" = 200'

NOTE: 1" = 200' ORTHOPHOTO BASE

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F.S. Howell, 7/91