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STANDARD MINE PROJECT  
FINAL REPORT

Katharine T. Hawley  
February, 1982

## STANDARD MINE PROJECT

### FINAL REPORT

#### INTRODUCTION

The Standard Mine Project is located 25 miles NE of Lovelock, Pershing County, Nevada. Freeport Exploration Company controls about 7 square miles in the vicinity of Standard Mine which produced more than \$1 million in gold and silver from an open pit mine during 1939-42 and 1946-49.

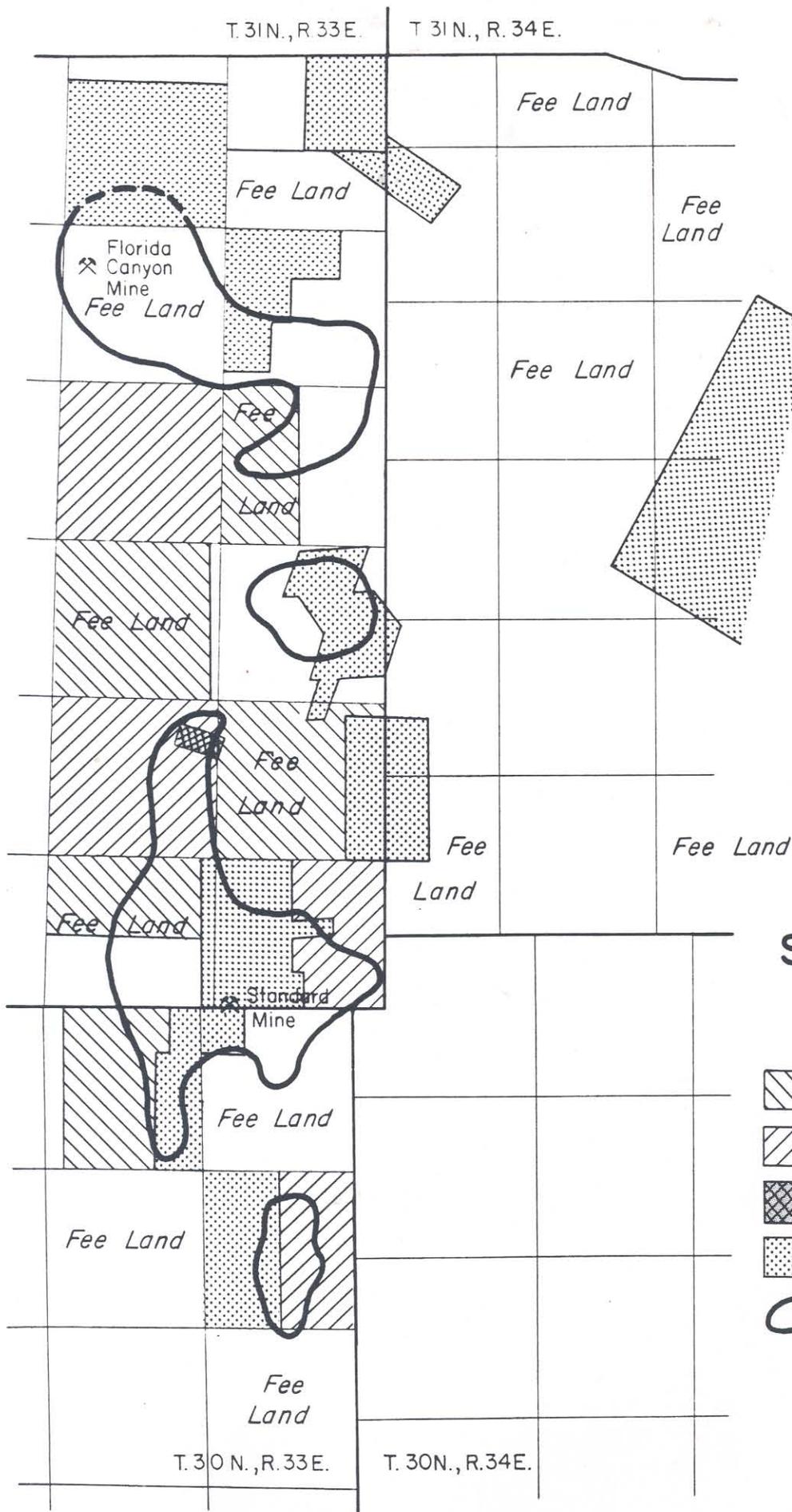
#### LAND STATUS

Freeport staked 141 claims on five sections of BLM ground and leased fee land in four additional sections from Mrs. Alice Campbell, Imlay, Nevada (Fig. 1, Appendix 1). The lease, signed September 1980, is subject to a 5% NSR royalty and requires a lease payment each August 15. The Reward claim was leased from Frank Strode in August, 1981 subject to a 10% net return from sale.

Adjacent claims and Fee Land are held by Occidental Minerals, Cordex, and Duval.

#### GEOLOGY

The Standard Mine Project area is located in the Basin and Range Province, on the western flank of the Humboldt Range. The oldest rocks in the range are Permian volcanics which are overlain by sedimentary rocks of the Triassic Star Peak Group. All formations are cut by persistent NNE striking vertical faults. On the western flank the sedimentary rocks have been folded and show considerable bedding plane movement which occurred when they slid off the core of the range as it rose. The range has been



Scale: 1" = 1 mile

### STANDARD MINE PROJECT AREA LAND MAP

-  ALICE CAMPBELL FEE LAND (FREEPORT)
-  FREEPORT CLAIMS STAKED AND TO BE STAKED
-  REWARD CLAIM (FRANK STRODE)
-  OTHER CLAIMS
-  GOLD ANOMALIES

FIGURE 1

mapped on 15' sheets by USGS geologists (GQ 666, 820, 821) and their work has proven quite accurate.

Freeport's interest at Standard Mine was in the sedimentary rocks of the Star Peak Group and the overlying Grass Valley Formation (geologic map, Figure 2). The older member of the Star Peak Group, the Prida Formation, directly overlies the Permian volcanics. It is composed primarily of medium to thin bedded silty, carbonaceous limestone. The basal units are locally sandstones and conglomerates which do not crop out on our land. A group of mafic metavolcanic flows, breccias and tuffs occur in the upper member and do crop out in our area of interest. The Prida has many characteristics which are thought to be necessary in a good host for disseminated gold mineralization.

The Natchez Pass formation, the younger member of the Star Peak group is a massive recrystallized limestone and dolomite unit. Considerable movement has occurred in the Natchez Pass formation and its full thickness is not present in the project area. This limestone is a possible host rock, though not as favorable as the Prida.

Considerable movement has occurred along the contact between the Natchez Pass and the overlying Grass Valley formation. It is in this zone of movement that the majority of the outcropping jasperoids occur in the Standard Mine area. The jasperoids are brecciated, dark grey to black, partly to completely silicified and contain material of both Grass Valley and Natchez Pass origin. Quartz, barite and minor iron oxides occur along fractures. Silicification also occurs along a few vertical faults in the area, most notably the one that runs NNW - SSE through the Gold Standard Pit of the Standard Mine. This is where the ore mined during the 1940's was located.

The Grass Valley formation is a shale, argillite, quartzite unit which overlies the Natchez Pass limestone. Complex small scale folding in the Grass Valley was caused by bedding plane movement related to continued uplift of the core of the range. Parts of the Grass Valley formation appear to be favorable host rocks for disseminated gold mineralization, through most of the rocks are probably too impermeable for good fluid dispersal.

Quaternary pediment gravels overlap the Grass Valley to increasing depths as one traverses toward the valley bottom to the west. The valley is a high heat flow area, and geothermal exploration has progressed to the stage where 3 deep production-sized holes have been drilled. One is a good producer (at the bottom of Eldorado Canyon); the other 2 are hot but dry. Phillips and Union are the companies involved.

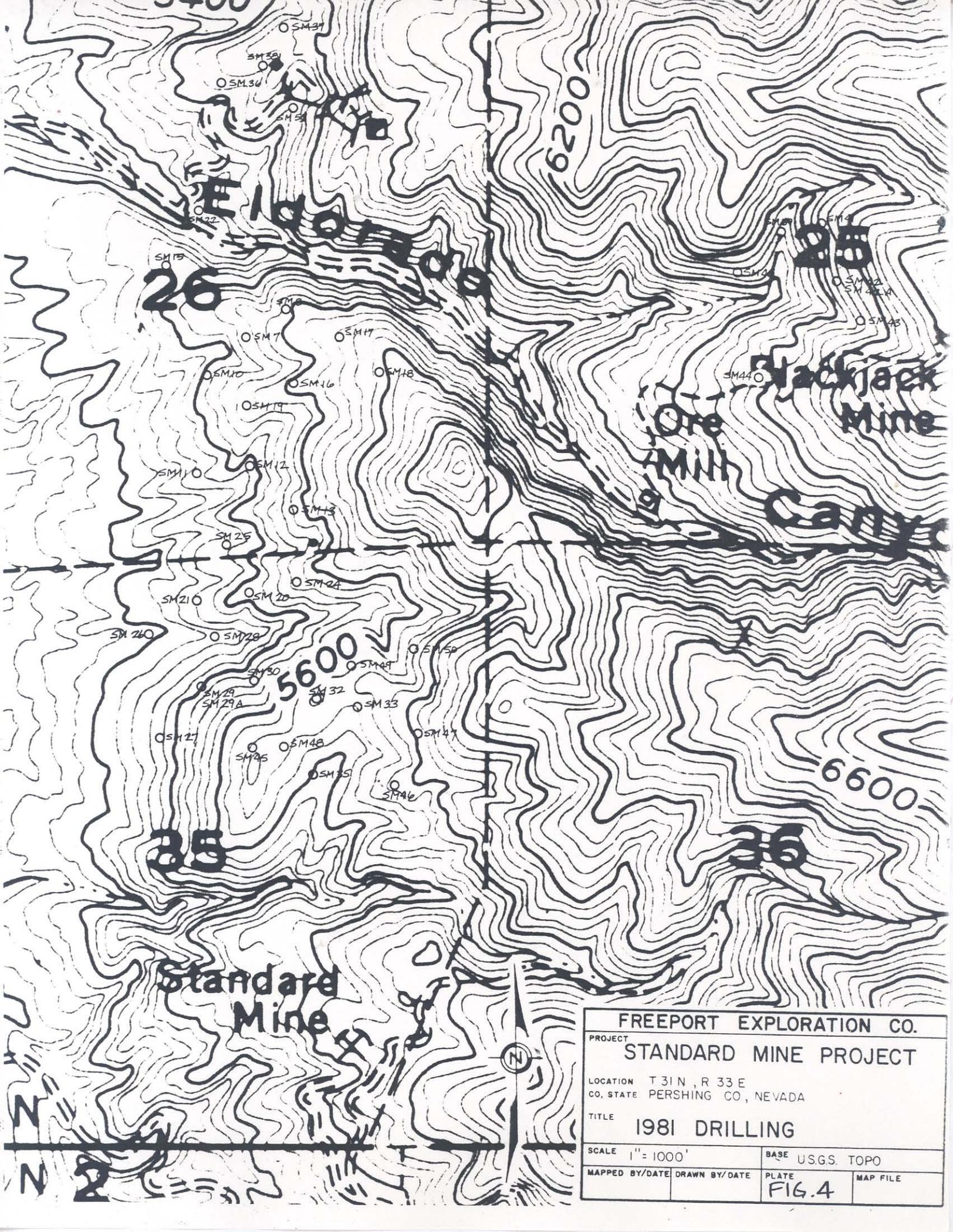
#### GEOCHEMISTRY

The west side of the Humboldt Range was targeted by reconnaissance work for ridge and spur sampling during 1980. Within the area covered anomalous soil and rock chip samples occurred over a 7 by 2 miles area (Fig. 3). More detailed rock chip sampling, of jasperoids particularly encouraging (Fig. 3). Values ranged up to 12.7 ppm Au, 90 ppm Ag and almost all the jasperoids were anomalous. Rock chips from other rock types tended not to be mineralized which may have been caused by relative lack of permeability near surface.

## DRILLING AND DRILL RESULTS

During 1981, 51 holes were drilled to test structures and lithologies associated with the jasperoids, as well as one major structure cutting the Prida which did not contain surface jasperoids (Fig. 4, Appendix 2).

Twenty holes carried values greater than .01 oz/t Au over a 5' or greater interval; four holes carried values over .10 oz/t Au. The high value intercepted was 5' of .160 oz/t Au at 95' in SM35. Mineralization in all the holes was limited to silicified material along flat or vertical structures. Lithologies intercepted include Grass Valley shales and argillites, jasperoid, recrystallized Natchez Pass limestone - dolomite, and silty to very carbonaceous Prida limestones with local volcanic interbeds. I feel that all lithologies were adequately tested.



FREEPORT EXPLORATION CO.			
PROJECT			
STANDARD MINE PROJECT			
LOCATION T 31 N , R 33 E			
CO. STATE PERSHING CO., NEVADA			
TITLE			
1981 DRILLING			
SCALE	1" = 1000'	BASE	U.S.G.S. TOPO
MAPPED BY/DATE	DRAWN BY/DATE	PLATE	MAP FILE
		FIG. 4	

This figure represents unaudit amounts from the beginning of the project in 1980 through 1981.

#### SUMMARY AND CONCLUSIONS

The large tonnage low grade disseminated gold deposit sought by Freeport does not exist. Mineralization is present along structures in silicification as indicated by surface sampling but is limited in extent and will not meet Freeport's requirements. No further work by Freeport is warranted at this time.

KTH/dt

<u>CLAIM</u>	<u>DATE OF LOCATION</u>	<u>DOCUMENT NUMBER</u>	<u>LOCATION CERTIFICATE</u>		<u>AMENDED LOCATION NOTICE</u>		<u>AMENDED LOCATION CERTIFICATE</u>		<u>FILED WITH BLM</u>	
			<u>BOOK</u>	<u>PAGE</u>	<u>BOOK</u>	<u>PAGE</u>	<u>BOOK</u>	<u>PAGE</u>	<u>DATE</u>	<u>SERIAL/NUMBER</u>
S# 1	05/06/80	112620	110	44					06/25/80	N MC-155595
S# 2	05/06/80	112621	110	45					06/25/80	N MC-155596
S# 3	05/06/80	112622	110	46					06/25/80	N MC-155597
S# 4	05/06/80	112623	110	47					06/25/80	N MC-155598
S# 5	05/06/80	112624	110	48					06/25/80	N MC-155599
S# 6	05/06/80	112625	110	49					06/25/80	N MC-155600
S# 7	05/06/80	112626	110	50					06/25/80	N MC-155601
S# 8	05/06/80	112627	110	51					06/25/80	N MC-155602
S# 9	05/06/80	112628	110	52					06/25/80	N MC-155603
S#10	05/06/80	112629	110	53					06/25/80	N MC-155604
S#11	05/06/80	112630	110	54					06/25/80	N MC-155605
S#12	05/06/80	112631	110	55					06/25/80	N MC-155606
S#13	05/06/80	112632	110	56					06/25/80	N MC-155607
S#14	05/06/80	112633	110	57					06/25/80	N MC-155608
S#15	05/06/80	112634	110	58					06/25/80	N MC-155609
S#16	05/06/80	112635	110	59					06/25/80	N MC-155610
S#17	05/06/80	112636	110	60					06/25/80	N MC-155611
S#18	05/06/80	112637	110	61					06/25/80	N MC-155612
S#19	05/07/80	112638	110	62					06/25/80	N MC-155613

19 Claims: S#1 thru S#19

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			<u>BOOK</u>	<u>PAGE</u>	<u>BOOK</u>	<u>PAGE</u>	<u>BOOK</u>	<u>PAGE</u>	<u>DATE</u>	<u>SERIAL/NUMBER</u>
S.M. #20	08/03/80	113789	112	83					08/28/80	N MC-163719
S.M. #21	08/03/80	113790	112	84					08/28/80	N MC-163720
S.M. #22	08/03/80	113791	112	85					08/28/80	N MC-163721
S.M. #23	08/03/80	113792	112	86					08/28/80	N MC-163722
S.M. #24	08/03/80	113793	112	87					08/28/80	N MC-163723
S.M. #25	08/03/80	113794	112	88					08/28/80	N MC-163724
S.M. #26	08/03/80	113795	112	89					08/28/80	N MC-163725
S.M. #27	08/03/80	113796	112	90					08/28/80	N MC-163726
S.M. #28	08/03/80	113797	112	91					08/28/80	N MC-163727
S.M. #29	08/03/80	113798	112	92					08/28/80	N MC-163728
S.M. #30	08/03/80	113799	112	93					08/28/80	N MC-163729
S.M. #31	08/03/80	113800	112	94					08/28/80	N MC-163730
S.M. #32	08/03/80	113801	112	95					08/28/80	N MC-163731
S.M. #33	08/03/80	113802	112	96					08/28/80	N MC-163732
S.M. #34	08/03/80	113803	112	97					08/28/80	N MC-163733
S.M. #35	08/03/80	113804	112	98					08/28/80	N MC-163734
S.M. #36	08/03/80	113805	112	99					08/28/80	N MC-163735
S.M. #37	08/03/80	113806	112	100					08/28/80	N MC-163736
S.M. #38	08/03/80	113807	112	101					08/28/80	N MC-163737
S.M. #39	08/03/80	113808	112	102					08/28/80	N MC-163738
S.M. #40	08/03/80	113809	112	103					08/28/80	N MC-163739
S.M. #41	08/03/80	113810	112	104					08/28/80	N MC-163740
S.M. #42	08/03/80	113811	112	105					08/28/80	N MC-163741
S.M. #43	08/03/80	113812	112	106					08/28/80	N MC-163742
S.M. #44	08/03/80	113813	112	107					08/28/80	N MC-163743
S.M. #45	08/03/80	113814	112	108					08/28/80	N MC-163744
S.M. #46	08/03/80	113815	112	109					08/28/80	N MC-163745
S.M. #47	08/03/80	113816	112	110					08/28/80	N MC-163746
S.M. #48	08/03/80	113817	112	111					08/28/80	N MC-163747
S.M. #49	08/03/80	113818	112	112					08/18/80	N MC-163748

30 Claims: S.M. #20 thru S.M. #49.

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S.M. #50	08/03/80	113819	112	113					08/28/80	N MC-163749
S.M. #51	08/03/80	113820	112	114					08/28/80	N MC-163750
S.M. #52	08/03/80	113821	112	115					08/28/80	N MC-163751
S.M. #53	08/03/80	113822	112	116					08/28/80	N MC-163752
S.M. #54	08/03/80	113823	112	117					08/28/80	N MC-163753
S.M. #55	08/03/80	113823	112	118					08/28/80	N MC-163754

6 Claims: S.M. #50 thru S.M. #55.

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S 56	08/29/80			114	195					10/30/80	N MC-170939
S 57	08/29/80			114	196						N MC-170940
S 58	08/29/80			114	197						N MC-170941
S 59	08/29/80			114	198						N MC-170942
S 60	08/29/80			114	199						N MC-170943
S 61	08/29/80			114	200						N MC-170944
S 62	08/29/80			114	201						N MC-170945
S 63	08/29/80			114	202						N MC-170946
S 64	08/29/80			114	203						N MC-170947
S 65	08/29/80			114	204						N MC-170948
S 66	08/29/80			114	205						N MC-170949
S 67	08/29/80			114	206						N MC-170950
S 68	08/29/80			114	207						N MC-170951
S 69	08/29/80			114	208						N MC-170952
S 70	08/29/80			114	209						N MC-170953
S 71	08/29/80			114	210						N MC-170954
S 72	08/29/80			114	211						N MC-170955
S 73	08/29/80			114	212						N MC-170956
S 74	08/28/80			114	213						N MC-170957
S 75	08/28/80			114	214						N MC-170958
S 76	08/28/80			114	215						N MC-170959
S 77	08/28/80			114	216						N MC-170960
S 78	08/28/80			114	217						N MC-170961
S 79	08/28/80			114	218						N MC-170962
S 80	08/28/80			114	219						N MC-170963
S 81	08/28/80			114	220						N MC-170964
S 82	08/28/80			114	221						N MC-170965
S 83	08/28/80			114	222						N MC-170966
S 84	08/28/80			114	223						N MC-170967
S 85	08/28/80			114	224						N MC-170968

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S 86	08/28/80			114	225					10/30/80	N MC-170969
S 87	08/28/80			114	226						N MC-170970
S 88	08/28/80			114	227						N MC-170971
S 89	08/28/80			114	228						N MC-170972
S 90	08/26/80			114	229						N MC-170973
S 91	08/26/80			114	230						N MC-170974
S 92	08/26/80			114	231						N MC-170975
S 93	08/26/80			114	232						N MC-170976
S 94	08/26/80			114	233						N MC-170977
S 95	08/26/80			114	234						N MC-170978
S 96	08/26/80			114	235						N MC-170979
S 97	08/26/80			114	236						N MC-170980
S 98	08/26/80			114	237						N MC-170981
S 99	08/26/80			114	238						N MC-170982
S 100	08/26/80			114	239						N MC-170983
S 101	08/26/80			114	240						N MC-170984
S 102	08/15/80			114	241						N MC-170985
S 103	08/15/80			114	242						N MC-170986
S 104	08/15/80			114	243						N MC-170987
S 105	08/15/80			114	244						N MC-170988
S 106	08/14/80			114	245						N MC-170989
S 107	08/14/80			114	246						N MC-170990
S 108	08/14/80			114	247						N MC-170991
S 109	08/14/80			114	248						N MC-170992
S 110	08/14/80			114	249						N MC-170993
S 111	08/14/80			114	250						N MC-170994
S 112	08/14/80			114	251						N MC-170995
S 113	08/14/80			114	252						N MC-170996
S 114	08/14/80			114	253						N MC-170997
S 115	08/14/80			114	254						N MC-170998

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S 116	08/14/80			114	255					10/30/80	N MC-170999
S 117	08/14/80			114	256						N MC-171000
S 118	08/14/80			114	257						N MC-171001
S 119	08/14/80			114	258						N MC-171002
S 120	08/28/80			114	259						N MC-171003
S 121	08/28/80			114	260						N MC-171004
S#156	10/24/80			116	98					01/12/81	N MC-180203
S#157	10/24/80			116	99						N MC-180204

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DARLA 1	02-12-81	119177	121	333					04-30-81	NMC 193315
DARLA 2	02-12-81	119178	121	334					04-30-81	NMC 193316
DARLA 3	02-12-81	119179	121	335					04-30-81	NMC 193317
DARLA 4	02-12-81	119180	121	336					04-30-81	NMC 193318
DARLA 5	02-12-81	119181	121	337					04-30-81	NMC 193319
DARLA 6	02-12-81	119182	121	338					04-30-81	NMC 193320
DARLA 7	02-12-81	119183	121	339					04-30-81	NMC 193321
DARLA 8	02-12-81	119184	121	340					04-30-81	NMC 193322
DARLA 9	02-12-81	119185	121	341					04-30-81	NMC 193323
DARLA 10	02-12-81	119186	121	342					04-30-81	NMC 193324
DARLA 11	02-12-81	119187	121	343					04-30-81	NMC 193325
DARLA 12	02-12-81	119188	121	344					04-30-81	NMC 193326
DARLA 13	02-12-81	119189	121	345					04-30-81	NMC 193327
DARLA 14	02-12-81	119190	121	346					04-30-81	NMC 193328
DARLA 15	02-12-81	119191	121	347					04-30-81	NMC 193329
DARLA 16	02-12-81	119192	121	348					04-30-81	NMC 193330
DARLA 17	03-02-81	119193	121	349					04-30-81	NMC 193331
DARLA 18	03-02-81	119194	121	350					04-30-81	NMC 193332

FREEPORT EXPLORATION COMPANY  
Stowman Inc. PROJECT, Humboldt COUNTY, Alaska

GENERAL:  
 DRILL HOLE NO. #1 TOTAL DEPTH 105 ft.  
 COLLAR ELEV. - COORDINATES - N - E  
 BEARING - INCLINATION -  
 LOGGED BY Dan Dezyoud  
 REASON FOR TERMINATION No sample return at this depth

DRILL DATA: ROTARY CORE  
 DRILLER Morris Strong  
 DATE STARTED 5/18 DATE COMPLETED 5/18  
 FOOTAGE PER SHIFT -

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING						
105	90	0						

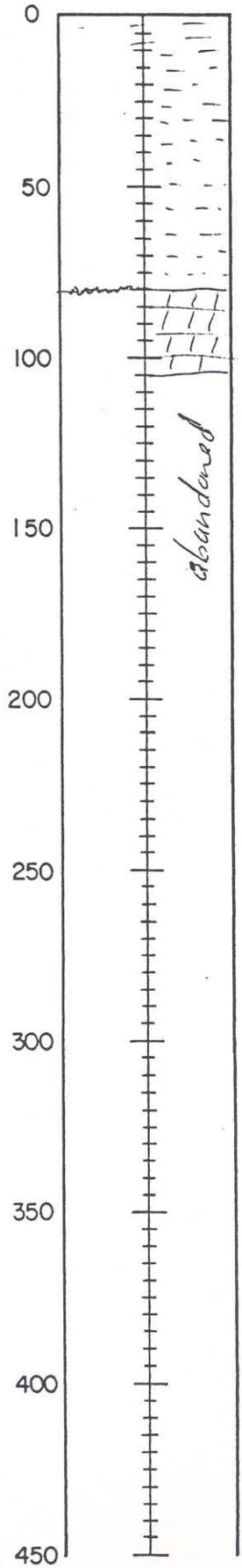
DRILLING PROBLEMS (SUMMARIZE) Lack of sample return at abund. depth.

SAMPLE DATA:  
 SAMPLE NUMBER SEQUENCE 2-21  
 NUMBER OF SAMPLES 20  
 INTERVALS SAMPLED 5 ft.

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:  
0-80 dk gray siltst of T<sub>2</sub> coarse yellow fm  
80-105 dk gray veined (calc) carbonaceous (slightly) lens of T<sub>2</sub> up fm



Legend

- |   |   |
|---|---|
|  |  |
| siltst  | lms.  |
| T <sub>2</sub> gv   | T <sub>2</sub> np   |

Scale: 1" = 50'

<u>SAMPLE #</u>	<u>Au (oz/ton)</u>
SM- 1- 2**	-.001
3	-.001
4	-.001
5	-.001
6	-.001
7	-.001
8	-.001
9	-.001
10	.001
SM- 1-11	.002
SM- 1-12	.001
13	.001
14	-.001
15	-.001
16	-.001
17	.003
18	-.001
19	-.001
20	-.001
SM- 1-21	-.001

FREEPORT EXPLORATION COMPANY  
Standard mine PROJECT, Humboldt COUNTY, NV

GENERAL:

DRILL HOLE NO. 1A TOTAL DEPTH 270  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY Dan Neegochi  
 REASON FOR TERMINATION Lack of sample returns

DRILL DATA:

ROTARY CORE  
 DRILLER M. Strong  
 DATE STARTED 5/18 DATE COMPLETED 5/18  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING						
270	90°	0°						

DRILLING PROBLEMS (SUMMARIZE) Lack of sample returns at 270 ft

SAMPLE DATA:

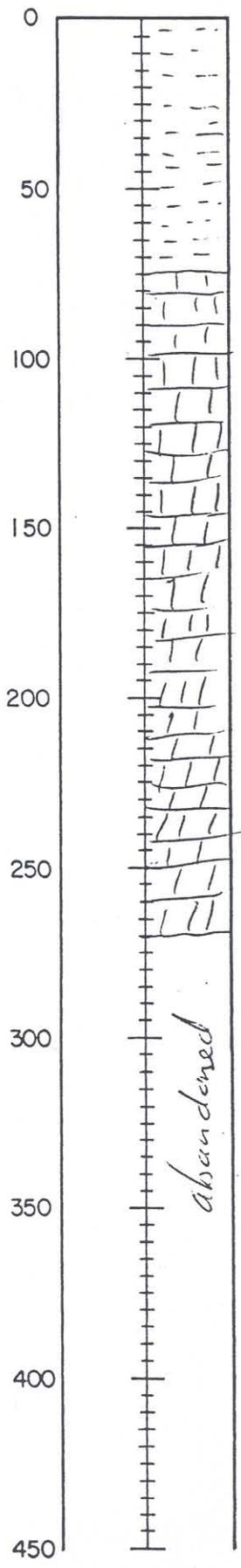
SAMPLE NUMBER SEQUENCE 2-54  
 NUMBER OF SAMPLES 53  
 INTERVALS SAMPLED 5 ft

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
		NIL					

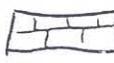
GEOLOGIC SUMMARY OF HOLE:

5-75' Dk gray con siltst; med soft, fine gravel, non-calc Tsgu  
75'-270' Dk gray lms quartzite. Fin. gravel calcareous veins; med. hard. Slightly carbonaceous; Tsgu.



  
siltst

  
Lsg  
lms.

  
Lsg  
lms.

Scale: 1" = 50'

SAMPLE #	Au (oz/ton)	SAMPLE #	Au (oz/ton)
SM-1A-2	-.001	SM-1A-27	.001
3	-.001	28	-.001
4	-.001	29	-.001
5	-.001	30	-.001
6	.001	31	-.001
7	.002	32	-.001
8	.001	33	-.001
9	.001	34	-.001
10	-.001	35	-.001
11	.001	36	-.001
12	.001	37	-.001
13	-.001	38	-.001
14	.002	39	-.001
15	.002	40	-.001
16	.001	SM-1A-41	-.001
17	.001	SM-1A-42**	.001
18	.001	43	.001
19	-.001	44	-.001
20	-.001	45	-.001
21	-.001	46	-.001
22	-.001	47	-.001
23	-.001	48	-.001
24	.002	49	-.001
25	.001	50	-.001
SM-1A-26	-.001	51	-.001
		52	-.001
		53	-.001
		SM-1A-54	-.001

FREEMPORT EXPLORATION COMPANY  
Standard mine PROJECT, Humboldt COUNTY, Nevada

GENERAL:

DRILL HOLE NO. #2 TOTAL DEPTH 255'  
 COLLAR ELEV. - COORDINATES - N - E -  
 BEARING - INCLINATION -  
 LOGGED BY D. Neze  
 REASON FOR TERMINATION lack of sample return

DRILL DATA: ROTARY CORE

DRILLER in. Strong  
 DATE STARTED 5-19 DATE COMPLETED 5-19  
 FOOTAGE PER SHIFT -

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING							
255	90°	0°							

DRILLING PROBLEMS (SUMMARIZE)  
Lack of sample return at 255'

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE 2-51  
 NUMBER OF SAMPLES 50  
 INTERVALS SAMPLED 5 ft.

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
		NIL					

GEOLOGIC SUMMARY OF HOLE:

5-135 dk gray-green silty sand beach, iron-calc, silicified limestone,  
Tru  
135-255' dk gray blk ls, beach, sparite, calcite veins, silicified limestone  
Tru



SAMPLE # Au (oz/ton)

SM- 2- 2	-.001
3	-.001
4	-.001
5	-.001
6	-.001
7	-.001
8	-.001
9	-.001
10	.001
11	.001
12	-.001
13	-.001
14	-.001
15	-.001
16	-.001
17	-.001
18	-.001
19	-.001
20	-.001
21	-.001
22	-.001
23	-.001
24	-.001
25	-.001
26	-.001
27	.001
28	.008
29	.001
30	-.001
SM- 2-31	-.001
SM- 2-32	.002
33	.009
34	.001
35	-.001
36	-.001
37	.001
38	.001
39	-.001
40	-.001
41	-.001
42	.001
43	.001
44	.002
45	.002
46	-.001
47	.001
48	.002
SM- 2-49	.003
SM- 2-51**	.002

SM FREEPORT EXPLORATION COMPANY  
PROJECT, Persh COUNTY, NV

GENERAL:

DRILL HOLE NO. SM 3 TOTAL DEPTH 335  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING vev INCLINATION \_\_\_\_\_  
 LOGGED BY DN  
 REASON FOR TERMINATION \_\_\_\_\_

DRILL DATA: ROTARY CORE

DRILLER Strong  
 DATE STARTED \_\_\_\_\_ DATE COMPLETED \_\_\_\_\_  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM 3-2 → 68  
 NUMBER OF SAMPLES 67  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
<u>205</u>	<u>210</u>	<u>.012</u>					
<u>215</u>	<u>220</u>	<u>.018</u>					

GEOLOGIC SUMMARY OF HOLE:

0-180 T26v siltstone w/ g7ite interbeds  
180-335 TRNP FRP - lost - gets carbonaceous down hole -  
may have caused into Prida - see clips

SAMPLE #	Au (oz/ton)
SM- 3- 2**	-.001
3	-.001
4	-.001
5	-.001
6	-.001
7	-.001
8	-.001
9	-.001
10	-.001
11	-.001
12	-.001
13	-.001
14	-.001
15	-.001
16	-.001
17	-.001
18	-.001
19	-.001
20	-.001
21	-.001
SM- 3-22	-.001
SM- 3-23	-.001
24	-.001
25	-.001
26	-.001
27	-.001
28	-.001
29	-.001
30	-.001
31	-.001
32	-.001
33	-.001
34	-.001
35	-.001
36	-.001
37	-.001
38	-.001
39	.005
40	-.001
SM- 3-41	.007
42	.010
43	.003
44	.014
45	.002
46	.001
47	-.001
48	.002
49	-.001
50	.001
51	.001
52	-.001

SAMPLE #	Au (oz/ton)
53	.003
54	.001
55	.001
56	.001
57	.001
58	.001
59	.001
60	-.001
61	-.001
SM- 3-62	-.001
SM- 3-63	.001
64	-.001
65	.001
66	-.001
67	.001
SM- 3-68	.002

FINE ASSAY CHECKS

SAMPLE #	Au (oz/ton)
SM- 3-42	.012
SAMPLE #	Au (oz/ton)
SM- 3-44	.018

FREEPORT EXPLORATION COMPANY

SM PROJECT, Berth COUNTY, NV

GENERAL:

DRILL HOLE NO. SM4 TOTAL DEPTH 360  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING W 20° E INCLINATION \_\_\_\_\_  
 LOGGED BY DN  
 REASON FOR TERMINATION drill problems

DRILL DATA:

ROTARY CORE  
 DRILLER Rmrock  
 DATE STARTED \_\_\_\_\_ DATE COMPLETED \_\_\_\_\_  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM4-2 thru SM4-72  
 NUMBER OF SAMPLES 71  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

0-200 F6v silty sand, locally qtz veined, locally carbonaceous, micritic  
200-240 F6p - Trsp silty sand qtz-CaCO<sub>3</sub> veined mat  
240-330 F6p dk grey mat w/ CaCO<sub>3</sub> veins  
330-360 F6p? silty mat, grey w/ greenish brn - probably Prida

SAMPLE #	Au (oz/ton)
SM-4- 2	-.001
3	-.001
4	-.001
5	-.001
6	-.001
7	-.001
8	-.001
9	-.001
10	-.001
11	-.001
12	-.001
13	-.001
14	-.001
15	-.001
16	-.001
17	-.001
18	-.001
19	-.001
20	-.001
21	-.001
22	-.001
23	-.001
24	-.001
25	-.001
SM-4-26	-.001
SM-4-27	-.001
28	-.001
29	-.001
30	-.001
31	-.001
32	-.001
33	-.001
34	-.001
35	-.001
36	-.001
37	-.001
38	-.001
39	-.001
40	-.001
41	-.001
42	-.001
43	-.001
44	-.001
45	-.001
46	-.001
47	-.001
48	-.001
49	-.001
50	-.001
SM-4-51	-.001

SAMPLE #	Au (oz/ton)
SM- 4-52**	-.001
53	-.001
54	-.001
55	-.001
56	-.001
57	-.001
58	-.001
59	-.001
60	.001
61	.001
62	-.001
63	-.001
64	-.001
65	-.001
66	-.001
67	.003
68	.001
69	-.001
70	-.001
71	-.001
SM- 4- 72	-.001

FREEPORT EXPLORATION COMPANY

Standard Mine PROJECT, Humboldt COUNTY, NW

GENERAL:

DRILL HOLE NO. #5 TOTAL DEPTH 400'  
 COLLAR ELEV. — COORDINATES — N — E  
 BEARING — INCLINATION —  
 LOGGED BY John Clark  
 REASON FOR TERMINATION hole completed to target

DRILL DATA:

ROTARY CORE  
 DRILLER Morris Strong  
 DATE STARTED 5/22/81 DATE COMPLETED 5/22/81

FOOTAGE PER SHIFT —

BOREHOLE SURVEY:	DEPTH	ANGLE	BEARING						
	400'	90	0						

DRILLING PROBLEMS (SUMMARIZE) none

SAMPLE DATA:

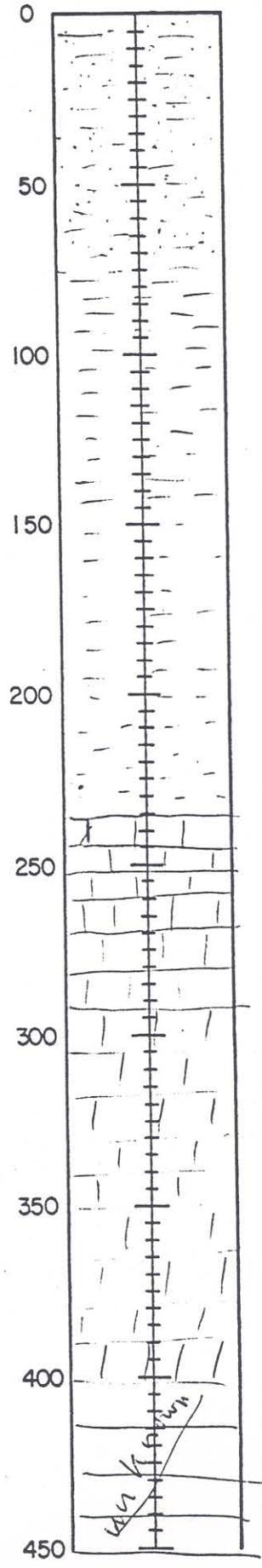
SAMPLE NUMBER SEQUENCE #2-80  
 NUMBER OF SAMPLES 79  
 INTERVALS SAMPLED 5 ft.

MINERALIZED INTERVAL: ROAST AA

FROM	TO	FIRE ASSAY GRADE	<del>COLD CYA-NIDE GRADE</del>	FROM	TO	FIRE ASSAY GRADE	<del>COLD CYA-NIDE GRADE</del>
330	335		.011				

GEOLOGIC SUMMARY OF HOLE:

0-20 Dk green g-tite; dirty - varying to dk grey siltstone, non-calc  
 20-220 Dk grey siltst, much bent; non-calc, carbonaceous, limestone stained  
 220- Dk grey to black lens, varying w/ carbon; occasionally siliceous/red; carbonaceous  
 sand & silt; silty fine sand which may be calcareous



Legend



Scale: 1" = 50'

SAMPLE #	Au (oz/ton)
SM- 5- 2**	-.001
3	-.001
4	-.001
5	-.001
6	-.001
7	-.001
8	-.001
9	-.001
10	-.001
11	-.001
12	-.001
13	-.001
14	-.001
15	-.001
16	-.001
17	-.001
18	-.001
19	-.001
20	-.001
21	-.001
22	-.001
23	-.001
24	.002
25	-.001
26	-.001
27	-.001
28	-.001
29	-.001
SM- 5-30	-.001

SAMPLE #	Au (oz/ton)
SM-5-31	-.001
32	-.001
33	-.001
34	-.001
35	-.001
36	-.001
37	-.001
38	-.001
39	-.001
40	-.001
41	-.001
42	-.001
43	-.001
44	-.001
45	-.001
46	-.001
47	.002
48	-.001
49	-.001
50	-.001
51	.002
52	-.001
53	-.001
54	-.001
55	-.001
56	-.001
57	-.001
58	-.001
59	-.001
60	-.001
61	-.001
62	-.001
63	.003
64	.003
65	.002
66 <sup>330</sup>	.004
67	.011
68	.003
69	.002
70	.002
71	-.001
72	.001
73	.001
74	-.001
SM-5-75	-.001
SM-5-76	-.001
77	-.001
78	-.001
79	-.001
SM-5-80	-.001

FREEMPORT EXPLORATION COMPANY  
Standard mine PROJECT, Humboldt COUNTY, Nevada

GENERAL:

DRILL HOLE NO. 6 TOTAL DEPTH 400'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY John Clark  
 REASON FOR TERMINATION Completed to target

DRILL DATA:

ROTARY CORE  
 DRILLER Morris Strong  
 DATE STARTED 5/22/81 DATE COMPLETED 5/23/81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING						
400'	90	0						

DRILLING PROBLEMS (SUMMARIZE) None

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SAMPLE DATA:

SAMPLE NUMBER SEQUENCE ~~5-80~~ 2-80  
 NUMBER OF SAMPLES 79  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

5' - 270'  
 Dk gray, non-calc, non-siliceous siltst, some dk green gtzite & free gtz  
 Occasional pyrite and increasing carbon shows as lms. contact approaches

270' - 400'  
 Dk gray to lt gray colored lms., less calcite veining than seen in other holes; occasional limonite, pyrite

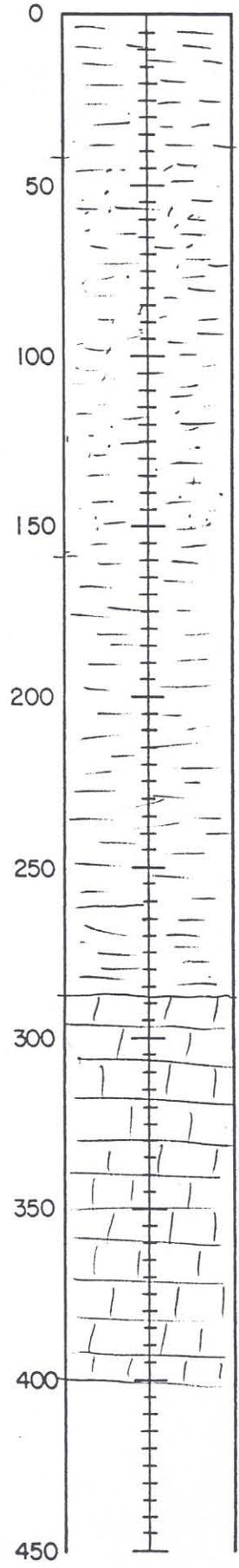
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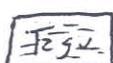
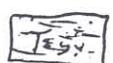
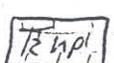
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Legend

-  Siltst.
-  Siltst + fteite
-  lms.

Scale: 1" = 50'

SAMPLE # Au (oz/ton)

SM- 6- 2\*\* -.001  
3 -.001  
4 -.001  
5 -.001  
6 -.001  
7 -.001  
8 -.001  
9 -.001  
10 -.001  
SM- 6-11 -.001  
SM- 6-12 -.001  
13 -.001  
14 -.001  
15 -.001  
16 -.001  
17 -.001  
18 -.001  
19 -.001  
20 -.001  
21 -.001  
22 -.001  
23 -.001  
24 -.001  
25 -.001  
26 -.001  
27 -.001  
28 -.001  
29 -.001  
30 -.001  
31 -.001  
32 -.001  
33 -.001  
34 -.001  
35 -.001  
36 -.001  
37 -.001  
38 -.001  
39 -.001  
40 -.001  
41 -.001  
42 -.001  
43 -.001  
44 -.001  
45 -.001  
46 -.001  
47 -.001  
48 .001  
49 .001  
50 .001  
SM- 6-51 .001

SAMPLE # Au (oz/ton)

SM-6-52 -.001  
53 -.001  
54 -.001  
55 -.001  
56 -.001  
57 -.001  
58 -.001  
59 -.001  
60 -.001  
61 -.001  
62 -.001  
63 -.001  
64 -.001  
65 -.001  
66 -.001  
67 -.001  
68 -.001  
69 -.001  
70 -.001  
71 -.001  
72 -.001  
73 -.001  
74 -.001  
75 -.001  
76 -.001  
77 -.001  
78 -.001  
79 -.001  
SM-6-80 -.001

FREEPORT EXPLORATION COMPANY  
Standard Mine PROJECT, Humboldt COUNTY, Nevada

GENERAL:

DRILL HOLE NO. 7 TOTAL DEPTH 400'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY John Clark  
 REASON FOR TERMINATION Completed to target

DRILL DATA:

ROTARY CORE  
 DRILLER Morris Strong  
 DATE STARTED MAY 24, 1981 DATE COMPLETED MAY 24  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	400'						
ANGLE	90°						
BEARING	0°						

DRILLING PROBLEMS (SUMMARIZE) None

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE # 2-80  
 NUMBER OF SAMPLES 79  
 INTERVALS SAMPLED 5 feet

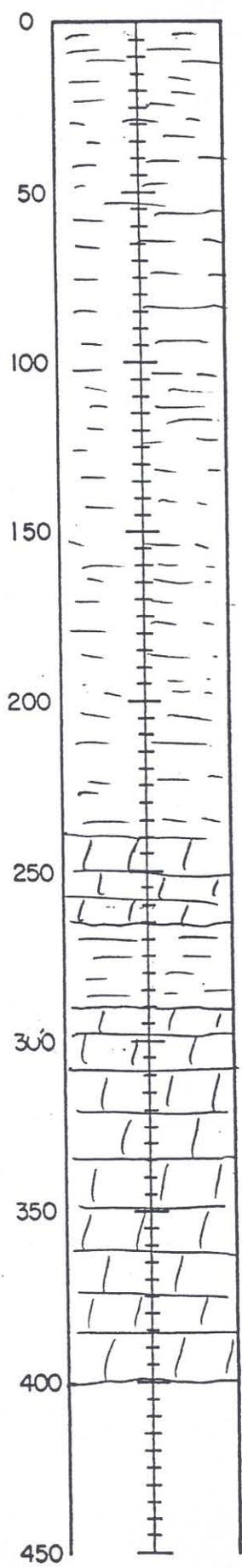
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

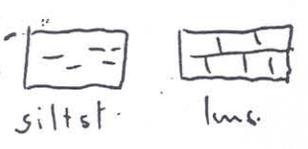
NIL

GEOLOGIC SUMMARY OF HOLE:

5'-235' Dk green, med hard siltst.; iron-calc; non-siliceous; limonitic  
 carbon inc. w/ depth  
235'-265' Lt-med gray lms., not siliceous; no veining (calcite); Red pigmented  
 med hematite?  
265'-285' Highly carboniferous soft black siltstone grading down to dk  
 green siltst.  
285'-400' Sarcosite lms.; unsilicified, unvened (calcite); carboniferous  
~~toward hole bottom~~  
380-400 Pyrite - very calcareous @ bottom of hole



Legend:



Scale: 1" = 50'

SAMPLE #	Au (oz/ton)	SAMPLE #	Au (oz/ton)
SM-7- 2	-.001	53	-.001
3	-.001	54	-.001
4 **	-.001	55	-.001
6	-.001	56	-.001
7 **	-.001	SM-7-57	-.001
7 (dupl.)	-.001	SM-7-58	-.001
8	-.001	59	-.001
9	-.001	60	-.001
10	-.001	61	-.001
11	-.001	62	-.001
SM-7-12	-.001	63	-.001
SM-7-13	-.001	64	-.001
14	-.001	65	-.001
15	-.001	66	-.001
16	-.001	67	-.001
17	-.001	68	-.001
18	-.001	69	-.001
19	-.001	70	-.001
20	-.001	71	-.001
21	-.001	72	-.001
22	-.001	73	-.001
23	-.001	74	-.001
24	-.001	75	-.001
25	-.001	76	-.001
26	-.001	77	-.001
27	-.001	78	-.001
28	-.001	79	-.001
29	-.001	SM-7-80	-.001
30	-.001		
31	-.001		
32	-.001		
33	-.001		
34	-.001		
35	-.001		
36	-.001		
37	-.001		
38	-.001		
39	-.001		
40	-.001		
41	-.001		
42	-.001		
43	-.001		
44	-.001		
45	-.001		
46	-.001		
47	-.001		
48	-.001		
49	.009		
50	.008		
51	.006		
52	.009		

FREEPORT EXPLORATION COMPANY

Stand mine PROJECT, Humboldt COUNTY, Nevada

GENERAL:

DRILL HOLE NO. 8 TOTAL DEPTH 400 ft.  
 COLLAR ELEV. — COORDINATES — N — E  
 BEARING — INCLINATION —  
 LOGGED BY John Clark  
 REASON FOR TERMINATION target depth

DRILL DATA:

ROTARY CORE  
 DRILLER Morris Strong  
 DATE STARTED 5/25/81 DATE COMPLETED 5/25  
 FOOTAGE PER SHIFT —

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING						
400'	90°	0°						

DRILLING PROBLEMS (SUMMARIZE) hard lens, slow drilling, badly chipped bit at 380-400 ft.

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE #2-#80  
 NUMBER OF SAMPLES 79  
 INTERVALS SAMPLED 5 ft.

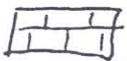
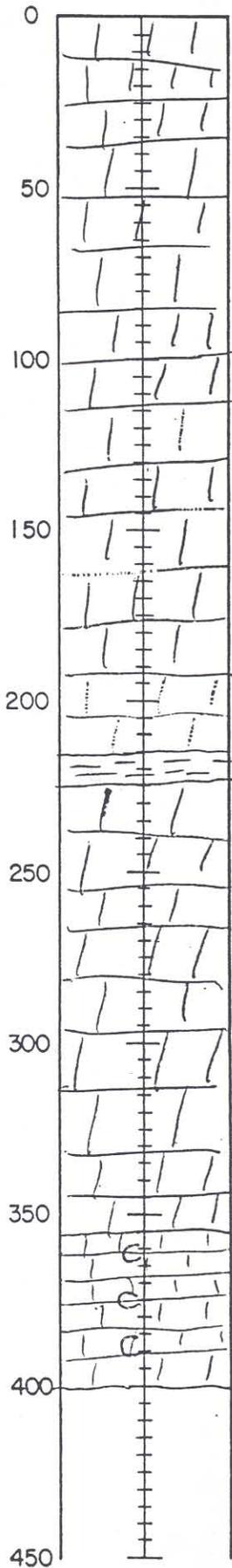
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

NIL

GEOLOGIC SUMMARY OF HOLE:

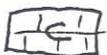
0-215 Hard siltstone lt to med gray un veined calc, un silicified lens.  
215-220 Red siltstone  
220-350 lt to dk gray siltstone, non-veined, not silicified, somewhat oxidized lens.  
350-400 Highly carbonaceous, pyritic, very hard black lens; some vein calc.



Fmp lms.



siltst (cred)



Carboniferous + pyritic lms.

Scale: 1" = 50'

SAMPLE #	Au (oz/ton)	SAMPLE #	Au (oz/ton)
SM-8- 2	.003	SM-8-32	-.001
3	.004	33	-.001
4	.003	34	-.001
5	.003	35	-.001
6	.001	36	-.001
7	.001	37	-.001
8	-.001	38	.003
9	-.001	39	.006
10	-.001	40	.002
11	-.001	41	-.001
12	-.001	42	-.001
13	-.001	43	-.001
14	-.001	44	-.001
15	-.001	45	-.001
16	-.001	46	-.001
17	-.001	47	-.001
18	-.001	48	-.001
19	-.001	49	-.001
20	-.001	50	-.001
21	.002	51	-.001
22	-.001	52	-.001
SM-8-23	-.001	53	-.001
SM-8-24	-.001	54	-.001
25	.001	55	-.001
26	.002	SM-8-56	-.001
27	-.001	SM-8-57	-.001
SM-8-28	-.001	58	-.001
SM-8-29	-.001	59	-.001
30	-.001	60	-.001
SM-8-31 **	-.001	61	-.001
		62	-.001
		63	-.001
		64	-.001
		65	-.001
		66	-.001
		67	-.001
		68	-.001
		69	-.001
		70	-.001
		71	-.001
		72	-.001
		73	-.001
		74	-.001
		75	-.001
		76	-.001
		77	-.001
		78	-.001
		79	-.001
		SM-8-80	-.001

FREEPORT EXPLORATION COMPANY  
Standard Mine PROJECT, Humboldt COUNTY, KV

GENERAL:

DRILL HOLE NO. #9 TOTAL DEPTH 400'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY JOHN CLARK  
 REASON FOR TERMINATION Depth reached

DRILL DATA:

ROTARY CORE  
 DRILLER M. Strong  
 DATE STARTED 5/27/81 DATE COMPLETED 5/27/81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	400'						
ANGLE	90°						
BEARING	0						

DRILLING PROBLEMS (SUMMARIZE) Water + very slow drilling last 5ft.

SAMPLE DATA:

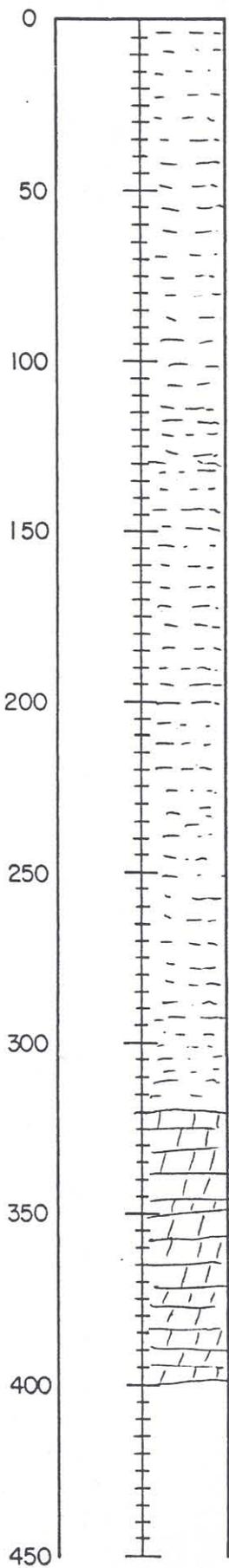
SAMPLE NUMBER SEQUENCE 2-80  
 NUMBER OF SAMPLES 79  
 INTERVALS SAMPLED 5 feet

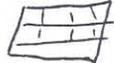
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

5-320' Dk green siltstone T90; carbon bearing in most of hole, non-silicified, non-calc  
320'-400' Dk gray lms; calc cemented; un-silicified; very little oxidation most is highly carboniferous.



Legend:  
  
fs v  
siltst  
  
fs v  
limest.

Scale: 1" = 50'

<u>SAMPLE #</u>	<u>Au (oz/ton)</u>	<u>SAMPLE #</u>	<u>Au (oz/ton)</u>
SM-9- 2	-.001	SM-9-52	-.001
3	.003	53	-.001
4	.002	54	-.001
5	-.001	55	-.001
6	-.001	56	-.001
7	.001	57	-.001
8	.001	58	-.001
9	-.001	59	-.001
10	-.001	60	.001
11	-.001	61	-.001
12	-.001	62	.001
13	.001	63	-.001
14	.003	64	-.001
15	.001	65	-.001
16	-.001	SM-9-66	-.001
17	-.001		
18	.001	<u>SAMPLE #</u>	<u>Au (oz/ton)</u>
19	.001	SM-9-67	-.001
20	-.001	68	-.001
21	-.001	69	-.001
22	-.001	70	-.001
23	-.001	71	-.001
24	-.001	72	-.001
25	.001	73	-.001
SM-9-26	-.001	74	-.001
SM-9-27	.001	75	-.001
28	-.001	76	-.001
29	.001	77	-.001
30	.001	78	-.001
31	.001	79	-.001
32	.001	SM-9-80	-.001
33	-.001		
34	-.001		
35	-.001		
36	-.001		
37	-.001		
38	-.001		
39	-.001		
40	.001		
41	.001		
42	-.001		
43	-.001		
44	-.001		
45	.002		
46	.001		
47	-.001		
48	-.001		
49	-.001		
50	.001		
SM-9-51	.001		

FREEPORT EXPLORATION COMPANY

STAND. MINE PROJECT, Humboldt COUNTY, Nevada

GENERAL:

DRILL HOLE NO. 10 TOTAL DEPTH 445  
 COLLAR ELEV.        COORDINATES        N        E  
 BEARING        INCLINATION         
 LOGGED BY John Clark  
 REASON FOR TERMINATION Attempting 450', lack of sample return

DRILL DATA: ROTARY CORE

DRILLER Mr Strong  
 DATE STARTED 5/28/81 DATE COMPLETED 5/28  
 FOOTAGE PER SHIFT       

BOREHOLE SURVEY:	DEPTH	445'						
	ANGLE	90°						
	BEARING	0°						

DRILLING PROBLEMS (SUMMARIZE)

- 1) Formation water (or groundwater) at 435-440'
- 2) Losing pumped water at 440' on (probably due to fracture)

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE 2-89  
 NUMBER OF SAMPLES 88  
 INTERVALS SAMPLED 5 feet

MINERALIZED INTERVAL:

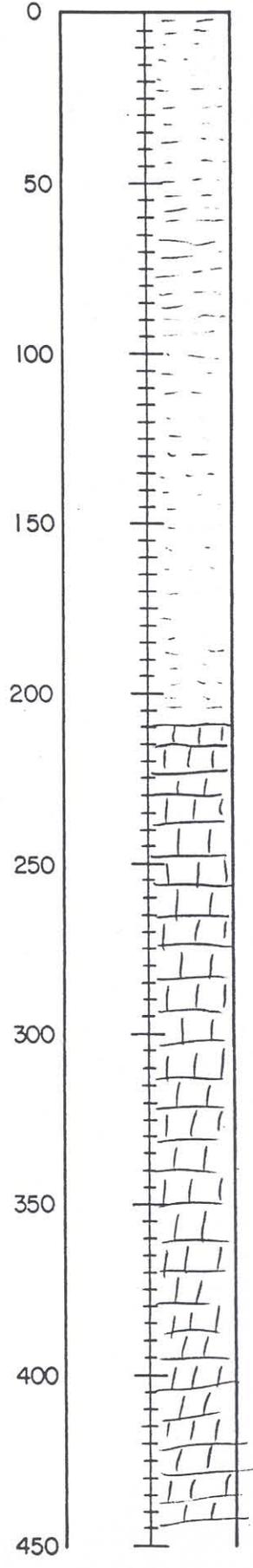
FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
285	295	10@.023					

GEOLOGIC SUMMARY OF HOLE:

5-210' OK gray to green siltstone; un-silicified, but some free gtz; non-calcareous; oxidized (T2 gu)

210'-445' 315' med to OK gray limestone, med is calcite v. med; all is un-silicified; oxidized (limonite + hematite); med is carbonaceous especially carbonaceous at bottom of hole (approx 50 feet)

315'-445' Carbonaceous, black, med. hard lms T2 p



Fe gy  
siltst



Fe mp  
linst.

Scale: 1" = 50'

SAMPLE # Au(oz/ton)

SM-10-2\*\*

-.001

SM-10- 3	-.001
4	-.001
5	-.001
6	-.001
7	-.001
8	-.001
9	-.001
10	-.001
11	-.001
12	-.001
13	-.001
14	-.001
15	-.001
16	-.001
17	-.001
18	-.001
19	-.001
20	-.001
21	-.001
22	-.001
23	-.001
24	-.001
25	-.001
26	-.001
27	-.001
28	-.001
29	-.001
30	-.001
31	-.001
32	-.001
33	-.001
34	-.001
35	-.001
36	-.001
37	.001
38	-.001
39	-.001
40	.001
41	-.001
SM-10-42	.001
SM-1-43	.002
44	-.001
45	-.001
46	.001
47	.002
48	-.001
49	.001
50	.001
SM-10-51	-.001

Fire Assay

Roasted

Cy Leach

SAMPLE #

Au(oz/ton)

Au(oz/ton)

SM-10-52		.001
53		.003
54		-.001
55		-.001
56		.002
57 <sup>20x</sup>		.001
58	.028	.028
59 <sup>AS</sup>	.018	.016
60		.003
61		.003
62		.003
63		-.001
64		-.001
65		-.001
66		-.001
67		-.001
68		-.001
69		.001
70		-.001
71		-.001
72		-.001
73		-.001
74		-.001
75		-.001
SM-10-76		-.001

Roasted

Cy leach

SAMPLE #

Au(oz/ton)

SM-10-77	-.001
78	-.001
79	-.001
80	-.001
81	-.001
82	-.001
83	-.001
84	-.001
85	-.001
86	-.001
87	-.001
88	-.001
SM-10-89 **	-.001

FREEPORT EXPLORATION COMPANY  
Standard PROJECT, Humboldt COUNTY, NV

GENERAL:

DRILL HOLE NO. SM-11 TOTAL DEPTH 400 ft.  
 COLLAR ELEV. - COORDINATES - N - E  
 BEARING - INCLINATION -  
 LOGGED BY John Clark  
 REASON FOR TERMINATION target depth + poor return of sample

DRILL DATA:

ROTARY CORE  
 DRILLER Morris Strong  
 DATE STARTED May 29, 1981 DATE COMPLETED 5/29  
 FOOTAGE PER SHIFT -

BOREHOLE SURVEY:

DEPTH	400'						
ANGLE	90°						
BEARING	0						

DRILLING PROBLEMS (SUMMARIZE)

V. Slow drilling & no sample return, loss of some pumped water + flow bet 215' - ~~220~~ 225'  
Poor return at bottom of hole 390' - 400'

SAMPLE DATA:

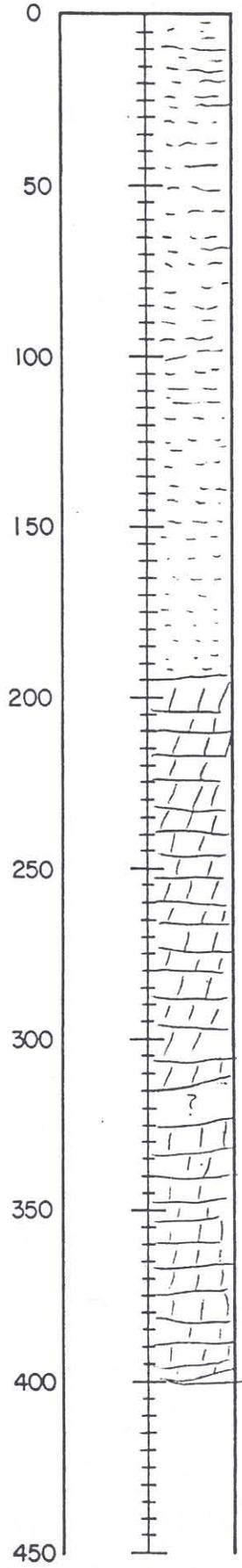
SAMPLE NUMBER SEQUENCE #2-80  
 NUMBER OF SAMPLES 79  
 INTERVALS SAMPLED 5 ft.

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

0 - ~~100~~ 200 dk gray mud salt siltst.; unslificed, some free qtz  
xilli sed; carbon shows on many samples  
~~100~~ 200 - 400 dk gray sil. veined lens; unslificed; oxidized; successic  
lower in hole; some of oxidation is hematitic;



  
siltst.

  
limestone

Scale: 1" = 50'

SAMPLE # Au (oz/ton)

SM-11- 2 -.001  
3 -.001  
4 -.001  
5 -.001  
6 -.001  
7 -.001  
8 -.001  
  
9 -.001  
10 -.001  
SM-11-11 \*\* -.001

SM-11-12\*\* -.001

13 -.001  
14 -.001  
15 -.001  
16 -.001  
17 -.001  
18 -.001  
19 -.001  
20 -.001  
21 -.001  
22 -.001

23 -.001  
24 -.001  
25 -.001  
26 -.001  
27 -.001  
28 -.001  
29 -.001  
30 -.001  
31 -.001  
32 -.001

33 -.001  
34 -.001  
35 -.001  
36 -.001  
37 -.001  
38 -.001  
39 -.001  
40 -.001

SM-11-41 -.001  
SM-11-42 -.001

SAMPLE # Au (oz/ton)

SM-11-43 -.001  
44 -.001  
45 -.001  
46 -.001  
47 -.001  
48 .003  
49 .002  
50 .001  
51 .001  
52 .002  
  
53 .005  
54 .006  
55 .001  
56 .002  
57 .002  
58 -.001  
59 -.001

SAMPLE # Au (oz/ton)

SM-11-60 .001  
61 .003  
SM-11-62 .006  
SM-11-65\*\* .002  
66 .001  
67 .001  
68 .001  
69 .001  
70 .002  
71 .001  
  
72 -.001  
73 .001  
74 -.001  
75 -.001  
76 -.001  
77 -.001  
SM-11-78 -.001

FREEPORT EXPLORATION COMPANY  
Stand. M. PROJECT, Humboldt COUNTY, Nev.

GENERAL:

DRILL HOLE NO. Sm-12 TOTAL DEPTH 300'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY Clark  
 REASON FOR TERMINATION No sample; loss of water and foam

DRILL DATA:

ROTARY CORE  
 DRILLER Strong  
 DATE STARTED 5/30/81 DATE COMPLETED 5/30  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	300'						
ANGLE	90°						
BEARING	00						

DRILLING PROBLEMS (SUMMARIZE)

Loss of water and foam pumped in between 300' + 320'. No sample returned to surface either

SAMPLE DATA:

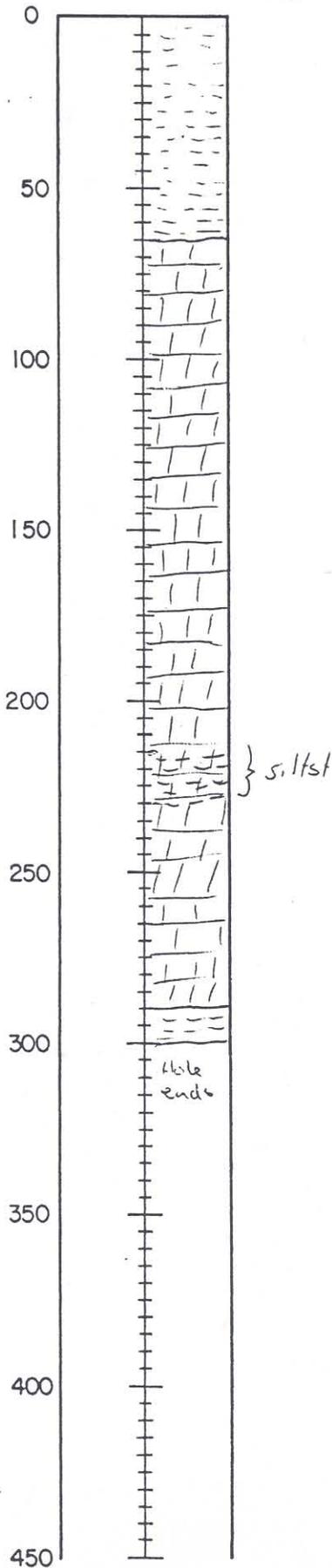
SAMPLE NUMBER SEQUENCE 2-60  
 NUMBER OF SAMPLES 59  
 INTERVALS SAMPLED 5 ft.

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
125	130	5' @ .018					

GEOLOGIC SUMMARY OF HOLE:

0-65 Dk gray to green fluggy siltst; med soft, no qtz, oxidized; some limy surfaces  
65-270 Dk gray lens, unsilicified, wetted w/ calc, oxidized, some hematite some siltst. mixed in; qtz in some samples  
270-300 Dark gray, moderately soft siltst. mixed w/ qtz; very oxidized  
→ Hole abandoned; ~~lack~~ lack of sample return.



  
siltst

  
msl

Scale: 1" = 50'

SAMPLE #	Fire Assay Au(oz/ton)	Roasted Cy Leach Au(oz/ton)	SAMPLE #	Fire Assay Au(oz/ton)	Roasted Cy Leach Au(oz/ton)
SM-12-2		-.001	51		-.001
3		-.001	52		-.001
4		-.001	53		-.001
5		-.001	54		-.001
6		-.001	55		-.001
7		-.001	56		-.001
8		-.001			
9		.001	57		-.001
10		-.001	58		-.001
SM-12-11		-.001	59		-.001
SM-12-12	-.001		SM-12-60		-.001
13	-.001				
14	.004				
15	-.001				
16	-.001				
17	.002				
18	-.001				
19	-.001				
20	-.001				
SM-12-21	-.001				
SM-12-22**		-.001			
23		-.001			
24		-.001			
25		.004			
26	.018	.018			
27		.002			
28		-.001			
29		.001			
30		.006			
31		.002			
32		-.001			
33		-.001			
34		-.001			
35		-.001			
SM-12-36		-.001			
SM-12-37		.003			
38		.005			
39		.009			
40		.003			
41		.003			
42		.003			
43		.003			
44		.003			
45		.001			
46		.003			
47		-.001			
48		-.001			
49		.001			
50		-.001			

FREEPORT EXPLORATION COMPANY

Standard PROJECT, Humboldt COUNTY, Nei

GENERAL:

DRILL HOLE NO. #13 TOTAL DEPTH 435 ft  
 COLLAR ELEV. — COORDINATES — N — E  
 BEARING — INCLINATION —  
 LOGGED BY J. Clark  
 REASON FOR TERMINATION Loss of sample return

DRILL DATA: ROTARY CORE

DRILLER Morris Strong  
 DATE STARTED May 31 1971 DATE COMPLETED 5/31/81  
 FOOTAGE PER SHIFT —

BOREHOLE SURVEY:	DEPTH	ANGLE	BEARING						
	435'	90'	0°						

DRILLING PROBLEMS (SUMMARIZE)

Fluids migrated outwards and sample not returned at 435'

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE 2-27  
 NUMBER OF SAMPLES 86  
 INTERVALS SAMPLED 5 feet

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
5	10	5' @ .032					

GEOLOGIC SUMMARY OF HOLE:

5-10 Appears to be zone of glaucophane, but could be silicified ls, non-calc; oxidized  
10-195 Dk gray lms; silicified in sections; some calcite veining; oxidized  
2 Silty zones  
195-435 Black carbonaceous lms; calcite veining variable; most is oxidized; not siliceous; very laminitic in basal 10 ft of hole.  
435- drilling continued, but no sample or pumped in fluids returned  
 Hole not blocked above, high permeability concluded. Driller reported "holes" in this zone; one above 18 in. deep, just beyond 435'



SAMPLE #	Au(oz/ton)
SM-13- 2**	.032 .020
SM-13- 3	.006
4	.002
5	.001
6	.001
7	.002
8	.006
9	.004
10	-.001
11	-.001
12	-.001
13	-.001
14	-.001
15	.005
16	-.001
17	-.001
18	.002
19	.003
20	.002
21	.003
22	-.001
23	-.001
24	.003
25	-.001
26	.001
SM-13-27	.002
SM-13-28	-.001
29	-.001
30	-.001
31	-.001
32	.001
33	.001
34	-.001
35	-.001
36	-.001
37	-.001
38	-.001
39	-.001
40	-.001
41	-.001
42	-.001
43	.001
44	.001
45	.001
46	-.001
47	-.001
48	-.001
49	-.001
50	-.001
SM-13-51	.001

SAMPLE #	Au(oz/ton)
SM-13-52	-.001
SM-13-53	-.001
SM-13-54	-.001
55	-.001
56	-.001
57	-.001
58	-.001
59	-.001
60	-.001
61	-.001
62	-.001
63	-.001
64	-.001
65	-.001
66	-.001
67	-.001
68	-.001
69	-.001
70	-.001
71	-.001
72	-.001
73	-.001
74	-.001
75	-.001
76	-.001
77	-.001
78	-.001
79	-.001
80	-.001
SM-13-81 **	-.001
SM-13-82	-.001
83	-.001
84	-.001
85	-.001
86	-.001
SM-13-87	-.001

FREEPORT EXPLORATION COMPANY  
Standard Mine PROJECT, Humboldt COUNTY,  Nev

GENERAL:

DRILL HOLE NO. Sm-14 TOTAL DEPTH 400'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY J. Clark  
 REASON FOR TERMINATION Target depth

DRILL DATA:

ROTARY CORE  
 DRILLER M. Strong  
 DATE STARTED June 1, 81 DATE COMPLETED June 1, 1981  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	<u>400'</u>						
ANGLE	<u>90°</u>						
BEARING	<u>0°</u>						

DRILLING PROBLEMS (SUMMARIZE)  
Hammer had to be changed past 200'

SAMPLE DATA:

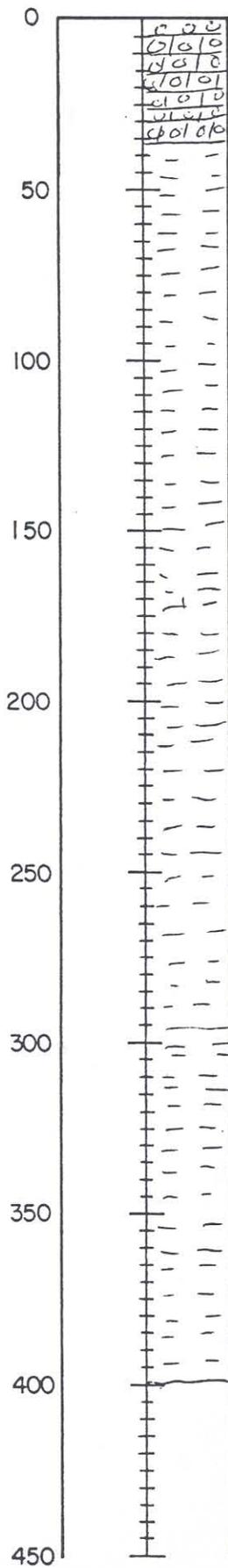
SAMPLE NUMBER SEQUENCE # 2-80  
 NUMBER OF SAMPLES 79  
 INTERVALS SAMPLED 5 ft.

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

5-35 ft. Hard, dark gray lens with calcite veins; un-silicified; covered w/ soft whitish lime; oxidized; some chips v. hard & do not react with hcl. Resembles Twp lens, & could be alluvial  
35-400' Dark gray & dark green, un-silicified siltst.; generally has some free qtz until bottom of hole; non-calc.; minor manganese oxidation; carbon associated, but in small quartz.



s	o	o
s	o	o

s	o	o
s	o	o

—	—	—
---	---	---

alluvial  
 lms.

siltst

Scale: 1" = 50'

SAMPLE #	Au(oz/ton)
SM-14- 2**	-.001
3	-.001
4	-.001
5	-.001
6	.002
7	-.001
8	-.001
9	-.001
10	-.001
11	-.001
12	-.001
13	-.001
14	-.001
15	-.001
16	-.001
17	-.001
18	-.001
19	-.001
SM-14-20	-.001
SM-14-21	-.001
SM-14-22	-.001
23	-.001
24	-.001
25	-.001
26	-.001
27	-.001
28	-.001
29	-.001
30	-.001
31 **	-.001
SM-14-32**	-.001
33	-.001
34	-.001
35	-.001
36	-.001
37	-.001
38	-.001
39	-.001
40	-.001
41	-.001
42	-.001
43	-.001
44	-.001
45	-.001
46	-.001
47	-.001
48	-.001
49	-.001
50	-.001
SM-14-51	-.001
52	-.001
SM-14-53	-.001

SAMPLE #	Au(oz/ton)
SM-14-54	-.001
55	-.001
56	-.001
57	.001
58	.001
59	-.001
60	-.001
61	-.001
62	-.001
63	-.001
64	-.001
65	-.001
66	-.001
67	-.001
68	-.001
69	-.001
70	-.001
71	-.001
72	-.001
73	-.001
74	-.001
75	-.001
76	-.001
77	-.001
78	-.001
79	-.001
SM-14-80 **	-.001

FREEPORT EXPLORATION COMPANY  
Standard Mine PROJECT, Humboldt COUNTY, NV

GENERAL:

DRILL HOLE NO. SM-16 TOTAL DEPTH 400 ft  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY John Clark  
 REASON FOR TERMINATION target

DRILL DATA:

ROTARY CORE  
 DRILLER m. Strong  
 DATE STARTED June 1, 1981 DATE COMPLETED 6/2/81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	450'						
ANGLE	90°						
BEARING	0°						

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
None

SAMPLE DATA:

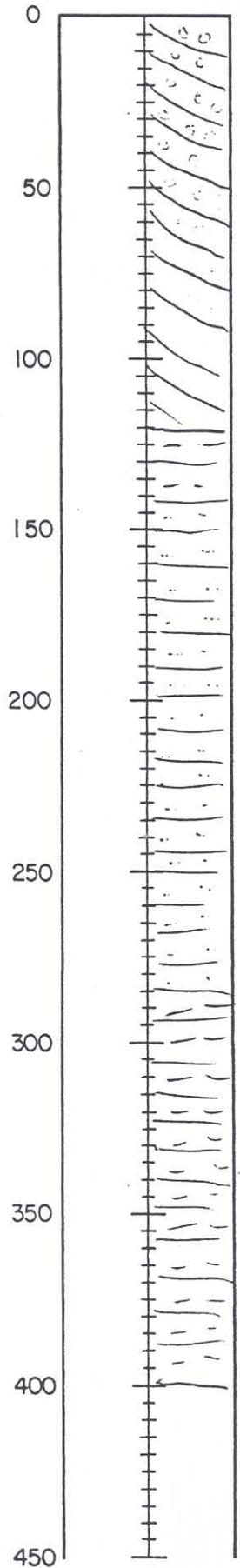
SAMPLE NUMBER SEQUENCE #2-#80  
 NUMBER OF SAMPLES 79  
 INTERVALS SAMPLED 5 feet

MINERALIZED INTERVAL:

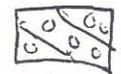
FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

5 - 115 Alluvial gravel; lens + gtz; oxidized.  
115 - 125 Black, carbonaceous siltst; non-silicified; ana-calc; minor oxidation; some amt gtz  
125 - 220 Dk green to dk gray siltst; med soft; gtz in varying proportions  
220 - 40 Dk gray, med. soft siltst; no oxidation; carbonaceous; ~~some~~ pyrites; varying gtz.



Legend



Alluvium



siltsf. (Fzgu)

Scale: 1" = 50'

SAMPLE #	Au (oz/ton)
SM-15- 4	-.001
5	-.001
6	-.001
7	-.001
8	-.001
9	-.001
10	-.001
11	-.001
12	-.001
13	-.001
14	-.001
15	-.001
SM-15-16	-.001
SM-15-17	-.001
18	-.001
19	-.001
20	-.001
21	-.001
22	-.001
23	-.001
24	-.001
25	-.001
26	-.001
27	-.001
28	-.001
29	-.001
30	-.001
31	-.001
32	-.001
33	-.001
34	-.001
35	-.001
36	-.001
37	-.001
38	-.001
39	-.001
40	-.001
41	-.001
42	-.001
43	-.001
44	-.001
45	-.001
46	-.001
47	-.001
48	-.001
49	-.001
50	-.001
51	-.001
52	-.001
53	-.001
54	-.001
55	-.001
SM-15-56	-.001

SAMPLE #	Au (oz/ton)
SM-15-57	-.001
58	-.001
59	-.001
60	-.001
61	-.001
62	-.001
63	-.001
64	-.001
65	-.001
66	-.001
67	-.001
68	-.001
69	-.001
70	-.001
71	-.001
72	-.001
73	-.001
74	-.001
75	-.001
76	-.001
77	-.001
78	-.001
79	-.001
SM-15-80 **	-.001

FREEPORT EXPLORATION COMPANY  
Standard PROJECT, Humboldt COUNTY, NV

GENERAL:

DRILL HOLE NO. Sm-16 TOTAL DEPTH 535'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY J. Clark  
 REASON FOR TERMINATION Lack of sample return

DRILL DATA:

ROTARY CORE  
 DRILLER M. Strong  
 DATE STARTED 6/2 DATE COMPLETED 6/3/81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	535'							
ANGLE	90°							
BEARING	0°							

DRILLING PROBLEMS (SUMMARIZE)  
Lack of sample return, last 10 ft of hole

SAMPLE DATA:

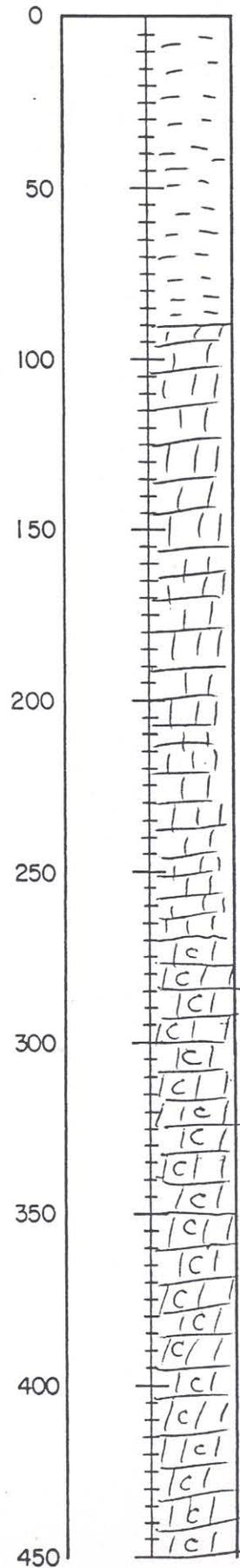
SAMPLE NUMBER SEQUENCE 2-107  
 NUMBER OF SAMPLES 106  
 INTERVALS SAMPLED 5ft.

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

5'-90': dk green - dk green, med soft siltst; oxidized (hematite) Top  
90'-270': Med. green, med hard, sugary ls, w 5% hematite Top  
270'-535': Black, carbonaceous, med. hard pyritic ls; hematite & hematite oxidation Top



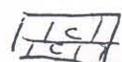
Legend:



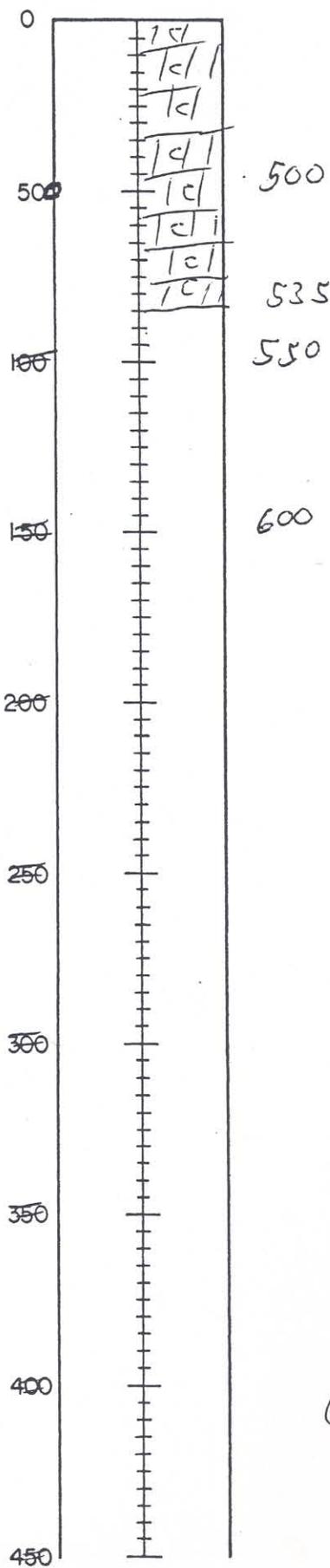
siltst  
(Fe gU)



lms  
(Fe p)  
Scale: 1" = 50'



Carbonaceous  
lms (Fe p)



Legend:



carbon.  
lms.

Scale: 1" = 50'

SAMPLE #	Au (oz/ton)	SAMPLE #	Au (oz/ton)
		SM-16-52	-.001
SM-16-2	-.001	53	-.001
3	-.001	54	-.001
4	-.001	55	-.001
5	-.001	56	-.001
6	-.001	57	-.001
7	-.001	58	-.001
8	-.001	59	-.001
9	-.001	60	-.001
10	-.001	SM-16-61	-.001
11	-.001	SM-16-62**	-.001
12	-.001	SM-16-63	-.001
13	-.001	SM-16-64	-.001
14	-.001	65	-.001
15	-.001	66	-.001
16	-.001	67	-.001
SM-16-17	-.001	68	-.001
SM-16-18	-.001	69	-.001
19	-.001	70	-.001
20	-.001	SM-16-71	-.001
21	-.001	SM-16-72	-.001
22	-.001	73	-.001
23	.002	74	-.001
24	-.001	75	-.001
25	-.001	76	-.001
26	-.001	77	-.001
27	-.001	78	-.001
28	-.001	79	-.001
SM-16-29	-.001	80	-.001
SAMPLE #	Au (oz/ton)	81	-.001
SM-16-30	-.001	82	-.001
31	-.001	83	-.001
32	-.001	84	-.001
33	-.001	85	-.001
34	-.001	86	-.001
35	-.001	87	-.001
36	-.001	88	-.001
37	-.001	89	-.001
38	-.001	90	-.001
39	-.001	91	-.001
40	-.001	92	-.001
SM-16-41	-.001	93	-.001
SM-16-42**	-.001	94	-.001
43	-.001	95	-.001
44	-.001	SM-16-96	-.001
SM-16-45	-.001	SM-16-97	-.001
SM-16-46	-.001	98	-.001
47	-.001	99	-.001
48	-.001	100	-.001
49	-.001	101	-.001
50	-.001	102	-.001
SM-16-51	-.001	103	-.001
		104	-.001
		SM-16-105	-.001

FREEPORT EXPLORATION COMPANY  
STD MIN PROJECT, Humboldt COUNTY, Kenada  
Peru

GENERAL:

DRILL HOLE NO. SM 17 TOTAL DEPTH 460 feet  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY John Clark  
 REASON FOR TERMINATION Lack of return

DRILL DATA:

ROTARY CORE  
 DRILLER Marion Strong  
 DATE STARTED June 3 DATE COMPLETED June 4, 1981  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING							
460'	90°	0°							

DRILLING PROBLEMS (SUMMARIZE)  
Lack of return at 460', top contact anticipated

SAMPLE DATA:

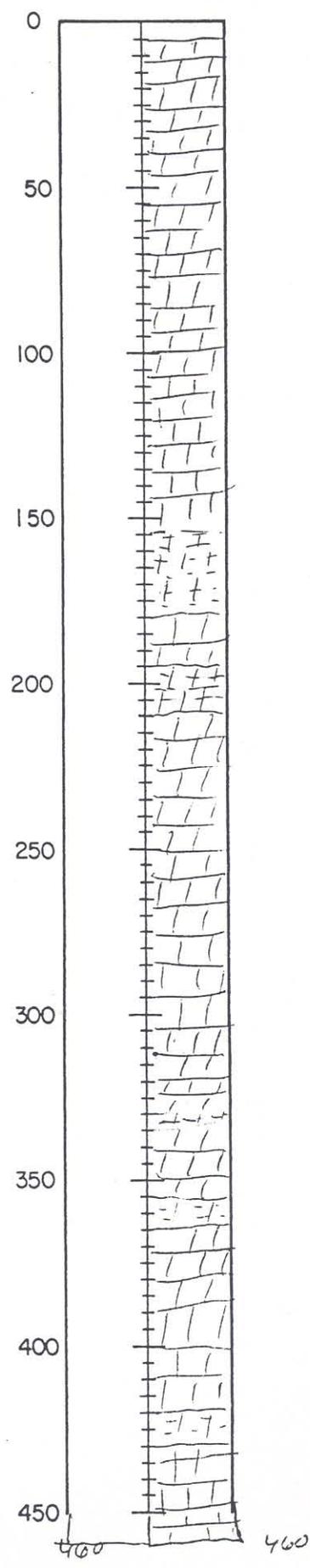
SAMPLE NUMBER SEQUENCE 2-#92  
 NUMBER OF SAMPLES 91  
 INTERVALS SAMPLED 5 feet

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

5-460 Light to medium gray sucrose lmt. Varying amounts of brecciated  
 hematite oxidation; moderately hard ls.; small amount calcite veining. Some  
 silty, oxidized zones.



Legend:



Thin  
lms



Thin  
silty zones  
in the lm

Scale: 1" = 50'

SAMPLE #	Au(oz/ton)	SAMPLE #	Au(oz/ton)
SM-17- 2	-.001	52	-.001
3	-.001	53	-.001
4	-.001	54	-.001
5	-.001	55	-.001
SM-17- 6	.001	56	-.001
SM-17- 7	.001	57	-.001
8	-.001	58	-.001
9	-.001	59	-.001
10	-.001	60	-.001
11	-.001	61	-.001
12	-.001	62	.001
13	-.001	63	.002
14	-.001	64	-.001
15	-.001	65	-.001
16	-.001	66	-.001
17	-.001	67	-.001
18	-.001	68	-.001
19	-.001	69	-.001
20	-.001	70	-.001
21	-.001	SM-17-71	-.001
22	-.001	SM-17-72	.001
23	-.001	73	-.001
24	-.001	74	-.001
25	-.001	75	-.001
26	-.001	76	-.001
27	-.001	77	-.001
28	-.001	78	-.001
29	-.001	79	-.001
30	-.001	80	-.001
SM-17-31	.001	81	-.001
SM-17-32	.001	82	-.001
33	.003	83	-.001
34	.003	84	-.001
35	.003	85	-.001
36	.001	86	-.001
37	.003	87	-.001
38	-.001	88	-.001
39	-.001	89	-.001
40	-.001	90	-.001
41	-.001	SM-17-91	-.001
42	-.001	SM-17-92	**
43	-.001		-.001
44	-.001		
45	-.001		
46	-.001		
47	-.001		
48	-.001		
49	-.001		
50	-.001		
51	-.001		

FREEPORT EXPLORATION COMPANY  
Std Mine PROJECT, Humboldt COUNTY, Nev

GENERAL:

DRILL HOLE NO. Sm 18 TOTAL DEPTH 390 ft.  
 COLLAR ELEV. — COORDINATES — N — E  
 BEARING — INCLINATION —  
 LOGGED BY Clark  
 REASON FOR TERMINATION rubble zone, bit destroyed

DRILL DATA:

ROTARY CORE  
 DRILLER M. Strong  
 DATE STARTED 6/4/81 DATE COMPLETED 6/5/81  
 FOOTAGE PER SHIFT —

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING						
340'	90°	0°						

DRILLING PROBLEMS (SUMMARIZE)  
Bit destroyed by rubble zone at 390'

SAMPLE DATA:

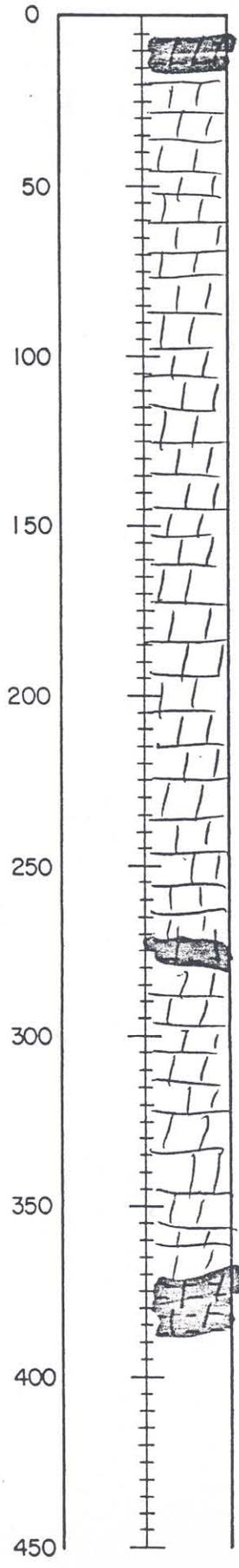
SAMPLE NUMBER SEQUENCE 2-78  
 NUMBER OF SAMPLES 77  
 INTERVALS SAMPLED 5 feet

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

5-390': It to med gray selenitic, moderately hard lms.  
 Generally trace calcite veins and limonite; surficial  
 hematite on >10% of samples.  
 Silty linst. zones at 5-10 ft., 270-275 feet, 370-390 ft.



  
 1ms  
 Temp

  
 silty zones  
 in Temp 1ms

Scale: 1" = 50'

SAMPLE #	Au(oz/ton)
SM-18- 2	-.001
3	-.001
4	-.001
5	-.001
6	-.001
7	.002
8	.003
9	.003
10	.001
11	-.001
12	.002
13	.001
14	-.001
15	.001
16	-.001
17	-.001
18	-.001
19	-.001
20	-.001
SM-18-21	-.001
SM-18-22	-.001
23	-.001
24	-.001
25	-.001
26	-.001
27	-.001
28	.001
29	.002
30	-.001
SM-18-31	-.001
SM-18-32	-.001
33	-.001
34	-.001
35	-.001
36	-.001
37	-.001
38	.001
39	-.001
40	.001
SM-18-41	-.001
SM-18-42	-.001
43	-.001
44	-.001
45	-.001
46	-.001
47	-.001
48	-.001
49	-.001
50	.001
51	.002

SAMPLE #	Au(oz/ton)
52	.001
53	.003
54	.003
55	.004
56	.008
57	.004
58	.003
59	-.001
60	-.001
SM-18-61	-.001
SM-18-62	-.001
63	-.001
64	-.001
65	-.001
SM-18-66	-.001
SM-18-67	-.001
68	-.001
69	-.001
70	-.001
71	-.001
72	-.001
73	-.001
74	-.001
75	-.001
76	-.001
77	-.001
SM-18-78	-.001

FREEPORT EXPLORATION COMPANY  
Standard Mine PROJECT, Humboldt COUNTY, NW.

GENERAL:

DRILL HOLE NO. SM 19 TOTAL DEPTH 500 ft.  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY John Clark  
 REASON FOR TERMINATION target depth + well into Top

DRILL DATA:

ROTARY CORE  
 DRILLER Morris Strong  
 DATE STARTED 6/5/81 DATE COMPLETED 6/5/81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING						
<u>500 ft.</u>	<u>90°</u>	<u>0°</u>						

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
None

SAMPLE DATA:

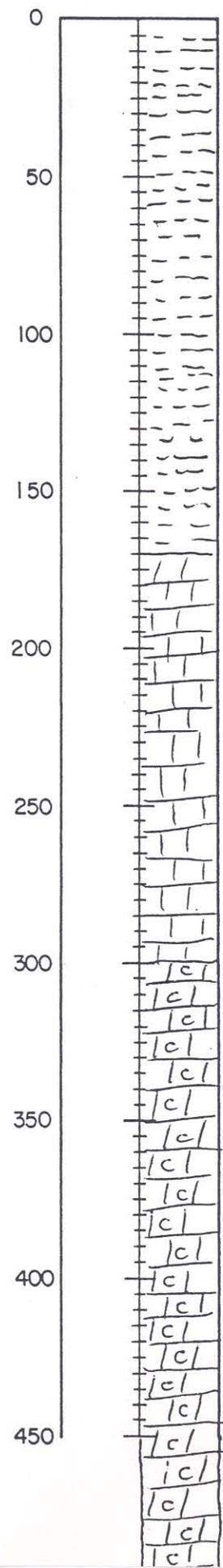
SAMPLE NUMBER SEQUENCE 2-100  
 NUMBER OF SAMPLES 99  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

5-170 Dk green + dark gray, moderately soft siltstone with traces of  
 limonite and hematite. [Tepu]  
170-300 Lt to dk gray, succosic, moderately hard lms; generally low  
 percentage of vein calcite; trace oxidized & mainly limonite [Tepu]  
300-500 Black, highly carbonaceous, fairly hard (generally) limestone;  
 trace to 20% vein calcite; ~~trace~~ trace pyrite ubiquitous;  
 minor trace oxidation - limon. and hematite



Legend:

  
T<sub>29v</sub>  
siltst

  
T<sub>29p</sub>  
lms

  
T<sub>2p</sub>  
carbonaceous lms.

Scale: 1" = 50'

SAMPLE #	Au(oz/ton)	SAMPLE #	Au(oz/ton)
SM-19- 2	-.001	SM-19-49	-.001
3	-.001	50	-.001
4	-.001	51	-.001
5	-.001	52	-.001
6	-.001	53	.002
7	-.001	54	-.001
8	-.001	55	-.001
SM-19- 9	-.001	56	.001
SM-19-10	-.001	57	-.001
SM-19-11 **	-.001	58	-.001
SM-19-12	-.001		
13	-.001	59	-.001
14	-.001	60	-.001
15	-.001	61	-.001
16	-.001	62	-.001
17	-.001	63	-.001
18	-.001	64	-.001
		65	-.001
19	-.001	66	-.001
20	-.001	67	-.001
21	-.001	68	-.001
22	-.001		
23	-.001	69	-.001
24	-.001	70	-.001
25	-.001	71	-.001
26	-.001	72	-.001
27	-.001	73	-.001
28	-.001	74	-.001
		75	-.001
29	-.001	76	-.001
30	-.001	77	-.001
31	-.001	78	-.001
32	-.001		
33	.001	79	-.001
34	.004	80	-.001
35	.003	81	-.001
36	-.001	82	-.001
37	-.001	83	-.001
38	-.001	84	-.001
		85	-.001
39	-.001	86	-.001
40	-.001	87	-.001
41	.007	SM-19-88	-.001
42	-.001		
43	-.001	SM-19-89	-.001
44	-.001	90	-.001
45	-.001	91	-.001
46	-.001	92	-.001
47	-.001	93	-.001
SM-19-48	-.001	94	-.001
		95	-.001
		96	-.001
		97	-.001
		98	-.001
		99	-.001
		SM-19-100	-.001

FREEMPORT EXPLORATION COMPANY

Std Mine PROJECT, Humboldt COUNTY, NV

GENERAL:

DRILL HOLE NO. SM-20 TOTAL DEPTH 380  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY John Clark  
 REASON FOR TERMINATION Lack of sample return

DRILL DATA:

ROTARY CORE

DRILLER Marvin Strong  
 DATE STARTED June 5, 1981 DATE COMPLETED June 6, 1981  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING						
380'	90°	0°						

DRILLING PROBLEMS (SUMMARIZE)  
Water + lack of return at 380'

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE 2-76  
 NUMBER OF SAMPLES 7.5  
 INTERVALS SAMPLED 5 feet

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

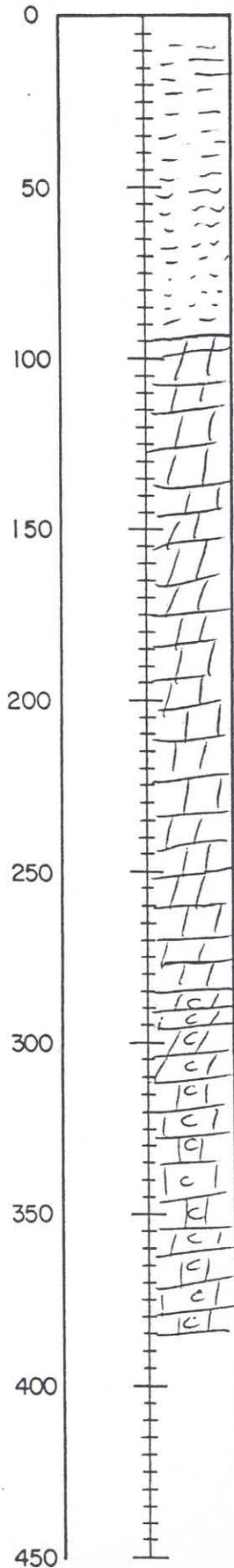
NIL

GEOLOGIC SUMMARY OF HOLE:

5-95 Dk green siltstone; moderately soft; trace limonite oxidation; trace - 2% quartz Fig

95-285 mod to dk gray, moderately hard; oxidized (limonite + hematite); trace to 2.5% calcite and ~~veins~~ veins. Fig

285-380 Black, carbonaceous, partly silicified limestone; trace qtz; trace calcite; trace pyrite, no evidence of oxidation. Fig



Tegu  
siltst



Texp  
lms



Texp  
carbon lms

Scale: 1" = 50'

SAMPLE #	Au(oz/ton)
SM-20- 2	-.001
3	-.001
4	-.001
5	-.001
6	-.001
7	-.001
8	-.001
SM-20- 9	-.001
SM-20-10	-.001
SM-20-11 **	-.001
SM-20-12	-.001
13	-.001
14	-.001
15	-.001
16	-.001
17	-.001
18	-.001
19	-.001
20	.005
21	.006
22	.002
23	-.001
24	-.001
25	-.001
26	-.001
27	-.001
28	-.001
29	-.001
30	-.001
31	-.001
32	-.001
33	-.001
34	-.001
35	-.001
SM-20-36	-.001
SM-20-37	-.001
38	-.001
39	-.001
40	-.001
41	-.001
42	-.001
43	-.001
44	-.001
45	-.001
46	-.001
47	-.001
48	-.001
49	-.001
50	-.001

SAMPLE #	Au(oz/ton)
51	-.001
52	-.001
53	-.001
54	-.001
55	-.001
56	-.001
57	.003
58	.001
59	-.001
60	-.001
SM-20-61	-.001
SM-20-62	-.001
63	-.001
64	-.001
65	-.001
66	-.001
67	-.001
68	-.001
69	-.001
70	-.001
71	-.001
72	.001
73	.001
74	.001
75	-.001
SM-20-76	-.001

FREEMPORT EXPLORATION COMPANY  
Standard Mike PROJECT, Humboldt COUNTY, New  
Plumking

GENERAL:

DRILL HOLE NO. Sm 21 TOTAL DEPTH 410ft.  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY J. Clark  
 REASON FOR TERMINATION lack of return

DRILL DATA: ROTARY CORE

DRILLER W. Strong  
 DATE STARTED June 6, 1981 DATE COMPLETED June 7, 1981  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	<u>40'</u>						
ANGLE	<u>90°</u>						
BEARING	<u>0°</u>						

DRILLING PROBLEMS (SUMMARIZE)

- a) Drill plugged just past 300', had to be pulled; hammer problem
- b) Poor sample return at hole bottom
- c) Water in hole from 300' down to ~~top~~ completion

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE 2-82  
 NUMBER OF SAMPLES 81 on chipboard; 80 to assay office - only few chips  
 INTERVALS SAMPLED 5 feet

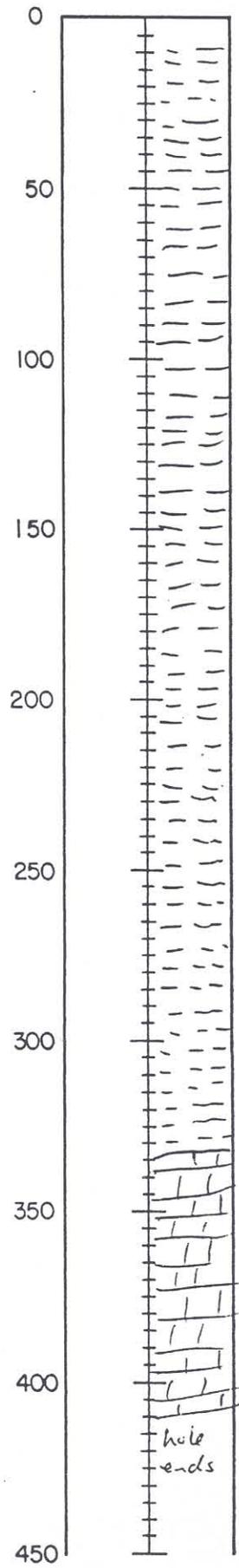
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
170	175	5' @ .060					
195	200	5' @ .032					

GEOLOGIC SUMMARY OF HOLE:

5' - 335' Dk green and dark gray, moderately soft siltstones. Traces of carbon, quartz, and oxidation intermittent. Trace pyrite lower in hole (in 300'). Temp

335' - 410' Approximately 60% mixed colors, med soft siltstones and 40% medium gray, succrose, med soft, lms; few percent vems. Temp. The Temp seen in other holes contains silty lms. beds; but not as thick as the silty zone encountered here. Perhaps the siltst slumped from above, but their percentage of the total indicate otherwise.



Legend:

   
Tegu ss/bst      Tegu lms  
Scale: 1" = 50'

SAMPLE # Au (oz/ton)

SAMPLE #	Au (oz/ton)
SM-21- 2**	-.001
3	-.001
4	-.001
5	-.001
6	-.001
7	-.001
8	-.001
9	-.001
10	-.001
11	-.001
12	-.001
13	-.001
14	-.001
15	-.001
16	-.001
17	-.001
18	-.001
19	-.001
20	-.001
21	-.001
22	-.001
23	-.001
24	-.001
25	-.001
SM-21-26	-.001
SM-21-27	-.001
28	-.001
29	-.001
30	-.001
SM-21-31	-.001
SM-21-32	-.001
33	-.001
34	-.001
35	.003
35	.056
37	.009
38	.001
39	-.001
40	.024
41	.003
42	.001
43	-.001
44	-.001
45	-.001
46	-.001
47	-.001
48	-.001
49	-.001
50	-.001
51	-.001
52	-.001
53	-.001
54	-.001
55	-.001
SM-21-56	-.001

SAMPLE #	Roasted	
	Cy Leach Au (oz/ton)	Fire Assay Au (oz/ton)
SM-21-57	-.001	
58	-.001	
59	-.001	
60	-.001	
61	-.001	
62	-.001	
63	-.001	
64	-.001	
65	-.001	
66	-.001	
67	.001	
68	-.001	
69	-.001	
SM-21-70	.001	
SM-21-72**	-.001	
73	-.001	
74	-.001	
75	.001	
76	.001	
77	.001	
78	-.001	
79	.002	
80	.001	
SM-21-81	.001	

.066

.032

FREEMPORT EXPLORATION COMPANY  
Std. Mine PROJECT, Humboldt COUNTY, Nev

GENERAL:

DRILL HOLE NO. SM-73 TOTAL DEPTH 385 ft.  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY John Clark  
 REASON FOR TERMINATION Hole abandoned for lack of return

DRILL DATA: ROTARY CORE

DRILLER Morris Strong  
 DATE STARTED June 7, 1981 DATE COMPLETED June 8, 1981  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	385'								
ANGLE	90°								
BEARING	0°								

DRILLING PROBLEMS (SUMMARIZE)

- Upper 25' of hole cased because of unconsolidated alluvium and water.
- Ground or connate water struck at 380', ~~at~~ subsequent return was contaminated with alluvium from above, and below 385', only Qal was returned.

SAMPLE DATA:

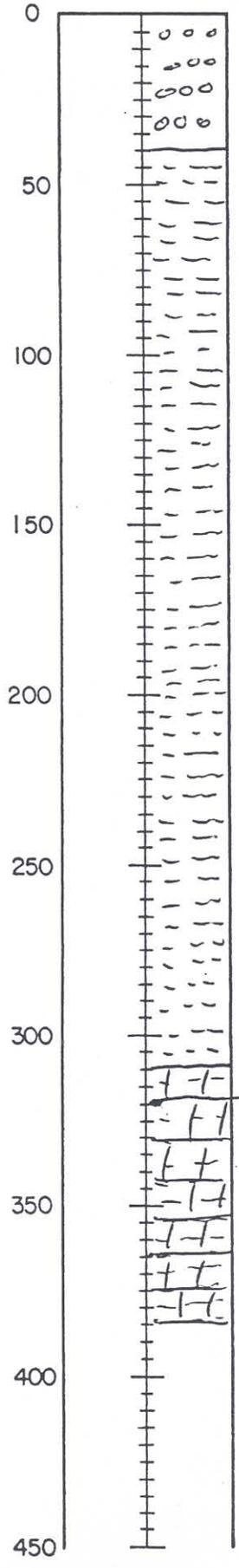
SAMPLE NUMBER SEQUENCE 2-77  
 NUMBER OF SAMPLES 76  
 INTERVALS SAMPLED 5 feet

MINERALIZED INTERVAL:

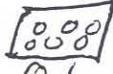
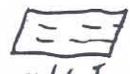
FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

25'-40' Alluvium; generally dark, calc cement lens & gtz. (Qal)  
40'-310' Generally dark gray to black, calciferous, moderately soft siltst. ~~trace~~ trace pyrite and gtz. Generally not oxidized (Tegv)  
310'-385' Black siltstone as above ranging from 70% to 95% of sample; remaining percentage was med-gray lens cement up to 50% with calcite. The characteristic non-calcareous nature of the Tegv, and the definite presence of lime at these depths suggests this is the (Temp)



Legend:

-  Q<sub>s</sub>
-  silty s
-  silty lms.

Scale: 1" = 50'

SAMPLE # Au (oz/ton)

SAMPLE # Au (oz/ton)

SM-22- 5\*\*      -.001  
6      -.001  
7      -.001  
8      .001  
9      -.001  
  
10      -.001  
11      -.001  
12      -.001  
13      -.001  
14      -.001  
15      -.001  
16      -.001  
17      -.001  
18      -.001  
19      -.001  
  
20      -.001  
21      -.001  
22      -.001  
23      -.001  
24      -.001  
25      -.001  
26      -.001  
27      -.001  
28      -.001  
29      -.001  
  
30      -.001  
31      -.001  
32      -.001  
33      -.001  
34      -.001  
35      -.001  
36      -.001  
37      -.001  
38      -.001  
SM-22-39      -.001  
SM-22-40      -.001  
41      -.001  
42      -.001  
43      -.001  
44      -.001  
45      -.001  
46      -.001  
47      -.001  
48      -.001  
49      -.001

50      -.001  
51      -.001  
52      -.001  
53      -.001  
54      -.001  
55      -.001  
56      -.001  
57      -.001  
58      -.001  
59      -.001  
  
60      -.001  
61      -.001  
62      .003  
63      .001  
64      -.001  
65      -.001  
66      -.001  
67      -.001  
68      -.001  
SM-22-69      -.001  
SM-22-70      -.001  
71      .003  
72      .001  
73      -.001  
74      .001  
75      .001  
76      -.001  
SM-22-77      -.001

FREEMPORT EXPLORATION COMPANY  
Std Mine PROJECT, Humboldt COUNTY, NV

GENERAL:

DRILL HOLE NO. SM 23 TOTAL DEPTH 125 ft.  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY Clark  
 REASON FOR TERMINATION Lack of return; casing would not stay down

DRILL DATA:

ROTARY

CORE

DRILLER Strong  
 DATE STARTED June 8, 1921 DATE COMPLETED June 8, 1921  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING							
125'	90°	0°							

DRILLING PROBLEMS (SUMMARIZE)

Water in hole forced casing up; hole had to be abandoned.

SAMPLE DATA:

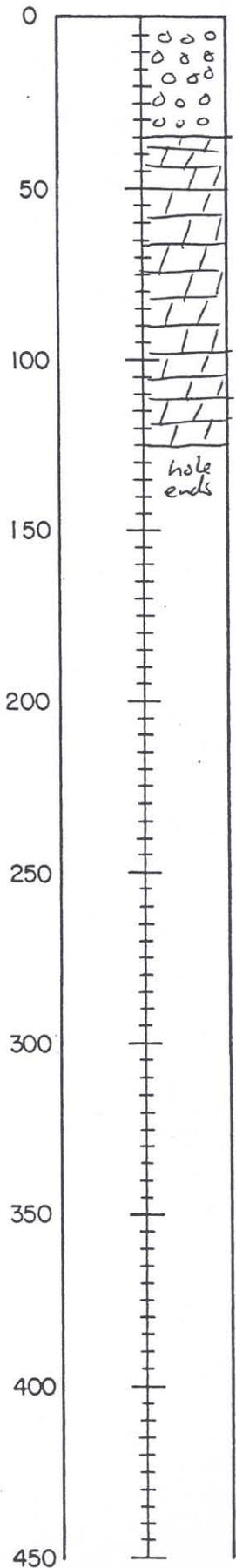
SAMPLE NUMBER SEQUENCE 2 - 25  
 NUMBER OF SAMPLES 24  
 INTERVALS SAMPLED 5 ft

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

25 - 35 - Quaternary alluvium - limestone and calcite  
35 - 125 - Dark gray, 10% calcite, moderately hard limestone; trace to 3% oxidized; occasional siltstone (bottom of hole).  
No sharp break exists in sample called "alluvium" and that called "Twp" <sup>to</sup>  
Chips are smaller and more homogeneous inst. beginning at 35 feet, thus the distinction.



Legend:



Scale: 1" = 50'

SAMPLE #

Au (oz/ton)

SM-23- 5	-.001
6	-.001
7	-.001
8	-.001
9	-.001
10	-.001
11	-.001
12	-.001
13	-.001
14	-.001
15	-.001
16	-.001
17	-.001
18	-.001
19	-.001
20	-.001
21	-.001
22	-.001
23	-.001
24	-.001
SM-23-25	-.001

FREEMPORT EXPLORATION COMPANY  
Standard Mine PROJECT, Humboldt COUNTY, MO

GENERAL:

DRILL HOLE NO. SM 24 TOTAL DEPTH 400ft.  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY J. Clark  
 REASON FOR TERMINATION target reached.

DRILL DATA:

ROTARY CORE  
 DRILLER M. Strong  
 DATE STARTED June 8 DATE COMPLETED June 8, 1981  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING						
400	90°	0°						

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_

Water hit at bottom of hole

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE 2-80  
 NUMBER OF SAMPLES 79  
 INTERVALS SAMPLED 5 feet

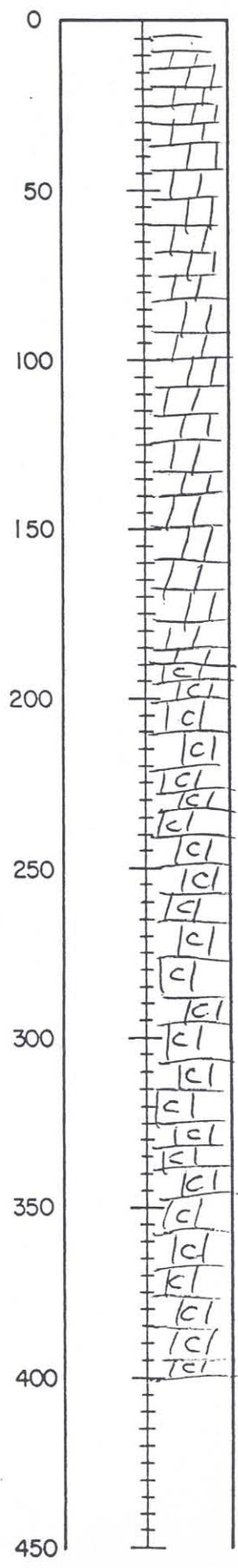
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

5'-190' Dark gray, moderately hard limestone; calcite content varies from trace to 30%. Most samples show trace limonite and hematite oxidation. About half the samples contain siltst, sometimes as major component. Samples 15-21 showed red siltst. [Fnp]

190'-400' Black, carbonaceous, med. hard limestone in most of hole, but becoming ~~lighter~~ lighter (gray) and more oxidized toward base of hole. Some silty zones are present. Calcite generally present, usually as trace. [Fnp]



  
 lms  
 Temp

  
 generally  
 carbonaceous lms  
 Temp

Scale: 1" = 50'



FREEMONT EXPLORATION COMPANY  
STANDARD MINE PROJECT, HUMBOLDT COUNTY, NV

GENERAL:

DRILL HOLE NO. SM25 TOTAL DEPTH 300  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING vert INCLINATION \_\_\_\_\_  
 LOGGED BY KTH  
 REASON FOR TERMINATION lost recovery

DRILL DATA: ROTARY CORE

DRILLER Strong  
 DATE STARTED 6/10/67 DATE COMPLETED 6/10/67

FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:	DEPTH	ANGLE	BEARING						

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
lost recovery in Markez Pass -

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM25-2 -> 57  
 NUMBER OF SAMPLES 56  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE

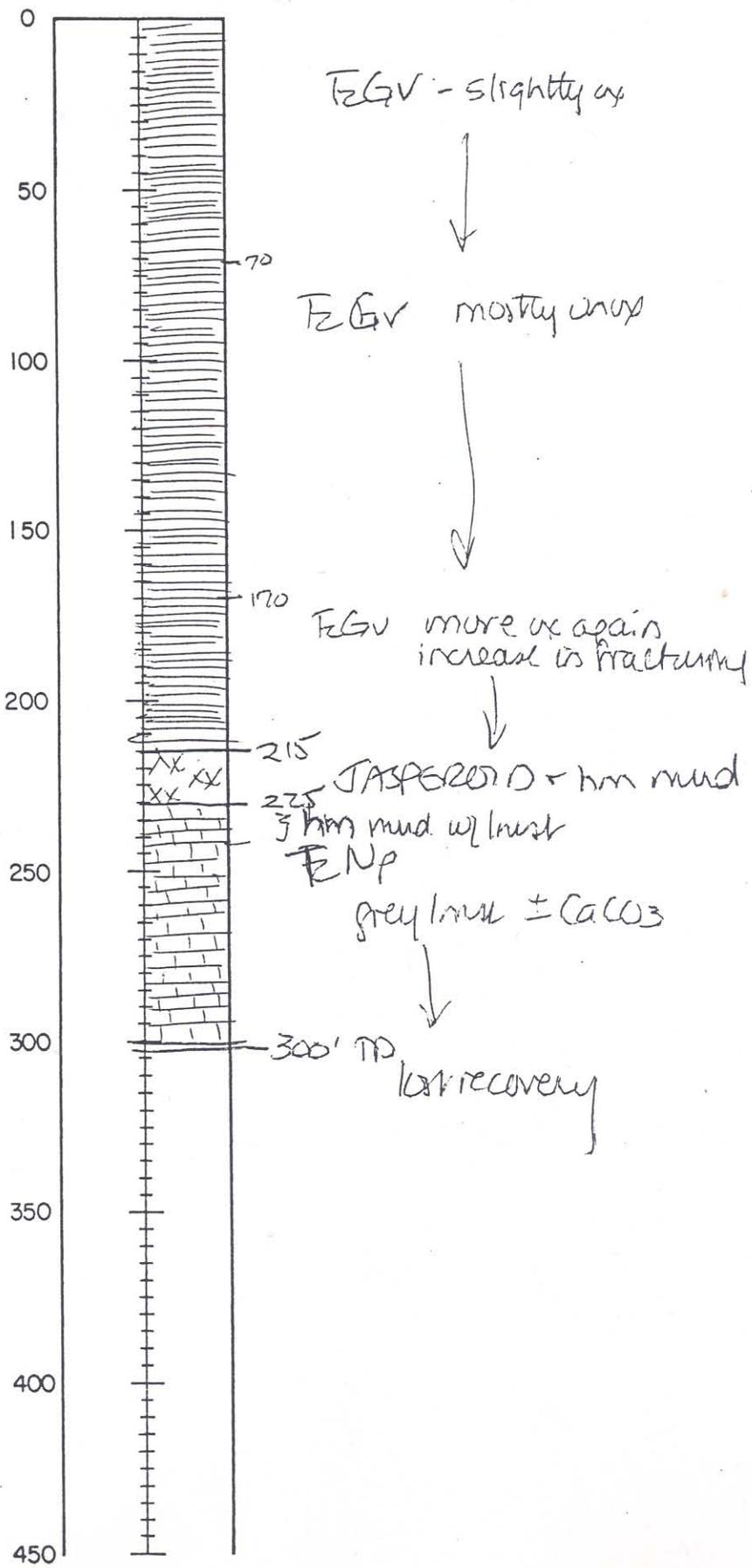
GEOLOGIC SUMMARY OF HOLE:

0-215 FGV - mod hard noncalc mostly v. shaly shale

215-225 JASP blk v. hard Jasperoid, considerable hm mud

225-300 KNP mod hard mod lt grey limest. locally calcite veined extensively, hm mud in top few samples

300' TD lost recovery



Scale: 1" = 50'

SAMPLE #	Au(oz/ton)
SM-25- 2	-.001
3	-.001
4	-.001
5	-.001
6	-.001
7	-.001
8	-.001
9	-.001
10	-.001
11	-.001
12	.001
13	-.001
14	-.001
15	-.001
16	-.001
17	-.001
18	-.001
19	-.001
20	-.001
21	-.001
22	.001
23	.001
24	.001
25	-.001
SM-25-26	-.001
SM-25-27	-.001
28	-.001
29	-.001
30	.001
31	.001
32	-.001
33	-.001
34	.001
35	.001
36	-.001
37	-.001
38	-.001
39	-.001
40	-.001
41	-.001
42	-.001
43	-.001
44	-.001
45	-.001
46	.001
47	-.001
48	-.001
49	-.001
50	-.001
SM-25-51	-.001

SAMPLE #	Au(oz/ton)
SM-25-52**	-.001
53	-.001
54	-.001
55	-.001
56	-.001
SM-25-57	-.001

FREEMONT EXPLORATION COMPANY  
STANDARD MINE PROJECT, <sup>CRISTINA</sup>~~ST~~ COUNTY, NV

GENERAL:

DRILL HOLE NO. SM 26 TOTAL DEPTH 350'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING W 1/2 INCLINATION \_\_\_\_\_  
 LOGGED BY JB  
 REASON FOR TERMINATION too much water in hole

DRILL DATA:

ROTARY CORE

DRILLER Weaver  
 DATE STARTED 6/16/91 DATE COMPLETED 6/16/91  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING					

DRILLING PROBLEMS (SUMMARIZE)  
hit water @ 160', had continuous but drillable water  
until another large stream @ ~335 which blew the hose off  
the casing - could not keep hose on collar so ended hole

SAMPLE DATA:

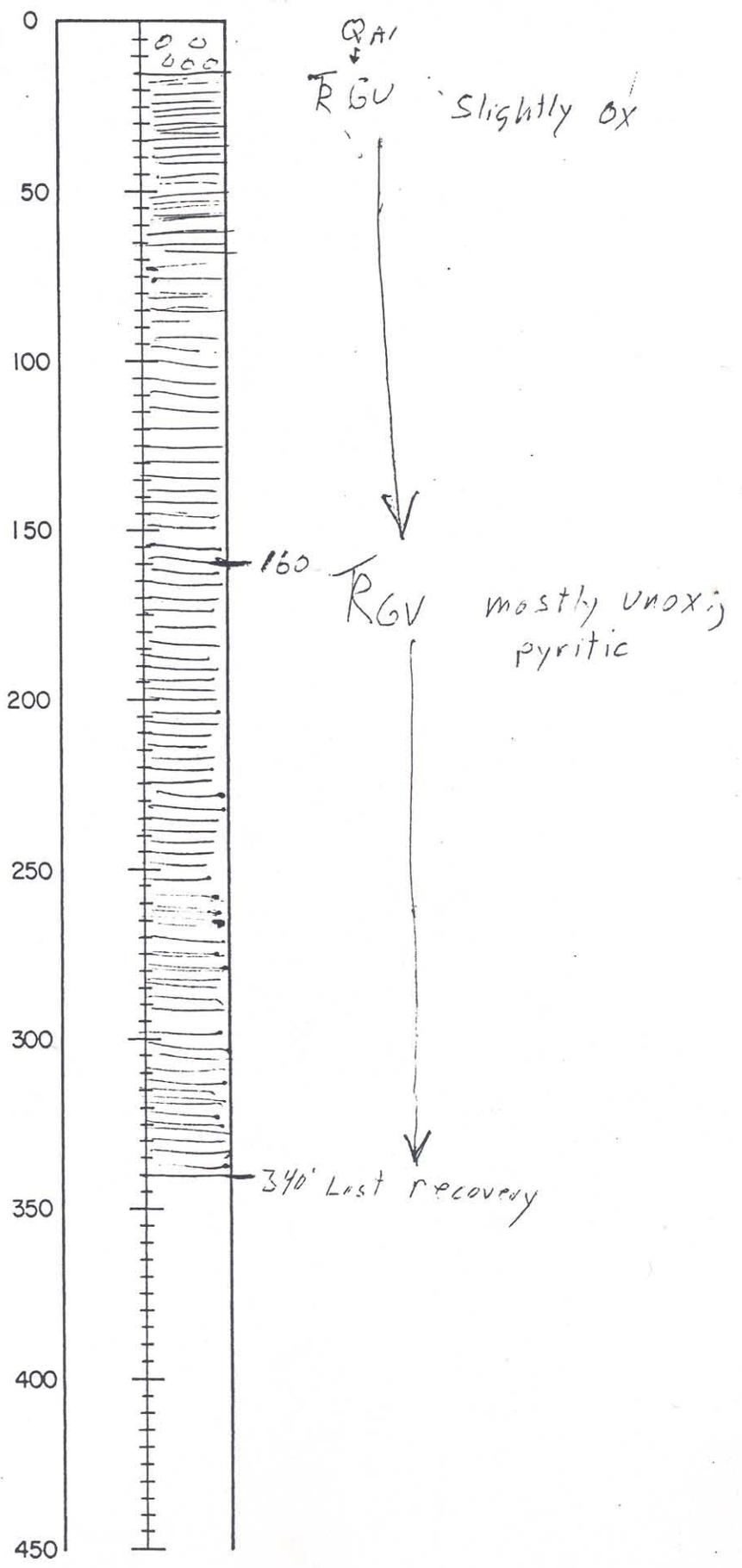
SAMPLE NUMBER SEQUENCE SM 26-2 thru SM 26-68  
 NUMBER OF SAMPLES 67  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

0-15 QAI - med. hard, noncalc siltstone w/ calcifer coating;  
tr of Qtz + CaCO<sub>3</sub>  
15-340 RSV - med. hard, noncalc mostly unpx shale  
340-70 Lost recovery



Scale: 1" = 50'

SAMPLE #	Au (oz/ton)
SM-26- 2**	-.001
3	-.001
4	-.001
5	-.001
SM-26- 6	-.001
SM-26- 7	.001
8	.001
9	.001
10	.001
11	-.001
12	-.001
13	-.001
14	-.001
15	-.001
16	-.001
17	-.001
18	-.001
19	-.001
20	-.001
21	.001
22	.001
23	-.001
SM-26-24	-.001
SM-26-25	-.001
26	-.001
27	-.001
28	-.001
29	-.001
30	-.001
31	-.001
32	-.001
33	-.001
34	-.001
35	-.001
36	-.001
37	-.001
38	-.001
39	-.001
40	-.001
SM-26-41	-.001
SM-26-42	-.001
43	-.001
44	-.001
45	-.001
46	-.001
47	-.001
48	-.001
49	-.001
50	-.001
51	-.001

SAMPLE #	Au (oz/ton)
52	-.001
53	-.001
54	-.001
55	-.001
56	-.001
57	-.001
58	-.001
59	-.001
60	-.001
61	-.001
62	-.001
63	-.001
64	-.001
65	-.001
SM-26-66	-.001
SM-26-67	-.001
SM-26-68	-.001
SM-26-72**	-.001
73	-.001
74	-.001
75	-.001
76	-.001
77	-.001
78	-.001
79	-.001
SM-26-80	-.001

FREEMPORT EXPLORATION COMPANY

Standard Mine PROJECT, Pershing COUNTY, NV

GENERAL:

DRILL HOLE NO. SM 27 TOTAL DEPTH 400'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING Vert. INCLINATION \_\_\_\_\_  
 LOGGED BY JB  
 REASON FOR TERMINATION Reached desired depth

DRILL DATA:

ROTARY

CORE

DRILLER Wraiver  
 DATE STARTED 6/16/81 DATE COMPLETED 6/17/81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH  
 ANGLE  
 BEARING


DRILLING PROBLEMS (SUMMARIZE)

Had circulation problems locally below 100ft.

SAMPLE DATA:

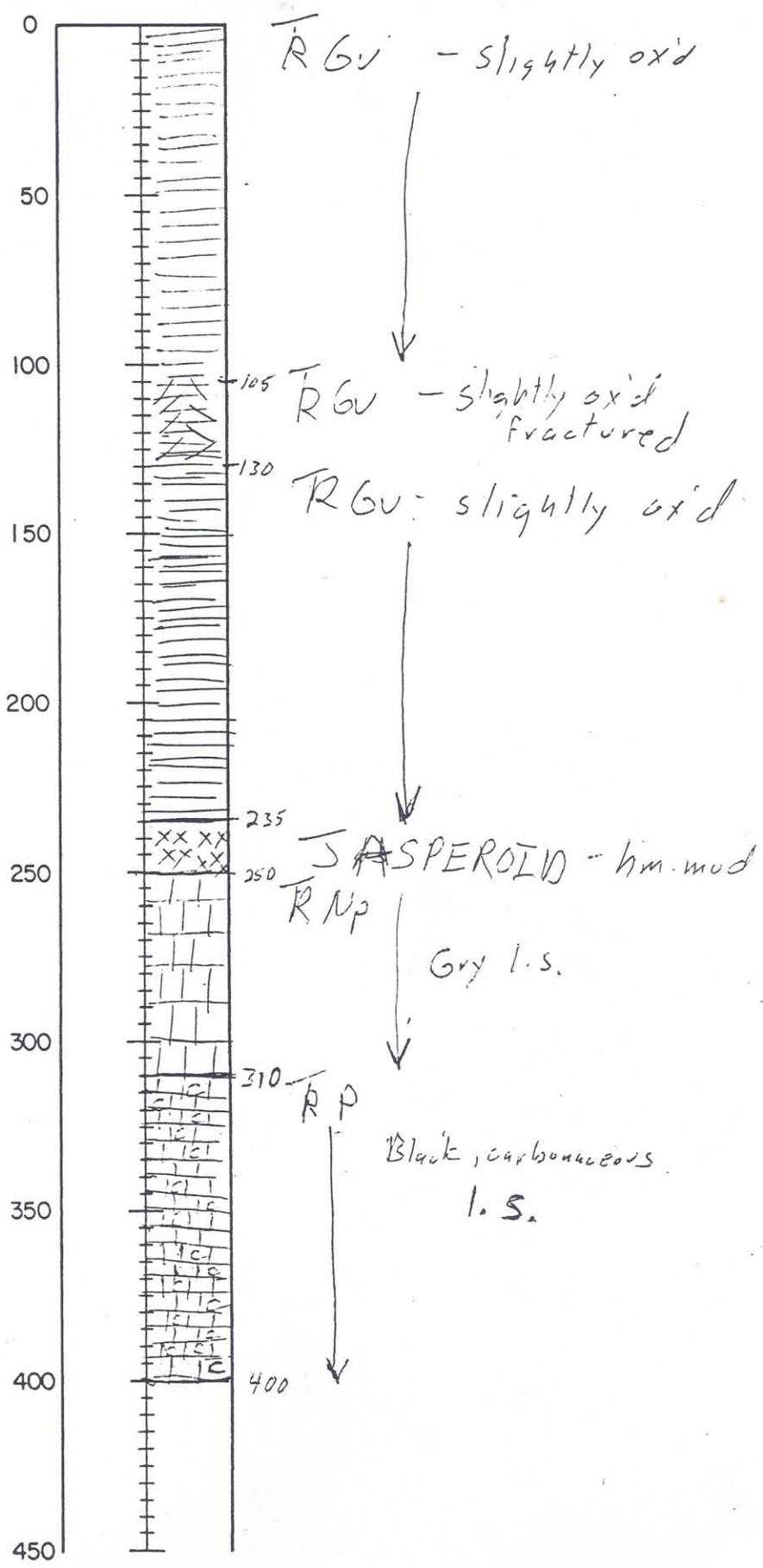
SAMPLE NUMBER SEQUENCE SM 27-2 thru SM 27-80  
 NUMBER OF SAMPLES 79  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
190	195	5@.016					
195	200	5@.114					

GEOLOGIC SUMMARY OF HOLE:

0 - 235' TGV Med hard gry noncalcareous siltstone; partly ex shale.  
235 - 250' JASP Very hard black jasperoid; considerable hm. mud.  
250 - 310' RNP Med hard gry ls., locally calcite veined extensively  
310 - 400' RP Hard dk gry ls. very carbonaceous w/ local oxide veins



SAMPLE #	Roasted	
	Cy Leach	Au(oz/ton)
SM-27- 2**		.001
3		.002
4		.001
5		.001
6		-.001
7		-.001
8		.001
9		-.001
10		-.001
SM-27-11		.001
SM-27-12		-.001
13		.002
14		-.001
15		-.001
16		-.001
17		-.001
18		-.001
19		-.001
20		-.001
21		-.001
22		-.001
23		-.001
24		-.001
25		-.001
26		-.001
27		-.001
28		-.001
29		-.001
30		.005
31		-.001
32		-.001
33		-.001
34		-.001
35		-.001
SM-27-36		.002
SM-27-37		.003
38		.008
39	.016	.016
40	.114	.086
41		.002
42		-.001
43		-.001
44		.004
45		.002
46		.003
47		.008
48		.001
49		.006
50		.002

SAMPLE #	Roasted	
	Cy Leach	Au(oz/ton)
51		-.001
52		-.001
53		-.001
54		-.001
55		-.001
56		-.001
57		-.001
58		-.001
59		-.001
60		-.001
SM-27-61		-.001
SM-27-62		-.001
63		-.001
64		-.001
65		-.001
66		-.001
67		-.001
68		.002
69		.002
70		-.001
SM-27-71		-.001

FREEPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, Pershing COUNTY, N.J.

GENERAL:

DRILL HOLE NO. SM28 TOTAL DEPTH 420'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING Vert. INCLINATION \_\_\_\_\_  
 LOGGED BY Brown  
 REASON FOR TERMINATION Reached desired Depth

DRILL DATA:

ROTARY CORE

DRILLER Weaver  
 DATE STARTED 6/17/81 DATE COMPLETED 6/18/81

FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING						

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
Hit water at 260'

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM28-2 thru SM28-84  
 NUMBER OF SAMPLES 83  
 INTERVALS SAMPLED 5'

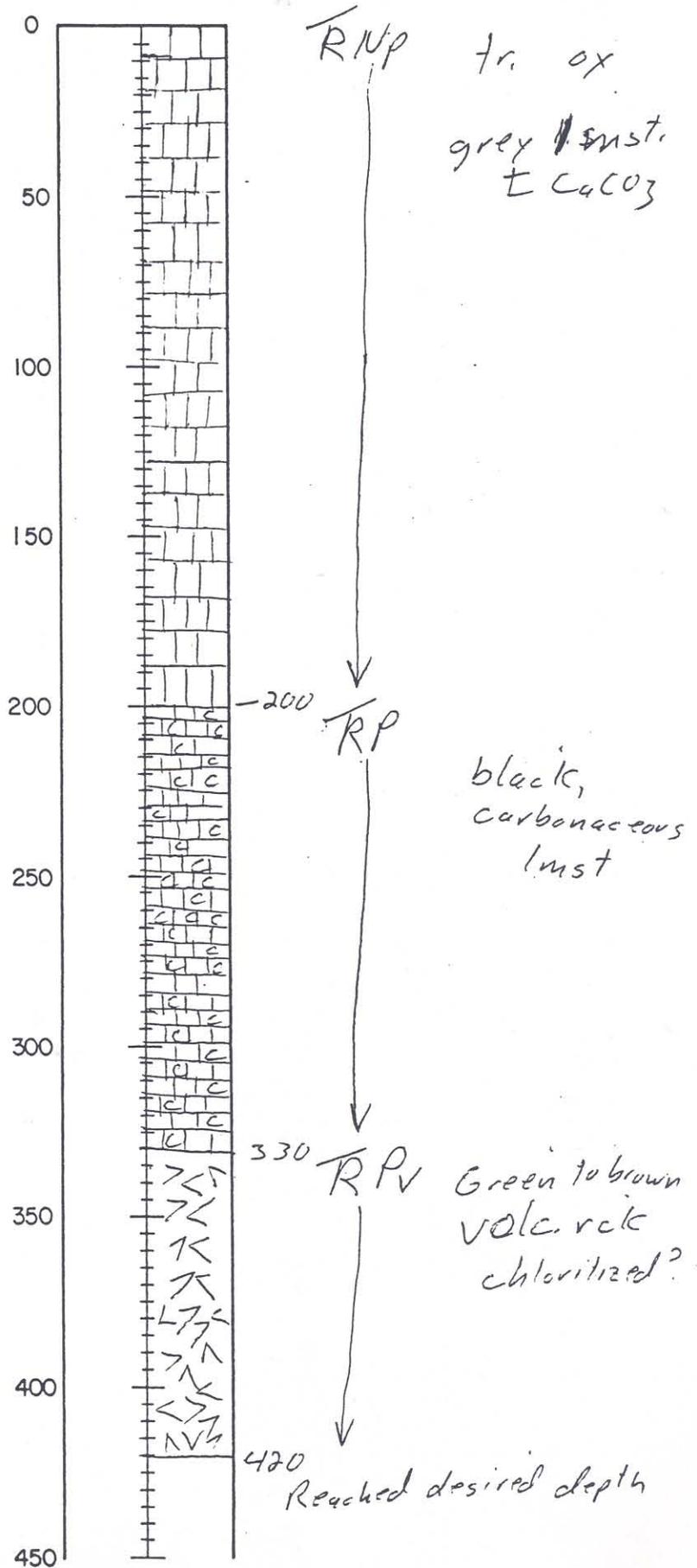
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

NIL

GEOLOGIC SUMMARY OF HOLE:

0-200' RP - Mod. hard; lt. to med. gray; locally calcite veined extensively; local tr. ~~pyrite~~ hm. med  
200-300' RP - Hard, dk gray to black carbonaceous limestone, locally calcite veined; tr. pyrite locally  
300-420' RPV - Hard, green to brown fine-grained volcanic rock w/ tr. black limestone, tr. chloritized? calc. rck.



Scale: 1" = 50'

<u>SAMPLE #</u>	<u>Roasted Cy Lea</u> <u>Au(oz/ton)</u>	<u>SAMPLE #</u>	<u>Roasted Cy Leac</u> <u>Au(oz/ton)</u>
SM-28- 2**	-.001	52	-.001
3	-.001	53	-.001
4	-.001	54	-.001
5	-.001	55	-.001
6	-.001	56	-.001
7	-.001	57	-.001
8	-.001	58	-.001
9	-.001	59	-.001
10	-.001	60	-.001
11	-.001	61	-.001
12	-.001	62	-.001
13	-.001	63	-.001
14	-.001	64	-.001
15	-.001	65	-.001
16	-.001	66	-.001
17	-.001	67	-.001
18	-.001	68	-.001
19	-.001	69	-.001
20	-.001	70	.001
21	-.001	SM-28-71	-.001
22	-.001	SM-28-72	.001
23	-.001	73	.004
24	-.001	74	.003
25	-.001	75	.003
26	-.001	76	.002
27	-.001	77	.002
28	-.001	78	.001
29	-.001	79	-.001
30	-.001	80	-.001
SM-28-31	-.001	81	-.001
SM-28-32	-.001	82	-.001
33	-.001	83	-.001
34	-.001	SM-28-84	-.001
35	-.001		
36	-.001		
37	-.001		
38	-.001		
39	-.001		
40	-.001		
41	-.001		
42	-.001		
43	-.001		
44	-.001		
45	-.001		
46	-.001		
47	.002		
48	.001		
49	-.001		
50	-.001		
51	-.001		

FREEMPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, Pershing COUNTY, Nevada

GENERAL:

DRILL HOLE NO. SM29 TOTAL DEPTH 70'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING Vert INCLINATION \_\_\_\_\_  
 LOGGED BY Brown  
 REASON FOR TERMINATION Lost recovery

DRILL DATA:

ROTARY CORE

DRILLER Weaver  
 DATE STARTED 6/19/81 DATE COMPLETED 6/19/81

FOOTAGE PER SHIFT \_\_\_\_\_  
 BOREHOLE SURVEY: DEPTH


DRILLING PROBLEMS (SUMMARIZE)

Badly broken ground, lost recovery in Watchez Pass

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM 29 ~~13~~ → 14  
 NUMBER OF SAMPLES 13  
 INTERVALS SAMPLED 5'

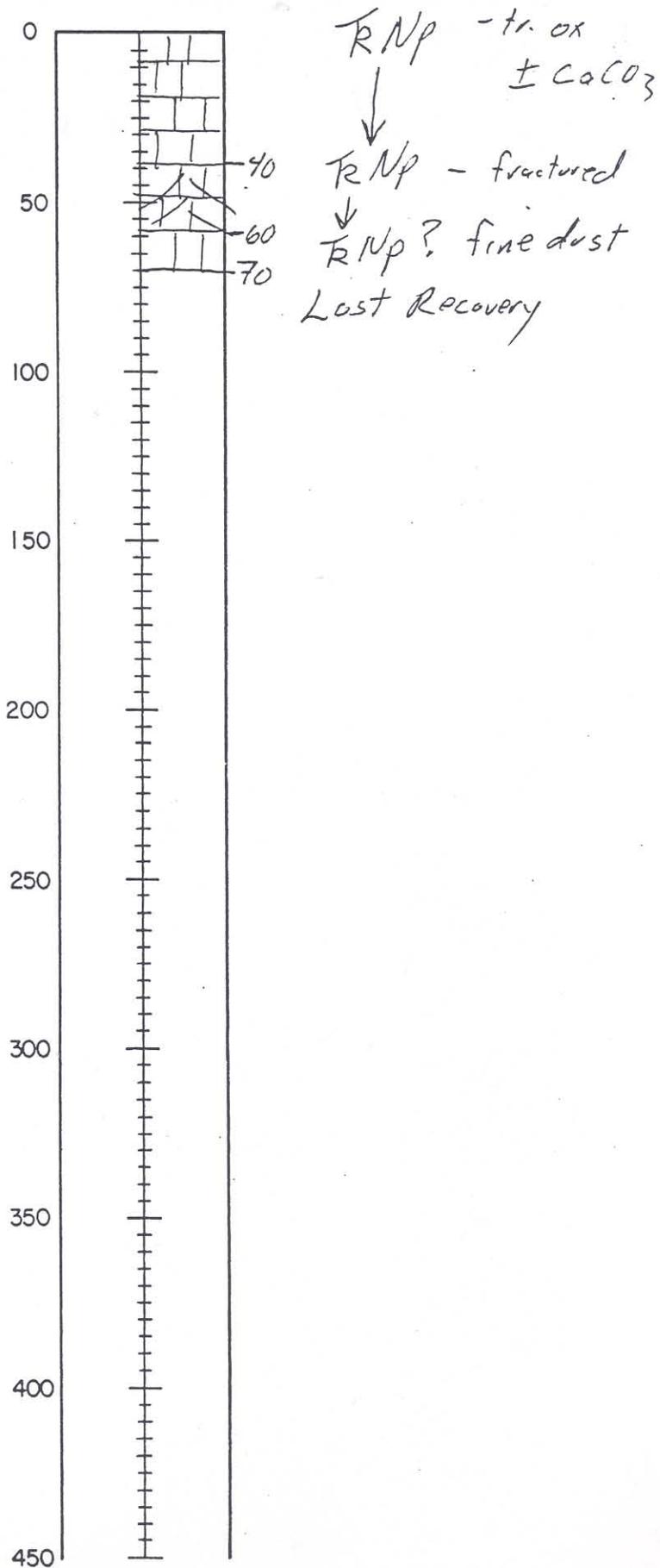
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

0' - 60' RNP - Hard lt to med grt. Inst. w/ CaCO<sub>3</sub> veins locally, lower portion fractured

60 - 70' RNP 3 - lt grt dust possibly Watchez Pass



Scale: 1" = 50'

<u>SAMPLE#</u>	<u>Au(oz/ton)</u>
SM-29-2**	-.001
3	-.001
4	-.001
5	-.001
6	-.001
7	-.001
8	-.001
9	-.001
10	-.001
SM-29-11	-.001

FREEMPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, Pershing COUNTY, Nevada

GENERAL:

DRILL HOLE NO. SM29A TOTAL DEPTH 340'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING Vert INCLINATION \_\_\_\_\_  
 LOGGED BY Brown  
 REASON FOR TERMINATION Last Recovery

DRILL DATA:

ROTARY CORE  
 DRILLER Weaver

DATE STARTED 6/19/81 DATE COMPLETED 6/19/81

FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING							

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
Last recovery in Natchez Pass. Hit water at 305'

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM29A-2 → 68  
 NUMBER OF SAMPLES 67  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

NIL

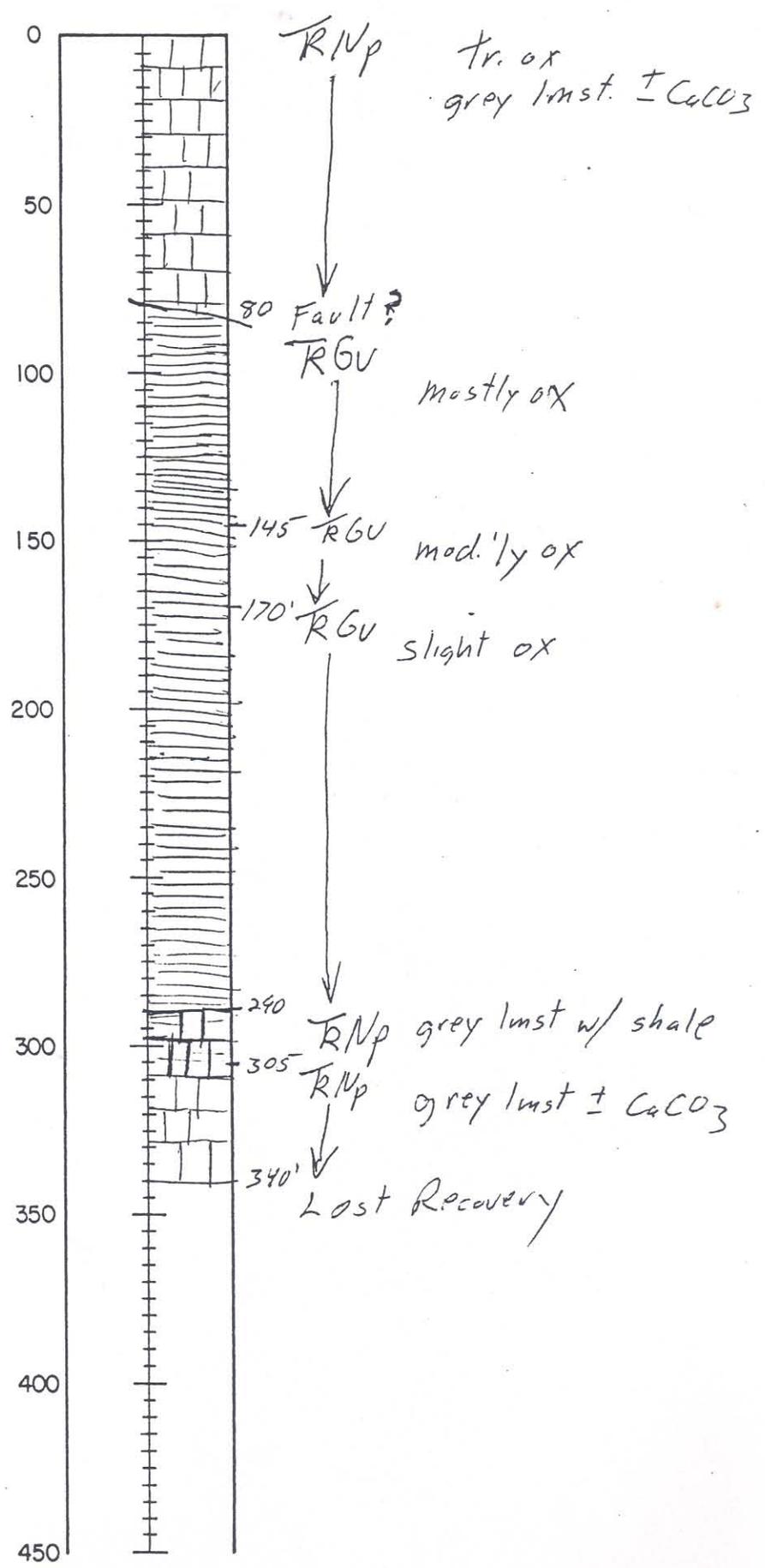
GEOLOGIC SUMMARY OF HOLE:

0-80' RUp Hard, lt. to med gry. lsst w/ local calcite veins  
80-285' RGV Mod. hard, olive gry shale, ox'n decreases w/ depth  
285'-340' RUp - Mod. hard, lt to med gry lsst w/ tr coarse calcite veins

SAMPLE #	Roasted Cy Leach Au (oz/ton)
SM-29A- 2	--.001
3	--.001
4	--.001
5	--.001
6	--.001
7	--.001
8	--.001
9	--.001
10	--.001
11	--.001
SM-29A-12 **	--.001
SM-29A-14	--.001
15	--.001
16	--.001
17	--.001
18	--.001
19	--.001
20	--.001
21	--.001
22	--.001
SM-29A-23	--.001
SM-29A-24	--.001
25	--.001
26	--.001
27	--.001
28	--.001
29	--.001
30	--.001
31	--.001
32	--.001
33	--.001
34	--.001
35	--.001
36	--.001
37	--.001
38	--.001
39	--.001
40	--.001
41	--.001
42	--.001
43	--.001
44	--.001
45	--.001
46	--.001
SM-29A-47	--.001

SM-29A-13 \*\* --.001

SAMPLE	Roasted Cy Leach Au (oz/ton)
SM-29A-48	--.001
49	--.001
50	--.001
51	--.001
52	--.001
53	--.001
54	--.001
55	--.001
56	--.001
57	--.001
58	--.001
59	--.001
60	--.001
61	--.001
62	--.001
63	--.001
64	--.001
65	--.001
66	--.001
67	--.001
SM-29A-68	--.001



Scale: 1" = 50'

FREEPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, Pershing COUNTY, NV

GENERAL:

DRILL HOLE NO. SM30 TOTAL DEPTH 260'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING Vert INCLINATION \_\_\_\_\_  
 LOGGED BY Brown  
 REASON FOR TERMINATION Last Recovery

DRILL DATA:

ROTARY CORE

DRILLER Weaver  
 DATE STARTED 6/20/81 DATE COMPLETED 6/20/81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING							

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
Last circulation at 230'

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM30-3 → 45  
 NUMBER OF SAMPLES 43  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
215	220	5@.020					

GEOLOGIC SUMMARY OF HOLE:

0-15' QAI Med'ly hard lt. gry l.s.; local dk gry l.s., and dk gry siltstone

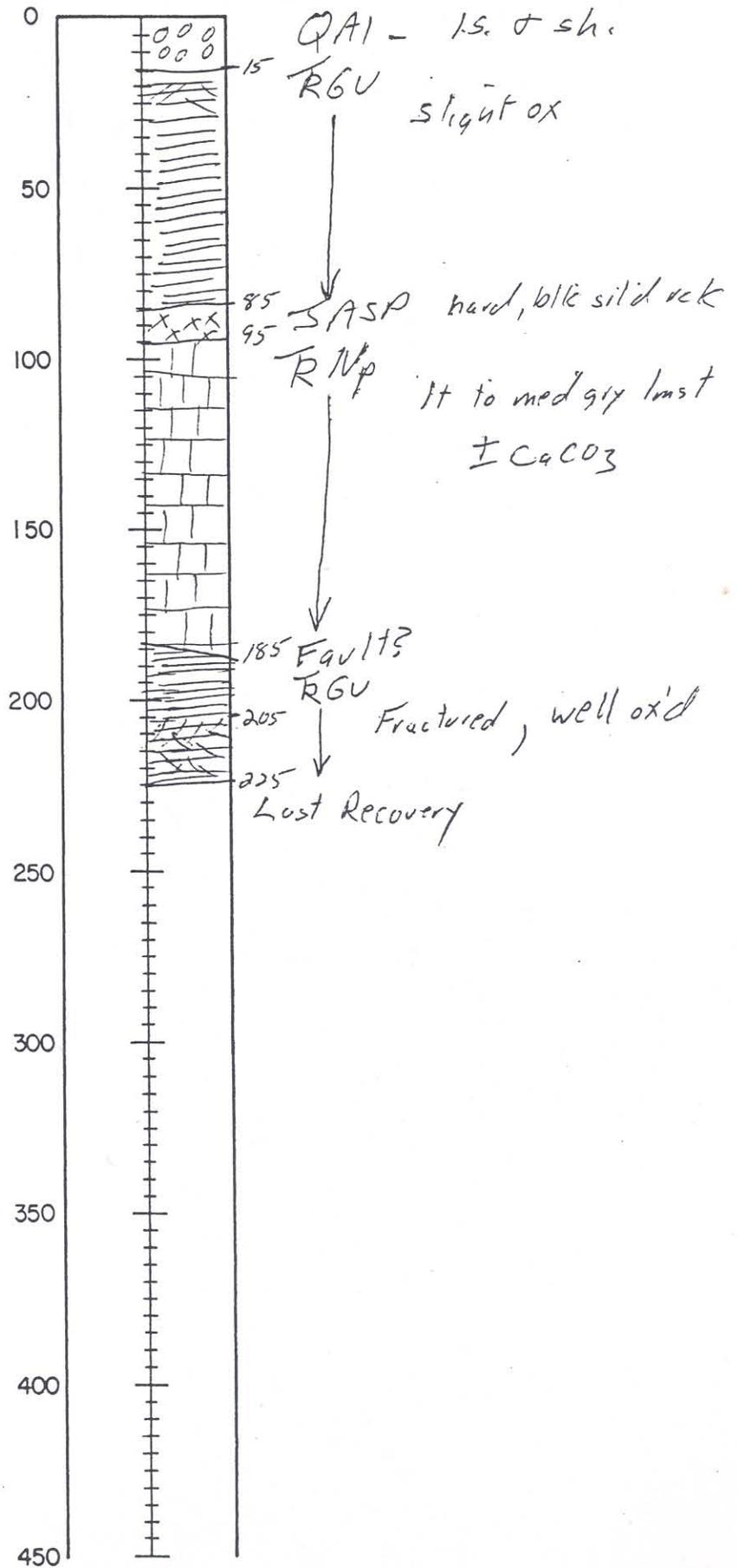
15-80' RGV Med'ly hard, phylitic-looking noncalcareous sh

80-90' SASP Very hard, black sil'd rock w/ blue to med gry siltstone

90-185' RAG Hard lt to med gry l.s. w/ local coarse CaCO<sub>3</sub>

185-225' bbl Blue gry; med'ly hard noncalcareous sh.

SAMPLE #	Fire Au(oz/ton)	Roasted Cy Leach Au(oz/ton)
SM-30- 3		-.001
4		-.001
5		-.001
6		-.001
7		-.001
8		-.001
9		-.001
10		-.001
11		-.001
12		-.001
13		-.001
14		-.001
15		-.001
16		-.001
17		-.001
18		-.001
19		-.001
20		-.001
SM-30- 21		-.001
SM-30-22		-.001
23		-.001
24	.020	-.010
25		-.001
26		-.001
27		-.001
28		-.001
29		-.001
30		-.001
31		-.001
32		-.001
33		-.001
34		-.001
35		-.001
36		-.001
37		-.001
38		-.001
39		-.001
40		-.001
41		-.001
42		-.001
43		-.001
44		-.001
SM-30-45		-.001



Scale: 1" = 50'

FREEMPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, Pershing COUNTY, NV

GENERAL:

DRILL HOLE NO. SM 31 TOTAL DEPTH 320'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING Vert INCLINATION \_\_\_\_\_  
 LOGGED BY Brown  
 REASON FOR TERMINATION Hole caved in pulled out.

DRILL DATA:

ROTARY CORE  
 DRILLER Weaver  
 DATE STARTED 6/21/81 DATE COMPLETED 6/21/81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING

DRILLING PROBLEMS (SUMMARIZE)  
Hole caved in while drilling thru Prider Fm.

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM 31-2 -> 64  
 NUMBER OF SAMPLES 63  
 INTERVALS SAMPLED 51

MINERALIZED INTERVAL:

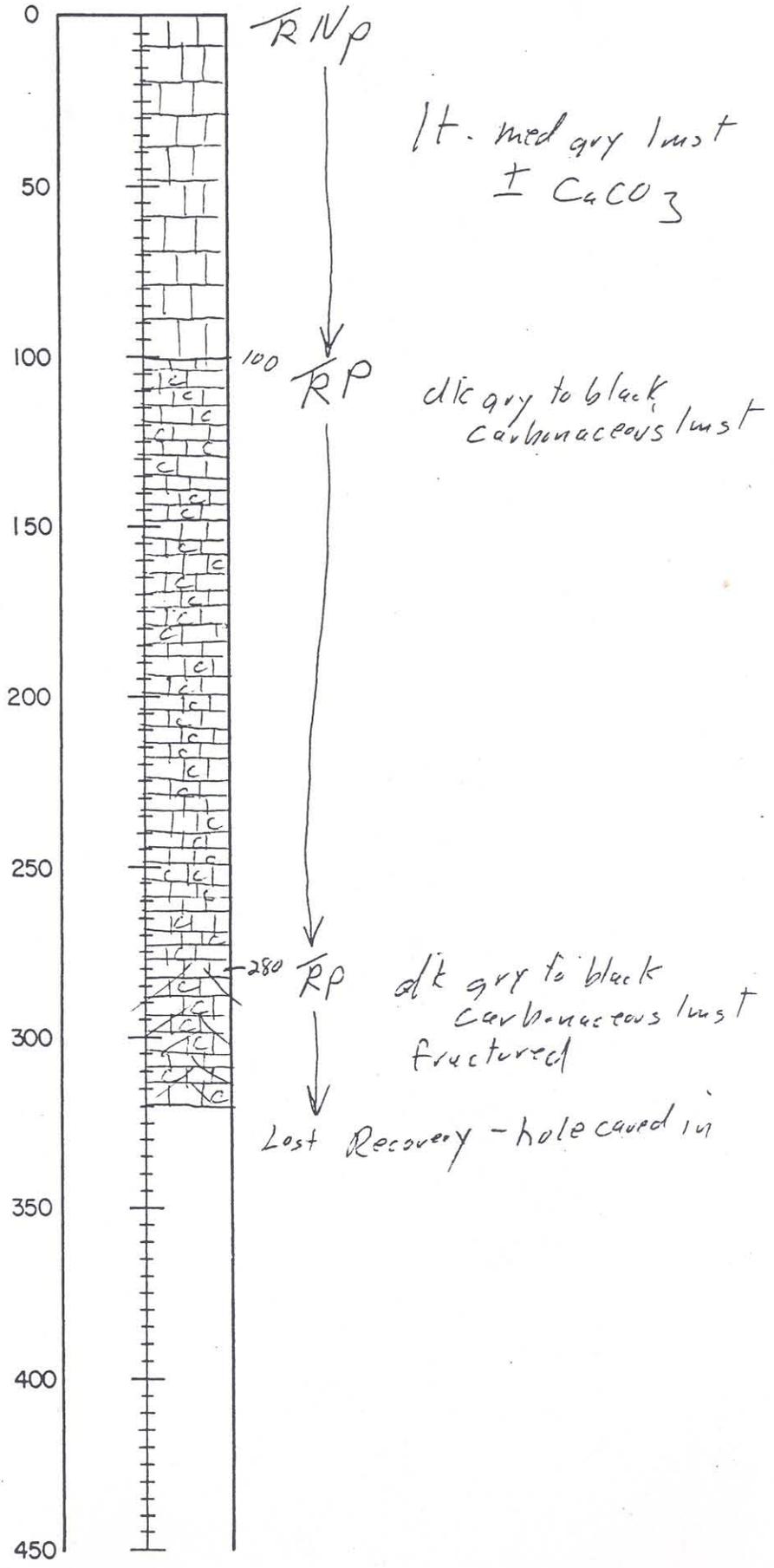
FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

0-100' R Np - Med. hard, lt. to med. gray lsst. w/ local coarse calc;  
100-320' R P - Med. hard to hard, dk gray to black, carbonaceous lsst w/ hum and in bottom samples.  
320' - Last recovery

SAMPLE #	Roasted Cy Leach Au(oz/ton)
SM-31- 2	-.001
3	-.001
4	-.001
5	-.001
6	-.001
7	-.001
8	-.001
9	-.001
10	-.001
11	-.001
12	-.001
13	-.001
14	-.001
15	-.001
16	-.001
SM-31-17	-.001
SM-31-18	-.001
19	-.001
20	-.001
21	-.001
22	-.001
23	-.001
24	-.001
25	-.001
26	-.001
27	-.001
28	-.001
29	-.001
30	-.001
SM-31-31 **	-.001

SAMPLE #	Fire Au(oz/ton)	Roasted Cy Leach Au(oz/ton)
SM-31-32		-.001
33		-.001
34		-.001
35		-.001
36		-.001
37		-.001
38		-.001
39		-.001
40		-.001
41		-.001
42		-.001
43		-.001
44		-.001
45		-.001
46		-.001
47		-.001
48		-.001
49		-.001
50		-.001
51		-.001
52		-.001
53		-.001
54		-.001
55		-.001
SM-31-56		-.001
SM-31-57		-.001
58		.002
59		.002
60		.005
61		.003
62		-.001
63		-.001
SM-31-64		-.001



Scale: 1" = 50'

FREEPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, Pershing COUNTY, NV

GENERAL:

DRILL HOLE NO. SM32 TOTAL DEPTH 100'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING vert INCLINATION \_\_\_\_\_  
 LOGGED BY Brown  
 REASON FOR TERMINATION Lost circulation, pulled out

DRILL DATA:

ROTARY CORE  
 DRILLER Weaver  
 DATE STARTED 6/23/81 DATE COMPLETED 6/23/81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING

DRILLING PROBLEMS (SUMMARIZE)

First 20' had to be cased; drilled in very broken ground all the way down. From 85-100' lost recovery and pulled out.

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM32-5 → 17  
 NUMBER OF SAMPLES 13  
 INTERVALS SAMPLED 5'

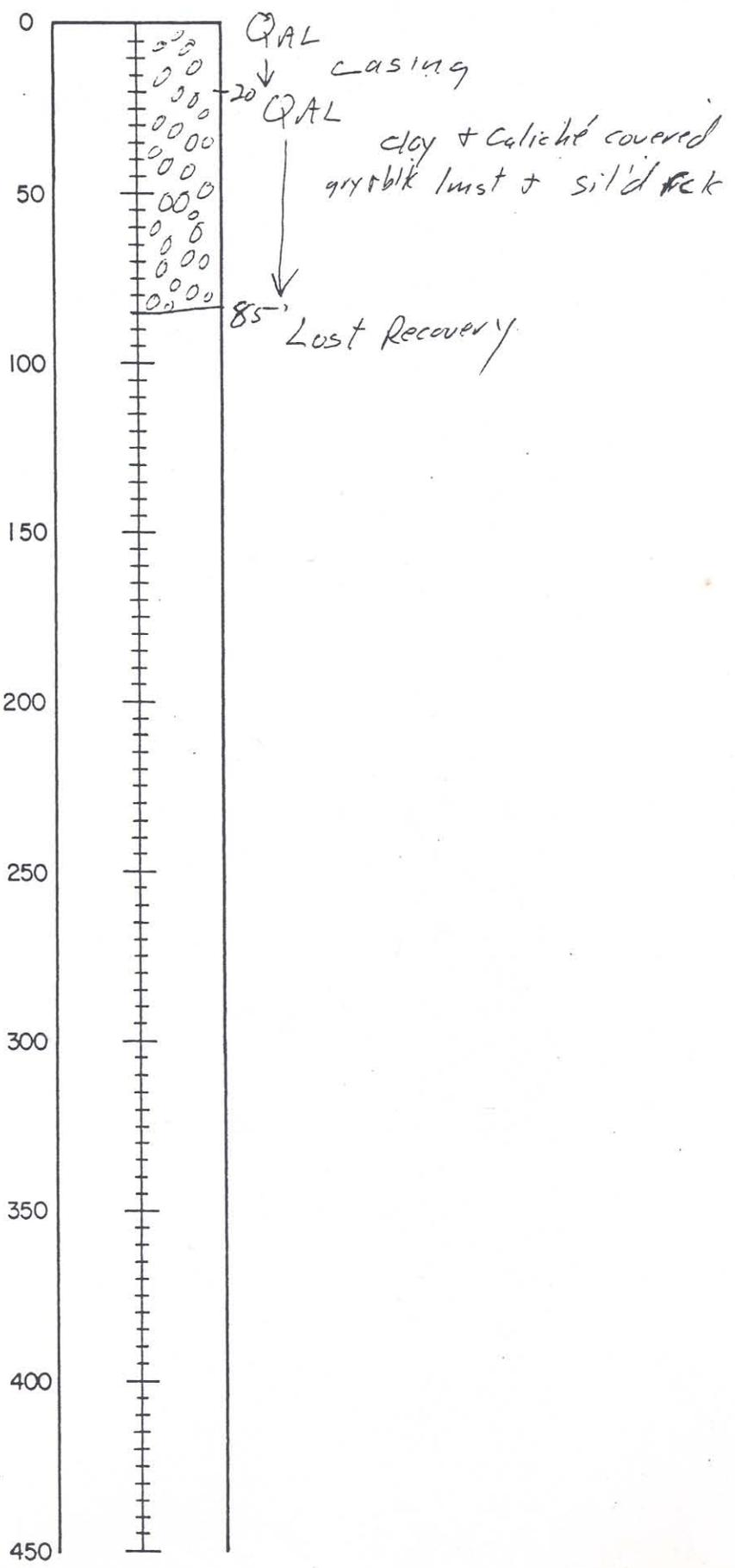
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE
25	30	5' @ .066					

GEOLOGIC SUMMARY OF HOLE:

0-20' QAL Casing in very broken ground  
20'-85' QAL Clay and caliche covered rocks of hard silid blk rcks; hard linst of grey to blk color well ox.  
TAUCS - couldn't keep hole open bad recovery

SAMPLE #	Fire Assay	Roasted
	Au (oz/ton)	Cy Leach Au (oz/ton)
SM-32- 5		.001
6	.066	.024
7		.003
8		.003
9		.002
10		.001
11		.002
12		.003
13		.005
14		.004
15		.004
16		.004
SM-32-17		.004



Scale: 1" = 50'

FREEPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, Pershing COUNTY, NV

GENERAL:

DRILL HOLE NO. SM33 TOTAL DEPTH 380'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING Vort INCLINATION \_\_\_\_\_  
 LOGGED BY Brown  
 REASON FOR TERMINATION Lost recovery

DRILL DATA:

ROTARY CORE  
 DRILLER Weaver  
 DATE STARTED 6/23/81 DATE COMPLETED 6/29/81

FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:	DEPTH	ANGLE	BEARING						

DRILLING PROBLEMS (SUMMARIZE) Lost circulation at 360'. No return last 20'

SAMPLE DATA:

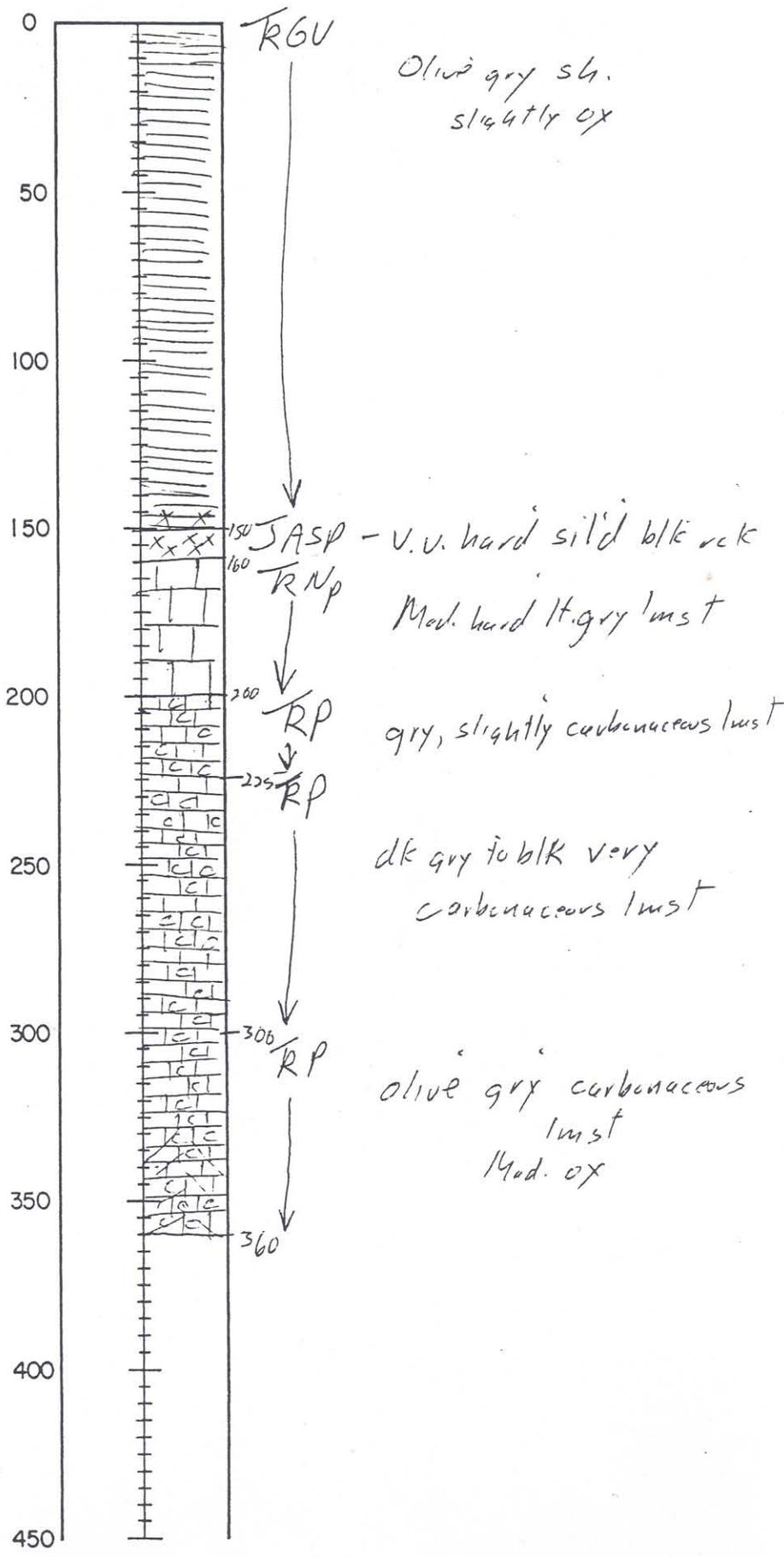
SAMPLE NUMBER SEQUENCE SM33-2-72  
 NUMBER OF SAMPLES 71  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE
105	110	5@.142					
135	140	5@.102					
45	110	65@.048	<del>65@.048</del>				
135	150	15@.059					

GEOLOGIC SUMMARY OF HOLE:

0-150' RGV - Med. hard olive to med. grey micaceous sh., sil'd near bottom  
150'-160' SASP - Very very hard blk sil'd rock w/ coarse CaCO<sub>3</sub> + small rock chips  
160'-200' RNP - Med. hard, lt. grey linst. w/ local CaCO<sub>3</sub>  
200'-360' RP - Med. hard grey to blk carbonaceous linst, fractured near bottom



SAMPLE #	Fire Assay Au(oz/ton)	Roasted Cy Leach Au(oz/ton)
SM-33- 2		.006
3		.002
4		-.001
5		-.001
6		-.001
7		-.001
8		.005
9		.005
10	.036	.031
11	.054	.039
12	.020	.013
14**	.020	.009
15	.068	.046
16	.022	.017
17	.026	.021
18	.024	.019
19	.054	.040
20	.052	.038
21	.062	.047
22	.142	.100
23		.006
24		.007
25		.007
26		.008
27		.002
28	.102	.076
29	.054	.048
30	.020	.018
31		.004
SM-33-32		.002
SM-33-33		.004
34		.009
35		.003
36		.002
37		.002
38		.002
39		.002
40		.001
41		.001
42		.001
43		.001
44		.001
45		.001
46		.001
47		-.001
48		-.001
49		-.001
50		-.001
51		-.001
52		-.001

65 @  
.048

15 @  
.059

SAMPLE #	Fire Assay Au(oz/ton)	Roasted Cy Leach Au(oz/ton)
53		-.001
54		-.001
55		-.001
56		-.001
57		-.001
58		-.001
59		-.001
60		.001
61		.001
SM-33-62		.001
SM-33-63		.003
64		-.001
65		-.001
66		-.001
67		-.001
68		-.001
69		-.001
70		.001
71		.001
SM-33-72		.001

FREEPORT EXPLORATION COMPANY

STANDARD MINE PROJECT, Pershing COUNTY, NV

GENERAL:

DRILL HOLE NO. SM34 TOTAL DEPTH 400'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING Vert INCLINATION \_\_\_\_\_  
 LOGGED BY Brown  
 REASON FOR TERMINATION Reached desired depth

DRILL DATA: ROTARY CORE

DRILLER Weaver  
 DATE STARTED 6/24/81 DATE COMPLETED 6/25/81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:	DEPTH	ANGLE	BEARING						

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
Hard rock

SAMPLE DATA:

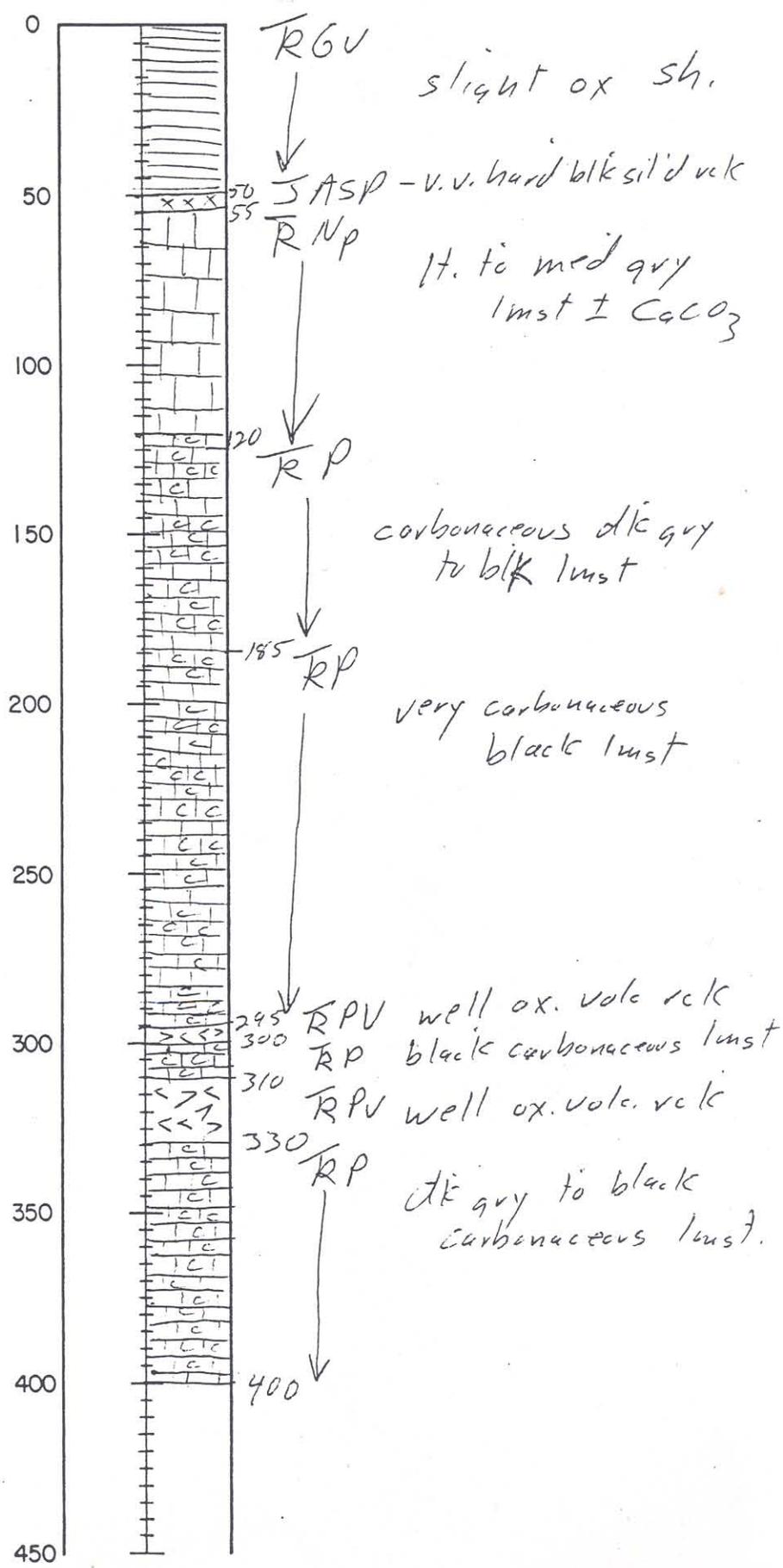
SAMPLE NUMBER SEQUENCE SM34-3 → 80  
 NUMBER OF SAMPLES 78  
 INTERVALS SAMPLED 51

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE
15	25	10' @ .044					
120	125	5' @ .040					

GEOLOGIC SUMMARY OF HOLE:

0-50' RGV Oliv-grey med hard, noncalc. shale.  
50-55' JASP Very v. hard, sil'ed blk calc  
55-120' RNP Mod. hard, lt. to med. gry linst w/ local coarse CaCO<sub>3</sub>  
120'-295 RP Hard dk gry to blk. carbonaceous linst  
295-300 RPV Mod. hard to hard, gry, fine-grained volc. calc  
300-310 RP Mod. hard, dk gry to blk carbonaceous linst; tr. volc. calc  
310-330 RPV Mod. hard, olive gry, chloritized, fine-grained volc. calc.  
330-400 RPV Mod. hard, blk calc, sil'ed, med. linst w/ local Rte veins



Scale: 1" = 50'

SAMPLE #	Fire Assay	Roasted	Au (oz/ton)
	Au (oz/ton)	Cy Leach Au (oz/ton)	
SM-34- 3**			.008
4	.052	} 10 @ .044	.031
5	.036		.031
6			.005
7			.006
8			.005
9			.003
10			.003
11			.006
12			.003
13			.004
14			.003
15			.004
16			.004
17			.001
18			-.001
19			.003
20			-.001
21			.001
22			.001
SM-34-23			.002
SM-34-24			.001
25	.040		.024
26			.006
27			.001
28			.001
29			-.001
30			.001
SM-34-31			.001
SM-34-32			-.001
33			-.001
34			-.001
35			-.001
36			-.001
37			-.001
38			-.001
39			-.001
40			-.001
41			-.001
42			.004
43			-.001
44			-.001
45			-.001
46			-.001
47			-.001
48			-.001
49			-.001
50			-.001
51			-.001

SAMPLE #	Au (oz/ton)
52	-.001
53	-.001
54	-.001
55	-.001
SM-34-56	-.001
SM-34-57	-.001
58	-.001
59	-.001
60	.003
61	.002
62	.001
63	-.001
64	-.001
65	-.001
66	-.001
67	-.001
68	-.001
69	-.001
70	-.001
71	-.001
72	-.001
73	-.001
74	-.001
75	-.001
76	-.001
77	-.001
78	-.001
79	-.001
SM-34-80	-.001

FREEMPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, Pershing COUNTY, NV

GENERAL:

DRILL HOLE NO. SM 35 TOTAL DEPTH 140'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING Vert INCLINATION \_\_\_\_\_  
 LOGGED BY Brown  
 REASON FOR TERMINATION Last Recovery in Natchez Pass

DRILL DATA:

ROTARY CORE

DRILLER Wesley  
 DATE STARTED 6/25/81 DATE COMPLETED 6/25/81

FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING						

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
Broken ground; Last circulation at 125';  
no return for next 15 feet

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM 35-2 → 25  
 NUMBER OF SAMPLES 24  
 INTERVALS SAMPLED 51

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYA-NIDE GRADE
90	105	15% @ .125					
45	110	65% @ .061					

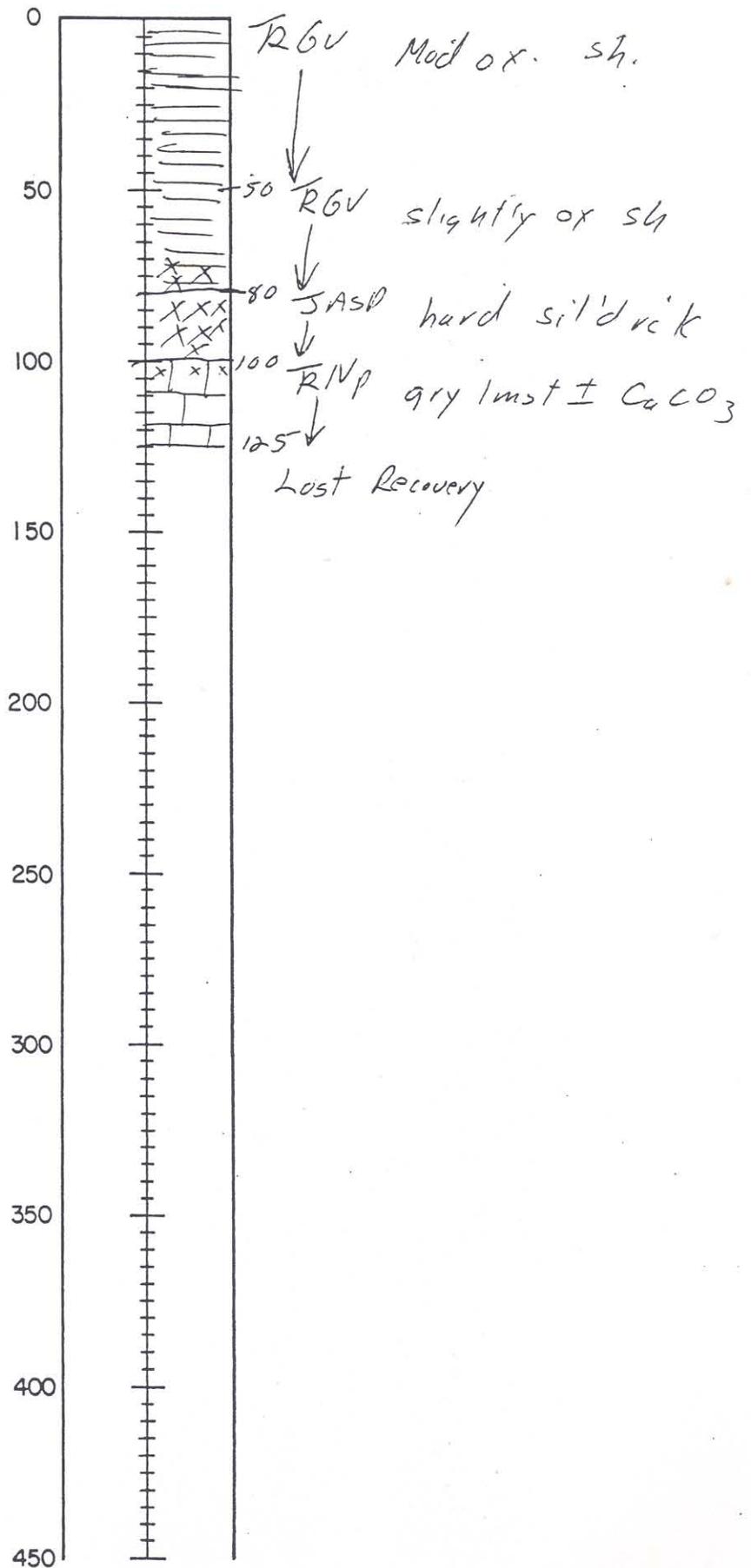
GEOLOGIC SUMMARY OF HOLE:

0-50' RGV Med hard, blue grey micaceous sh w/ local coarse calcO<sub>3</sub>  
much ox at top; sil'd near bottom

50'-100' JASP - Very hard, dk grey to blk sil'd rock, slight ox

100'-125' RNP Med hard grey lsst w/ local coarse calcO<sub>3</sub>

125-140' - No Return (Last Recovery)



Scale: 1" = 50'

Roasted Cy Leach

SAMPLE #

Au (oz/ton.)

SAMPLE #		Au (oz/ton.)
SM-35- 2**		.002
3		.001
4		.001
6**		.001
7		-.001
8		-.001
9		-.001
10	.014	.010
11	.012	.010
12	.012	.010
13	.030	.025
14	.032	.031
15	.020	.018
16	.116	.058
17	.092	.080
18	.066	.057
19	.114	.077
20	.160	.149
21	.100	.083
22	.022	.019
23		.003
24		.007

65'@  
.061

15'@  
.125

SM-35-25 .003

FREPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, PERSTING COUNTY, NV

GENERAL:

DRILL HOLE NO. SM36 TOTAL DEPTH 400  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING weir INCLINATION \_\_\_\_\_  
 LOGGED BY WJH  
 REASON FOR TERMINATION reached target depth

DRILL DATA:

ROTARY CORE  
 DRILLER Rinroth / Weaver  
 DATE STARTED \_\_\_\_\_ DATE COMPLETED \_\_\_\_\_  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING

DRILLING PROBLEMS (SUMMARIZE) none

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SAMPLE DATA:

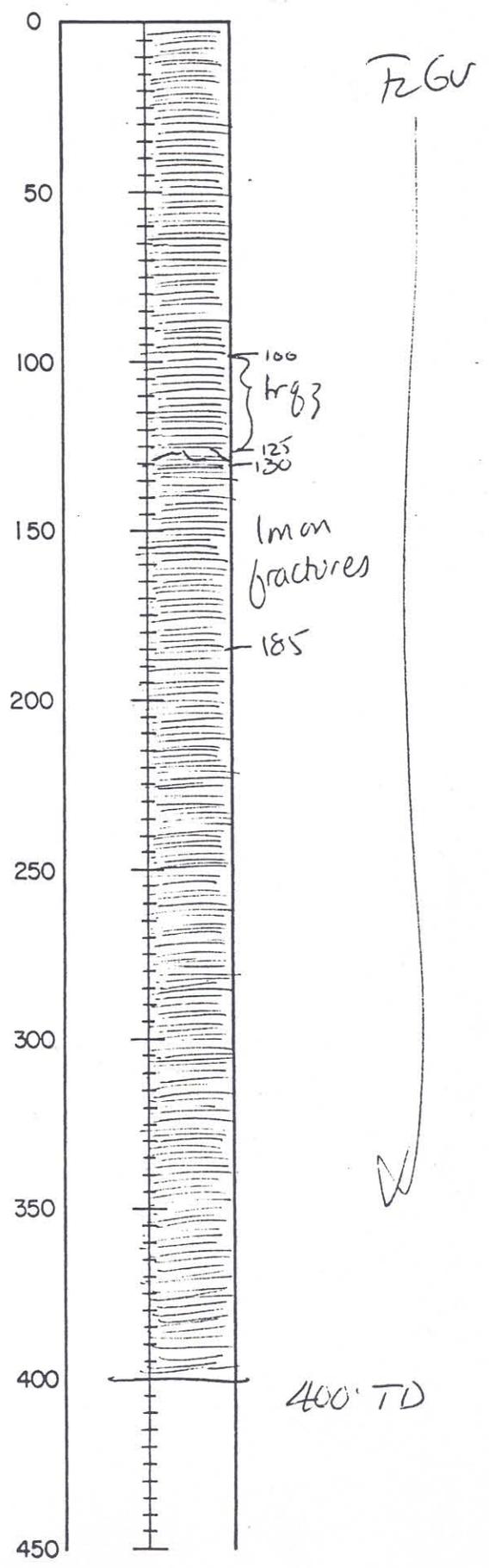
SAMPLE NUMBER SEQUENCE SM36-2 → 80  
 NUMBER OF SAMPLES 79  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

0 - 400 F.G.  
100 - 125 brgy and minor silt  
125 - 130 fractured  
130 - 185 same km on fractures  
325 - 400 dk, fresh, carbonaceous



Scale: 1" = 50'

<u>SAMPLE #</u>	<u>R. Acid Au(oz/ton)</u>
SM-36-2	-.002
3	-.002
4	-.002
5	-.002
6	-.002
7	-.002
8	-.002
9	-.002
10	-.002
11	-.002
12	-.002
13	-.002
14	-.002
15	-.002
16	-.002
17	-.002
18	-.002
19	-.002
20	-.002
21	-.002
22	-.002
SM-36-23	-.002
SM-36-24	-.002
25	-.002
26	-.002
27	-.002
28	-.002
29	-.002
30	-.002
31	-.002
32	-.002
33	-.002
34	-.002
35	-.002
36	-.002
37	-.002
38	-.002
39	-.002
40	-.002
41	-.002
42	-.002
43	-.002
44	-.002
45	-.002
46	-.002
47	-.002
48	-.002
49	-.002
50	-.002
51	-.002
52	-.002
SM-36-53	-.002

<u>SAMPLE #</u>	<u>R. Acid Au(oz/ton)</u>
SM-36-54	-.002
55	-.002
56	-.002
57	-.002
58	-.002
59	-.002
60	-.002
61	-.002
62	-.002
63	-.002
64	-.002
65	-.002
66	-.002
67	-.002
68	-.002
69	-.002
70	-.002
71	-.002
72	-.002
73	-.002
74	-.002
75	-.002
76	-.002
77	-.002
78	-.002
79	-.002
SM-36-80**	-.002

FREEMPORT EXPLORATION COMPANY

STANDARD PROJECT, PERKINS COUNTY, WV

GENERAL:

DRILL HOLE NO. 5437 TOTAL DEPTH 360  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING 121st INCLINATION \_\_\_\_\_  
 LOGGED BY WDT  
 REASON FOR TERMINATION drilling problems

DRILL DATA:

ROTARY CORE  
 DRILLER St. Remond / Weaver  
 DATE STARTED \_\_\_\_\_ DATE COMPLETED \_\_\_\_\_  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING						

DRILLING PROBLEMS (SUMMARIZE)  
fractured ground, no recovery I think

SAMPLE DATA:

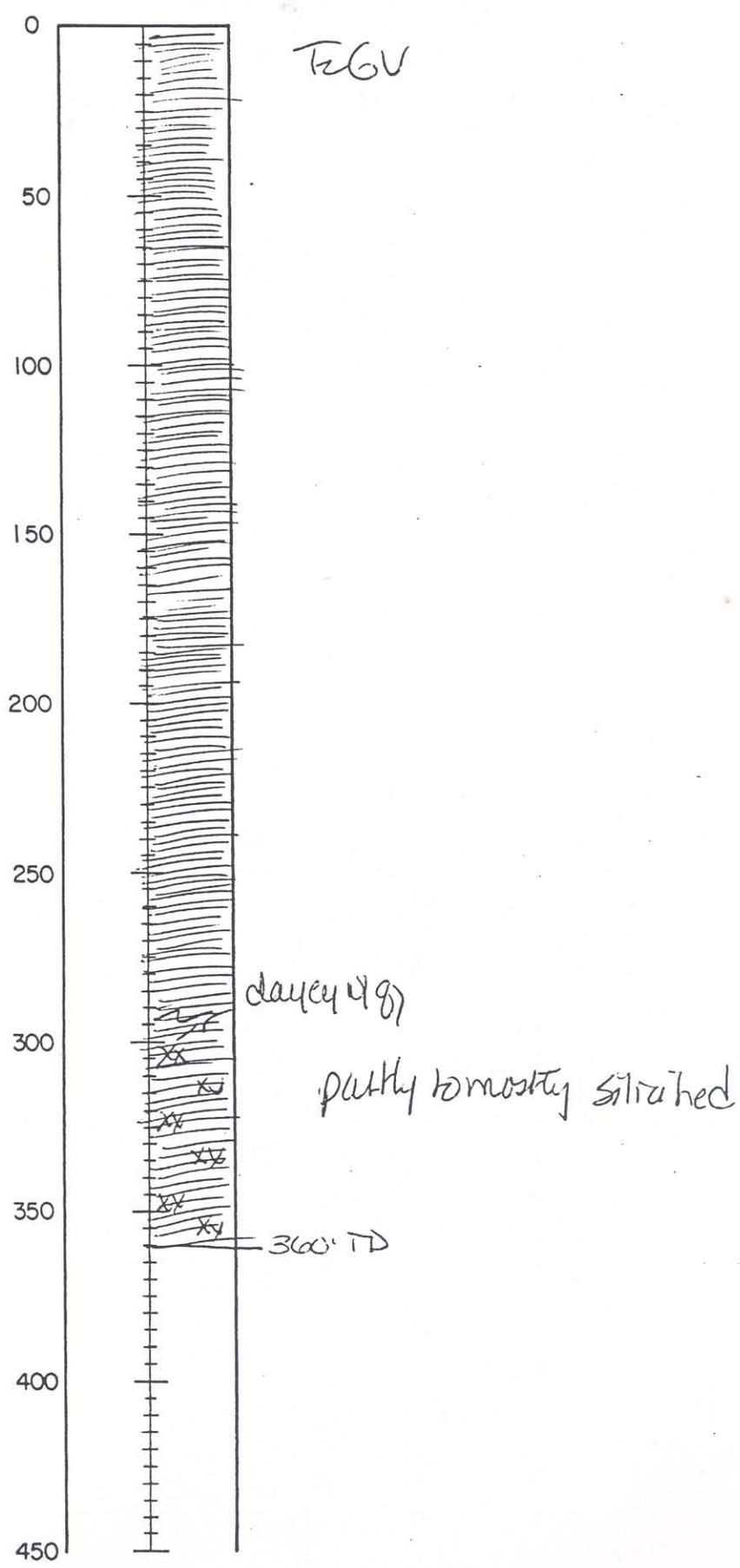
SAMPLE NUMBER SEQUENCE 5437-2 → 72  
 NUMBER OF SAMPLES 70  
 INTERVALS SAMPLED 51

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
300	315	15' @ <del>0.020</del>					
		.020					

GEOLOGIC SUMMARY OF HOLE:

0 - 280 EGV typical  
280 - 295 " ox clayey w/ mag. in clay etc  
295 - 360 F grey silic shale and/or sandstone  
some pipes very well down hole indicating getting into T-Np  
some red clay at the top 15'



Scale: 1" = 50'

SAMPLE #	R. Acid Au(oz/ton)
SM-37-2	-.002
3	-.002
4	-.002
5	-.002
6	-.002
7	-.002
8	-.002
9	-.002
10	-.002
11	-.002
12	-.002
13	-.002
14	-.002
15	-.002
16	-.002
17	-.002
18	-.002
19	-.002
20	-.002
21	-.002
22	-.002
23	-.002
24	-.002
25	-.002
26	-.002
27	-.002
28	-.002
29	-.002
30	-.002
SM-37-31	-.002
SM-37-32	-.002
33	-.002
34	-.002
35	-.002
36	-.002
37	-.002
38	-.002
SM-37-39**	-.002
SM-37-40	-.002
41	-.002
SM-37-42	-.002

SAMPLE #	R. Acid Au(oz/ton)	Fire Au(oz/ton)
SM-37-43	-.002	
44	-.002	
45	-.002	
46	-.002	
47	-.002	
48	-.002	
49	-.002	
50	-.002	
51	-.002	
52	-.002	
53	-.002	
54	-.002	
55	-.002	
56	-.002	
57	-.002	
58	-.002	
59	-.002	
60	.007	
61	.015	.018
62	.014	.024
63	.018	.018
64	.008	
65	-.002	
66	-.002	
67	-.002	
68	.003	
69	.004	
70	.004	
71	.002	
SM-37-72	.003	

.018 }  
 .024 } .020  
 .018 }



SAMPLE #	Au (oz/ton)	SAMPLE #	Au (oz/ton)
SM- 2-38	-.002	SM-52-38	.004
3	-.002	53	-.002
4	-.002	54	-.002
5	-.002	55	-.002
6	-.002	56	-.002
7	-.002	57	-.002
8	-.002	58	-.002
9	-.002	59	-.002
10	-.002	60	-.002
11	-.002	61	-.002
12	-.002	62	-.002
13	-.002	63	-.002
14	-.002	64	-.002
15	-.002	65	-.002
16	-.002	66	-.002
17	-.002	67	-.002
18	-.002	68	-.002
19	-.002	69	-.002
20	-.002	70	-.002
21	-.002	SM-71-38	-.002
22	-.002	SM-72-38	-.002
23	-.002	73	-.002
24	-.002	74	-.002
25	-.002	75	-.002
SM-26-38	-.002	76	-.002
SM-27-38	-.002	77	-.002
28	-.002	78	-.002
29	-.002	79	-.002
30	-.002	SM-80-38	-.002
31	-.002		
32	-.002		
33	-.002		
34	-.002		
35	-.002		
36	-.002		
37	-.002		
38	-.002		
39	-.002		
40	-.002		
41	.003		
42	.002		
43	-.002		
44	-.002		
45	-.002		
46	-.002		
47	-.002		
48	-.002		
49	-.002		
50	-.002		
SM-51-38	-.002		

FREEPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, PERSHING COUNTY, NEVADA

GENERAL:

DRILL HOLE NO. SM39 TOTAL DEPTH 150'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY RHB  
 REASON FOR TERMINATION \_\_\_\_\_

DRILL DATA: ROTARY CORE

DRILLER Rimrock  
 DATE STARTED \_\_\_\_\_ DATE COMPLETED \_\_\_\_\_  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:	DEPTH	ANGLE	BEARING						

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM39 2-30  
 NUMBER OF SAMPLES 29  
 INTERVALS SAMPLED 5'

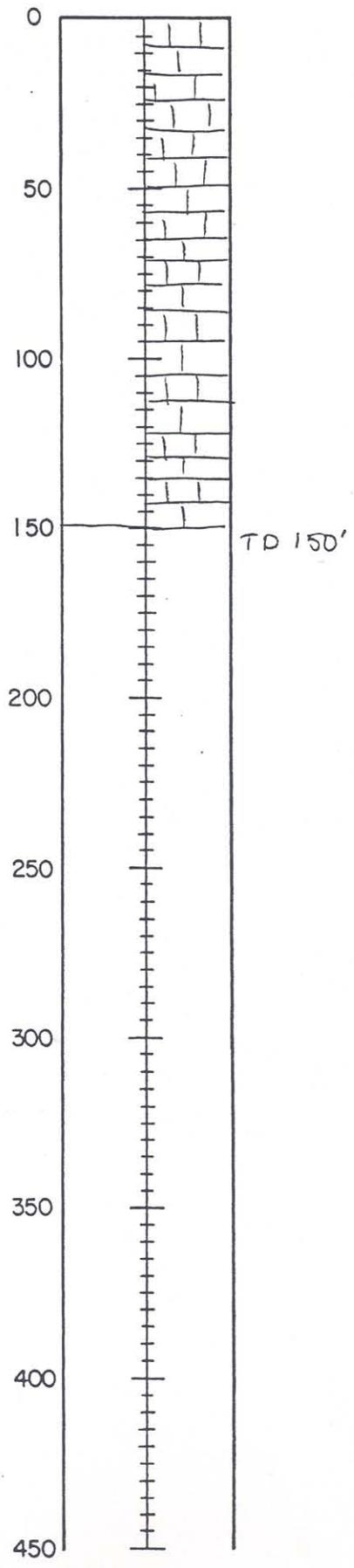
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

dk gray strongly calcareous carbonaceous limestone  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

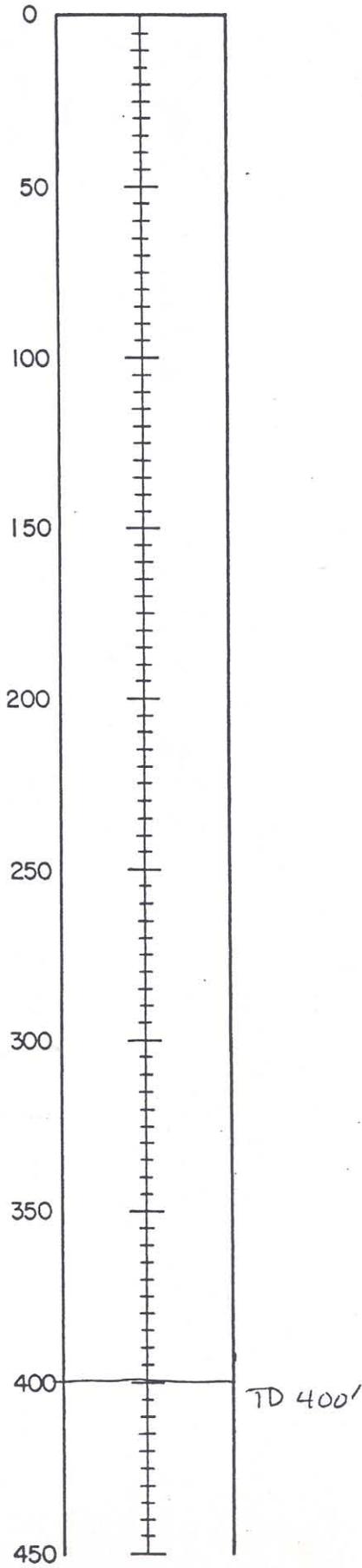
<u>SAMPLE #</u>	<u>Au(oz/ton)</u>
SM-39-2	-.002
3	-.002
4	-.002
5	-.002
6	-.002
7	-.002
8	-.002
9	-.002
10	-.002
11	-.002
12	-.002
13	-.002
14	-.002
15	-.002
16	-.002
17	-.002
18	-.002
19	-.002
20	-.002
21	-.002
22	-.002
23	-.002
24	-.002
25	-.002
26	-.002
27	-.002
28	-.002
29	-.002
29 Dupl.**	-.002



Scale: 1" = 50'



<u>SAMPLE #</u>	<u>Au(oz/ton)</u>	<u>SAMPLE #</u>	<u>Au(oz/ton)</u>
SM-39-A-2	-.002	SM-39-A-43	-.002
3	-.002	44	-.002
4	-.002	45	-.002
5	-.002	46	-.002
6	-.002	47	-.002
7	-.002	48	-.002
8	-.002	49	-.002
9	-.002	50	-.002
10	-.002	51	-.002
11	-.002	52	-.002
12	-.002	53	-.002
13	-.002	54	-.002
14	-.002	55	-.002
15	-.002	56	-.002
16	-.002	57	-.002
17	-.002	58	-.002
18	-.002	59	-.002
19	-.002	60	-.002
20	-.002	61	-.002
SM-39-A-21	-.002	62	-.002
<u>SAMPLE #</u>	<u>Au(oz/ton)</u>		
SM-39-A-22	-.002	63	-.002
23	-.002	64	-.002
24	-.002	65	-.002
25	-.002	66	-.002
26	-.002	67	-.002
27	-.002	68	-.002
28	-.002	69	-.002
29	-.002	70	-.002
30	-.002	71	-.002
31	-.002	SM-39-A-72	-.002
32	-.002	<u>SAMPLE #</u>	<u>Au(oz/ton)</u>
33	-.002	SM-39-A-73	-.002
34	-.002	74	-.002
35	-.002	75	-.002
36	-.002	76	-.002
37	-.002	77	-.002
38	-.002	78	-.002
39	-.002	79	-.002
40	-.002	SM-39-A-80**	-.002
SM-39-A-41	-.002		
SM-39-A-42	-.002		



Scale: 1" = 50'

FREEPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, PERSHING COUNTY, NEVADA

GENERAL:

DRILL HOLE NO. SM40 TOTAL DEPTH 385'  
 COLLAR ELEV. ~5800 COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY RHB  
 REASON FOR TERMINATION excess water in hole

DRILL DATA: (ROTARY) CORE

DRILLER RIMROCK  
 DATE STARTED 10-20-81 DATE COMPLETED 10-21-81

FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:	DEPTH	ANGLE	BEARING						

DRILLING PROBLEMS (SUMMARIZE) hard rk, H<sub>2</sub>O

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SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM40-2 thru SM40-77  
 NUMBER OF SAMPLES 76  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
<u>320</u>	<u>325</u>	<u>5' @ .040</u>					

GEOLOGIC SUMMARY OF HOLE:

~150-155' rock becomes strongly silicified, non calcareous & widely pyritic  
335-350, 375-385' pyrite & of veining increased, rock becomes mottled pale gray-black

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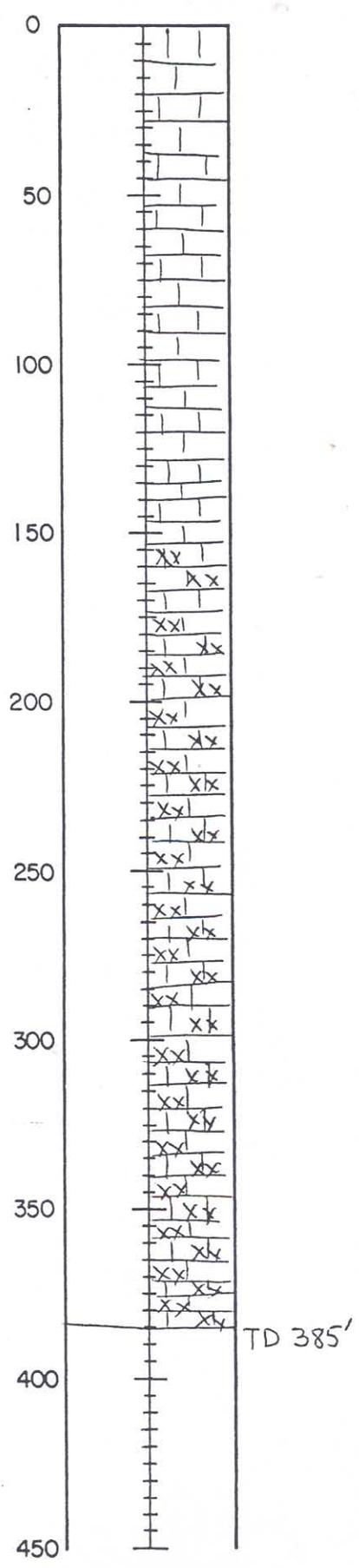


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<u>SAMPLE #</u>	<u>Au(oz/ton)</u>		<u>Fire</u>	<u>R. Acid</u>
		<u>SAMPLE #</u>	<u>Au(oz/ton)</u>	<u>Au(oz/ton)</u>
SM-40-1**	-.002	SM-40-41		-.002
3	-.002	42		-.002
4	-.002	43		.004
5	-.002	44		.003
6	-.002	45		.002
7	-.002	46		-.002
7 Dupl.	-.002	47		-.002
8	-.002	48		-.002
9	.002	40		-.002
10	.008	50		-.002
11	-.002			
12	-.002	51		-.002
		52		-.002
13	-.002	53		-.002
14	-.002	54		-.002
15	-.002	55		-.002
16	-.002	56		-.002
17	-.002	57		-.002
18	-.002	58		-.002
19	-.002	59		-.002
20	-.002	60		-.002
21	-.002			
SM-40-22	-.002	61		-.002
SM-40-23	-.002	62		.002
24	-.002	63		-.002
25	-.002	64		-.002
26	-.002	65	.040	.026
27	-.002	66		.003
28	-.002	67		-.002
29	-.002	68		-.002
30	-.002	69		.003
31	-.002	SM-40-70		.002
32	-.002	SM-40-71		-.002
		72		-.002
33	-.002	73		-.002
34	-.002	74		-.002
35	-.002	75		-.002
36	-.002	76		-.002
37	.002	SM-40-77		-.002
38	-.002			
39	-.002			
SM-40-40**	-.002			



Scale: 1" = 50'

FREEPORT EXPLORATION COMPANY

STANDARD MINE PROJECT, PERSHING COUNTY, NV

GENERAL:

DRILL HOLE NO. SM41 TOTAL DEPTH 400'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY RTB  
 REASON FOR TERMINATION TARGET DEPTH REACHED

DRILL DATA: ROTARY CORE

DRILLER Rimrock  
 DATE STARTED 10-22-81 DATE COMPLETED 10-23-81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING						

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM415 → 80  
 NUMBER OF SAMPLES 76  
 INTERVALS SAMPLED 5'

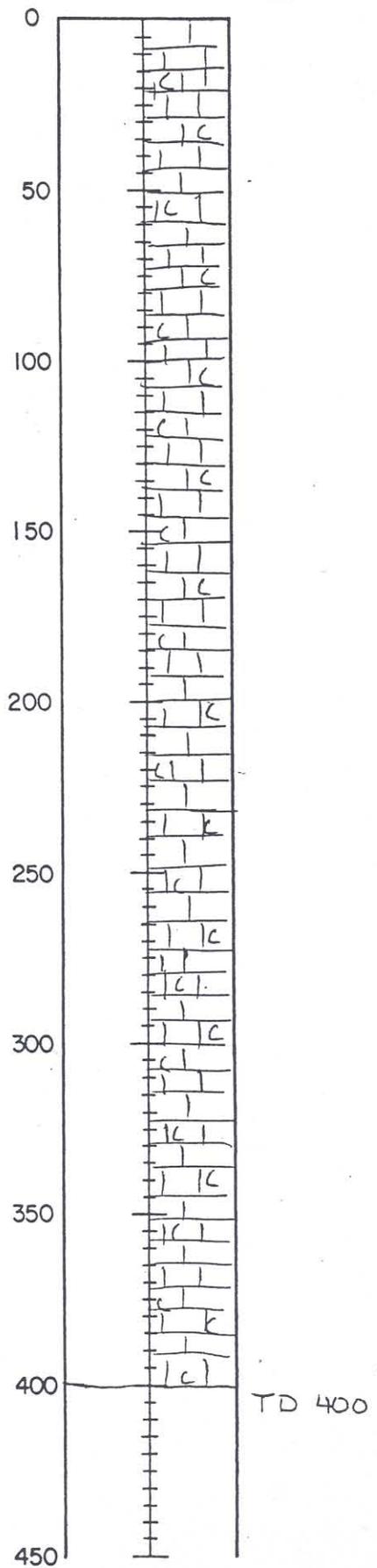
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
		<u>NL</u>					

GEOLOGIC SUMMARY OF HOLE:

NL dark gray strongly calcareous carbonaceous limestone  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

<u>SAMPLE #</u>	<u>Au(oz/ton)</u>	<u>SAMPLE #</u>	<u>Au(oz/ton)</u>
SM-41-5	-.002	SM-41-47	-.002
6	-.002	48	-.002
7	-.002	49	-.002
8	-.002	SM-41-50	-.002
9	-.002	SM-41-51	-.002
10	-.002	52	-.002
11	-.002	53	-.002
12	-.002	54	-.002
13	-.002	55	-.002
14	-.002	56	-.002
15	-.002	57	-.002
SM-41-16	-.002	58	-.002
SM-41-17	-.002	59	-.002
18	-.002	60	-.002
19	-.002	61	-.002
20	-.002	62	-.002
21	-.002	63	-.002
22	-.002	64	-.002
23	-.002	65	-.002
24	-.002	66	-.002
25	-.002	67	-.002
26	-.002	68	-.002
27	-.002	69	-.002
28	-.002	70	-.002
29	-.002	71	-.002
30	-.002	72	-.002
31	-.002	73	-.002
32	-.002	74	-.002
33	-.002	75	-.002
34	-.002	76	-.002
35	-.002	77	-.002
36	-.002	78	-.002
37	-.002	79	-.002
38	-.002	SM-41-80**	-.002
39	-.002		
40	-.002		
41	-.002		
42	-.002		
43	-.002		
44	-.002		
45	-.002		
SM-41-46	-.002		



Scale: 1" = 50'

FREEPORT EXPLORATION COMPANY

STANDARD MINE PROJECT, PERSHING COUNTY, NV

GENERAL:

DRILL HOLE NO. SM42 TOTAL DEPTH 80'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY RHB  
 REASON FOR TERMINATION no returns

DRILL DATA: ROTARY CORE

DRILLER Rimrock  
 DATE STARTED 10-23-81 DATE COMPLETED 10-29-81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING						

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
hole terminated due lack of returns

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM42 -2 → 16  
 NUMBER OF SAMPLES 15  
 INTERVALS SAMPLED 5'

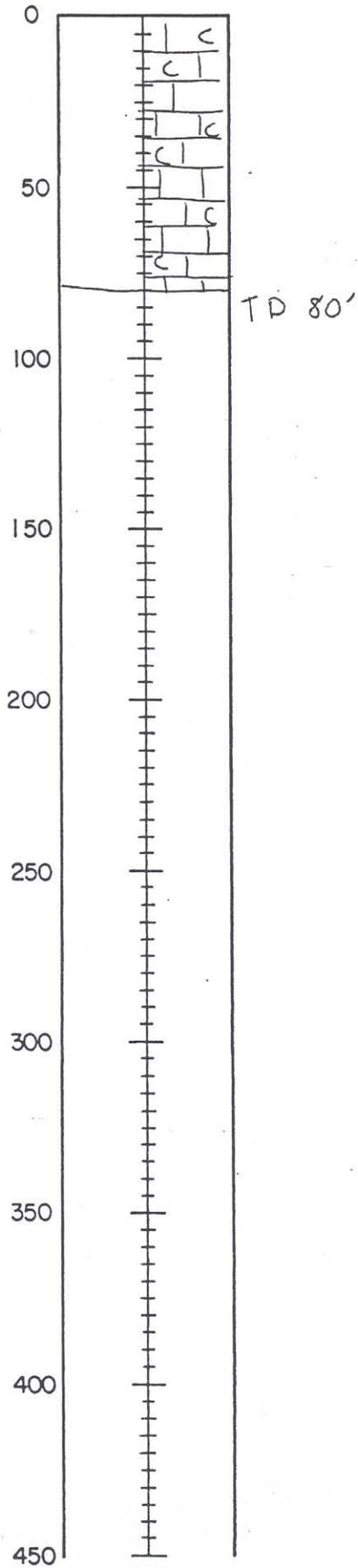
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

✓ R Prida dark gray-black strongly calcareous carbonaceous carbonaceous ls.

<u>SAMPLE #</u>	<u>Au (oz/ton)</u>
SM-42-2	-.002
3	-.002
4	-.002
5	-.002
6	-.002
7	-.002
8	-.002
9	-.002
10	-.002
11	-.002
12	-.002
SM-42-13**	-.002



Scale: 1" = 50'

FREEPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, PERSHING COUNTY, NV

GENERAL:

DRILL HOLE NO. SM42A TOTAL DEPTH 240'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY RHB  
 REASON FOR TERMINATION hole washing & caving badly

DRILL DATA: ROTARY CORE

DRILLER Rimrock  
 DATE STARTED 10-23-81 DATE COMPLETED 10-24-81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING							

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
hole terminated due to lack of returns

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM42A 2-48  
 NUMBER OF SAMPLES \_\_\_\_\_  
 INTERVALS SAMPLED \_\_\_\_\_

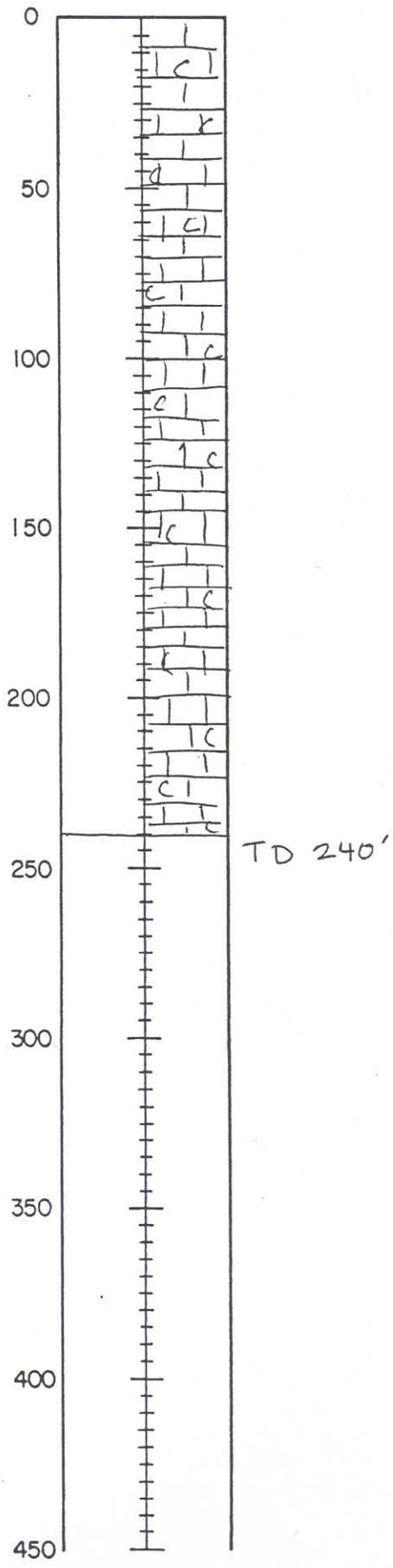
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

R. Brida dk gray-black strongly calcareous carbonaceous limestone  
0-35' slightly ox tan pncda  
35-240 unox blk

<u>SAMPLE #</u>	<u>Au(oz/ton)</u>
SM-42A-2	-.002
3	-.002
4	-.002
5	-.002
6	-.002
7	-.002
8	-.002
9	-.002
10	-.002
SM-42A-11	-.002
SM-42A-12	-.002
13	-.002
14	-.002
15	-.002
16	-.002
17	-.002
18	-.002
19	-.002
20	-.002
21	-.002
22	.002
23	-.002
24	-.002
25	.002
26	-.002
27	-.002
28	-.002
29	-.002
30	-.002
31	-.002
32	-.002
33	-.002
34	-.002
35	-.002
36	-.002
37	-.002
38	-.002
39	-.002
40	-.002
SM-42A-41	-.002
SM-42A-42	-.002
43	-.002
44	-.002
45	-.002
46	-.002
47	-.002
SM-42A-48**	-.002



Scale: 1" = 50'

FREEPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, PERSHING COUNTY, NEVADA

GENERAL:

DRILL HOLE NO. SM43 TOTAL DEPTH 420'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY RHB  
 REASON FOR TERMINATION TARGET DEPTH REACHED

DRILL DATA: ROTARY CORE

DRILLER Rimrock  
 DATE STARTED 10-24-81 DATE COMPLETED 10-25-81

FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:	DEPTH	ANGLE	BEARING						

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
hard rock, slow drilling

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM 43-5 → SM43-84  
 NUMBER OF SAMPLES 79  
 INTERVALS SAMPLED 5'

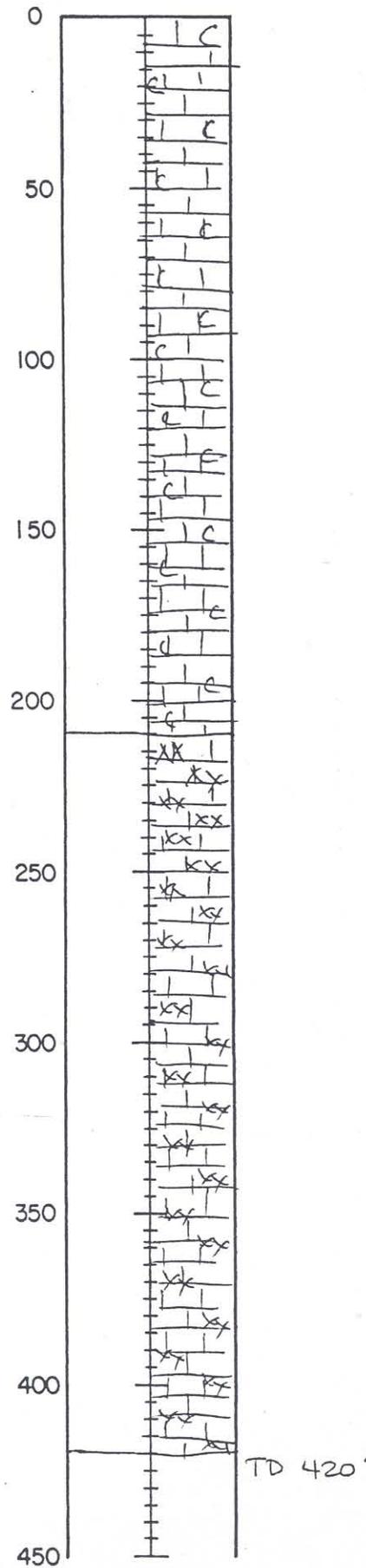
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
		NIL					

GEOLOGIC SUMMARY OF HOLE:

R. Prids, dk gray-black, strongly calcareous carbonaceous limestone.  
Sulfidation & uranyl sulfate begin @ 210'

<u>SAMPLE #</u>	<u>Au(oz/ton)</u>	<u>SAMPLE #</u>	<u>Au(oz/ton)</u>
SM-43-5	-.002	SM-43-40	-.002
6	-.002	41	-.002
7	-.002	42	-.002
8	-.002		
9	-.002	43	-.002
		44	-.002
10	-.002	45	-.002
11	-.002	46	-.002
12	-.002	47	-.002
13	-.002	48	-.002
14	-.002	49	-.002
15	-.002	50	-.002
16	-.002	51	-.002
17	-.002	52	-.002
18	-.002		
SM-43-19	-.002	53	-.002
		54	-.002
SM-43-20	-.002	55	-.002
21	-.002	56	-.002
22	-.002	57	-.002
23	-.002	58	-.002
24	-.002	59	-.002
25	-.002	60	-.002
26	-.002	61	-.002
27	-.002	SM-43-62	-.002
28	-.002		
29	-.002	SM-43-63	-.002
		64	-.002
30	-.002	65	-.002
31	-.002	66	-.002
32	-.002	67	-.002
33	-.002	68	-.002
34	-.002	69	-.002
35	-.002	70	-.002
36	-.002	71	-.002
37	-.002	72	-.002
38	-.002		
SM-43-39**	-.002	73	-.002
		74	-.002
		75	-.002
		76	-.002
		77	-.002
		78	-.002
		79	-.002
		80	-.002
		81	-.002
		82	-.002
		83	-.002
		SM-43-84	-.002



Scale: 1" = 50'

FREEMPORT EXPLORATION COMPANY

STANDARD PROJECT, PERSHING COUNTY, NEVADA

GENERAL:

DRILL HOLE NO. SM44 TOTAL DEPTH 75'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY RHB  
 REASON FOR TERMINATION NO RETURN

DRILL DATA: ROTARY CORE

DRILLER Rumrill  
 DATE STARTED 10-26-81 DATE COMPLETED 10-26-81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING

DRILLING PROBLEMS (SUMMARIZE) NO RETURN

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SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM44-4 th SM44-6  
 NUMBER OF SAMPLES 3  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

broken dark gray calcareous carbonaceous limestone R.P.ida

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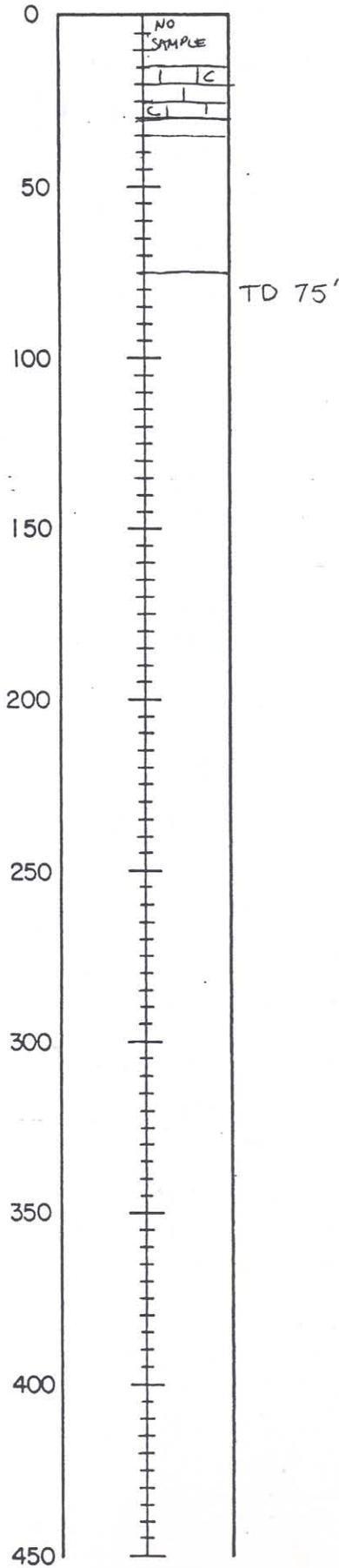
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SAMPLE #      Au(oz/ton)

SM-44-4	-.002
5	-.002
SM-44-6**	-.002



Scale: 1" = 50'

FREEPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, PERSHING COUNTY, NEVADA

GENERAL:

DRILL HOLE NO. SM45 TOTAL DEPTH 85'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY RHB  
 REASON FOR TERMINATION NO RETURN

DRILL DATA: ROTARY CORE

DRILLER Rimrock  
 DATE STARTED 10-26-81 DATE COMPLETED 10-27-81

FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:	DEPTH	ANGLE	BEARING						

DRILLING PROBLEMS (SUMMARIZE) NO RETURN

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM45-2 → SM45 16  
 NUMBER OF SAMPLES 15  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL: R Acid

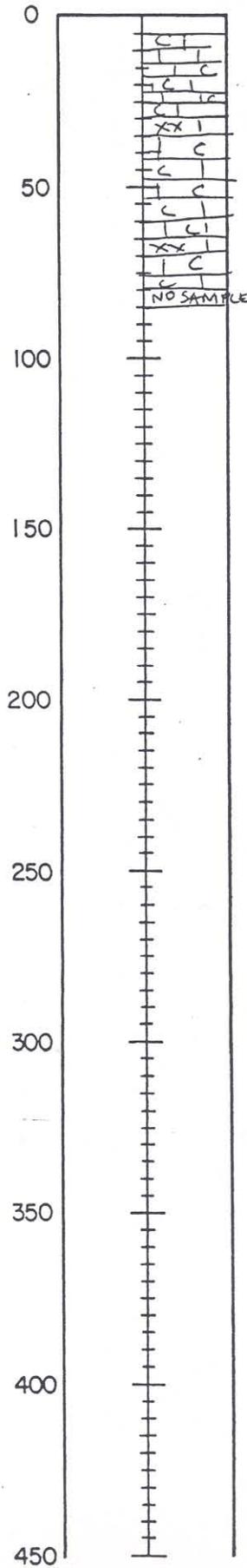
FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
5	15	10' @ .005					
30	35	5' @ .014	FIRE				

GEOLOGIC SUMMARY OF HOLE:

0-35' sporadically silicified brst - fractured w/ qtz ± CaCO<sub>3</sub>

35-85' med grey brst w/ fair bit of CaCO<sub>3</sub> veins -  
some veins are fairly coarse

<u>SAMPLE #</u>	<u>R. Acid Au(oz/ton)</u>	<u>Fire Au(oz/ton)</u>
SM-45-2	.006	
3	.004	
4	-.002	
5	-.002	
6	-.002	
7	.011	.014
8	-.002	
9	-.002	
10	-.002	
11	-.002	
12	-.002	
SM-45-13	-.002	
SM-45-14	-.002	
15	-.002	
SM-45-16	-.002	



Scale: 1" = 50'

FREEPORT EXPLORATION COMPANY

STANDARD MINE PROJECT, PERSHING COUNTY, NV

GENERAL:

DRILL HOLE NO. SM46 TOTAL DEPTH 140'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY RHB  
 REASON FOR TERMINATION NO RETURN

DRILL DATA: ROTARY CORE

DRILLER Rimrock

DATE STARTED 10-27-81 DATE COMPLETED 10-27-81

FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:	DEPTH	ANGLE	BEARING						

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_

Hole was drilled from collar down w/ water, ground broken  
no returns

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM46-2 → SM46-28  
 NUMBER OF SAMPLES 27  
 INTERVALS SAMPLED 5'

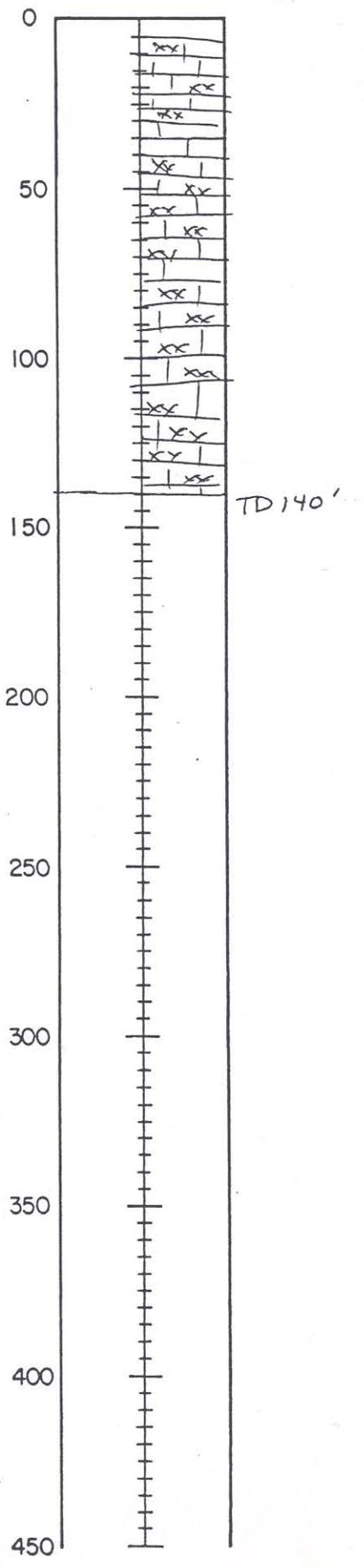
MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
5	75	70' @ .026					
110	115	5' @ .012					
130	135	5' @ .020					
5	10	5' @ .110					

GEOLOGIC SUMMARY OF HOLE:

2-140' R. P. Black jaspered/sulfidated limestone w/ strong - up to 50% white  
bed of ss, some frags w/ drusy edges. Minor med-dk gray limestone

SAMPLE #	R. Acid Au(oz/ton)	Fire Au(oz/ton)
SM-46-2	.106	.110
3	.033	.040
4	.011	.016
5	.003	
6	.050	.050
7	.023	.026
8	.006	
9	.015	.018
10	.030	.036
11	.016	.018
12	.008	
13	.007	
14	.011	.012
15	.015	.018
16	.005	
17	.002	
18	.005	
19	.002	
20	.003	
21	-.002	
SM-46-22	.005	
SM-46-23	.010	.012
24	.005	
25	.006	
26	.004	
27	.016	.020
SM-46-28**	.003	



Scale: 1" = 50'

FREEPORT EXPLORATION COMPANY

STANDARD MINE PROJECT, PA COUNTY, WV  
PERSHING

GENERAL:

DRILL HOLE NO. SM47 TOTAL DEPTH 280'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY RHB  
 REASON FOR TERMINATION NO RETURNS

DRILL DATA: ROTARY CORE

DRILLER Rimrock  
 DATE STARTED 10-27-81 DATE COMPLETED 10-28-81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING					

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM47-2 → SM47-56  
 NUMBER OF SAMPLES 55  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

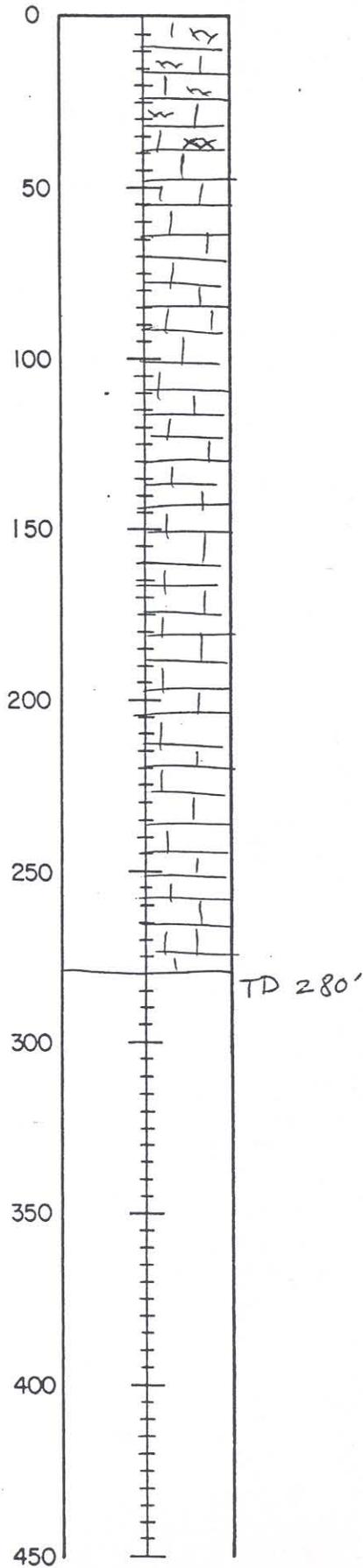
FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
<u>20</u>	<u>55</u>	<u>35 @ .013</u>					

GEOLOGIC SUMMARY OF HOLE:

R Prida - med-dk gray strongly calcareous carbonaceous (w/ med) ls.  
some bleaching & oxidation @ top of hole. Minor jasperoid &  
silic @ 5-40'  
0-40' minor jasperoid in Prida  
40-280 Flc similar, locally ox

SAMPLE #	R. Acid Au(oz/ton)	Fire Au(oz/ton)	SAMPLE #	Au(oz/ton)
SM-47-2	.004		SM-47-25	-.002
3	.009		26	-.002
4	.005		27	-.002
5	.013	.014	28	-.002
6	.005		29	-.002
7	.021	.022	30	-.002
8	.010	.010	31	-.002
9	.025	.026	32	-.002
10	.003		33	-.002
11	.012	.012	34	-.002
12	.002		35	-.002
13	.006		36	-.002
14	.002		37	.002
15	-.002		38	.003
16	-.002		39	-.002
17	-.002		40	-.002
18	-.002		41	-.002
19	-.002		42	-.002
20	-.002		43	-.002
21	-.002		44	.002
22	-.002		45	-.002
23	-.002		46	-.002
SM-47-24	-.002		47	-.002
			48	-.002
			49	-.002
			50	-.002
			51	-.002
			52	-.002
			53	-.002
			SM-47-54	-.002
			SM-47-55	-.002
			SM-47-56**	-.002

20-55  
35e.013



Scale: 1" = 50'

FREEPORT EXPLORATION COMPANY

STANDARD MINE PROJECT, PERSHING COUNTY, NV

GENERAL:

DRILL HOLE NO. SM48 TOTAL DEPTH 40'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY RHB  
 REASON FOR TERMINATION BAD GROUND, LOSS NO RETURN

DRILL DATA:

ROTARY CORE  
 DRILLER Rimmick  
 DATE STARTED 10-28-81 DATE COMPLETED 10-28-81  
 FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING					

DRILLING PROBLEMS (SUMMARIZE) NO RETURN!

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SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM48-3 → SM48-8  
 NUMBER OF SAMPLES \_\_\_\_\_  
 INTERVALS SAMPLED \_\_\_\_\_

MINERALIZED INTERVAL:

FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE
<u>20</u>	<u>25</u>	<u>5' @ 0.020</u>					

GEOLOGIC SUMMARY OF HOLE:

5' Bed Black yepioid w/ white g.s.  
Note - This hole ~~is~~ is actually a redrill of SM45, but was  
lost for the same reasons

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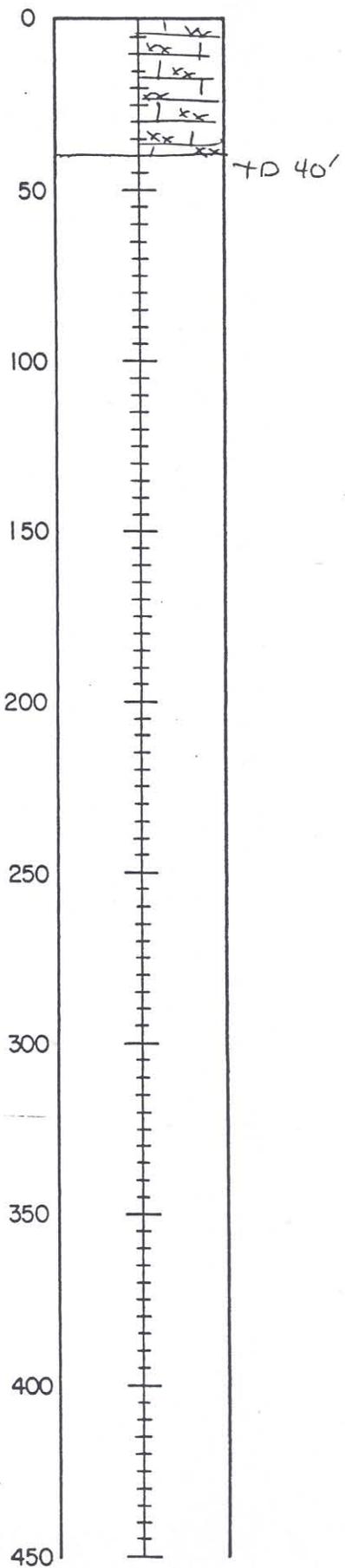


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SAMPLE #	R. Acid Au(oz/ton)	Fire Au(oz/ton)
SM-48-3	.005	
4	.003	
5	.019	.020
6	.003	
7	.004	
SM-48-8**	.003	



Scale: 1" = 50'



SAMPLE #	Au(oz/ton)
SM-49-2	-.002
3	-.002
4	-.002
5	-.002
6	-.002
7	-.002
8	.005
9	.004
10	.003
11	.004
12	.005
13	.002
14	.009
15	.004
16	.002
17	-.002
18	-.002
19	-.002
20	-.002
21	-.002
22	-.002
23	-.002
24	-.002
25	-.002
26	-.002
27	-.002
28	-.002
SM-49-29	-.002
SM-49-30	-.002
31	-.002
32	-.002
33	-.002
34	-.002
35	-.002
36	.003
37	-.002
38	-.002
39	-.002

SAMPLE #	Au(oz/ton)
40	-.002
41	-.002
42	-.002
43	-.002
44	-.002
45	-.002
46	-.002
47	-.002
48	-.002
49	-.002
50	-.002
51	-.002
52	-.002
53	-.002
54	-.002
55	-.002
56	-.002
57	-.002
58	-.002
SM-49-59	-.002
SM-49-60	-.002
61	-.002
62	-.002
63	-.002
64	-.002
65	-.002
66	-.002
67	-.002
68	-.002
69	-.002
70	-.002
71	-.002
72	-.002
73	-.002
74	-.002
75	-.002
76	-.002
77	-.002
78	-.002
79	-.002
SM-49-80**	-.002

FREEPORT EXPLORATION COMPANY  
STANDARD MINE PROJECT, PERSHING COUNTY, NEVADA

GENERAL:

DRILL HOLE NO. SM 50 TOTAL DEPTH 400'  
 COLLAR ELEV. \_\_\_\_\_ COORDINATES \_\_\_\_\_ N \_\_\_\_\_ E  
 BEARING \_\_\_\_\_ INCLINATION \_\_\_\_\_  
 LOGGED BY RHB  
 REASON FOR TERMINATION TD reached

DRILL DATA: ROTARY CORE  
 DRILLER Rimrock

DATE STARTED 10-29-81 DATE COMPLETED 10-30-81

FOOTAGE PER SHIFT \_\_\_\_\_

BOREHOLE SURVEY:

DEPTH	ANGLE	BEARING

DRILLING PROBLEMS (SUMMARIZE) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SAMPLE DATA:

SAMPLE NUMBER SEQUENCE SM50-2 → SM50-80  
 NUMBER OF SAMPLES 79  
 INTERVALS SAMPLED 5'

MINERALIZED INTERVAL:

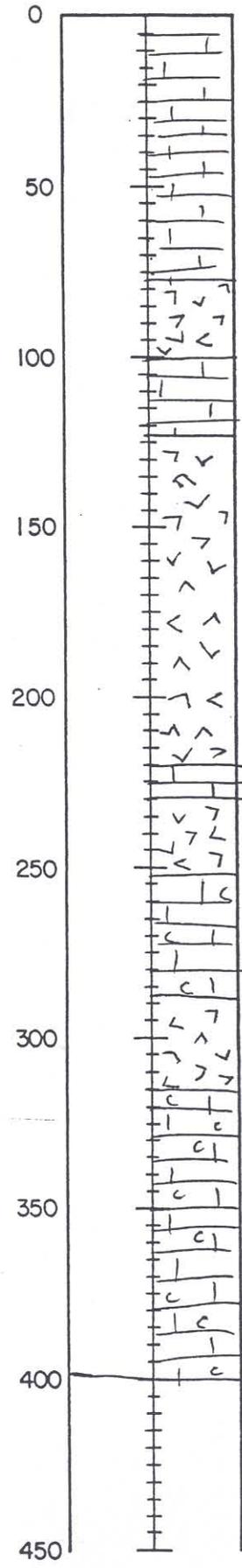
FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE	FROM	TO	FIRE ASSAY GRADE	COLD CYANIDE GRADE

GEOLOGIC SUMMARY OF HOLE:

Puda mixed black calcareous platy limestone and greenish gray  
metavolcanics, w/ str. Feox + Mn ox.  
0-78 EP mod carb Pr lmsst, locally partly ox  
78-100 EPV puda volcanics - orange brown ox  
100-250 EPV greenish to locally change Puda volcs w/ local gyziers  
250-285 EP lmsst again  
285-315 EPV greenish Puda volcanics  
315-400 EP partly ox grey lmsst - typical Puda

<u>SAMPLE #</u>	<u>Au(oz/ton)</u>
SM-50-2	-.002
3	-.002
4	-.002
5	.003
6	-.002
7	-.002
8	-.002
9	-.002
SM-50-10	-.002
SM-50-11	-.002
12	-.002
13	-.002
14	-.002
15	-.002
16	-.002
17	-.002
18	.003
19	-.002
20	.003
21	-.002
22	-.002
23	-.002
24	-.002
25	-.002
26	-.002
27	-.002
28	-.002
29	-.002
30	-.002
31	-.002
32	-.002
33	-.002
34	-.002
35	-.002
36	-.002
37	-.002
38	-.002
39	-.002
SM-50-40	-.002

<u>SAMPLE #</u>	<u>Au(oz/ton)</u>
SM-50-41	-.002
42	-.002
43	-.002
44	-.002
45	-.002
46	-.002
47	-.002
48	-.002
49	-.002
50	-.002
51	.002
52	-.002
53	-.002
54	-.002
55	-.002
56	-.002
57	-.002
58	-.002
59	-.002
60	-.002
61	-.002
62	-.002
63	-.002
64	-.002
65	-.002
66	-.002
67	-.002
68	-.002
69	-.002
SM-50-70	-.002
SM-50-71	-.002
72	-.002
73	-.002
74	-.002
75	-.002
76	-.002
77	-.002
78	-.002
79	-.002
SM-50-80	-.002



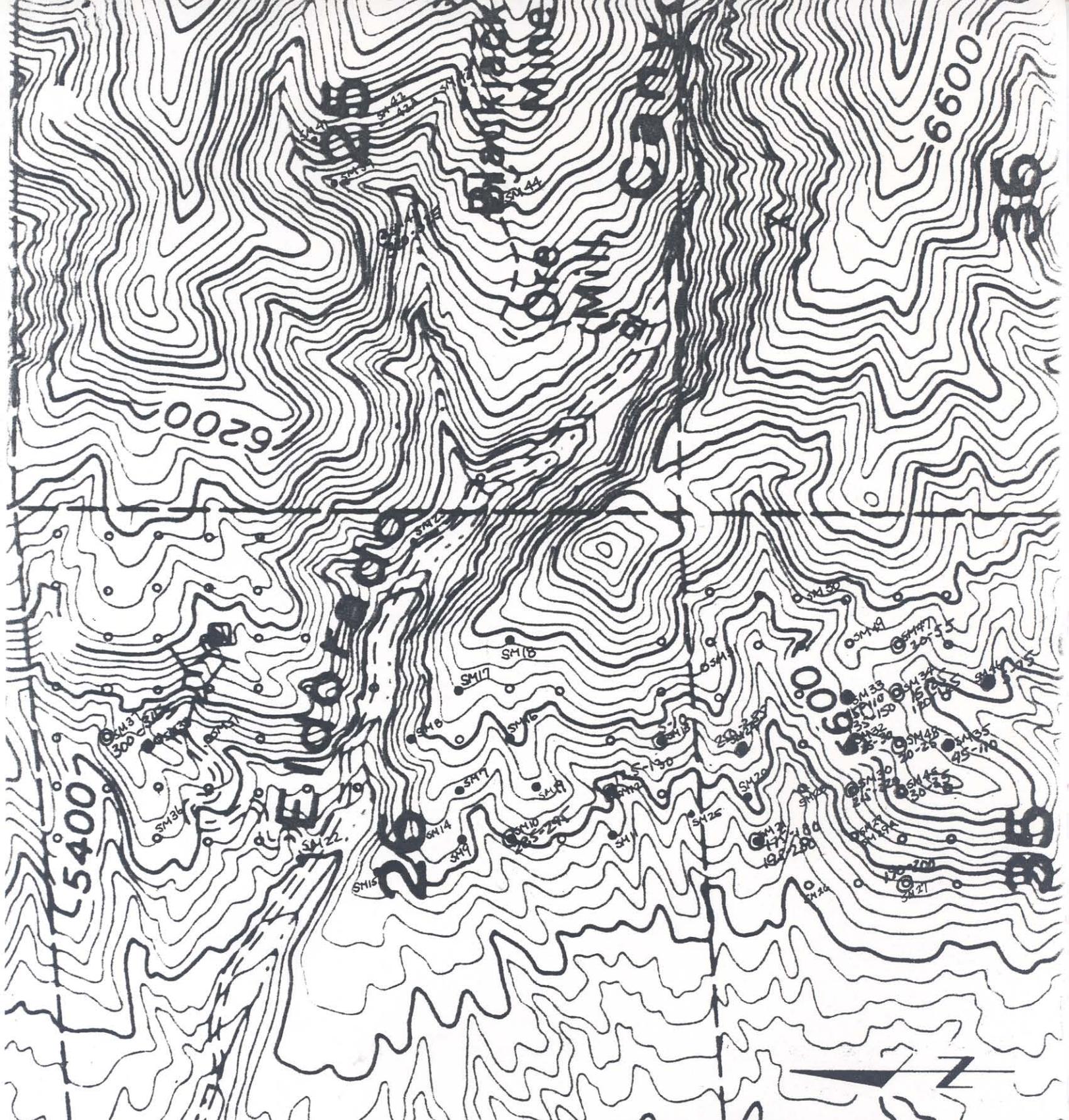
Scale: 1" = 50'



SAMPLE #	R. Acid Au(oz/ton)	Fire Au(oz/ton)
SM-51-3	-.002	
4	-.002	
5	-.002	
6	-.002	
7	-.002	
8	-.002	
9	-.002	
10	-.002	
11	-.002	
12	-.002	
13	-.002	
14	-.002	
15	-.002	
16	-.002	
17	-.002	
18	-.002	
19	-.002	
20	-.002	
21	-.002	
22	-.002	
23	-.002	
24	-.002	
25	-.002	
26	-.002	
27	-.002	
28	-.002	
29	.003	
30	.018	.020
31	.006	
SM-51-32	-.002	

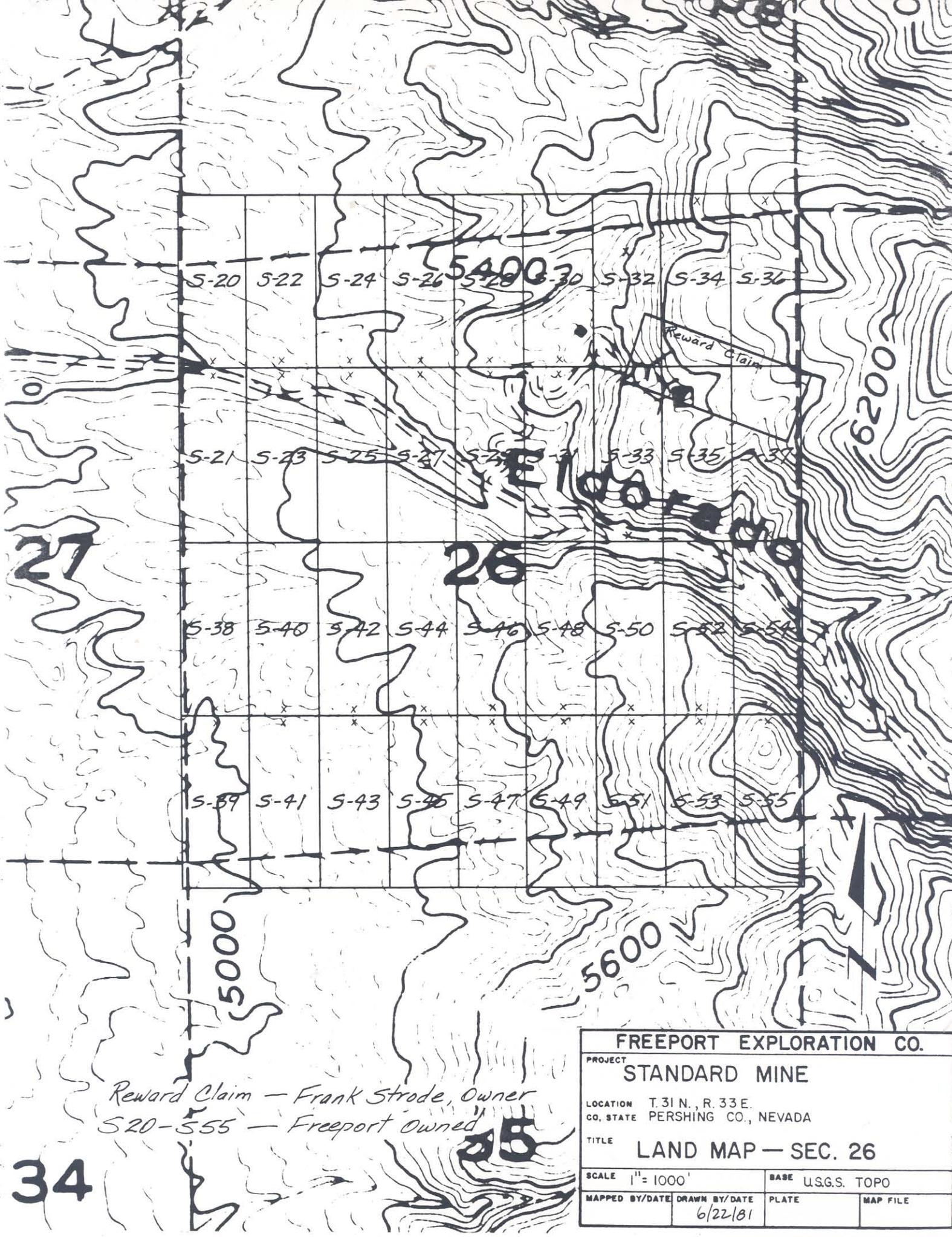
SAMPLE #	Au(oz/ton)
SM-51-33	.003
34	.008
35	.002
36	-.002
37	-.002
38	-.002
39	-.002
40	-.002
41	-.002
42	-.002
43	-.002
44	-.002
45	-.002
46	.004
47	-.002
48	-.002
49	-.002
50	-.002
51	-.002
52	-.002
53	-.002
54	-.002
55	-.002
56	-.002
57	-.002
58	-.002
59	-.002
60	-.002
61	-.002
SM-51-62	-.002
SM-51-63	-.002
64	-.002
65	-.002
66	-.002
67	-.002
68	-.002
69	-.002
70	-.002
71	-.002
72	-.002
73	-.002
74	-.002
75	-.002
76	-.002
77	-.002
78	-.002
79	-.002
SM-51-80**	-.002

145-150 5' @ .020



**FREEPORT EXPLORATION CO.**

PROJECT			
<b>STANDARD MINE PROJECT</b>			
LOCATION		T. 31 N., R. 33 E.	
CO., STATE		PERSHING CO., NEVADA	
TITLE			
<b>1981 DRILLING (at least 5')</b>			
SCALE		BASE	
1" = 1000'		U.S.G.S. TOPO	
MAPPED BY/DATE	DRAWN BY/DATE	PLATE	MAP FILE

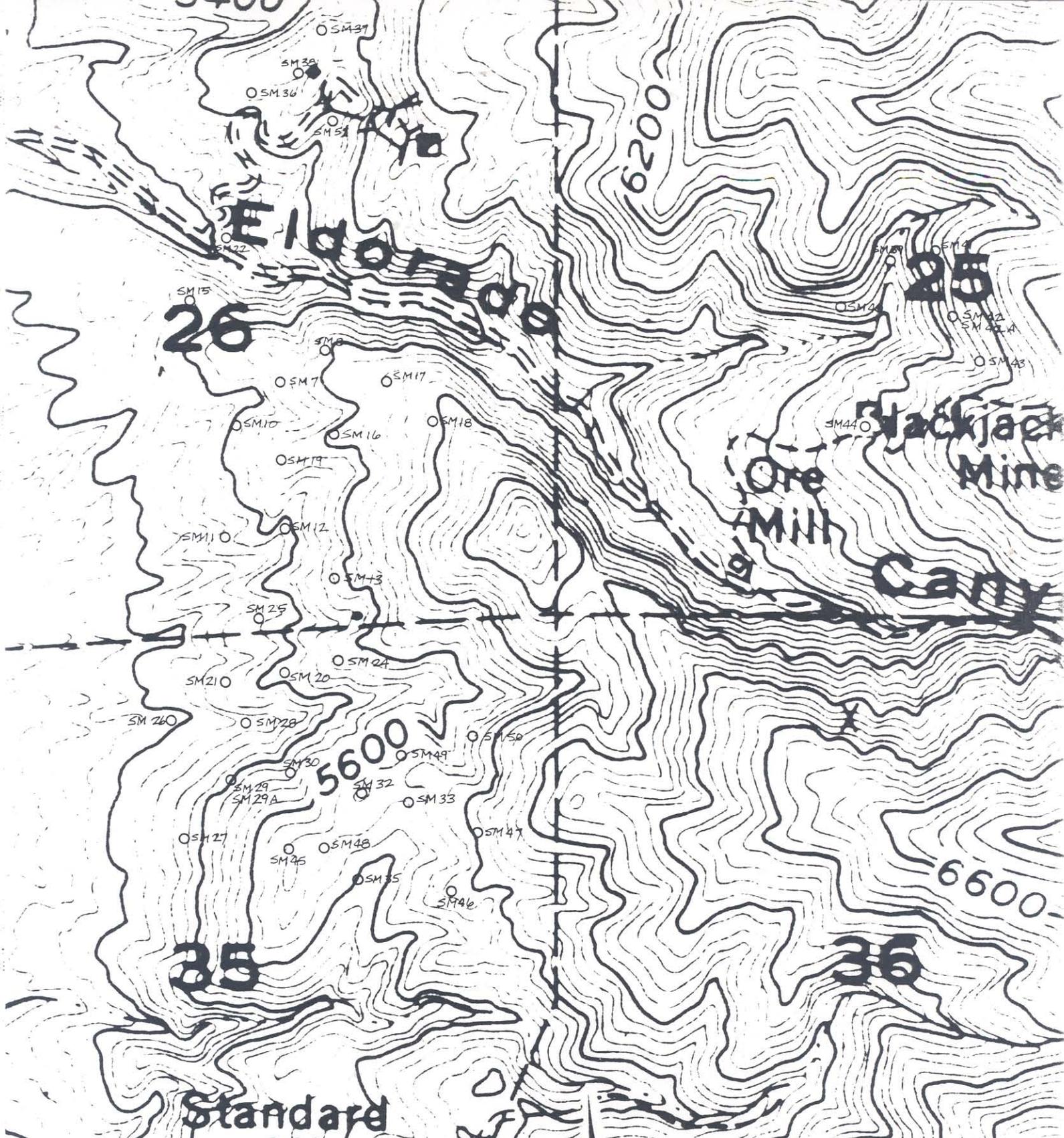


*Reward Claim — Frank Strode, Owner*  
*S20-555 — Freeport Owned*

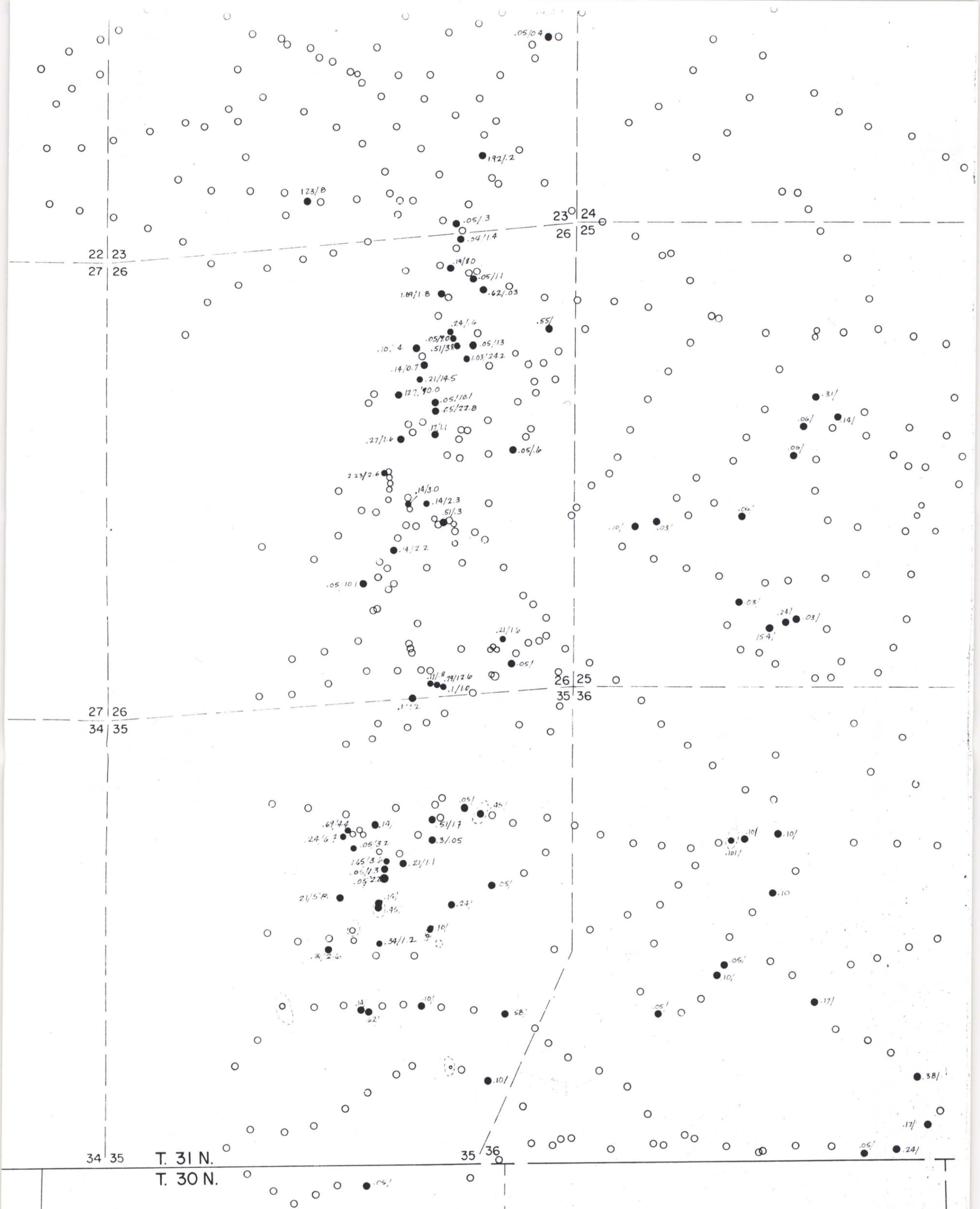
<b>FREEPORT EXPLORATION CO.</b>			
PROJECT <b>STANDARD MINE</b>			
LOCATION T. 31 N., R. 33 E. CO. STATE PERSHING CO., NEVADA			
TITLE <b>LAND MAP — SEC. 26</b>			
SCALE 1" = 1000'		BASE U.S.G.S. TOPO	
MAPPED BY/DATE	DRAWN BY/DATE	PLATE	MAP FILE
	6/22/81		

**34**

**25**

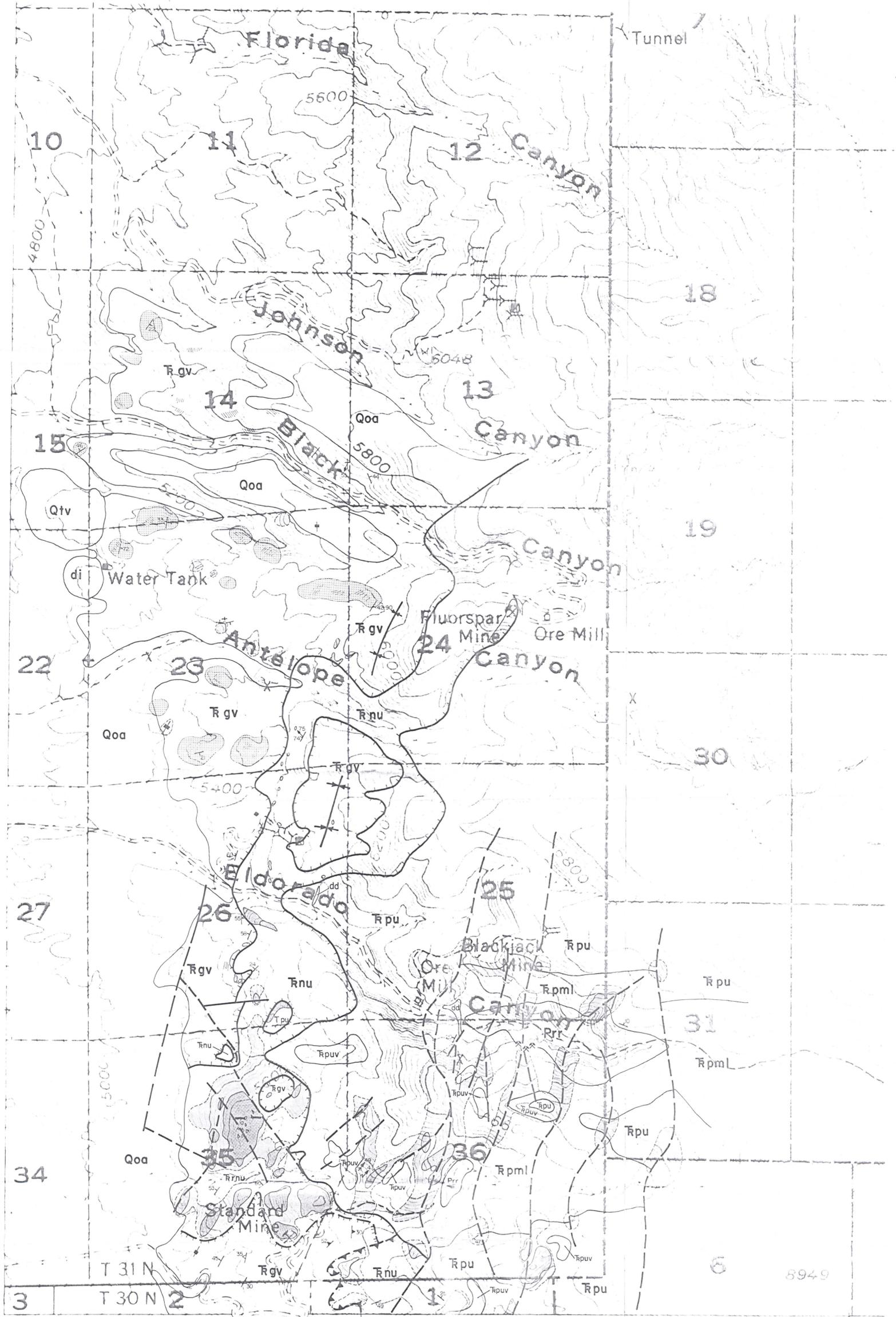


FREEPORT EXPLORATION CO.			
PROJECT			
STANDARD MINE PROJECT			
LOCATION T 31 N R 33 E			
CO. STATE PERSHING CO., NEVADA			
TITLE			
1981 DRILLING			
SCALE 1" = 1000"		BASE USGS TOPO	
MAPPED BY/DATE	DRAWN BY/DATE	PLATE	MAP FILE



<b>FREEPORT EXPLORATION CO.</b>			
PROJECT <b>STANDARD MINE</b>			
LOCATION T. 30, 31 N., R. 33, 34 E.			
CO. STATE FERSHING CO., NEVADA			
TITLE RIDGE & SPUR SAMPLE LOCATIONS WITH GOLD/SILVER VALUES IN PPM			
SCALE 1" = 1000'	BASE		
MAPPED BY/DATE	DRAWN BY/DATE	PLATE	MAP FILE

FIGURE 3 2410 0097



**EXPLANATION**

- Qoa Quaternary older alluvium
- Qtv Quaternary-Tertiary volcanic rock
- Rgv Grass Valley sandstone
- Rnu Natchez Pass Fm. upper member
- Rnl Natchez Pass Fm. lower member
- Rpu Prida Fm. upper member
- Rpuv Mafic Metavolcanics associated with the upper Prida
- Rpm Prida Fm. undifferentiated middle and lower members

- Prr Rochester Rhyolite
- di Diabase body
- dd Diabase dikes: sills
- Qv Quartz veins

**ALTERATION SYMBOLS**

- Jasperoid complete SiO<sub>2</sub> flooding
- Silicification

**FAULTS**

- Normal Fault
- Gravity Glide Fault—hashures on upper plate (movement in this area all to the west)
- Thrust Fault—hashures on upper plate
- Contact



FREEPORT EXPLORATION CO.			
PROJECT <b>HUMBOLDT RANGE</b>			
LOCATION T 31 N R 1 E CO. STATE HERSHING NEVADA			
TITLE <b>GEOLOGIC MAP</b>			
SCALE 1" = 1000'	DATE USGS TOPO		MAP FILE
MAPPED BY/DATE	DRAWN BY/DATE	PLATE Figure 2	MAP FILE