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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SHAMROCK SHAFT

ALTERNATE NAMES:  
GRAHAM CLAIM

GRAHAM COUNTY MILS NUMBER: 277B

LOCATION: TOWNSHIP 11 S RANGE 26 E SECTION 13 QUARTER SW  
LATITUDE: N 32DEG 28MIN 13SEC LONGITUDE: W 109DEG 39MIN 03SEC  
TOPO MAP NAME: LUZENA - 15 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:  
MANGANESE

BIBLIOGRAPHY:  
ADMMR U FILE, GRAHAM MN4  
ADMMR SHAMROCK SHAFT FILE  
FARNHAM, L.L., & OTHERS, MANGANESE DEPOSITS  
OF EASTERN AZ. USBM IC 7990, 1961, P. 92-93

MINE: Shamrock Shaft #277B (AKA: Junction, Karl Hill) (#281-High Noon Group)  
COUNTY: Graham County  
T11S, R26E, Sec. 24, 13

SUBJECT: Prospect Evaluation from Mine Examination - June 24, 1984  
(abstracted from field notes)

ENGINEER: Harrison E. Matson  
DATE: August 1, 1988

Prospects near SW corner of Sec. 13 expose a wide breccia zone striking N40-50W in pre-cambrian granite which underlies pediment gravels. The breccia may be traced NW for over 1000 feet.

Sample #FH 1 collected across 5 feet as rock chips of quartz/hematite breccia assay: Trace Au, <.05 Ag (opt)

Sample #FH 2 across 10 feet, rock chip of quartz hematite breccia assay: Trace Au, <.05 Ag (opt)

Both collected on north side and above arroyo. Two shafts on either side of wash. Prospect below to west.

Sample #FH 3 dump sample from north shaft near FH 1 & 2 assay: Trace Au, <.05 (opt Ag)

### Section 23

Sample #FH 6 collected west of road near the center of Section 23. N50W faulting dips 70°W in precambrian granite. Red limonite on fractured footwall with weakly silicified granite on hanging wall. Grab sample.

Sample #FH 7 collected at shallow shaft on north side of small hill just south of Karl Hill. Rock chip across 2 foot vein in granite with vein quartz, red limonites, and purple fluorite. N20W and N50W intersections of minor fractures. Granite weakly argillized on either side of vein for a distance of perhaps two feet. Abundant black hematite, manganese(?) some fluorite stringers into the argillically altered granite. This vein is covered along strike.

Sample #FH 8 collected 800-1000 feet south of FH 7 near south base of hill. Spot sample of reddish granite and quartz breccia adjacent to brecciated white hypothermal quartz vein. Red hematite, granitic and white quartz clasts. Broken by minor NW fracturing at sample site.

Sample #FH 9-10' across brecciated granite with limonite and hematite. Collected S of FH 8 across arroyo.

Sample #FH 10 Dump sample of pink granite breccia with black manganese oxide filling and coarse carbonate veining. Collected at shaft east of FH 8 sunk along NE striking diabase dike.

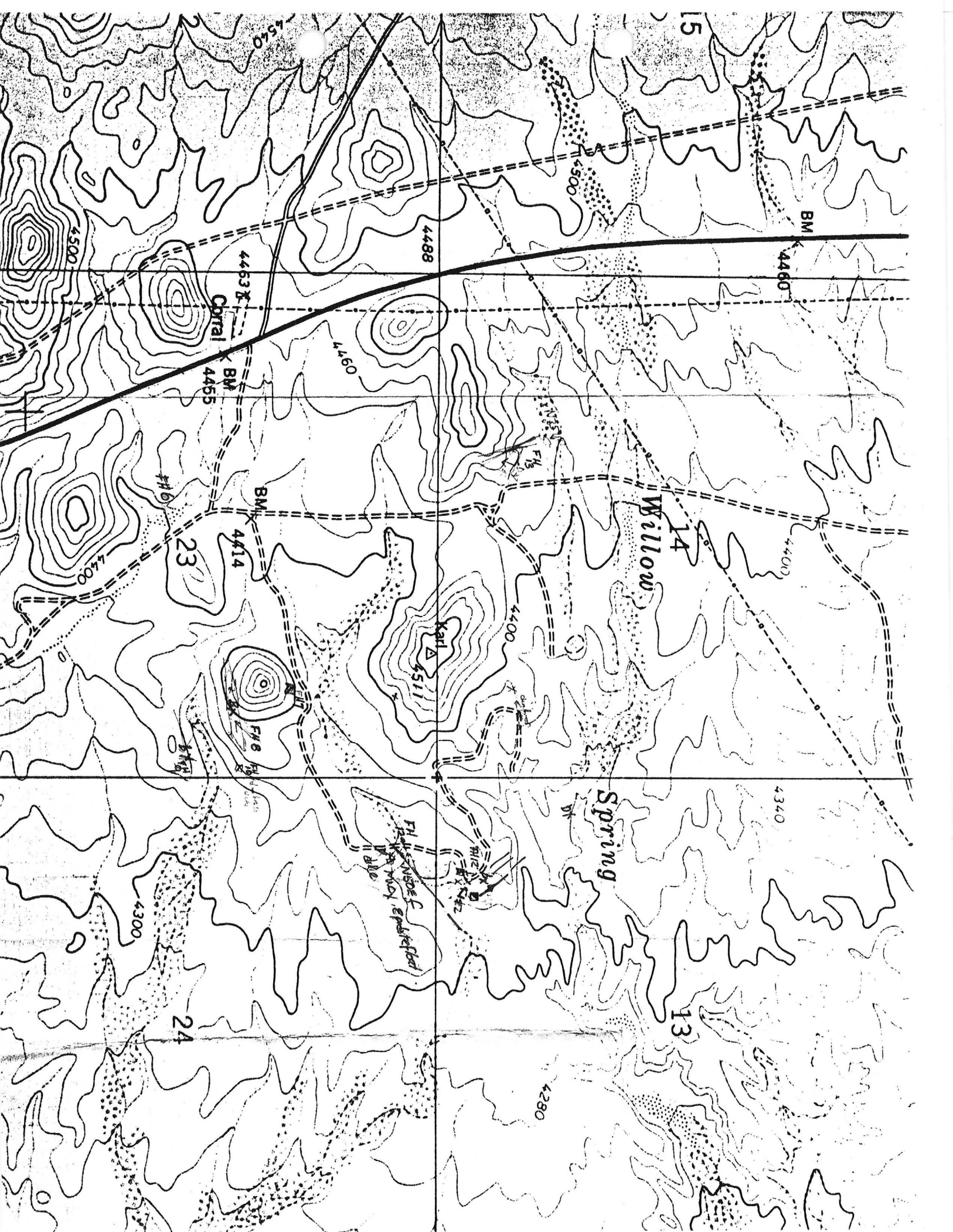
Sample #FH 11 Dump sample from lowest western most(?) shaft in the NW ¼

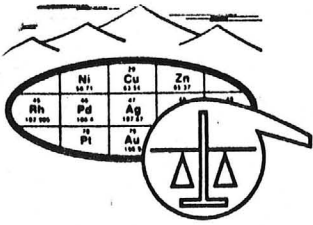
of Sec.24(?) abundant chrysocolla. N50-40W zone of brecciation faulted off along wash (NE).

Sample #FH 12 6 foot across silicified zone north of lower shaft E side trail SW $\frac{1}{4}$  Sec.13.

Sample #FH 12-A At prospects just above the wash. Precambrian granite is cut by north trending dikes of equigranular finely crystalline granite. These are then cut by parallel N50-60E faulting. Some breccia along this faulting has manganese oxide coatings. Epidote in float. 4 inch quartz limonite breccia zone, N50E at prospect near wash floor S of FH 12.

Sample #FH 13 collected about  $\frac{1}{2}$  mile WNW of Karl, west of Trail Junction on NE side of granite hill. 4 foot collected across red hematitic breccia zone in granite along N75W with south dip and N35W vertical fracturing.





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REPORT OF ANALYSIS

JOB NO. USH 005  
August 9, 1984  
FH 4 TO FH 13  
PAGE 1 OF 1

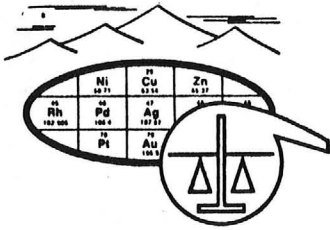
MR. H.E. MATSON  
P.O. Box 44171  
Tucson, Arizona 85733

Analysis of 11 Rock Chip Samples

ITEM	SAMPLE NUMBER	FIRE ASSAY	
		Au* (oz/t)	Ag* (oz/t)
1	FH 4	<.005	<.01
2	FH 5	<.005	<.01
3	FH 6	<.005	<.01
4	FH 7	<.005	.10
5	FH 8	<.005	<.01
6	FH 9	<.005	<.01
7	FH 10	<.005	<.01
8	FH 11	<.005	.39
9	FH 12	<.005	<.01
10	FH 12 A	<.005	.02
11	FH 13	<.005	<.01

\*NOTE: Analysis based on one assay-ton sample.

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REPORT OF SPECTROGRAPHIC ANALYSIS

JOB NO. USH 005  
August 9, 1984  
FH 4 TO FH 13

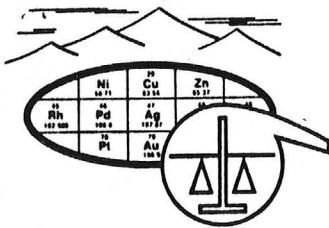
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P.O. Box 44171  
Tucson, Arizona 85733

Analysis of 7 Rock Chip Samples

The attached pages comprise this report of analysis. Values are reported in parts per million (ppm), except where otherwise noted, to the nearest number in the series 1, 1.5, 2, 3, 5, 7, 10, etc. within each order of magnitude. These numbers represent the approximate boundaries and midpoints of arbitrary ranges of concentration differing by the reciprocal of the cube root of ten. The 'accepted' value is considered to be within + or - 1 step of the range reported at the 68 % confidence level and within + or - 2 steps at the 95 % confidence level.

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William L. Lehmbeck  
Manager

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JOB NO. USH 005  
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ITEM NO.      SAMPLE NO.  
 5 = FH 8  
 6 = FH 9  
 7 = FH 10  
 8 = FH 11  
 9 = FH 12  
 10 = FH 12 A  
 11 = FH 13

ITEM	5	6	7	8	9	10	11
ELEMENT							
Fe	2%	2%	3%	5%	1%	5%	2%
Ca	5%	.2%	.07%	.5%	.2%	10%	.2%
Mg	.05%	.05%	.3%	.03%	.05%	.05%	.07%
Ag	<1	<1	<1	20	<1	<1	<1
As	<500	<500	<500	<500	<500	<500	<500
B	<10	10	<10	10	<10	10	10
Ba	150	500	5000	50	100	2000	200
Be	20	3	10	5	3	5	15
Bi	<10	<10	<10	3000	15	15	<10
Cd	<50	<50	<50	<50	<50	<50	<50
Co	<5	<5	10	<5	<5	<5	<5
Cr	100	300	<10	200	<10	70	200
Cu	10	15	1000	7000	100	70	5
Ga	<10	<10	20	50	15	20	10
Ge	<20	<20	<20	<20	<20	<20	<20
La	<20	<20	<20	<20	<20	<20	<20
Mn	500	2000	>10000	3000	700	3000	300
Mo	<2	10	20	100	<2	5	<2
Nb	<20	<20	20	50	<20	<20	<20
Ni	<5	5	5	<5	<5	<5	5
Pb	20	15	200	700	20	30	15
Sb	<100	<100	<100	<100	<100	<100	<100
Sc	<10	<10	<10	<10	<10	15	<10
Sn	<10	<10	<10	50	<10	<10	<10
Sr	<100	150	2000	100	<100	150	100
Ti	200	1500	1500	500	1000	3000	1500
V	15	20	50	100	<10	100	20
W	<50	<50	200	<50	<50	70	<50
Y	30	<10	50	200	30	70	20
Zn	<200	<200	<200	<200	<200	<200	<200
Zr	<20	70	50	100	50	100	100

**COPY**



Wet Assay Wet Assay Wet Assay

FH-1 TRACE

<0.05

2 TRACE

<0.05

3 TRACE

<0.05

FIRE ASSAY  
LABORATORY SAMPLE  
2- LESS THAN



Very respectfully,  
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