

Groom

San Francisco, Calif.

December 28th, 1923

Mr. C. G. Montgomery
617 Mission Street
San Francisco, California

Dear Sir:

GROOM MINE
LINCOLN COUNTY, NEVADA

Our Salt Lake Office advises that the Groom property has been presented there many times, and also has been examined by engineers from that office.

While the property has its attractive features, these are not sufficiently enticing to overcome the handicap of the distance from transportation.

We would not be interested in the property at this time, but thank you for having brought it to our attention.

Yours very truly,


CONSULTING MINING ENGINEER

ISR:MD

UNITED STATES SMELTING REFINING AND MINING COMPANY

OFFICE OF

DOWNIE D. MUIR, JR., GENERAL MANAGER

SALT LAKE CITY, UTAH

December 26, 1923

Mr. A. P. Anderson,
Consulting Mining Engineer,
1504 Hobart Building,
San Francisco, Calif.

Dear Sir:-

GROOM MINE, LINCOLN COUNTY, NEVADA.

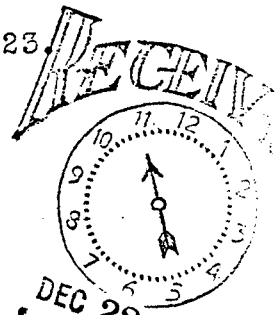
Replying to your letter of December 20th. The above property has been presented to this office many times and has been examined by engineers working out from this point. While the property has its attractive features, they are not sufficiently enticing to overcome its distance from transportation. For that reason I do not believe the property is of interest to us.

I return herewith Mr. Montgomery's report with many thanks.

Yours very truly,

DDM-J

Encl.



DEC 28 1923
U. S. S. R. & M. E. S. S. S.

R

San Francisco, Calif.

December 20th, 1923

Mr. D. D. Muir, Jr.
General Manager, U S S R & M E Co.
P O Box 1785
Salt Lake City

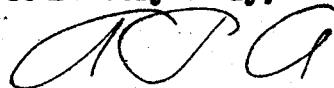
Dear Sir:

GROOM SILVER-LEAD MINE
LINCOLN COUNTY - NEVADA

Herewith a written description by Chas. Montgomery,
dated December 3d, 1923, of this property, also letter
from Mr. Montgomery dated December 6th.

Will you kindly advise us if you do not consider
this property of interest, or should you desire further
information, we can try to get it for you from Mr. Montgomery.

Yours very truly,



CONSULTING MINING ENGINEER

ISR:MD
Enclosures

THE "GROOM" SILVER-LEAD MINE.
(SOUTHERN NEVADA.)

The group of claims known as the "Groom" Mine, comprises four patented claims and five unpatented claims, and covers an area of approximately 100 acres. The patented claims are designated as Lot #37, Mineral Entry #14, and are named "White Lake," and "Conception Lode," and Lot #38, Mineral Entry #15, known as "White Lake #2," and "Conception #2." The unpatented claims are, "Maria," "Willow," "East Lake #1," "East Side #2," and the "June." The patented claims were taken up under the old law and are only 200 feet in width. The unpatented claims cover ground lying between the Patented claims and extend easterly and westerly.

LOCATION:

The property is situated in the Groom Mining District, about one and one-half miles west of the Ruby Valley Guide Meridian, and about ten miles north of the second parallel south, on the south end of Timpahute Mountain, at an elevation of approximately five thousand feet. This district is 100 miles north-west of Las Vegas, Nevada, and 83 miles south-westerly from Caliente, Nevada.

All records are at Pioche, the County Seat of Lincoln County, Nevada.

TOPOGRAPHY:

The claims, as stated above, lie upon the south flank of the Timpahute Range, in a series of low hills, with relatively easy slopes, and about 900 feet above the valley to the south, a distance of about four miles. On the mountain, to the north, there is a considerable growth of pines (pinon) and cedar trees, and a number of springs - one of which makes about eight inches of water. The mine now produces about thirty gallons of water per minute.

GEOLOGY:

The formation of greatest prominence, is the Cambrian, comprising quartzite, lime and lime-shale and altered beds. The ore occurs in a massive lime formation and also in the shale. The richer ore, however, being in the lime. This lime lays between two quartzite ridges, which are approximately 1,500 feet apart and are pushed up to a considerable elevation above the lime.

ORE OCCURRENCE:

The ore occurs in a fissure, having a course of about 18 degrees east of north; while the lime reef is approximately running north and south.

DEVELOPMENT:

The development work consists of two shafts of about 200 feet in depth. At the first level, the shafts passed into the shale and not being properly timbered, they caved, and 100 feet of each is below the present water level. The 100-foot level is approximately 1,200 feet in length.

Ore has been produced from a continuous cut for 700 feet. A number of cross-cuts were driven to the east and west, showing the sheared zones, which are impregnated with ore; but, as no work was done to show the entire width of these zones, it is only mentioned to show the future possibilities from a development and milling standpoint.

A cross-cut was driven 840 feet to get under the caved ground and to take care of the drainage water, but was not completed. Several air shafts have been completed to the surface.

The mine produced, under a lease, 2750 tons of ore, averaging 16.95 ounces silver and 50% lead; 1/2% copper, insolubles 11.5; and the owners produced 1774 tons of ore, averaging 16.9 ounces silver and 61.3% lead, insolubles 7.5.

All the ores, by a milling method, should have made (or produced) 75% lead and about 20 ounces silver per ton, for the highest grade. A carload of ore, shipped by the owners, returned 78.5% lead.

This mine, during a period of its production, was the second largest lead producer in the State of Nevada. (Refer to the United States Geological Survey Report.)

POSSIBILITIES AND FUTURE:

On the dumps, already mined, are from twelve to sixteen thousand tons of ore, which will assay approximately 30% lead. In fact, all the dumps are mill ore. Then again, the lessees, as well as the owners, did not aim to produce this class of ore only when it was necessary to extract it in order to produce the higher grade. In all the development, the east and west extremities of the ore zone have not been determined and any attempt to estimate the tonnage would be largely guess work, as no system was followed to show the entire possibilities or to measure up with any degree of accuracy.

At one point on the surface, on the "Maria" claim and running north-westerly, ore shows for a distance of at least 250 feet, crossing obliquely the main lime reef; some of this shipping grade ore.

EQUIPMENT:

The mine is equipped with a 15 h. p. vertical hoist, buckets, cars and tools. 1 Rix-Gardener Air Compressor, 1 Waugh Stoper, 1 Jack Hammer, blacksmith shop and all necessary tools, bunk house, boarding house, store house, and a number of tents covered with sheet iron. The mine also owns 1 25 h. p. hoist, and 1 7 X 10 Rock Breaker. (The last mentioned hoist and breaker have not yet been installed.)

Water, for domestic purposes is produced from a spring, about 600 feet from the boarding house, to which it is piped.

(Signed) PATRICK SHEEHAN.

-o-

P. S.- According to smelter returns, a total of 40 cars of ore, gave an average of 16 ounces silver and 59.71% lead; and the total net returns (after deducting freight and all smelter charges) gave net returns of \$118,877.32 - an approximate average of \$67.00 per ton (net).

Will state that there has been no examination made of this property by Engineers and neither has it been offered for sale heretofore.

Chas. G. Montgomery

San Francisco, Calif.,
October 25th, 1923.

The "Groom" Mine produced, under lease, during the years 1919, 1920 and 1921, 2750 tons of ore, which averaged 16.95 ounces Silver and 50% Lead. The owners produced over 1774 tons of ore, which averaged the same in Silver and 61.3% Lead.

The following is a list of the carloads of ore shipped to the U. S. Smelting, Refining & Mining Co's smelter, at Salt Lake City.

Date	Net dry weight	Gross Returns	Frt & Smelting chgs	Net Returns
Aug. 1/17	33.943 tons	\$3388.53	\$306.53	\$3082.00
Oct. 9/17	39.891 "	2957.12	319.19	2637.93
" 11/17	47.171 "	3935.00	404.96	3530.04
" 20/17	31.007 "	2351.88	247.73	2104.15
" 26/17	33.492 "	2231.57	250.27	1981.30
Nov 13/17	31.007 "	2354.36	247.73	2106.63
Dec. 1/17	33.511 "	2252.61	261.40	1991.21
" 15/17	62.779 "	4350.58	486.58	3864.00
Jan. 3/18	42.819 "	2601.25	307.52	2293.73
" 10/18	34.303 "	2345.30	263.50	2081.80
" 18/18	55.105 "	3858.45	424.48	3433.95
" 22/18	42.721 "	2849.92	329.22	2520.70
Feb. 5/18	50.7705 "	3573.23	391.28	3186.22
" 19/18	51.127 "	3677.57	418.11	3259.46
" 28/18	40.705 "	3042.98	333.34	2709.64
Mar. 7/18	48.303 "	3698.56	394.50	3304.06
" 19/18	47.7355 "	3804.52	395.07	3411.45
Apr 10/18	49.0118 "	3860.17	402.47	3457.70
" 10/18	43.461 "	3060.95	332.50	2728.46
" 16/18	47.629 "	3806.99	393.39	3413.60
" 25/18	49.8985 "	3201.49	381.96	2819.53
May 10/18	42.14 "	2734.04	323.02	2411.02
" 14/18	79.8835 "	5237.96	606.95	4631.01
" 16/18	44.0835 "	3408.98	362.28	3046.70
" 21/18	42.7385 "	3076.32	349.29	2727.03
June 7/18	42.061 "	3475.08	366.25	3108.83
" 11/18	47.342 "	3874.94	411.00	3463.94
" 11/18	42.6055 "	3383.30	349.61	3033.69
July 2/18	58.3605 "	5405.35	535.85	4869.50
" 17/18	39.937 "	3762.07	370.28	3391.78
Aug 14/18	41.412 "	4171.02	486.80	3684.22
" 22/18	49.104 "	4914.33	561.41	4365.47
Oct 15/18	41.659 "	4048.84	477.06	3571.78
Nov 21/18	46.364 "	4408.75	533.03	3875.72
Sept 8/22	35.788 "	2019.87	297.92	1721.95
Jan 27/23	41.577 "	2255.55	349.90	1905.65
Dec. 5/22	36.48 "	1707.99	280.68	1427.31
Mar 31/23	42.408 "	3366.77	411.99	2954.78
May 9/23	45.704 "	3372.04	453.07	2918.97
Jun 16/23	39.59 "	2191.31	333.92	1857.39
Oct 30/23	51.773 "	3129.68	366.33	2763.35

P. S.- A road could be constructed to a point about 15 miles north of Beatty, Nevada - on the Tonopah & Tidewater R. R., with grades that would suit truck hauling - a distance of about 70 miles. Railroad freight from this point would be \$1.12 per ton more than the present freight rate from Las Vegas. The road to Caliente is not a truck route, on account of heavy grades. Would say that the road to the Tonopah & Tidewater R. R., would cost about \$20,000. A road, south-westerly, to a sideing known as Hoya, on the Salt Lake route, could be constructed in the same distance as the above proposed road to the Tonopah & Tidewater R. R., but might cost a little more; distance about the same, but better road material.

RECOMMENDATIONS, SUMMARY, ETC.

After summing up the history and record of this property, and noting the manner along which the property has been worked, and the grade and tonnage of ore mined and shipped up to the present time, and going over the general geology of the district, and after consulting with Mr. Gossard (who, with Mr. P. Sheehan) knows more of the property and its latent possibilities than even some of the owners, the writer has come to the conclusion that this property has only been surface "scratched," and the relatively small tonnage already mined represents but a small part of the ore still contained within the confines of the claims in question.

The formation gives considerable evidence of going to much greater depths. The width and extent of the ore zone is considerable and its extreme boundaries have not yet been defined or even explored in a miner-like fashion. The work already done has shown the ore zone to be large one. The Cambrian formation is the usual one carrying the lead-silver values in the clay or lime-slate and is found elsewhere throughout the earth's crust and many of the largest silver-lead mines in the world are in just such a favorable formation. The silver-lead mines at Eureka, Nevada, contain these metals mostly in "pockets," disseminated throughout the limestone. The "Groom" mine is not "pockety" - the values are quite well disseminated and occur in well defined lodes and veins.

It is the opinion of those most familiar with this property, that a well defined program of development work - both sinking and drifting - will undoubtedly develop a very large and rich silver-lead property within the confines of the "Groom" claims, - one which will pay large returns for a great many years yet to come. The past performance of this mine certainly merits development of the large ore bodies justly believed to exist at lower levels and laterally.

It speaks well of the property that it has more than carried itself for the past half-dozen years, simply by mining and shipping only the high-grade ore. In the first place, the owners were not men of means and could not afford to first develop the property and block out the ore bodies, and after so doing, neither could they pay to install a concentrating plant on the property, which would have enabled them to mill and concentrate the large tonnage of lower grade ore - most of which, is now on the dumps. (See Sheehan's report for tonnage on the dumps.)

In summing up, it appears that this property merits proper development - both as to depth and laterally. Secondly, it should have a concentrating plant installed. Thirdly, a suitable blast furnace should be installed so as to reduce both the high-grade and the concentrates to a metallic form or matte, in which form it can be economically handled and shipped by auto trucks to the railroad and thence to the smelter. If these plans were carried out (in a general way) there would be no necessity for constructing any additional auto roads, as the old road to Las Vegas could still be used, as it is in good condition for auto trucking, and only the matte or pigs would require to be shipped via the railroad to the refinery or smelter. This plan appears to be practical and sound from a commercial standpoint.

The property is in a very healthful neighborhood and work can be carried on all the year round. Plenty of good mining timber adjacent, and sufficient water for all mining and domestic purposes is on the claims. All in all, this property can be commended with a large amount of confidence to the attention of those engaged in this line of metal mining.

Respectfully submitted,

San Francisco, Calif.,
Dec. 3, 1923.

Chas. G. Montgomery

John

MEMORANDUM
August 28, 1963

TO: JOHN M. CONROW
FROM: R. G. Wiese, Jr.
RE: Groom mine, Lincoln County, Nevada

On August 20, 1963, Dan Sheahan was contacted regarding the present status of the Groom mine. The only work undertaken on the property since the mill was destroyed in 1954 has been assessment work. Sheahan has access to the property upon written application to the proper government authority. The area near Groom Lake is apparently the site of a secret government project.

Sheahan has dropped his suit against the government for damages to the mill and effective condemnation of the property. He and his associates have received no compensation for the loss of the \$80,000 mill.

Sheahan estimates the open pit area of the Groom property to contain 30,000 tons of ore averaging 4 - 5 percent lead and approximately 0.5 ounce of silver. The ore reserve would be substantially increased with the inclusion of material containing less than 3 percent lead. The ore is partly oxidized.

Sheahan has no immediate plans for resuming mining operations or for rebuilding the mill.

RGW
R. G. Wiese, Jr.

gmc

SL 1650

MEMORANDUM
August 28, 1963

TO: JOHN M. CONROW
FROM: R. G. Wiese, Jr. *7*
RE: Groom mine, Lincoln County, Nevada

File

Telephone RE 3-1190

On August 20, 1963, Dan Sheahan was contacted regarding the present status of the Groom mine. The only work undertaken on the property since the mill was destroyed in 1954 has been assessment work. Sheahan has access to the property upon written application to the proper government authority. The area near Groom Lake is apparently the site of a secret government project.

Sheahan has dropped his suit against the government for damages to the mill and effective condemnation of the property. He and his associates have received no compensation for the loss of the \$80,000 mill.

Sheahan estimates the open pit area of the Groom property to contain 30,000 tons of ore averaging 4 - 5 percent lead and approximately 0.5 ounce of silver. The ore reserve would be substantially increased with the inclusion of material containing less than 3 percent lead. The ore is partly oxidized.

Sheahan has no immediate plans for resuming mining operations or for rebuilding the mill.

R. G. Wiese, Jr.
R. G. Wiese, Jr.

*Groom Mine
Lincoln Co., Nev.*

GROOM MINE, Lincoln Co., Nevada:

2/21/46

*PC
A9*

I stopped here just long enough to meet Mr. Dan Sheahan, superintendent. He stated that arrangements had been made at Caliente to stockpile ore near the railroad until the smelter strike was settled. They have about 2000 tons broken in the mine and plan stock piling that tonnage. He stated that the reserve above broken ore was about 5,000 tons, which would exhaust the type of ore at present being shipped. He was interested, however, in a possible large tonnage of about 4% lead ore which if amenable to cheap gravity concentration might make an economic operation and produce a large tonnage of medium grade, lime gangue concentrates. He invited me back to study this situation, which I plan doing in February.

Groom Mine, Lincoln Co., Nevada:

5/4/46

Owned by the International Mining Company of New York and operated by Dan Sheahan, superintendent, is located about 85 miles west of Caliente, Nevada. The principal orebodies occur near the contact of the Lyndon limestone and the Pioche shale, as replacements in the bedding where intersected by weak fissures. The limestone and shale contact lies on the hangingwall side and dip (30° - 50°) toward a west dipping normal fault of very large throw (2000-3000') suggested by generalized cross-sections.

The present exposed mineralized horizon pitches into the fault at about the 200 level and no exploration work has been done below that level. At present oxidized lead-silver ore is being mined and shipped to the Tooele smelter, although before the strike it came to Midvale and can be expected again when Midvale re-opens.

I did one day's mapping on the property to assist Mr. Sheahan on a particular problem and plan to spend another day or so in the near future.

The Pioche shale section as exposed at Groom is very similar to Pioche and considering the fact that mineralization at Groom has been exposed only at the top of the Pioche shale, some possibilities exist for mineralization in limestone horizons deeper in the section.

GROOM MINE, LINCOLN COUNTY, NEVADA

7/20/49

Mr. Dan Sheehan and his two sons are continuing operation of their open pit located in the footwall of the main Groom fissure. They are mining some 40 tons a day out of which they recover about 3.2% lead into a 60% concentrate on an estimated 75% recovery. Mr. Sheehan and myself, about three years ago in studying the property together, postulated the possible position of this ore, and his subsequent work revealed its position and proved it to be economic. There could well be 15,000-20,000 tons of such ore in sight at present with possibilities of a very substantial additional tonnage.

N

S.E.

1.9700
2.800
3.700

3.8

20' SOUTH OF SECTION

C.D.H. 12' NORTH OF SECTION

8' SOUTH OF SECTION

LIGHT GRAY SHALE

Thin Bedded
Gray Shale
W. M. M. M. M. M.

Gray Shale

Limestone 2' Much Calcite
Sp. & Sp. 100

50' LEVEL

75' LEVEL

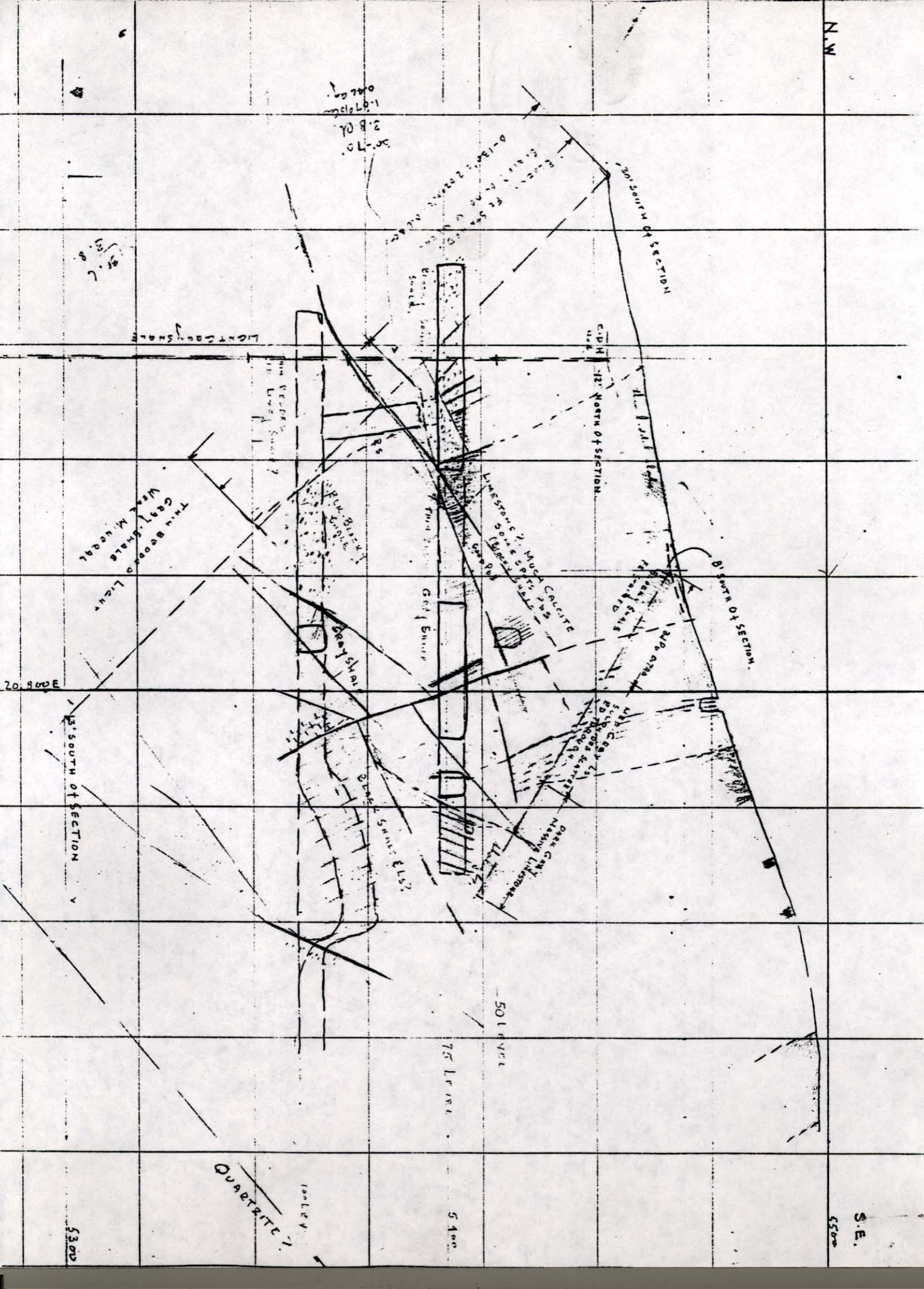
5' LEVEL

QUARTZITE

5300

20' 900E

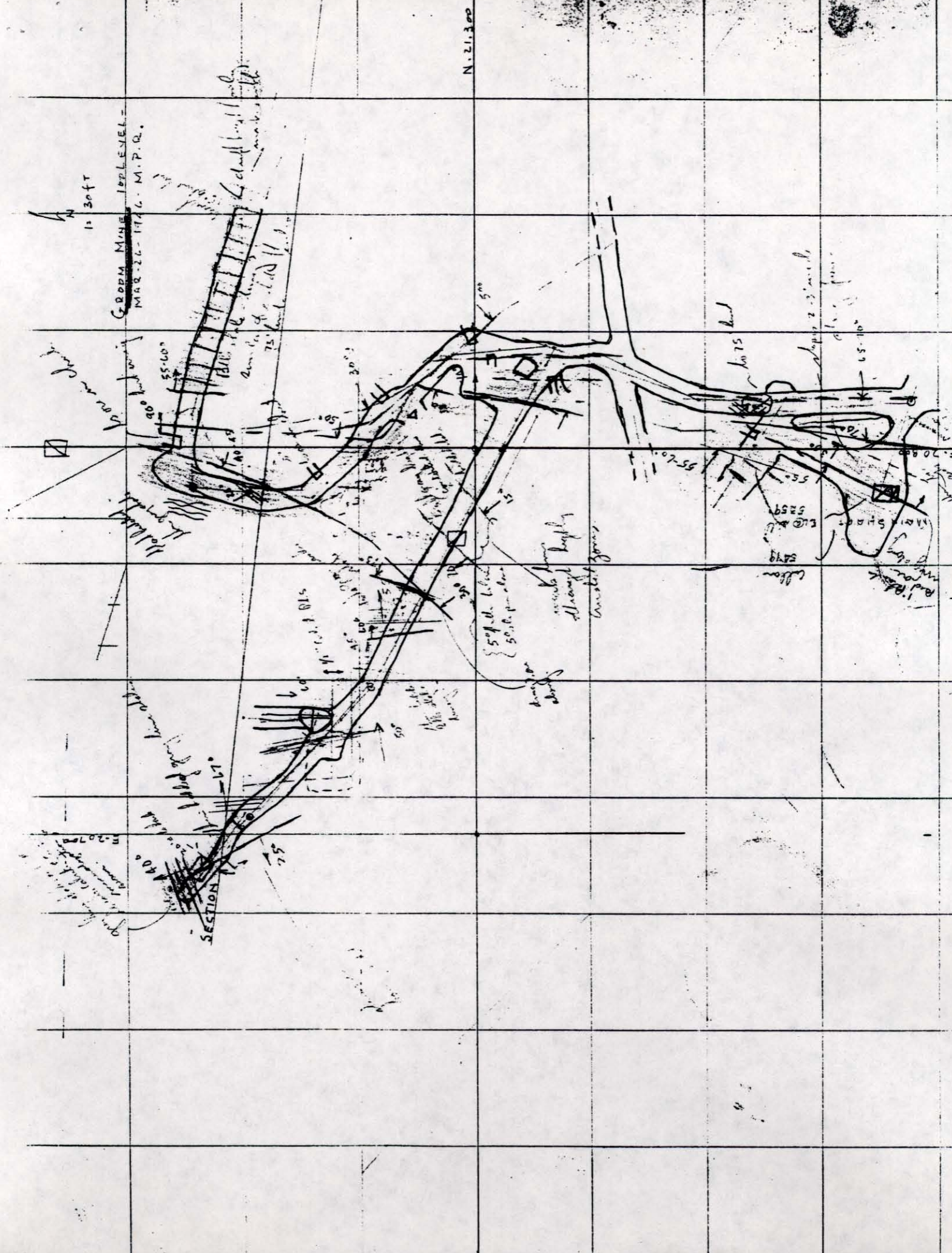
13' SOUTH OF SECTION



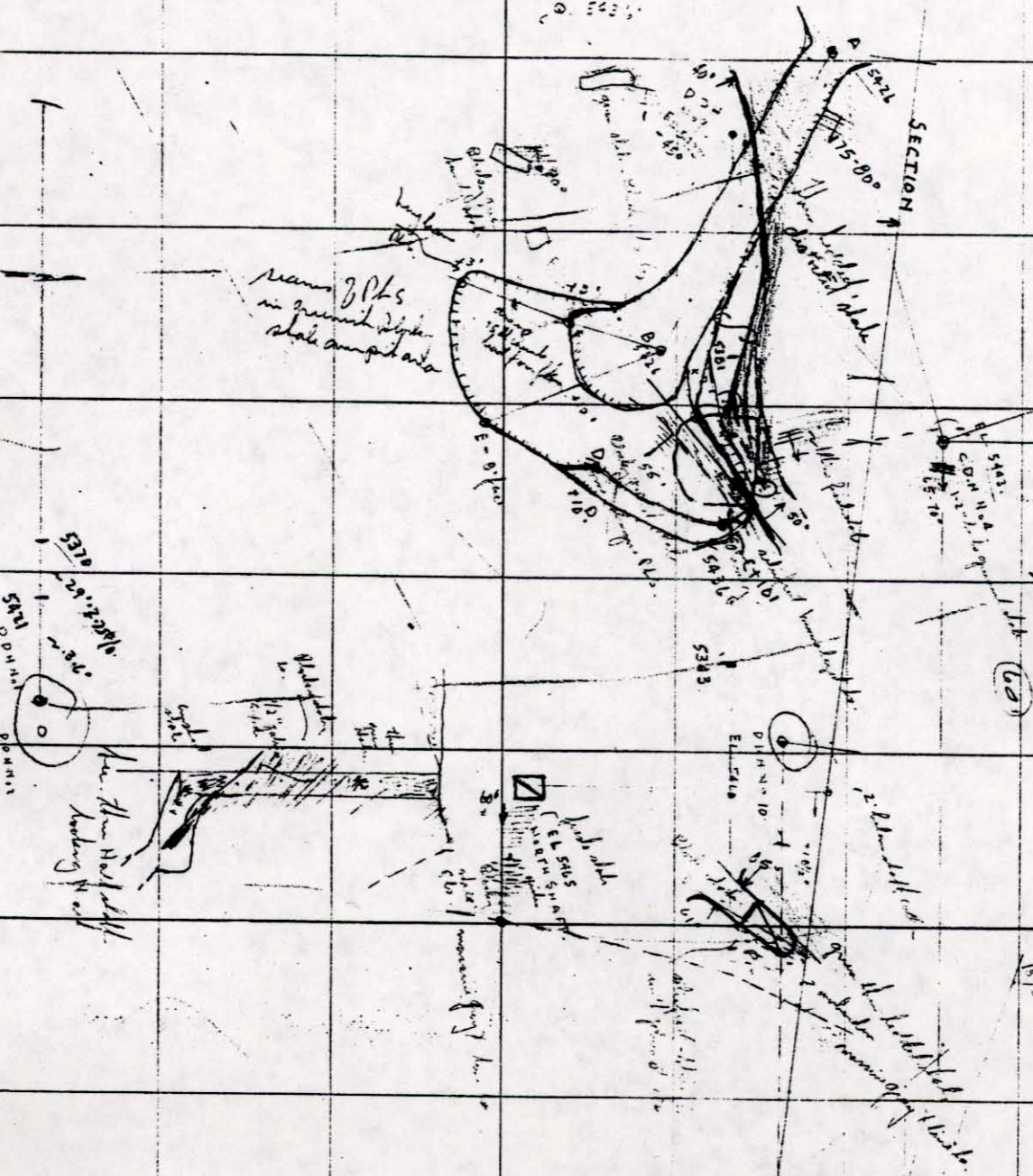
N. 21.300

GORM MINE 100 LEVEL -
MAR-26-1926 - M.P.R.

12 30 ft



Ad. 1st


$$\frac{5413}{5373} = 3.9\% \text{ diff.} = 60' \text{ limit.}$$
$$1 = 3.0417$$

67	574W	298°	5°	-24°
0	CT-15	1946		
C	D.N.4	5.74W	-72°	-12 1/2°
A	-8	51.0E	-60°	-0°
E	-C	N.70E	33°	17°
B	-D	51.0E	25°	12°
B	-E	52.2E	34°	17°
B	-F	54.4W	30°	7°
8	-G	54.4W	30°	0°
				17°
				10°
				33°
				10°
				25°
				10°

Dark Colored Shale
Mineralization

180°

194°

Dark Colored Fault Material
with ls & shale

215°

Quartzite

E-20

Light Colored Fault Material
Shale & Quartzite

270°

Hard Pink Quartzite

SECTION 10 N. ALONG LINE N83°W
LOOKING - N-7E. SCALE 1" = 30 FT.

5100'

5200'

3441

Log. $\frac{1}{10} \frac{dI}{dt} = 7.0 - 3.67$

5275

P.D. H. No. 2

On each side of the road

Lucas.
Sals.

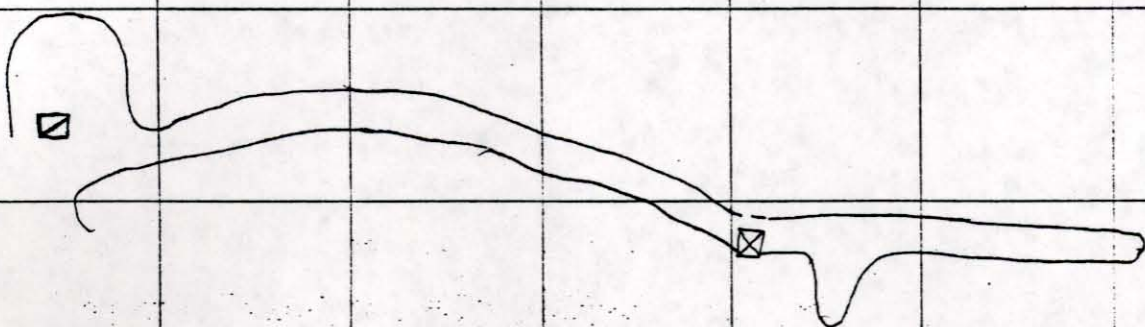
5374

ROOM Mine - LINCOLN COUNTY - NE
MAR-26-1946
SHEET- 1-NORTH - 50 LEVEL.

LEVEL

$$1'' + 30 + 5$$

	Floor 2
BA	544.7
B	546.5
C	547.7
D	548.2
E	548.4
F	549.1
G	549.4
H	549.7
I	549.2



1" = 30 FT.
GREEN MINE
MAR. 26 - 1946 - M.R.R.
BS LEVEL

GREEN MINE - 50 LEVEL
SHEET - 1.

O C.D.H.N. 6 - 275' DEEP.
COLLAR 5440.

D.D.H. 463 - 20°E - 93.

COLL 2
5447

925442.

DD.H No 4

N. 05E - 33° - 106'

$$\begin{array}{r} 22 \\ 160 \\ \hline 452 \\ 160 \\ \hline 292 \end{array}$$

71

5343.

5301

202

55

✓

2550
 2551 = 41.8.3.12
 2430.
 C.D.H. 40.

2430

0-45' - thin bedded limestone - some with chert nodules - average 2.5 ft. - 0.5 ft.
46-76' - thin shale - narrow beds - with bands of high grade argillite - average 2.75 ft. - 0.4 ft.
76-148' - grey bluish shale with some marl in seams - average 0.25 ft. - 0.1 ft.
148-250' - thin light grey shale - slight mineralization.
250-272' - same as last but average with crushed ls and sh.
272-302' - light colored sandstone containing mostly shale
302-307' - crushed argillite.

D.D. 4 No 2. N.21,219 - E 20,763 - 1 EL 5464 - Dry - 300' - due east

0-44' One in massive ls. Partly oxidized average 13.6% Zn, 2.23% Cu.

44-63. *Dario grayi* *massena* is.

63-64- sulphide ore 53.5% Pb - 6.94% Zn

64-73. Gran maxima ls - with low magnesian bands with ore.

73-92. Light colored massive ls.

904409

10.0 V. 10

6 mill. thick glass

Groom time - Longage
 will heads and counts ..

6 hrs feed. x 6.5 tons = 33 -

4400 lbs fig
 3300 " tally - 6000 Pl - center Part
 7.7 - 3.85 tons.

6.5 - hrs
 3400 - total

6.5 hrs
 4200 -

7 hrs
 5000 -

6 hrs
 3700 -

7 hrs - 6.5 - south 45.5 -

3100 tall
 2000 fig
 5.900
 2.95 } 6000

6 hrs feed - south end of Part 33

1800 fig
 2100 tall
 3900
 1.95

6 -	7700
7 -	5900
6 -	3900
7 -	4400
6.5 -	40000
5.5	2600
7 -	4200
6.5 -	3400
6.5	4200
7 -	5000
6	3700

24.5 -
 60
 14.700
 461.5 / 4700 (3.2 Rec.)
 13845
 8550
 3.2 Rec @ 7500
 100
 4.3000 heads

7 hrs - - 45.5 -

2200
 2200 fig
 2200 tall
 2.1 tons

6 1/2 -
 2200 tall
 1900 fig -

5 1/2 - hrs.
 2600 total

7 hrs 45.5
 4200 total
 2.1

71.0 49,000
 6.5 24.5 -
 35.5
 426
 461.5

24.5 / 461.5 / 13.8.4 / 1
 245
 2165
 1960
 2050
 1960
 900

Green Surface
JUNE 29, 1946

1:30

8-9 510W 65' 10" 62' -20'

9-10 55E 40' 45"

10-11 552W 100' -7'

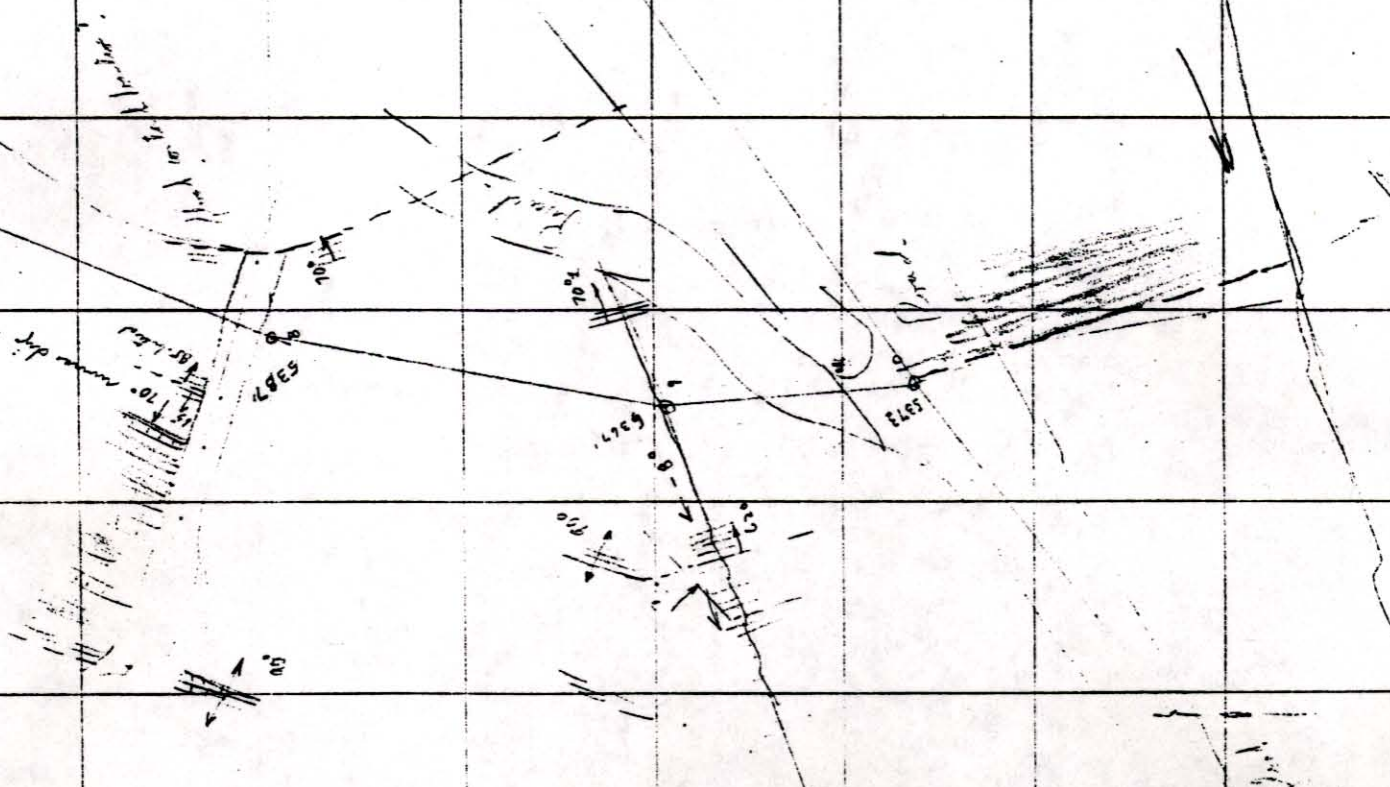
10-12 4154E 103' +7'

Chandler Hole 401

N-21,194

E-20,412

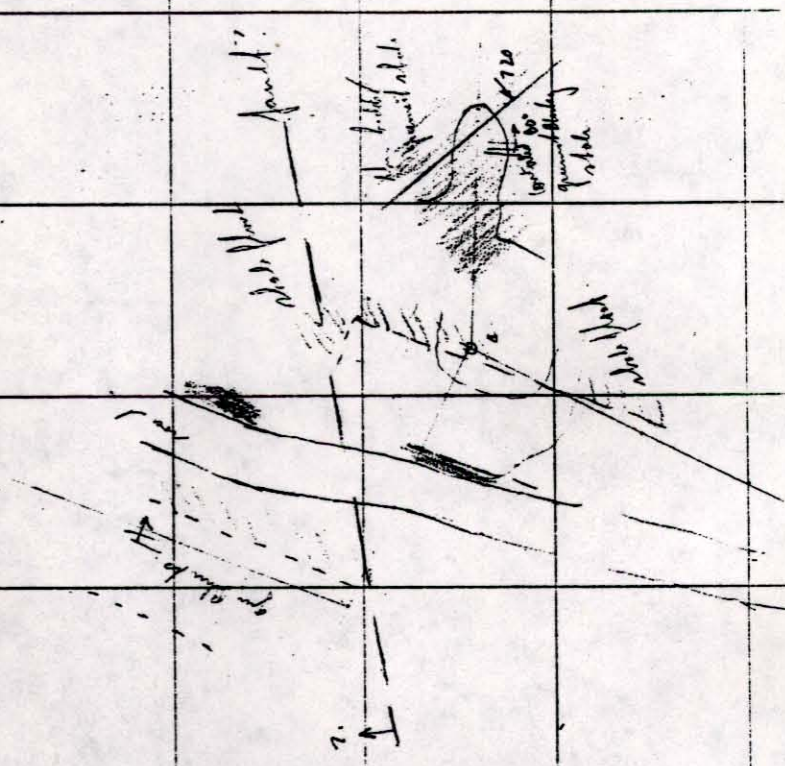
EL 5891



5891
5873
5867
5859
5851
5843
5835
5827
5819
5811
5803
5795
5787
5779
5771
5763
5755
5747
5739
5731
5723
5715
5707
5699
5691
5683
5675
5667
5659
5651
5643
5635
5627
5619
5611
5603
5595
5587
5579
5571
5563
5555
5547
5539
5531
5523
5515
5507
5499
5491
5483
5475
5467
5459
5451
5443
5435
5427
5419
5411
5403
5395
5387
5379
5371
5363
5355
5347
5339
5331
5323
5315
5307
5299
5291
5283
5275
5267
5259
5251
5243
5235
5227
5219
5211
5203
5195
5187
5179
5171
5163
5155
5147
5139
5131
5123
5115
5107
5099
5091
5083
5075
5067
5059
5051
5043
5035
5027
5019
5011
5003
4995
4987
4979
4971
4963
4955
4947
4939
4931
4923
4915
4907
4899
4891
4883
4875
4867
4859
4851
4843
4835
4827
4819
4811
4803
4795
4787
4779
4771
4763
4755
4747
4739
4731
4723
4715
4707
4699
4691
4683
4675
4667
4659
4651
4643
4635
4627
4619
4611
4603
4595
4587
4579
4571
4563
4555
4547
4539
4531
4523
4515
4507
4499
4491
4483
4475
4467
4459
4451
4443
4435
4427
4419
4411
4403
4395
4387
4379
4371
4363
4355
4347
4339
4331
4323
4315
4307
4299
4291
4283
4275
4267
4259
4251
4243
4235
4227
4219
4211
4203
4195
4187
4179
4171
4163
4155
4147
4139
4131
4123
4115
4107
4099
4091
4083
4075
4067
4059
4051
4043
4035
4027
4019
4011
4003
3995
3987
3979
3971
3963
3955
3947
3939
3931
3923
3915
3907
3899
3891
3883
3875
3867
3859
3851
3843
3835
3827
3819
3811
3803
3795
3787
3779
3771
3763
3755
3747
3739
3731
3723
3715
3707
3699
3691
3683
3675
3667
3659
3651
3643
3635
3627
3619
3611
3603
3595
3587
3579
3571
3563
3555
3547
3539
3531
3523
3515
3507
3499
3491
3483
3475
3467
3459
3451
3443
3435
3427
3419
3411
3403
3395
3387
3379
3371
3363
3355
3347
3339
3331
3323
3315
3307
3299
3291
3283
3275
3267
3259
3251
3243
3235
3227
3219
3211
3203
3195
3187
3179
3171
3163
3155
3147
3139
3131
3123
3115
3107
3099
3091
3083
3075
3067
3059
3051
3043
3035
3027
3019
3011
3003
2995
2987
2979
2971
2963
2955
2947
2939
2931
2923
2915
2907
2899
2891
2883
2875
2867
2859
2851
2843
2835
2827
2819
2811
2803
2795
2787
2779
2771
2763
2755
2747
2739
2731
2723
2715
2707
2699
2691
2683
2675
2667
2659
2651
2643
2635
2627
2619
2611
2603
2595
2587
2579
2571
2563
2555
2547
2539
2531
2523
2515
2507
2499
2491
2483
2475
2467
2459
2451
2443
2435
2427
2419
2411
2403
2395
2387
2379
2371
2363
2355
2347
2339
2331
2323
2315
2307
2299
2291
2283
2275
2267
2259
2251
2243
2235
2227
2219
2211
2203
2195
2187
2179
2171
2163
2155
2147
2139
2131
2123
2115
2107
2099
2091
2083
2075
2067
2059
2051
2043
2035
2027
2019
2011
2003
1995
1987
1979
1971
1963
1955
1947
1939
1931
1923
1915
1907
1899
1891
1883
1875
1867
1859
1851
1843
1835
1827
1819
1811
1803
1795
1787
1779
1771
1763
1755
1747
1739
1731
1723
1715
1707
1699
1691
1683
1675
1667
1659
1651
1643
1635
1627
1619
1611
1603
1595
1587
1579
1571
1563
1555
1547
1539
1531
1523
1515
1507
1499
1491
1483
1475
1467
1459
1451
1443
1435
1427
1419
1411
1403
1395
1387
1379
1371
1363
1355
1347
1339
1331
1323
1315
1307
1299
1291
1283
1275
1267
1259
1251
1243
1235
1227
1219
1211
1203
1195
1187
1179
1171
1163
1155
1147
1139
1131
1123
1115
1107
1099
1091
1083
1075
1067
1059
1051
1043
1035
1027
1019
1011
1003
995
987
979
971
963
955
947
939
931
923
915
907
899
891
883
875
867
859
851
843
835
827
819
811
803
795
787
779
771
763
755
747
739
731
723
715
707
699
691
683
675
667
659
651
643
635
627
619
611
603
595
587
579
571
563
555
547
539
531
523
515
507
499
491
483
475
467
459
451
443
435
427
419
411
403
395
387
379
371
363
355
347
339
331
323
315
307
299
291
283
275
267
259
251
243
235
227
219
211
203
195
187
179
171
163
155
147
139
131
123
115
107
99
91
83
75
67
59
51
43
35
27
19
11
3
-5
-13
-21
-29
-37
-45
-53
-61
-69
-77
-85
-93
-101
-109
-117
-125
-133
-141
-149
-157
-165
-173
-181
-189
-197
-205
-213
-221
-229
-237
-245
-253
-261
-269
-277
-285
-293
-301
-309
-317
-325
-333
-341
-349
-357
-365
-373
-381
-389
-397
-405
-413
-421
-429
-437
-445
-453
-461
-469
-477
-485
-493
-501
-509
-517
-525
-533
-541
-549
-557
-565
-573
-581
-589
-597
-605
-613
-621
-629
-637
-645
-653
-661
-669
-677
-685
-693
-701
-709
-717
-725
-733
-741
-749
-757
-765
-773
-781
-789
-797
-805
-813
-821
-829
-837
-845
-853
-861
-869
-877
-885
-893
-901
-909
-917
-925
-933
-941
-949
-957
-965
-973
-981
-989
-997
-1005
-1013
-1021
-1029
-1037
-1045
-1053
-1061
-1069
-1077
-1085
-1093
-1101
-1109
-1117
-1125
-1133
-1141
-1149
-1157
-1165
-1173
-1181
-1189
-1197
-1205
-1213
-1221
-1229
-1237
-1245
-1253
-1261
-1269
-1277
-1285
-1293
-1301
-1309
-1317
-1325
-1333
-1341
-1349
-1357
-1365
-1373
-1381
-1389
-1397
-1405
-1413
-1421
-1429
-1437
-1445
-1453
-1461
-1469
-1477
-1485
-1493
-1501
-1509
-1517
-1525
-1533
-1541
-1549
-1557
-1565
-1573
-1581
-1589
-1597
-1605
-1613
-1621
-1629
-1637
-1645
-1653
-1661
-1669
-1677
-1685
-1693
-1701
-1709
-1717
-1725
-1733
-1741
-1749
-1757
-1765
-1773
-1781
-1789
-1797
-1805
-1813
-1821
-1829
-1837
-1845
-1853
-1861
-1869
-1877
-1885
-1893
-1901
-1909
-1917
-1925
-1933
-1941
-1949
-1957
-1965
-1973
-1981
-1989
-1997
-2005
-2013
-2021
-2029
-2037
-2045
-2053
-2061
-2069
-2077
-2085
-2093
-2101
-2109
-2117
-2125
-2133
-2141
-2149
-2157
-2165
-2173
-2181
-2189
-2197
-2205
-2213
-2221
-2229
-2237
-2245
-2253
-2261
-2269
-2277
-2285
-2293
-2301
-2309
-2317
-2325
-2333
-2341
-2349
-2357
-2365
-2373
-2381
-2389
-2397
-2405
-2413
-2421
-2429
-2437
-2445
-2453
-2461
-2469
-2477
-2485
-2493
-2501
-2509
-2517
-2525
-2533
-2541
-2549
-2557
-2565
-2573
-2581
-2589
-2597
-2605
-2613
-2621
-2629
-2637
-2645
-2653
-2661
-2669
-2677
-2685
-2693
-2701
-2709
-2717
-2725
-2733
-2741
-2749
-2757
-2765
-2773
-2781
-2789
-2797
-2805
-2813
-2821
-2829
-2837
-2845
-2853
-2861
-2869
-2877
-2885
-2893
-2901
-2909
-2917
-2925
-2933
-2941
-2949
-2957
-2965
-2973
-2981
-2989
-2997
-3005
-3013
-3021
-3029
-3037
-3045
-3053
-3061
-3069
-3077
-3085
-3093
-3101
-3109
-3117
-3125
-3133
-3141
-3149
-3157
-3165
-3173
-3181
-3189
-3197
-3205
-3213
-3221
-3229
-3237
-3245
-3253
-3261
-3269
-3277
-3285
-3293
-3301
-3309
-3317
-3325
-3333
-3341
-3349
-3357
-3365
-3373
-3381
-3389
-3397
-3405
-3413
-3421
-3429
-3437
-3445
-3453
-3461
-3469
-3477
-3485
-3493
-3501
-3509
-3517
-3525
-3533
-3541
-3549
-3557
-3565
-3573
-3581
-3589
-3597
-3605
-3613
-3621
-3629
-3637
-3645
-3653
-3661
-3669
-3677
-3685
-3693
-3701
-3709
-3717
-3725
-3733
-3741
-3749
-3757
-3765
-3773
-3781
-3789
-3797
-3805
-3813
-3821
-3829
-3837
-3845
-3853
-3861
-3869
-3877
-3885
-3893
-3901
-3909
-3917
-3925
-3933
-3941
-3949
-3957
-3965
-3973
-3981
-3989
-3997
-4005
-4013
-4021
-4029
-4037
-4045
-4053
-4061
-4069
-4077
-4085
-4093
-4101
-4109
-4117
-4125
-4133
-4141
-4149
-4157
-4165
-4173
-4181
-4189
-4197
-4205
-4213
-4221
-4229
-4237
-4245
-4253
-4261
-4269
-4277
-4285
-4293
-4301
-4309
-4317
-4325
-4333
-4341
-4349
-4357
-4365
-4373
-4381
-4389
-4397
-4405
-4413
-4421
-4429
-4437
-4445
-4453
-4461
-4469
-4477
-4485
-4493
-4501
-4509
-4517
-4525
-4533
-4541
-4549
-4557
-4565
-4573
-4581
-4589
-4597
-4605
-4613
-4621
-4629
-4637
-4645
-4653
-4661
-4669
-4677
-4685
-4693
-4701
-4709
-4717
-4725
-4733
-4741
-4749
-4757
-4765
-4773
-4781
-4789
-4797
-4805
-4813
-4821
-4829
-4837
-4845
-4853
-4861
-4869
-4877
-4885
-4893
-4901
-4909
-4917
-4925
-4933
-4941
-4949
-4957
-4965
-4973
-4981
-4989
-4997
-5005
-5013
-5021
-5029
-5037
-5045
-5053
-5061
-5069
-5077
-5085
-5093
-5101
-5109
-5117
-5125
-5133
-5141
-5149
-5157
-5165
-5173
-5181
-5189
-5197
-5205
-5213
-5221
-5229
-5237
-5245
-5253
-5261
-5269
-5277
-5285
-5293
-5301
-5309
-5317
-5325
-5333
-5341
-5349
-5357
-5365
-5373
-5381
-5389
-5397
-5405
-5413
-5421
-5429
-5437
-5445
-5453
-5461
-5469
-5477
-5485
-5493
-5501
-5509
-5517
-5525
-5533
-5541
-5549
-5557
-5565
-5573
-5581
-5589
-5597
-5605
-5613
-5621
-5629
-5637
-5645
-5653
-5661
-5669
-5677
-5685
-5693
-5701
-5709
-5717
-5725
-5733
-5741
-5749
-5757
-5765
-5773
-5781
-5789
-5797
-5805
-5813
-5821
-5829
-5837
-5845
-5853
-5861
-5869
-5877
-5885
-5893
-5901
-5909
-5917
-5925
-5933
-5941
-5949
-5957
-5965
-5973
-5981
-5989
-5997
-6005
-6013
-6021
-6029
-6037
-6045
-6053
-6061
-6069
-6077
-6085
-6093
-6101
-6109
-6117
-6125
-6133
-6141
-6149
-6157
-6165
-6173
-6181
-6189
-6197
-6205
-6213
-6221
-6229
-6237
-6245
-6253
-6261
-6269
-6277
-6285
-6293
-6301
-6309
-6317
-6325
-6333
-6341
-6349
-6357
-6365
-6373
-6381
-6389
-6397
-6405
-6413
-6421
-6429
-6437
-6445
-6453
-6461
-6469
-6477
-6485
-6493
-6501
-6509
-6517
-6525
-6533
-6541
-6549
-6557
-6565
-6573
-6581
-6589
-6597
-6605
-6613
-6621
-6629
-6637
-6645
-6653
-6661
-6669
-6677
-6685
-6693
-6701
-6709
-6717
-6725
-6733
-6741
-6749
-6757
-6765
-6773
-678

3047

4.5 D. 61W. 57' - 15" 45' - 13.5"

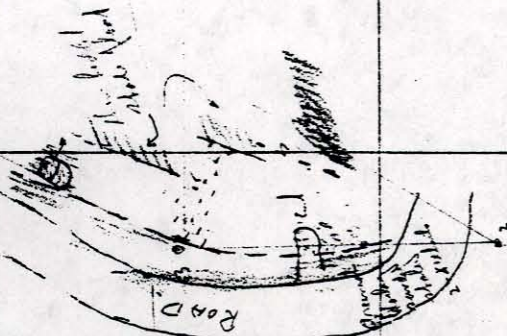


14.30 ft.

GRAND MINE SURFACE
JUNE 27-1946 - M.P.R.

C.P. 404-1. N 125° 13' E
1-2. N 48° 43' 15" E 41' 42"
2-3. N 50° 11' 17" E
3-4. N 71° 45' 41" E

along Blk. 62



11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

along Blk. 62

along Blk. 62

along Blk. 62

DD 4. No 3 - N 21,152 - E 20725 E 5547 Dip - 32° - due East

0-15 - Iron stained heavy shale
15-30 - Blackish shale some dark gray ls - long grain micaceous
30-31.5 - Limestone - 26.9% oil - 7.5%
31.5-33 - ls with blackish shale bands
33-54 - Dark gray massive ls
54-55 - Shale - 16.8% oil - 3.3%

55-55' - Dark gray ls - few spots calcareous

55-92 - Limestone - 16.3% oil - 4.2% - hole connects with - 1 stop at 93'

DD 4. No 4 - N 21,162 - E 20,703 - D 5442 - 32° dip. 435' E.

0-45' - sandstone

File SL 1650

camp (is igneous)
 grad of entire a.p.
 looks a beard

3-1-2
 some H₂O
 45-05
 NO. 12
 "A"

camp 4-45
 between 2 peaks
 cracks also
 shale with inter-
 bedding
 some H₂O
 45-05
 NO. 12
 "A"

gray black slightly brownish
 shale

the 116-117-118

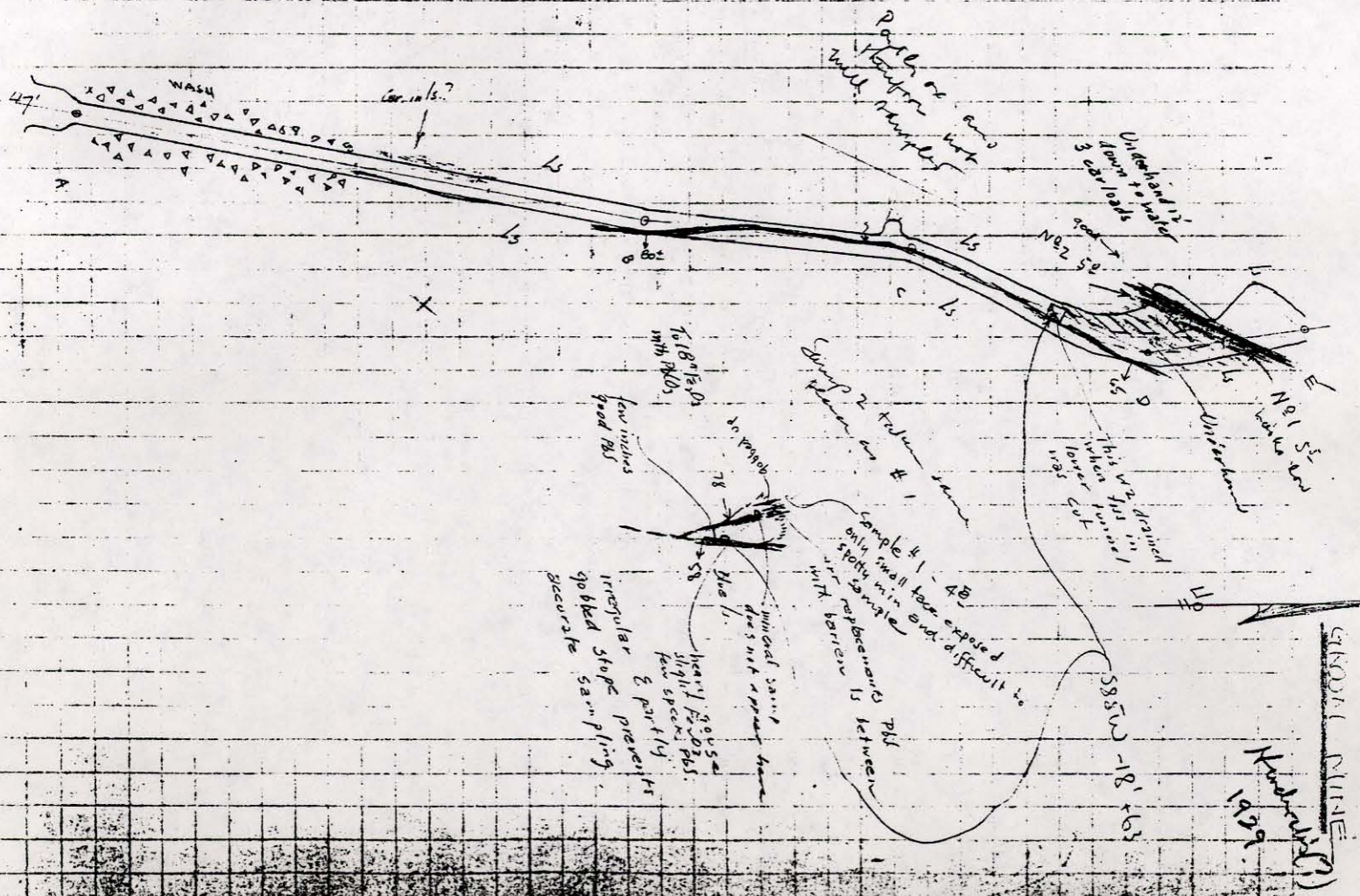
Point "A" of
 6 peaks
 $328 = 174$

117-118
 116E

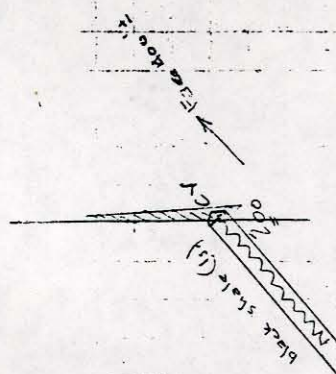
"Max" 15

Kuehne 1929 (1)

2013
1303



Handwritten notes:



Sta "A" at portal.
EI assumed = 150

A-1	512 W	645	0
1-2	511 W	82	0
2-X	510 W	100	-12
2-3	511 W	100	-10
3-4	512 W	100	-0
4-5	513 W	100	-06
5-6	514 W	100	-0
6-7	515 W	100	-0
7-8	516 W	100	-19
8-9	517 W	64	-1
9 is at tunnel cut 47' left from portal of low. Tun.			

Traverse from portal to lower tunnel 100' level

117-100=1
16-91-100=3

110-416-6 Face 100' ahead

Tunnel N 50 E

Down road toward camp			
X-10	503 W	100	-08
10-11	506 E	100	-4
11-12	503 E	100	-2
12-13	502 W	100	-1
13-14	501 W	95	-02

Shale of 11E 10E @ 85'

Block @ 50 E 90

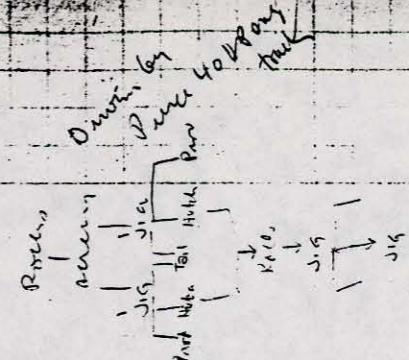
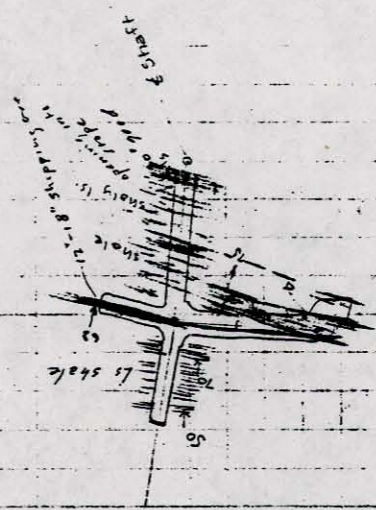
014 is near W. line etc.

Lower Tunnel

Black lime shale

Scale 10'

Gravelly ls



Green
Co
mine

Trause N from Main shaft

across blue ls.	± shaft - 1	N 37 E	100	+ 9
10 last blue ls. etc		S 85 E	52	
65' incl across blue ls.	1 - ± N shaft ±	N 65 W	79	- 17
last 1st across shale	± shaft - ± N 2 sh.	N 12 E	106	- 1
		↑ in grass slightly shady ls		

cut 5' deep
shows 1st
of shaft etc

± N 37 E

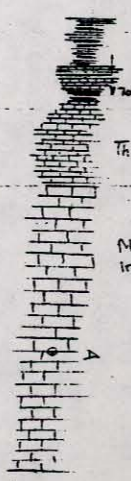
100' +
thin shale - mostly gray
50-55' shale
blue ls
Samp 3-40 across iron stained ote
4-26 " " " " 3' below #3

shaly ls shale

20' +
brown
shaly ls slightly shaly
thin shale just sh
probably some
horizon as X

Shale

lime shale?



Thin bedded ls.

Mass blue ls
irr. veined w. $CaCO_3$

no otes.

45' across dark
blue mass ls

Heuchera?

shale up 50' W of nr

Blue ls. ok to SE of 18

along shale

A - @ 137' 25' gray shly ls.
150' here the float
the cones in between 175-200 beyond
"A" - east is alternating of the ls shale
14-15 55 1/2 W 100 -14 1/2
15-16 53 3/4 W 100 -08
16-17 50 7/8 W 100 +05
17-18 50 1/4 W 100 -07
18-19 50 1/2 W 100 -07 1/2
19-20 50 3/4 W 100 -11
20-21 50 1/2 W 100 -11
21-22 50 3/4 W 100 -4 1/2
22-23 50 3/4 W 81 -07
23-24 50 3/4 W 107 -07
24-25 50 3/4 W 107 -07
25-26 50 3/4 W 107 -07
26-27 50 3/4 W 107 -07
27-28 50 3/4 W 107 -07
28-29 50 3/4 W 107 -07
29-30 50 3/4 W 107 -07
30-31 50 3/4 W 107 -07
31-32 50 3/4 W 107 -07
32-33 50 3/4 W 107 -07
33-34 50 3/4 W 107 -07
34-35 50 3/4 W 107 -07
35-36 50 3/4 W 107 -07
36-37 50 3/4 W 107 -07
37-38 50 3/4 W 107 -07
38-39 50 3/4 W 107 -07
39-40 50 3/4 W 107 -07
40-41 50 3/4 W 107 -07
41-42 50 3/4 W 107 -07
42-43 50 3/4 W 107 -07
43-44 50 3/4 W 107 -07
44-45 50 3/4 W 107 -07
45-46 50 3/4 W 107 -07
46-47 50 3/4 W 107 -07
47-48 50 3/4 W 107 -07
48-49 50 3/4 W 107 -07
49-50 50 3/4 W 107 -07
50-51 50 3/4 W 107 -07
51-52 50 3/4 W 107 -07
52-53 50 3/4 W 107 -07
53-54 50 3/4 W 107 -07
54-55 50 3/4 W 107 -07
55-56 50 3/4 W 107 -07
56-57 50 3/4 W 107 -07
57-58 50 3/4 W 107 -07
58-59 50 3/4 W 107 -07
59-60 50 3/4 W 107 -07
60-61 50 3/4 W 107 -07
61-62 50 3/4 W 107 -07
62-63 50 3/4 W 107 -07
63-64 50 3/4 W 107 -07
64-65 50 3/4 W 107 -07
65-66 50 3/4 W 107 -07
66-67 50 3/4 W 107 -07
67-68 50 3/4 W 107 -07
68-69 50 3/4 W 107 -07
69-70 50 3/4 W 107 -07
70-71 50 3/4 W 107 -07
71-72 50 3/4 W 107 -07
72-73 50 3/4 W 107 -07
73-74 50 3/4 W 107 -07
74-75 50 3/4 W 107 -07
75-76 50 3/4 W 107 -07
76-77 50 3/4 W 107 -07
77-78 50 3/4 W 107 -07
78-79 50 3/4 W 107 -07
79-80 50 3/4 W 107 -07
80-81 50 3/4 W 107 -07
81-82 50 3/4 W 107 -07
82-83 50 3/4 W 107 -07
83-84 50 3/4 W 107 -07
84-85 50 3/4 W 107 -07
85-86 50 3/4 W 107 -07
86-87 50 3/4 W 107 -07
87-88 50 3/4 W 107 -07
88-89 50 3/4 W 107 -07
89-90 50 3/4 W 107 -07
90-91 50 3/4 W 107 -07
91-92 50 3/4 W 107 -07
92-93 50 3/4 W 107 -07
93-94 50 3/4 W 107 -07
94-95 50 3/4 W 107 -07
95-96 50 3/4 W 107 -07
96-97 50 3/4 W 107 -07
97-98 50 3/4 W 107 -07
98-99 50 3/4 W 107 -07
99-100 50 3/4 W 107 -07

Wiederholt

~~Handwritten signature~~

400

1

29

213

—Po
are

along

of level "down" to most

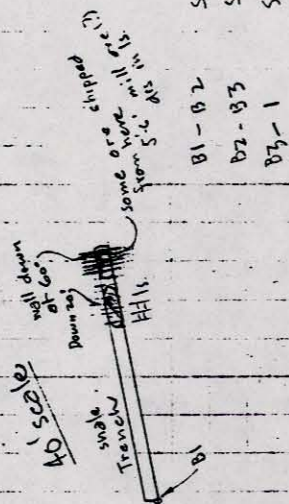
Coal

stope (pipe)
appears to
have made
along intersect
bedding E-W
fiss - dip 8 x 8

locks the
good carb
but not
opened up

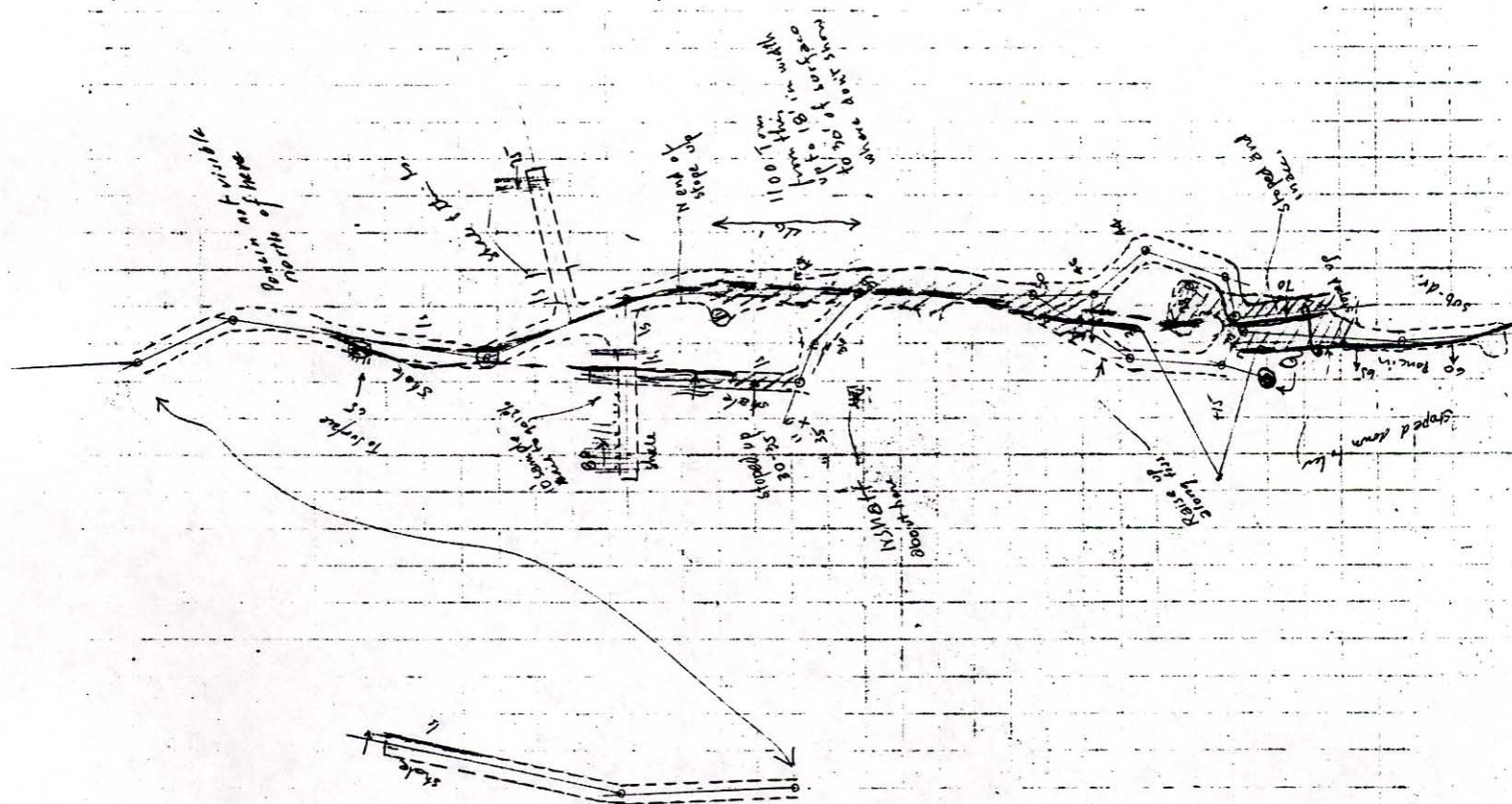
above 100 local only small
of irregular bunches and possible to piller
dominate but estimate probably 2000 +
will be

Traverse from long open cut
(between shaft and tunnel)
to sta 1 (just out from tunnel portal)



S20 W	100	-9 3/4	POOR
S17 W	100	-10	on blue 612 30 E/40 E
S23 E	111	-10 1/2	

~~Green~~ ^{new} ~~Co~~ ^{line}



These black sheets are just
(poor) photocopies of the
colored, preceding
underground scene maps
by Miles Pomroy—
(see those instead)

(170)

O.D.F.

5195

ITEM 14C

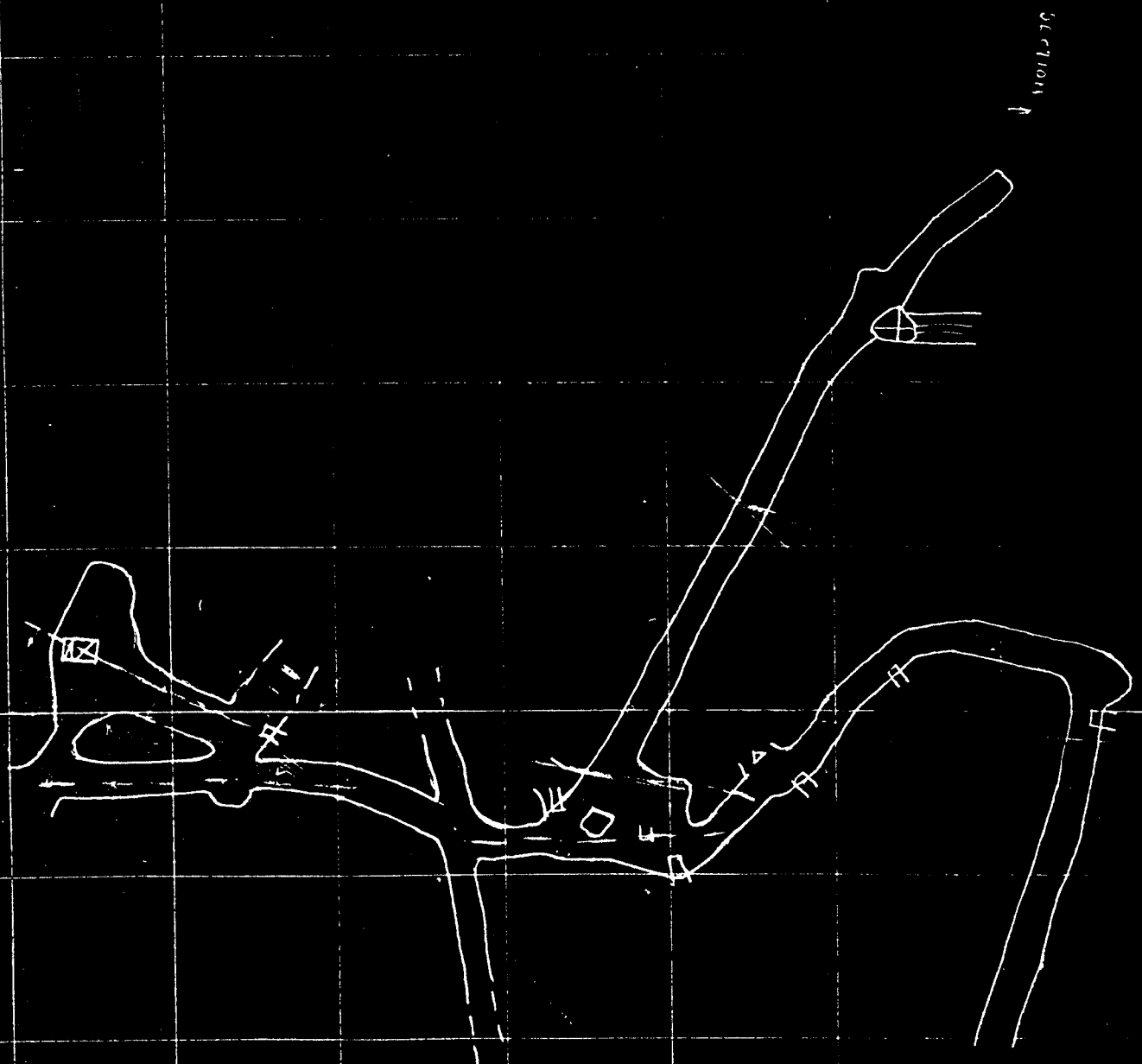
A

□

□

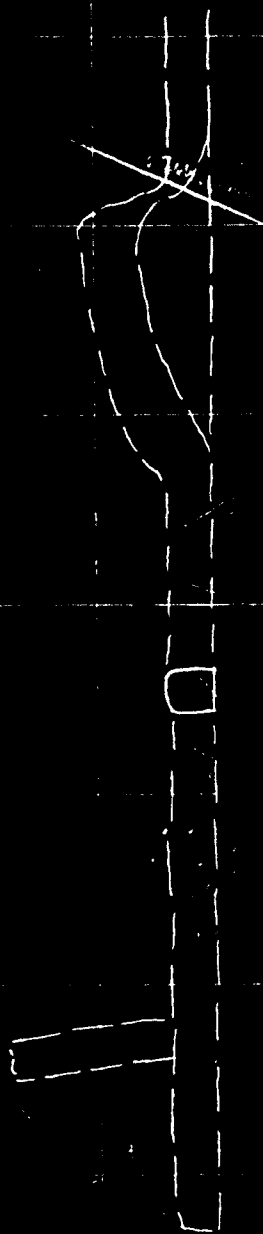
D

SECTION ↑





SECTION 1



A

□

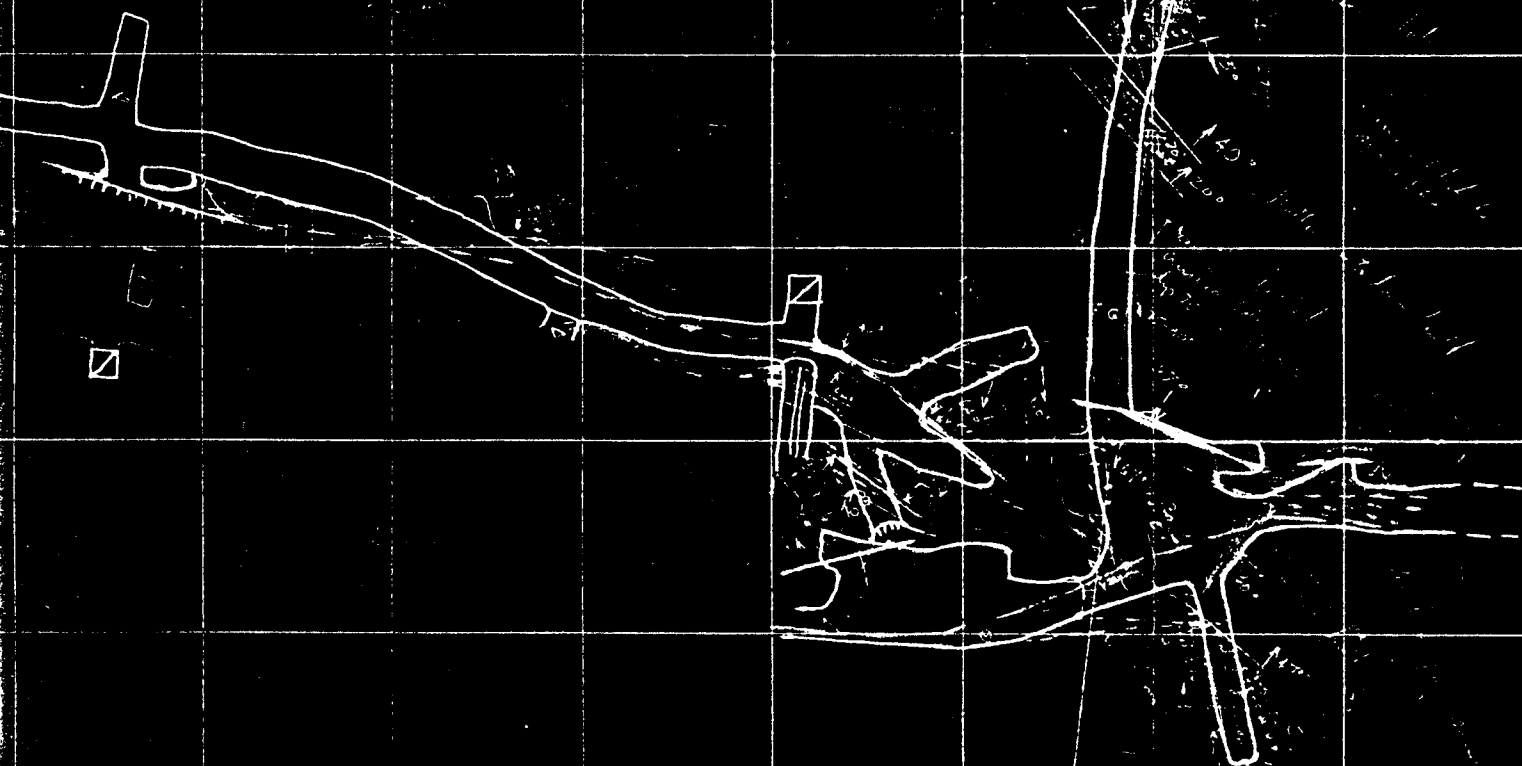
□

□

SECTION A



SECTION



SECTION ALONG LINE N82°W

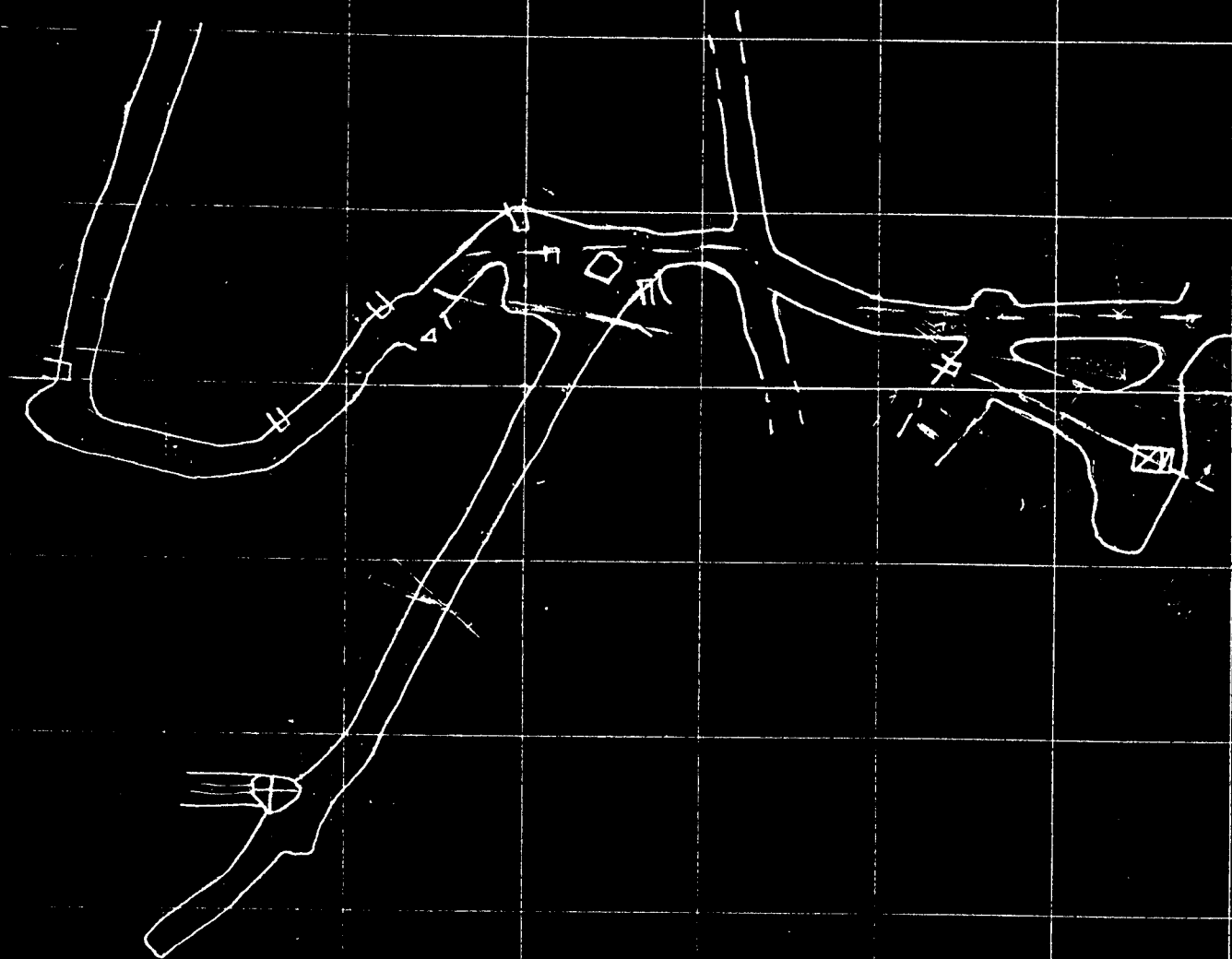
LOOKING N. 1/4 SCALE 1" = 30 FT

5200'

5100'

370'

4200'



SECTION ↑

(170)
ITEM 14D

November 3, 1948

Mr. Dan Sheahan
Groom Mine
Caliente, Nevada

Re: Jig Tails Groom Mine, Lincoln County, Nevada.

Dear Dan:

I've been rather slow in getting returns to you on the sample of jig tails, but attached is a copy of the Mill Test which will be self explanatory to you.

It appears that because of the high oxide content, the only possibility in retreating this material would be crushing for gravity concentration. The oxide content is surprising, and this sample may not be representative. However, the fact that it was taken around the toe of the dump, where the larger pieces had accumulated would suggest the oxide content of the sample taken might be lower than the finer material in the center of the pile.

With best regards, I am,

Yours very truly,

M. P. R.

Miles P. Romney
Field Engineer

*This packet of correspondence
was all bound (clipped) together
in the USSARA CO
USSRMCO*

FLOTATION TEST ON M. P. ROMNEY (GROOM JIG TAIL) H.S.

Using Present Midvale Mill Reagents in the Lead Circuit.

	<u>WEIGHT</u>		<u>ASSAY</u>								
	Grams	%	Au	Ag	Cu	Pb	Insol	Fe	Zn	OxPb	OxZn
Assayed Head			none	0.3	0.05	3.2	83.1	1.3	0.5		
Calculated Head			none	0.847	0.158	3.35		1.44	1.322	2.62	0.29
Lead Concentrate	99	3.4	trace	8.7	0.20	17.2	59.1	4.3	1.4		
Table Concentrate	265	9.0	trace	3.2	0.10	9.4	60.4	2.7	9.8	8.70	
Tailing	2600	87.6	none	0.3	0.07	2.2		1.2	0.45	2.10	0.33
<u>DISTRIBUTION</u>											
In Lead Conct.				35.3	4.4	17.5		10.1	3.6		
In Table Conct.				33.8	57.0	25.2		16.8	66.6		
In Tailing				30.9	38.6	57.3		73.1	29.8		

TEST DATA

REAGENTS---POUNDS PER TON TREATED

To Ball Mill	0.24 Republic Oil	10 Min.
To Lead Flotation	1.5 Sodium Sulphite 0.05 Pot. E. Xanthate	5 "
	1.0 Zinc Sulphate 0.02 Methyl Isobutyl Carbinol	

An attempt was made to float Zinc and Pyrite Concentrates, but it was unsuccessful.

Flotation tailings were tabled.

ONE CYCLE TEST NO. 434 run October 27, 1948 by GTG

EPK

10-29-48

October 26, 1948.

Mr. Dan Sheahan,
Caliente, Nevada.

RE: GROOM MINE, JIG TAILS, LINCOLN COUNTY, NEVADA


Dear Dan:

Enclosed please find an assay certificate covering the sample of the jig tailings. The grade is not too bad for re-milling.

Mr. Pallanch, Superintendent of our Midvale mill, will run tests using our standard Midvale mill flotation reagents and ^{will} let you know what results are obtained.

With best regards to yourself and family, I am,

Yours very truly,


Miles P. Romney,
Field Engineer.

MPR/G

TELEPHONE 3-3302

Hand Sample Serial 53079

Mine M. P. Romney

ASSAY REPORT UNION ASSAY OFFICE, Inc.

J. V. SADLER, President
A. C. SELBY, Vice-Pres. & Treas.
A. C. SELBY, Jr., Secretary

Salt Lake City 11, Utah

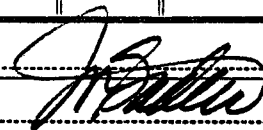
RESULTS PER TON OF 2000 POUNDS

Oct. 22, 1948

NO.	GOLD Ozs. per Ton	SILVER Ozs. per Ton	LEAD Per Cent Wet	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent	Per Cent	VALUE GOLD
Groom Jig Tails	Trace	0.4	2.2	0.10		None						
<p>Pile 12.5 in Circumference x 20' high</p> $\frac{12.5^2 \times 3.14 \times 20}{2} = 250 \text{ tons} = 1$ <p>20</p>												

Remarks

Charges \$



July 11, 1946.

Mr. Dan Sheahan,
Caliente, Nevada.

Dear Dan:

The jig which I mentioned to you is a 3-compartment Hartz type machine, each compartment being about 16" x 30" in screen size. It can be purchased for \$150 f.o.b. Salt Lake. It is reported to be in good shape except for one broken bearing which will be repaired at the owner's expense if you wish to buy it. If you are interested please write to Frank Stampfel, Midvale, Utah, for further particulars.

I surely wish to thank you and Mrs. Sheahan for my pleasant stay at the Groom mine. It is to be hoped that present unsettled prices for metals will not prevent you from going ahead with your project as planned. Lead is now quoted at 9.50¢ and there seems to be hope that some sort of a subsidy payment for marginal properties will be worked out in the legislation now pending.

Yours very truly,

Miles P. Romney,
Smelter Field Engineer.

MPR/G

March 29, 1946.

Mr. Dan Sheahan, Manager,
Groom Mine,
P.O. Box 67,
Caliente, Nevada.

Dear Mr. Sheahan:

Enclosed please find the original sheets and photo-
stat copies of the diamond drill and churn drill logs.
Also enclosed are copies of my geologic notes on the
50, 75 and 100 levels, and a section through those work-
ings.

Arrive home Thursday evening about 8 P. M., making
pretty fair time with the aid of a 25-30 mile an hour tail
wind all the way.

Thanks again for the pleasant visit with Mrs. Sheahan
and yourself.

Yours very truly,

M.P.R.

Miles P. Romney,
Field Engineer.

MPR/G

Encls.

February 21, 1946.

Mr. Dan Sheahan,
P. O. Box 67,
Caliente, Nevada.

Dear Mr. Sheahan:

Thanks for your letter of February 17th.
It reached me in plenty of time to rearrange my
plans with no inconvenience. I will plan, as
you suggest, to come out to Groom some time
shortly after March 15th.

Yours very truly,

M. P. R.

Miles P. Romney,
Field Engineer.

MFR/G

cc - Mr. R. Wallace.

Call R.F. -

116 - 2

Call R.F. -

116 - 2

3 P. 1000

South End - } 465
Southwest Section
- Bing -

Call R.F. - } 1087
1087
4-0516

Groom Mine -
Lincoln County
Nevada.

International Bng Co --

~~has~~ are now assessed. for
these claims.

D-1-5-6.

April 12 - 1944.

- Paid.

J. W. Christian - Lincoln County Treasurer
in trust

to

International Bng Co -

County took tax due. - 1939- taxes
Paid - Oct 1942.

^{Lincoln}
Tax not paid - Aug 1946 for 1945

admitted

sale in Sept -

If not redeemed or purchased by
others -

* then Treasurer passes Tax Sale
Certificate filed with Recorder

Owner has two years from
date of sale to ~~redeem~~ redeem.
thereafter county may sell and give deed to buyer

DRILL HOLE LOG SUMMARY - GROOM PROPERTY, LINCOLN COUNTY, NEVADA

DIAMOND DRILL HOLE #1

North 21,219, East 20,765, Elev. 5462, Dip -70°, Direct'n. West.

- 0 to 45° Mineralized thin bedded limestone with some shale, mostly oxidized. Average grade 3.6% lead, 0.5 ozs silver.
- 46° to 76° Thin gray shale with occasional narrow limestone bands which are mineralized with high grade sulphide ore. Average grade 2.75% lead, 0.48 ozs silver.
- 76° to 148° Gray blocky shale with some mineralization in seams. Average grade 0.25% lead, 0.1 oz silver.
- 148° to 250° Thin light gray shale, some slight mineralization.
- 250° to 272° Dark colored fault gouge containing crushed limestone and shale.
- 272° to 302° Lighter colored fault gouge containing mostly shale.
- 302° to 307° Crushed quartzite.

DIAMOND DRILL HOLE # 2

North 21,219, East 20,768, Elev. 5464, Dip -30°, Direct'n. East.

- 0 to 44° Ore in massive limestone, partly oxidized. Average grade 13.6% lead, 2.9 ozs silver.
- 44° to 63° Dark gray massive limestone
- 63° to 64° Sulphide ore, 54.5% lead, 16.8 ozs silver.
- 64° to 78° Dark gray massive limestone with occasional narrow bands of oxidized ore.
- 78° to 85° Lighter colored massive limestone.

DIAMOND DRILL HOLE #3

North 21,152, East 20728, Elev. 5447, Dip -30°, Direct'n. East.

- 0 to 15° Iron stained blocky type shale.
- 15 to 30° Blocky type shale interbedded with dark gray limestone, low grade mineralization throughout.
- 30° to 31.5 Sulphide ore. 26.0% lead, 7.5 ozs silver.
- 31.5° to 33° Limestone with blocky shale bands
- 33° to 54° Dark gray massive limestone
- 54° to 55° Oxidized ore. 16.8% lead, 3.8 ozs silver.

Drill Hole Log Summary - Groom Property, Lincoln County, Nevada

DIAMOND DRILL HOLE #3 Continued

55' to 85' Dark gray limestone showing a few spots of sulphide mineralization.

85' to 93' Sulphide ore in limestone. 16.3% lead, 4.2 ozs silver.

Hole connects with old stope at 93 feet.

DIAMOND DRILL HOLE #4

North 21,162, East 20,703, Elev. 5442, -33° Dip, Direction N 85° E.

0 to 45' Oxidized blocky shale showing minor mineralization in occasional bands.

45' to 55' Oxidized ore. 3.5% lead, 0.7 oz silver.

55' to 63' Iron stained blocky type shale

63' to 73.5 Ore in limestone. 8.0% lead, 1.6 ozs silver

73.5 to 106' Dark gray limestone showing occasional patches of sulphide ore.

Hole connects with old stope at 106 feet.

DIAMOND DRILL HOLE #5

North 20,767, East 20,685, Elev. 5428, Dip -34°, Direction East.

0 to 27' Overburden wash

27 to 30' Thin green shale

30' to 35' Limestone

35' to 45' Thin bedded light gray shale

45' to 60' Iron stained limestone showing patches of carbonate ore.

60' to 75' Dark gray limestone showing occasional patches of sulphide ore

75' to 85' Dark gray limestone, not mineralized.

85' to 93' Crushed limestone and shale.

93' to 114' Crushed dark gray limestone.

Drill Hole Summary - Crown Property, Lincoln County, Nevada

DIAMOND DRILL HOLE #6

North 20,985, East 20,985, Elev. 5452, Dip -60°, Direction East.

- 0 to 14' Wash overburden
- 14' to 15' Limestone
- 15' to 32' Iron stained blocky type shale, with patches of light mineralization
- 32' to 45' Thin green shale
- 45' to 70' Buff colored blocky type shale
- 70' to 75' Light gray blocky shale
- 75' to 135' Iron stained limestone with spotted mineralization
- 135' to 156' Dark colored fault gouge
- 156' to 160' Crushed light gray limestone

DIAMOND DRILL HOLE #7

North 21,652, East 20,705, Elevation ⁵⁴⁵² 5452, Dip -34°, Direction East

- 0 to 90' Light gray, thin bedded shale
- 90' to 93' Thin bedded dark gray limestone showing a little mineralization.
- 93' to 200' Crushed Shale
- 200' to 203' Crushed quartzite

DIAMOND DRILL HOLE #8

North 21,154, East 20,561, Elevation 5414, Dip -70°, Direction West

- 0 to 51' Buff colored blocky shale, oxidized
- 51' to 80' Medium gray shale, fine grained, not oxidized
- 80' to 94' Massive Carbonaceous limestone
- 94' to 100' Light gray shale
- 100' to 130' Broken shale, fine grained, some sandy, some micaceous, light gray color.
- 130' to 131' Fault gouge
- 131' to 305' Gray fine grained shale, some rather hard and siliceous, some micaceous
- 305' to 390' Very siliceous fine grained shale, medium light color, some mica.

Hole abandoned due to caving

Drill Hole Summary - Green Property, Lincoln County, Nevada

DIAMOND DRILL HOLE #8

21,343⁷⁰ 20,664²⁰ 5433²⁰
 North 21,344, East 20,646, Elevation 5431, Dip -45°, East

0 to 75' Iron stained blocky type shale showing mineralization in seams and patches, mostly oxidized

75' to 130' Medium gray colored unoxidized shale showing mineralization in seams and patches.
 Average grade from 0 to 130 feet: 2.08% lead, 0.6 oz silver.

130' to 200' Thinner bedded light gray shale showing some mineral but less than above.

DIAMOND DRILL HOLE #10

21,349⁸⁰ 20,770²⁰ 5460²⁰
 North 21,344, East 20,770, Elevation 5468, Dip -30°, Direction East

0 to 20' Iron stained, mineralized, blocky type shale

20' to 30' Thin shale with narrow mineralized limestone bands

Average grade 0 to 30': 3.1% lead, 0.7 oz silver.

30' to 65' Medium gray limestone showing scattered sulphide ore

65' to 100' Dark gray massive limestone

CHURN DRILL HOLE #1

North 21,194, East 20,412, Elevation 5391

0 to 95' Thin bedded limestone, oxidized to 50'

95' to 282' Gray shale, fine grained, some sandy and micaceous

282' to 325' Crushed limestone and shale, carbonaceous

325' to 345' Light gray shale with hard silicious bands

345' to 420' Light gray shale with ribs of light gray very fine grained quartzite

420' to 510' Light gray fault gouge showing: shale, quartzite, and a few small pebbles of dark colored limestone.

Hole abandoned because of caving

CHURN DRILL HOLE #2

North 20,898, East 20,105, Elevation 5340 (Approx. location)

0 to 150' Thin bedded medium gray limestone, oxidized to 50'.

150' to 285' Crushed limestone and shale

Hole abandoned because of caving

Drill Hole Log Summary - Groom Property, Lincoln County, Nevada

CHURN DRILL HOLE #3

North 20,805, East 20,055, Elevation 5325 (Approx. location)

0 to 85' Thin bedded limestone, oxidized to 30'

85' to 185' Crushed limestone and shale

Hole abandoned due to caving

CHURN DRILL HOLE #4

North 21,380, East 20,715, Elevation 5443

0 to 30' Iron stained shale showing a little mineralization

30' to 70' Partly oxidized shale with some limestone ribs, mineralized throughout. Average grade: 3.8% lead, 1.07% copper, 0.48 oz silver.

95' to 194' Light gray shale showing some mineralization but less than above.

194' to 215' Dark colored carbonaceous fault material showing limestone and shale

215' to 270' Light colored fault material showing shale and with occasional pieces of quartzite.

270' to 297' Hard, coarse grained, pink colored quartzite

CHURN DRILL HOLE #5

North 21,563, East 20,797, Elevation 5452

0 to 40' Iron stained shale with some limestone bands, partly mineralized. Average grade 0.95% lead, 0.15 oz silver

40' to 70' Gray shale

70' to 80' Dark gray limestone showing slight mineralization

80' to 190' Gray shale with occasional narrow limestone bands, not mineralized.

CHURN DRILL HOLE #6

North 21,120, East 20,720, Elevation 5440

0 to 50' Iron Stained blocky shale, slightly mineralized

50' to 200' Medium gray shale, not mineralized

200' to 265' Medium gray shale, slightly mineralized

265' to 275' Fault gouge showing shale and quartzite

Drill Hole Log Summary - Groom Property, Lincoln County, Nevada

CHURN DRILL HOLE #7

^{NO. 877.11}
North 20,875, East 20630, Elevation 5430

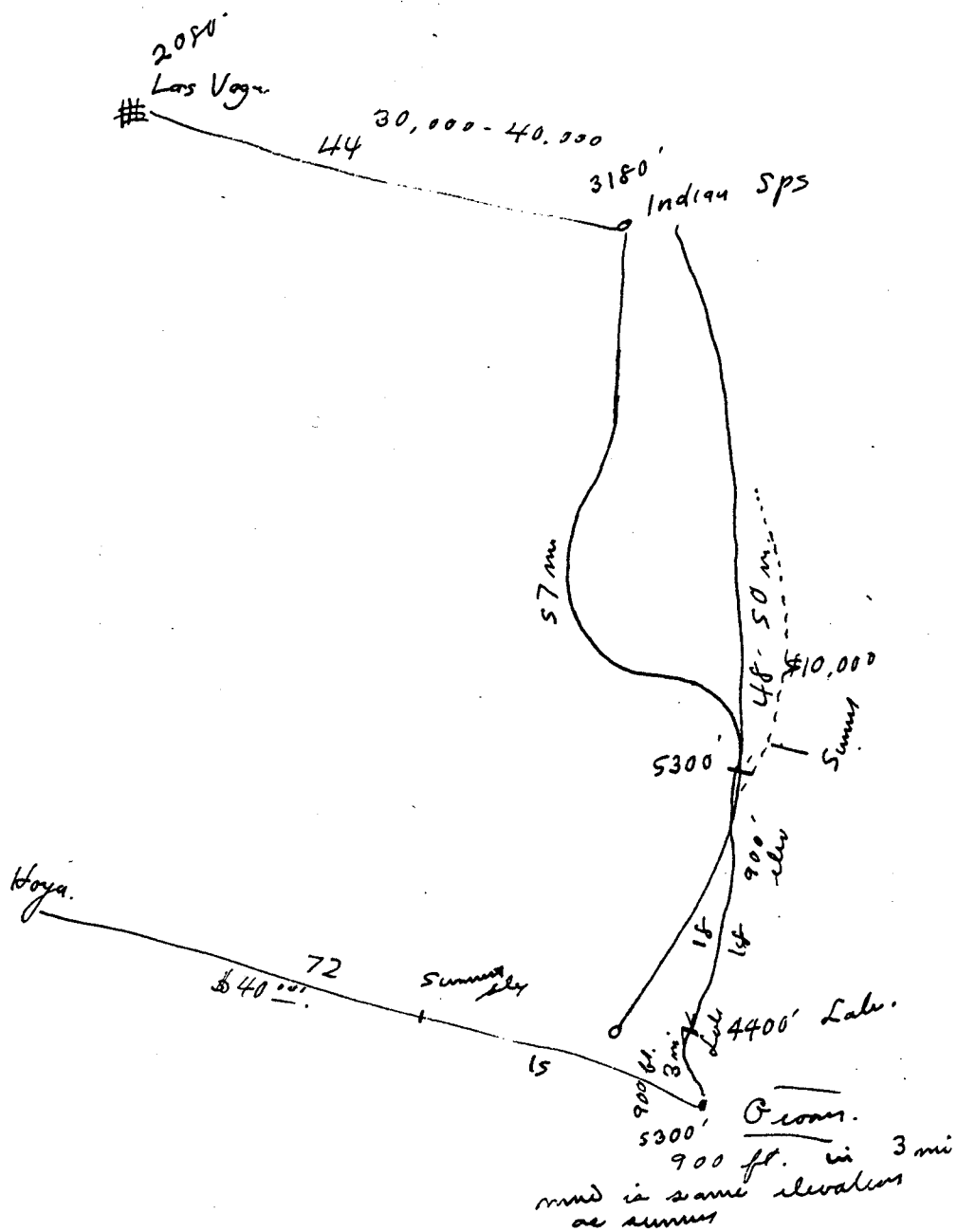
- 0 to 82' Thin shale, oxidized to 40'
- 82' to 169' Medium gray blocky type shale
- 169' to 210' Thin bedded dark gray limestone showing sulphide ore. Average grade 5.15% lead, 0.41 oz silver.
- 210' to 240' Blocky type gray shale showing same mineralization
- 240' to 243' Crushed gray shale, not mineralized
- 243' to 372' Crushed gray shale and quartzite. Shows coarse grained pink quartzite at 372'.

CHURN DRILL HOLE #8

^{NO. 861.03} ^{NO. 870.85} ^{5416.25}
North 20,857, East 20,532, Elevation ~~5435~~

- 0 to 27' Wash overburden
- 27' to 215' Thin bedded dark gray limestone
- 215' to 315' Light gray crushed shale

Hole abandoned because of caving.



Groom

6000 to 10000 tons dump Ore + jig tail

6000 tons @ Ag 5.0 Pb 75.0

Steel Pelena, small % of sphalerite + pyrite
in silicious lime gangue - Min. Ext. S

Approx. Assay of Conc.

Ag	Pb	Cu	Fe	Cc	Zn	Mn	S
.02	16.0	66.0	.5	2.0	2.0	3.0	2.5

Ratio : 3.5 to 1 or 1714 tons Conc

Value Conc F.O.B. Midvale : \$70.98
(Ag 65 & Pb 74)

Cost to produce + transport ton Conc.

Invest \$50000 ÷ 6000 tons = \$8.33

Royalty, pt. crude = 3.00

Operating costs = 2.50

15.83 x 3.5 = 55.41

Haul to Lake = 17.0

Freight = 7.0

Total \$80.2

Profit treating Conc at
Midvale \$5.56 p.t.

If Groom Constructed Mill - + Chgs same out
on 10000 tons mill ore :

Invest \$10000 ÷ 10000 = \$1.00

Operating costs, Crushing = 3.00

8.00 x 3.5 = 28.0

Value Total

70.98

52.80

18.18

Haul

Freight

17.0

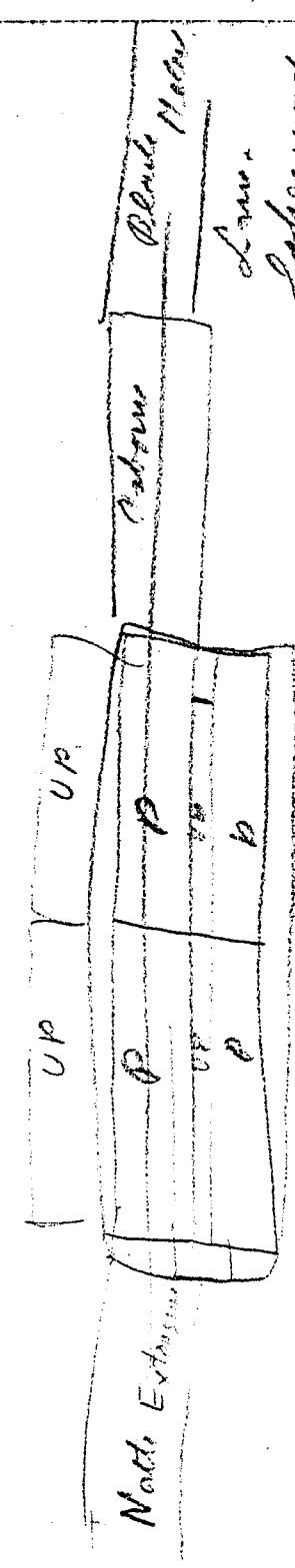
7.0

52.0

If on 6000 tons: 8.28 or \$191.90 (min int. 15000)

Given of $\frac{44}{100}$
 Deduct $\frac{100}{100}$

Unit 196 mo 6/2



3,000 →

25 gate a minute
 Approx 1000-1500 gate a day
 La Cuesta Approx, 1300 ft above
 8 miles under 8 miles elevated

125,000 out
 of road,
 70-75 miles to
 1 day

150

From bus

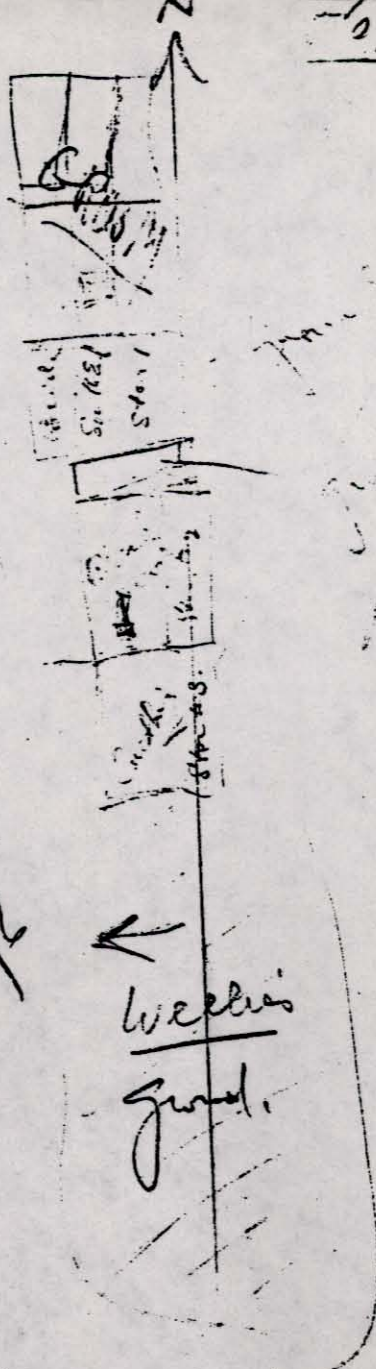
Line 2110

Ground Station 1.
80 mi. - distance

6/14/38

Home Station - Jaws

Wm Armstrong
 635 E. First South
Cutter Company



from South end bridge.
 going toward the station
 for the station.

NB. Weeks also
 has office - a built house
 on the Armstrong property.

United States S.R. & M. Co.

GROOM MINE.

Contents.	Rate.
Average Crude Ore Shipments.	Payments.
Au: 0.01	No pay.
Ag: 18 oz.	95% @ N.Y.Q.
Pb: 66%.	90% of wet assay, @ N.Y.Q.
	- 1.25¢ (no change after
	raise in freight rates)
Fe: 1-2%.	10¢ per unit.
CaO: 4%.	6¢ per unit.
	Charges.
Insol. 1-2%.	10¢ per unit.
S: 6-7%.	\$2.00 flat if over 7%.
Treatment.	45% Pb. base, nothing. 10¢
	bonus or penalty, up or
	down.
Hauling, mine to Indian Springs, 65 miles, \$6.50	
Freight, Indian Springs to Midvale, \$11.10 (before raise)	



Suggested Procedure and Form of Free
Option on Properties at Groom,
Nevada.

1. It is essential to the interest of all involved that assignable options be granted by owners of:
 - (a) Groom Mine group, seven unpatented claims held by:
C. M. Poncin of Seattle (1/2 interest)
Pat Sheehan (more than 1/6)
Chas. D. Osborne of Pioche (1/6)
Wheatley family of California.
 - (b) Groom South End Mining Co., owner of three patented claims, 1 patented fraction, and 3 locations.
 - (c) Group under option to John Weller (and others located by him) - some six or more claims owned by:
Joe Fuestch of Goldfield,
Mrs. Woods of L. A.
Ed Lane.
2. Options on the above groups to be on royalty terms and purchase prices about as follows:
 - (a) Groom mine group - \$50,000.
 - (b) Groom South End Mining Company's ground - \$30,000.
 - (c) Weller's Group - \$40,000.
3. Optionee to have four months from date of assignment of option for examination without obligation or cost to him.
4. On first day of fifth to tenth months inclusive optionee to pay owners rentals as follows:
 - (a) Groom Mine - \$50.
 - (b) Groom South End - \$50.
 - (c) Weller, et al - \$50.

Above rentals may be waived at option of optionors in favor of minimum work requirement of 60 man shifts each month, done whenever on combined properties seems best to optionee.

5. On first day of eleventh to seventeenth months, inclusively, optionee to pay optionors as monthly rentals as follows:

- (a) Groom - \$75.
- (b) Groom South End - \$75.
- (c) Weller, et al. - \$75.

or at optionors election perform in lieu of each such monthly rental payment four man shifts labor per month or make equivalent expenditures thereto in work on the ground.

6. On first day of eighteenth month optionee may pay to optionors difference between following respective sums and all payments made prior to 18th month as either rentals, royalties or otherwise:

- (a) Groom - \$2000.
- (b) Groom South End - \$2000.
- (c) Weller, et al - \$2000.

7. Balance of purchase price to be paid in instalments of not less than \$2500 to each of the optionors each six months thereafter - but all interim payments, royalties, rentals or otherwise to apply as credits upon each next succeeding installment.

8. Royalties as follows assessed against net smelter returns to be paid on all ores shipped and to apply as credits upon the contract and purchase of the property whence they are removed:

Schedule for Shipping Ore:

\$ 0 - \$20.00	10%	of N. S. R. after deduct'g frt. & haulage
20 - 30.00	12%	Ditto
30+	15%	Ditto

Schedule for Concentrates:

\$ 30 - \$50.00	10%	Ditto
50+ -	15%	Ditto

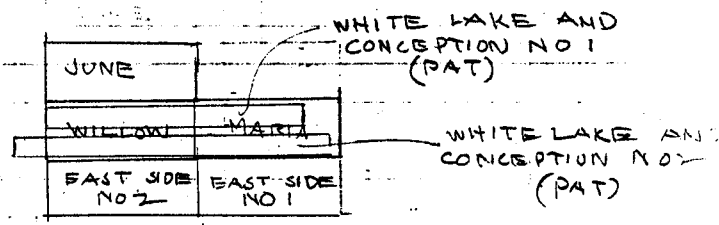
9. Contracts to be cancellable by optionee on 30 days' notice or by optionors in event of default by optionee 30 days after giving optionee written notice of such default - unless optionee take proper steps in the 30 day interim to remedy said default.
10. Optionee to have right of removal of all machinery, portable buildings, and personal property in event of cancellation of contract.
11. Optionors to have access to property and records of shipments at any convenient time upon written request therefor.
12. If optionee wish, in accordance with good engineering practice, to simplify his record keeping and his operating and sampling procedure after the eighteenth month he may assign all his contracts to an operating company, which may pay royalties as described above on its production as a whole to an agent nominated by him and approved by the optionors or in lieu thereof to any established, independent and competent bank, which agent shall be herein empowered by the terms of this contract to receive and distribute royalties or other payments to one or more or all of the several optionors whose contracts with optionee remain in effect[^]uncancelled. Said agent shall pay such royalties ~~as~~ received in lump sum from the combined production of the optionee's operation and pay them out pro-rata to optionors according to their proportionate interest in the total purchase price of \$120,000 set upon these several properties, sie:

To Groom group a 5/12

To South End a 3/12

To Weller, et al a 1/4 portion of each and all royalty payments.

13. All contracts to be implemented with the usual provisions protecting each party from unfair liabilities and providing for proper maintenance of the now existing improvements.



See Norman
Boyle 2000

Most of work on Maria

Groom line

33.33

170
ITEM 148

brads

fur

1 - B3	N 23 W	111 (109.2)✓	+10 $\frac{1}{2}$ (+120.2)✓ 1020	+100.5✓ 1037	-42.7✓ 947
B3 - B2	N 17 E	100 (98.5)✓	+10 (+17.4)✓ 1038	+94.2✓ 1132	+28.8✓ 975
B2 - B1	N 20 E	100 (98.6)✓	+9 $\frac{3}{4}$ (+16.9)✓ 1055	+92.6✓ 1224	+33.7✓ 1001 EOL
<u>Open Cur</u>					
14 - 15	S 51 $\frac{1}{2}$ W	100 (96.8)✓	-14 $\frac{1}{2}$ (-25.0)✓ 925	-60.3✓ 779	-75.8✓ 774
15 - 16	S 33 W	100 (99.0)✓	-08 (-13.9)✓ 911	-83.0✓ 142	-53.9✓ 720
16 - 17	S 07 W	100 (99.9)✓	+03 (+5.2)✓ 917	-99.2✓ 93	-12.2✓ 708
17 - 18	S 01 W	100 (99.3)✓	-07 (-12.2)✓ 904	-99.3✓ (-2)	-1.7✓ 706
18 - 19	S 00 $\frac{1}{2}$ W	100 (99.1)✓	-07 $\frac{1}{2}$ (-13.1)✓ 901	-99.1✓ -105	-1.2✓ 705
19 - 20	S 03 $\frac{1}{2}$ E	100 (98.2)✓	-11 (-19.1)✓ 877	-98.0✓ -203	+6.0✓ 718
20 - 21	S 04 $\frac{1}{2}$ E	100 (98.2)✓	-11 (-19.1)✓ 853	-97.9✓ -300	+7.7✓ 714
21 - 22	S 03 W	70 (69.9)✓	-4 $\frac{1}{2}$ (-5.5)✓ 848	-69.7✓ -377	-3.7✓ 715
22 - foh	S 08 E	81 (81.0)✓	-02 (-2.8)✓ 845	-80.2✓ -457	+11.3✓ 726
0 - f	S 00 $\frac{1}{2}$ W	107 (107.0)✓	-01 (-1.9)✓ 843	-107.6✓ -558	-.9✓ 726

885

Room Nine = Nevada =

Meridian

	Course	Dist	Vert.		1000.0	1000.0
A						
A - 1	S 12 W	64 $\frac{1}{2}$	EL = 1000 $\frac{0}{0}$		-63.1 \checkmark	-13.4 \checkmark
					937	987
1 - 2	S 71 $\frac{1}{2}$ W	82	0		-26.0 \checkmark	-77.8 \checkmark
					911	909
2 - X	X S 30 $\frac{1}{2}$ W	100 (97.7) \checkmark	-12 $\frac{1}{4}$ (97.9) (-21.2) \checkmark		-84.2 -84.6 827	-49.6 -49.8 856
2 - 3	S 61 W	100 (98.3) \checkmark	-10 $\frac{3}{4}$ (-18.7) \checkmark		-47.7 \checkmark 981	-86.0 \checkmark 872
3 - 4	S 43 $\frac{1}{4}$ W	100 (99.8) \checkmark	-09 (-15.6) \checkmark		-72.0 \checkmark 946	-67.7 \checkmark 955
4 - 5	X S 51 $\frac{3}{4}$ W	100 (99.5) \checkmark	-06 (-10.5) \checkmark		-41.6 -41.8 955	-18.1 -18.7 677
5 - 6	S 54 $\frac{1}{2}$ W	100 (99.3) \checkmark	-07 (-12.2) \checkmark		-57.7 \checkmark 943	-80.8 \checkmark 543-596
6 - 7	S 57 W	100 (98.8) \checkmark	-08 $\frac{3}{4}$ (-15.2) \checkmark		-53.8 928	-82.9 513
7 - 8	S 60 $\frac{1}{2}$ W	100 (95.2) \checkmark	-17 $\frac{3}{4}$ (-30.5) \checkmark		-46.9 \checkmark 897	-82.9 \checkmark 430
8 - 9	S 76 $\frac{3}{4}$ W	64 (62.0) \checkmark	-14 $\frac{1}{4}$ (-15.8) \checkmark		-14.2 \checkmark (882) 557.0	-60.4 \checkmark 346-370
X						
X - 10	S 03 W	100 (99.0) \checkmark	-08 (13.9) (965)		-98.9 \checkmark 728	-5.2 \checkmark 884-854
10 - 11	S 06 E	100 (99.7) \checkmark	-4 $\frac{1}{2}$ (-7.9) (957)		-99.2 \checkmark 629	+10.4 \checkmark 864
11 - 12	S 03 $\frac{1}{2}$ E	100 \checkmark (99.9)	-2 $\frac{1}{2}$ (-4.4) (953)		-99.7 \checkmark 529	+6.1 \checkmark 897
12 - 13	S 03 W	100 (100.0) \checkmark	+1 $\frac{1}{2}$ (+2.6) (955)		-99.9 \checkmark 429	-5.2 \checkmark 865
13 - 14	S 09 $\frac{1}{2}$ W	95 (94.1) \checkmark	-03 (-5.0) (950)		-93.6 \checkmark 429	-15.7 \checkmark 846-950

Labor: None obtainable locally. Utah wage scale is used.

Topography. The mine is situated on a 10 degree mountain slope, at an elevation of 900 ft. above the neighboring valley. and hence is capable of deep development by tunnel.

Geology: The Tem Piute Range, in which the property is located, consists of ~~sedimentary rocks~~ Palaeozoic sediments, - limestones, shales and quartzites, dipping easterly at angles ranging from 25 degrees to the vertical. Igneous rocks are reported to exist in the range, but none were observed during the examination. In the near vicinity of the Groom mine, the formations consist of a thick series of ~~shales~~ easterly dipping shales, quartzites and limestones, of Cambrian, or possibly Algonkian age. The stratigraphic sequence is shown in the accompanying cross-section.

A. Seven thousand feet of ~~shales~~ shales, ~~alternating with~~ containing several narrow beds of impure limestones, dipping easterly at angles from 30 degrees to the vertical.

B. ~~3000~~ Impure, nodular gray shaly limestone, dipping easterly at 25 degrees. 30 ft. ~~3000~~

C. Thinly bedded, gray sh, greenish and purple shales, dipping easterly at 30 to 60 degrees. Mineralized in places.

D. Gray limestone, much colored by limonite in places, dipping easterly at 60 degrees. 8 ft. (Known locally as the "west Split")

E. ~~Thin-bedded reddish shales~~ Thin-bedded reddish shales, passing up into blocky, yellowish calcareous shales, dipping easterly at 60 to 70 degrees. 130 ft. Mineralized in places.

F. Grayish limestone, thin-bedded with a few ~~intercalated~~ ~~shales~~ intercalated narrow shales beds on the margin, ~~massive~~ thick-bedded and massive in the center; abundantly streaked with small calcite seams, some of which are stained with limonite. On eastern contact, is much decomposed in places, and appears to be water-channel. Dips easterly at 70 degrees. 100-175 ft. thick. Groom, LS

G. ~~Thin-bedded reddish shales and quartzites~~ Principal locus of mineralization in the Groom mine, and contains all the commercial ore so far discovered.

G. Series, several thousand feet in thickness, of ~~thin-bedded~~ thin-bedded reddish shales and quartzites.

There have been two periods of mineralization in the Groom district. During one period, large fracture zones were formed, through which silica charged solutions circulated, silicifying the country rock, and forming bold-craggy outcrops, of quartz and silicified country rock which simulates quartzite in its appearance. This circumstance, together with the ~~fact~~ fact that the long axis of these silicified areas is usually with the strike of the sedimentary beds, accentuates the resemblance to quartzite outcrops. pseudo-quartzites or false-quartzites. In places these ~~silicified~~ silicified masses or "pseudo-quartzites" contain small values amounts of silver or copper, but no commercial bodies have yet been discovered. What relationship, if any these period of mineralization has to the period now to be described is not apparent.

The other period of mineralization is connected with fissures which were formed. Most of these fissures appear to be of small displacement, and as narrow and inconspicuous. The fissures are narrow and inconspicuous and most of them appear to be of small displacement. They strike in various directions, and dip at angles varying from 10 to 70 degrees. Two series of fissures

is simple, it will be possible to work the property profitably Owing to the fact that the ore is high-grade, and that the metallurgy it is, however, practical at present metal prices. The most serious drawback, however, is the transportation problem, as the nearest railroad station is 65 miles distant. Mr Muir, etc. Tonopah, Nevada, June 1.

I have examined the Groom and Urania mines, and will reach the Simon mine tomorrow.

I consider the property well worthy of consideration, whenever Groom Mine. our company is prepared to consider properties. This property is situated in sedimentary rocks, limestone, shale and quartzite., traversed by fissures. Where the country rock at this property consists of steeply dipping limestones shales, and quartzites, which are traversed by a number of fissures. Where these fissures cross certain beds, notably one thick beds of limestone, bodies of high-grade argentiferous lead have been formed. Where these fissures traverse one certain bed of limestone, about 175 ft. thick, bodies of argentiferous lead have been formed. All the ore so far mined, consisting about 5,000 tons from which net which of 55% Pb. ore, which has yielded net smelted returns of over a quarter of million dollars, has been derived from one ore-shoot, within one hundred feet of the surface. This particular ore shoot appears to be nearly exhausted, but the evidence in favor of the existence of other ore-shoots is very encouraging. The property is while practically still in the prospect stage, as the shaft is only 200 ft. deep, and only a few feet of drifting has been done below the 100 ft. level, is one of unusual promise.

As you may recall Urania property. This is the mine, near Tonopah, which was referred to you some weeks ago by Mr. A.P. Anderson. Mr. Anderson obtained the impression from the owner that it contained considerable bodies of ore that would average 3% to 5% copper, and 10 to 20 ounces silver, with a few dollars in gold. The character of the property however was. The owner, however, is a "specimen bug", and all the assays he quoted to Mr. Anderson represent simply selected specimens. I doubt if a ton of merchantable ore is exposed in the property. The fact that it has been although it has been held 15 years and over 2,000 ft. of development work done, no shipments have ever been made, and there is not a ton of ore on the dump is significant. I doubt if a ton of merchantable ore could be collected in all the mine workings. The "ore-bodies" consist of silicified zones in eruptive rocks, - these silicified zones in places carrying pyrite and minute amounts of other sulphides. The workings are at about the water level, and the pyrite is in places coated with thinly with sooty chalcocite, forming a zone of secondary enrichment. The primary ore is probably very lean. The silver values are spotted and usually very low. There is nothing to warrant the expectation that the property will improve in depth. A more complete report will be submitted on my return. and I do not consider it worthy of further consideration.

(176)

ITEM 14G

Name - Nevada Silver Lead Company - Incorp - M. E. Shannon ^{Brooklyn, Tex.}
M. S. Whitacre ^{San Antonio, Tex.} Roger Foley ^{and see for Texas}
1000 000 share par \$1.00 - 400 000 share to Whitacre & Shannon
600,000 treasury stock.

- Groom - 5 patented 3 location -
Lease & mine on Armstrong (Southern Groom) 3 claim + 1 trace all patented
covering about 1 1/2 miles back group.

Est = \$800 per ton crude ore - 90% concts - 80% supplies.
Parent mgt. took over Groom 4 months.

[Faint, illegible handwritten notes]

- mikroskopischer Tag 2 - merke -

1. *Chrysomelidae* (beetles) - 100%
 2. *Curculionidae* (weevils) - 100%
 3. *Chrysomelidae* (beetles) - 100%
 4. *Curculionidae* (weevils) - 100%
 5. *Chrysomelidae* (beetles) - 100%
 6. *Curculionidae* (weevils) - 100%
 7. *Chrysomelidae* (beetles) - 100%
 8. *Curculionidae* (weevils) - 100%
 9. *Chrysomelidae* (beetles) - 100%
 10. *Curculionidae* (weevils) - 100%

- Glass top - one above not my egg # Ref
interior & exterior have been from several

1. Depth
2. Location
3. Time
4. Area
5. Water level
6. Tides
7. Wind
8. Current
9. Visibility
10. Weather
11. Temperature
12. Humidity
13. Pressure
14. Clouds
15. Precipitation
16. Wind direction
17. Wind speed
18. Wave height
19. Wave period
20. Wave direction
21. Wave frequency
22. Wave energy
23. Wave power
24. Wave force
25. Wave pressure
26. Wave stress
27. Wave strain
28. Wave displacement
29. Wave velocity
30. Wave acceleration
31. Wave deceleration
32. Wave momentum
33. Wave impulse
34. Wave torque
35. Wave angular momentum
36. Wave angular impulse
37. Wave angular velocity
38. Wave angular acceleration
39. Wave angular deceleration
40. Wave angular momentum
41. Wave angular impulse
42. Wave angular velocity
43. Wave angular acceleration
44. Wave angular deceleration
45. Wave angular momentum
46. Wave angular impulse
47. Wave angular velocity
48. Wave angular acceleration
49. Wave angular deceleration
50. Wave angular momentum
51. Wave angular impulse
52. Wave angular velocity
53. Wave angular acceleration
54. Wave angular deceleration
55. Wave angular momentum
56. Wave angular impulse
57. Wave angular velocity
58. Wave angular acceleration
59. Wave angular deceleration
60. Wave angular momentum
61. Wave angular impulse
62. Wave angular velocity
63. Wave angular acceleration
64. Wave angular deceleration
65. Wave angular momentum
66. Wave angular impulse
67. Wave angular velocity
68. Wave angular acceleration
69. Wave angular deceleration
70. Wave angular momentum
71. Wave angular impulse
72. Wave angular velocity
73. Wave angular acceleration
74. Wave angular deceleration
75. Wave angular momentum
76. Wave angular impulse
77. Wave angular velocity
78. Wave angular acceleration
79. Wave angular deceleration
80. Wave angular momentum
81. Wave angular impulse
82. Wave angular velocity
83. Wave angular acceleration
84. Wave angular deceleration
85. Wave angular momentum
86. Wave angular impulse
87. Wave angular velocity
88. Wave angular acceleration
89. Wave angular deceleration
90. Wave angular momentum
91. Wave angular impulse
92. Wave angular velocity
93. Wave angular acceleration
94. Wave angular deceleration
95. Wave angular momentum
96. Wave angular impulse
97. Wave angular velocity
98. Wave angular acceleration
99. Wave angular deceleration
100. Wave angular momentum

[illegible]

170

ITEM 1414

ASSAY CERTIFICATE

Hand
Sample Serial.....

69234-277

UNION ASSAY OFFICE, INC.

M. S. HANAUER, Pres.
J. V. SADLER, V.-Pres. & Treas.
A. C. SELBY, Secretary

Telephone Wasatch 1199

Salt Lake City, Utah

Mine R. J. Hendricks

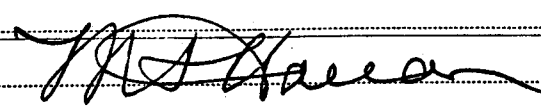
September 18, 1929

RESULTS PER TON OF 2000 POUNDS

NO.	CLASS	GOLD Ozs. per Ton	VALUE GOLD	SILVER Ozs. per Ton	LEAD Per Cent	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent
1-		Trace		5.1	27.3			None		2.7		
2-		Trace		5.5	28.1			None		2.9		
3-		None		None	None			None		1.7		
4-		Trace		Trace	None			None		2.5		
5-		None		None	None			None		1.6		
6-		None		None	None			None		2.9		

Remarks.....

Charges \$.....



ASSAY CERTIFICATE

Hand
Sample Serial.....

69234-277

UNION ASSAY OFFICE, INC.

M. S. HANAUER, Pres.
J. V. SADLER, V.-Pres. & Treas.
A. C. SELBY, Secretary

Mine R.J. Hendricks

Telephone Wasatch 1199

Salt Lake City, Utah

September 18, 1929

RESULTS PER TON OF 2000 POUNDS

NO.	CLASS	GOLD Ozs. per Ton	VALUE GOLD	SILVER Ozs. per Ton	LEAD Per Cent	COPPER Per Cent	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	LIME Per Cent	Per Cent
1-		Trace		5.1	27.3			None		2.7		
2-		Trace		5.5	28.1			None		2.9		
3-		None		None	None			None		1.7		
4-		Trace		Trace	None			None		2.5		
5-		None		None	None			None		1.6		
6-		None		None	None			None		2.9		

Remarks.....

Charges \$.....

M. S. Hanauer

September 14th, 1929.

Mr. W. H. Eardley,
U.S.S.R. & M. Co.,
Building.

Re: GROOM MINE, LINCOLN COUNTY, NEVADA.

Dear Sir:

I visited the Groom Mine on September 5th and 6th, for an examination of the development work on the lower tunnel level, and to determine the advisability of recommending the construction of a mill. I found that one of the less important of the productive fissures exposed in the upper workings had been cut by the lower tunnel, but without disclosing mineralization that approaches commercial grade and width, and it was impossible to obtain a mill test sample from the present showing.

~~It is therefore not deemed expedient to recommend the construction of a milling plant at this time. It will~~ probably be necessary to drift about 300 feet northerly before the main ore shoot may be expected; then if development of the shoot results favorably, a mill would be justified.

At the present time, operations at the mine are confined to a small amount of relatively unimportant development work, and no determined effort is being made by the present operators to push the work in what appears to be the most important and promising faces. ~~Instead~~ the management is concentrating ~~their~~ efforts toward arranging a profitable disposal of the property.

Very truly yours,

Robt. J. Hendricks.

(170)
ITEM 14 J

September 11th, 1929.

Campbell & Powers,
336 H. W. Hellman Building,
Los Angeles, California.

Dear Sirs:-

Mr. Hendricks visited the Groom Property, returning here last evening. Mr. Hendricks advises that in his opinion there is not yet sufficient ore developed to justify building a mill. He states that the lower tunnel has intersected the fissure along which the ore makes but that it will probably be necessary to drive North about 200 feet to get under the ore shoot developed on the upper level. Mr. Hendricks is very favorably impressed with the property and its possibilities and is of the opinion that the ore shoot will be encountered on the lower level when the drift has been extended as suggested above. He thinks that all efforts should be at this time concentrated on the development of ore rather than on the building of a mill. Later when sufficient ore has been developed to justify a mill we will then be pleased to make tests on the ore as then exposed and give you our suggestions regarding the proper flow sheet and equipment for the handling of the product.

If there is any further service we can render at this time, kindly advise.

Yours very truly,

WHE:H

(170)

ITEM 14K

ESTIMATE FOR 26 MILE RAILROAD

Gauge 36". Maximum grade 3% with loads. Grade compensation for curves.

TRACK AND GRADE

Rail - 1,700 gross tons 40# rail at \$91.30

\$ 155,210

UNITED STATES SMELTING, REFINING AND MINING COMPANY
MIDVALE SMELTER AND MILLSDOWNIE D. MUIR, JR., GENERAL MANAGER
W. H. EARDLEY, ASSISTANT MANAGER
E. R. GIBSON, CASHIER
M. W. WOOLLEY, ORE BUYER(170)
ITEM 14L

SALT LAKE CITY, UTAH

August 28th, 1929.

Mr. Robert Hendricks,
Grand Canyon Hotel,
Lower Kaibab Forest P.O.,
Arizona.

Dear Sir:-

I have a wire from Campbell & Powers, who have an option on the Groom Property and who state that they are arranging for the construction of a 100 ton mill. They also state that the entire mine product will come to our Company on a long time contract providing ^{conversations} ~~contracts~~ satisfactory. I am advising them that you will meet them there next Wednesday or Thursday. While we ~~do~~ have a contract with Whittacher & Bohannon, which runs with the land, we have no objection to making a new contract with Campbell & Powers in the event they exercise their option, and are willing to co-operate with them in every way possible in the operation of the property. So if you will kindly use your fine Italian hand to keep everybody in a good humor, see just how the mine looks, then if necessary Woolley or I can take the matter up from there on. They are desirous, however, of having your opinion of the present development and suggestions as to future work.

While you are at the mine would suggest you take some good average samples of the freshly mined ore in the lower tunnel for flotation test, sending us about 100 lbs, as we will desire to make some suggestions as to the flow sheet and the tests made heretofore are not altogether satisfactory. In fact, most of them are table tests to see what they could do with the equipment they had.

WHE:H

Yours very truly,

W H Eardley

UNITED STATES SMELTING, REFINING & MINING COMPANY

COPY

FOR _____

August 28th, 1929.

Campbell & Powers,
336 H. W. Hellman Building,
Los Angeles, California.

Dear Sirs:-

We beg to acknowledge receipt of your wire today asking if our representative could meet you on or before September 1st.

We wired you today that Mr. Hendricks was out of town but would meet you there next Wednesday or Thursday, which we hope will be satisfactory.

We enclose you herewith copies of all tests we have made on ore from the Groom Mine. We have asked Mr. Hendricks on his visit to take good average samples of the fresh faces in the lower workings for further flotation tests. Inasmuch as you are now contemplating building a 100 ton flotation plant we think that further tests should be made and then we will be in a better position to advise you as to the flow sheet most suitable for that ore and will be pleased to figure out the economical results on different grades.

We think, therefore, that the proper method of procedure would be for you to go over the situation with Mr. Hendricks from a mining standpoint; have Mr. Hendricks send us at least 100 lbs. of the ore, on which we will make further tests, and then we can give you a proposed flow sheet showing the equipment best adapted for that work and we will lend all assistance possible in working out your

C. & P. #2.

metallurgical and geological problems.

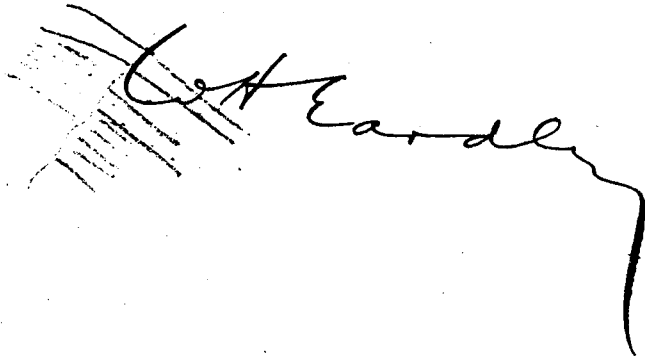
After Mr. Hendricks' visit and after flotation tests are out and we are ready to make our recommendations, it probably would be best for you to come here and go over the matter with our staff and then you will be in a position to proceed intelligently.

Yours very truly,

WHE:H

Encls.

CC: Mr. R. Hendricks

A handwritten signature in cursive script, appearing to read "C. H. Hardy". The signature is written in dark ink and is positioned to the right of the typed name "C. H. Hardy". There are some diagonal lines and scribbles to the left of the signature.

UNITED STATES SMELTING, REFINING AND MINING COMPANY

MIDVALE SMELTER AND MILLS

DOWNIE D. MUIR, JR., GENERAL MANAGER
W. H. EARDLEY, ASSISTANT MANAGER
E. R. GIBSON, CASHIER
M. W. WOOLLEY, ORE BUYER

SALT LAKE CITY, UTAH

August 27th, 1929

Mr. Robert Hendricks,
816 Newhouse Building,
City.

Dear Sir:-

Upon your return from your vacation will you kindly drop up, as we desire you to make another trip to the Groom. They have struck ore on the lower level and if it is as large as they state they will probably be justified in going ahead with a mill and parties in Los Angeles are willing to finance the mill in the event we think such a thing justified.

Yours very truly,

W. H. Eardley

WHE:H

170

ITEM 14M

ASSAY CERTIFICATE

Hand Sample Serial 64172-175

UNION ASSAY OFFICE, INC.

M. S. HANAUER, PRES.
J. V. SADLER, V.-PRES. & TREAS.
A. C. SELBY, SECY.

Mine R.J.H.

TELEPHONE WASATCH 1199
SALT LAKE CITY, UTAH

Las Vegas

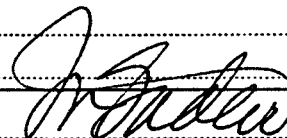
RESULTS PER TON OF 2000 POUNDS

June 18, 1929

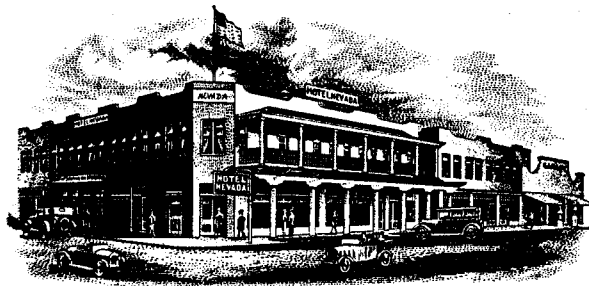
NO.	CLASS	GOLD Ozs. Per Ton	VALUE GOLD	SILVER Ozs. Per Ton	LEAD Per Cent	COPPER Per Cent Wet	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	IRON Per Cent	Per Cent	Per Cent
1-		None		0.7	3.3			None				
2-		None		2.0	13.0			None				
3-		None		None	None			None		9.3		
4-		None		None	None			None		10.2		

Remarks

Charges \$



(170)
ITEM 14N



HOTEL NEVADA AND NEVADA GARAGE
JOHN F. MILLER, OWNER

THE HOTEL NEVADA

THOROUGHLY MODERN

STEAM HEATED THROUGH WINTER MONTHS.
WITH ELECTRIC FANS IN EVERY ROOM
FOR YOUR COMFORT IN SUMMERTIME.

JOHN F. MILLER, MANAGER

OPPOSITE U. P. DEPOT

LAS VEGAS, NEVADA

Friday

Dear Sis: -

I expressed in 116th of samples to myself at the offices. These samples require some explanation before they are run for a mill test - therefore please see that they are held at the office until my return next Wednesday AM.

I found a wire here (Please tell Mr. Eardley) from Campbell & Powers of Los Angeles saying they could not meet me at the Sroom mine but asking that I wire them when I had finished. I have not done so, nor do I intend to, for I have no idea what they want to know, or ~~if I~~ Tell Mr. Eardley the mine is in no condition to justify a mill before considerable additional development has established the fact

that there is sufficient developed
and probable tonnage to justify
the expenditure. The work done since
my visit in June has not yet
developed a single additional ton
of mill ore. This briefly summarizes
the situation.

I wired you tonight saying I
would meet Calderwood at nine
o'clock next Tuesday Am for a
look at his Tintic Outpost group.

The roads down here are all
washed out — even the long
bridge across the Virgin at
Bunkerville is out. I came across it
the other night after dark and from
the center of the river it looked
like the Mississippi. Amprisis of
various sorts have made the past
few days rather hectic. Why a
vacation, anyway? But more anon

Sincerely

Boz

170
Type ITEM 14
0

December 26, 1923.

Mr. A. P. Anderson,
Consulting Mining Engineer,
1604 Hobart Building,
San Francisco, Calif.

Dear Sir:-

GROOM MINE, LINCOLN COUNTY, NEVADA.

Replying to your letter of December 20th. The above property has been presented to this office many times and has been examined by engineers working out from this point. While the property has its attractive features, they are not sufficiently enticing to overcome its distance from transportation. For that reason I do not believe the property is of interest to us.

I return herewith Mr. Montgomery's report with many thanks.

Yours very truly,

DDM-J

Encl.

18-0
DEC 14 1923
San Francisco, Calif.
December 10th. 1923

Mr. Downie D. Muir, Jr.
%U.S. Smelting Co.,
Salt Lake, Utah.

Dear Sir:-

Mr. L. H. Brown, 207 Russ Bldg., San Francisco, requested me to write you in regard to lead properties.

Mr. Brown stated that you were investigating lead properties but did not say whether you were seeking developed mines or prospects.

I am authorized to sell the Groom mine in southern Nevada and I believe that all the ore from this property has been shipped to your smelter in Salt Lake.

The Groom has produced \$300,000 lead-silver ore during the last five years and this from hand sorted material. This mine has reached the stage where a mill is necessary and the owners are willing to negotiate.

I have several other lead properties which are very good prospects and will be glad to take the matter up farther with you if you will so advise.

Very truly yours,

1469 Sacramento St.

R. L. Mook

Salt Lake City, Utah.

Nov. 17, 1923.

Mr. James Cashman,

Las Vegas, Nevada.

Dear Jim:

I was very sorry indeed not to have the privilege of meeting your bride and yourself, during your visit to Salt Lake, while on your wedding trip, but shall hope some day to see you in Las Vegas. It is not too late, I trust, for me to extend to you my sincerest felicitations and congratulations.

The information regarding Mr. Sheehan and the Groom mine, conveyed in your letter of Nov. 15th, is very interesting. Mr. Sheehan's estimate of 6,000 tons of ore and jig tails on the dump, averaging 18% lead and 4 oz. silver, is, I think, somewhat optimistic. However, there is a substantial tonnage present, and the property, of course, is meritorious; so that, if his proposition applies both to the dump ore and to the mine, it would be of interest, but if it is confined to the dump ore alone it would hardly be attractive.

Unfortunately, I have so much work ahead of me that it would probably be impossible to give attention to this proposition for some months; but if a suitable opportunity arises for looking into the matter later, I will be glad to let you know, providing the opportunity is still open.

Thanking you for letting me know about it, and with regards and best wishes,

Sincerely yours,

Field Engineer.

JAMES CASHMAN

AGENT FOR

BUICK AND PACKARD MOTOR CARS AND TRUCKS

FOR CLARK AND LINCOLN COUNTIES

USED CARS FOR SALE. CONTRACTOR FOR HEAVY TRUCKING

LAS VEGAS, NEVADA

November, 15, 1923

R?T.Walker
% U.S.Smelter Co.
Salt Lake City,Utah.

Dear Mr. Walker:-

I am told that Mr. Sheehan is anxious to make some kind of deal on the Groom Property. They claim to have 6,000 tons in the dump that will run 18% lead and 4 oz.in silver, and have made a concentrate test that runs 60%. I understand they will make a deal with some one to put a plant on the property, whereby they can pay for the plant from the first proceeds and then split fifty-fifty on the balance.

I am not just sure whether this pertains to the whole mine or just the dump. Knowing that you have seen the property and would probably be interested, I thought I would call your attention to it. If you are interested and want me to get any additional information, I will gladly do so.

I am sorry I didn't get to see you when we went through last summer, but we enjoyed our visit with Mrs. Walker, and hope to see you all again. Remember us to Mrs. Walker and the family.

Very Truly Yours

James Cashman

170

ITEM 14 P

TELEPHONE WASATCH 1199

Hand
Sample Serial - 93850-

ASSAY CERTIFICATE
UNION ASSAY OFFICE, INC.

Mine R.T.Walker

M. S. HANAUER, PRES.
J. V. SADLER, V-PRES. & TREAS.
A. C. SELBY, SEC'Y.
SALT LAKE CITY, UTAH

RESULTS PER TON OF 2000 POUNDS

July 31, 1922

AMERICAN PRINTERY, SALT LAKE CITY 12296

NO.	CLASS	GOLD Ozs. Per Ton	VALUE GOLD	SILVER Ozs. Per Ton	LEAD Per Cent	COPPER Per Cent Wet	INSOL. Per Cent	ZINC Per Cent	SULPHUR Per Cent	SPEISS Per Cent	IRON Per Cent	Per Cent	Per Cent
G-6	Groom mine:	Trace	Sample of jig	7.1	28.2			3.4					
			tailings, taken by Dan Sheahan.										

Remarks

Charges \$

M. S. Hanauer

(170)
ITEM 14Q

Salt Lake City, Utah,
September 27, 1922.

Mr. G. Poncin,
515 Pioneer Building,
Seattle, Wash.

Dear Sir:

I am sorry to say that I have been so occupied with other work since my preliminary examination of the Groom Mine in the early part of June of this year that I have not yet been able to prepare a report on the property for our company.

I found that the ore-bodies were formed along certain fissures where they intersected a particular bed of limestone. Outside of this limestone bed the fissures are not commercially mineralized, nor is the limestone bed mineralized as a whole, as heretofore it seems to have been mistakenly assumed. The ore-body from which practically all of the past production of the property has been derived, is in the form of a nearly horizontal pipe, replacing the limestone along one of these fissures and terminating where the fissure passes from the limestone bed into the shale that adjoins it on the west. This particular ore-body seems to be nearly exhausted, and very little ore appears to be in sight. The future of the property, therefore, depends upon the possibility of finding other ore-bodies along similar mineralized fissures in the limestone bed. I consider the chances of finding such new ore-bodies to be favorable, but

Mr. Poncin.

(2)

9/27/22

this can be determined only by actual development work, as the geological evidence is not sufficient to enable me to judge to what extent commercial ore may be expected to exist in the property.

In view of the fact that the amount of ore in sight is limited, and probably small, I would not feel warranted in recommending that our company commit themselves to any definite program of equipment and development of the property; but I believe that the possibilities are sufficiently encouraging to justify a certain amount of preliminary exploration work, upon the results of which would depend what further action was to be taken.

The best arrangement to accomplish this end would probably be to have a lease on the property under fair royalty provisions applying on ores and concentrates shipped. With such an arrangement, the program which I would recommend, would be to undertake a limited amount of exploration work, shipping such high grade ore as might be encountered and treating the low grade ore in a few power jigs, which could be installed at small cost. If the exploration work resulted in the discovery of new ore-bodies of considerable magnitude, the proposition of installing permanent mill and mine equipment and improving transportation conditions could then be considered.

If such a proposition commends itself to you, and to

Mr. Ponsin.

(3)

9/27/22

the other owners of the property, I will be glad to submit it to the attention of our company on this basis; but otherwise we would prefer to let somebody else assume the risk of developing the property, while as heretofore we would continue to give you the benefit of the best smelting terms possible on the product.

This leasing proposal, by the way, would not interfere with any other lease or leases which may be in existence at the present time.

Regretting the delay in communicating with you relative to this matter, I remain,

Very truly yours,

Field Engineer.

RTV-0

Copy to

Mr. Herman Freudenthal, Pioche, Nevada.

Mr. Ed Sheahan, Panaca, Nevada.

Mr. Chas. A. Thompson, Pioche, Nevada.

Mrs. Wm. Wheatley, 2126 9th Ave., Oakland, Calif.

170

ITEM 14R

TELEPHONE WASATCH 1199

Hand Sample Serial 92861-870

ASSAY CERTIFICATE
UNION ASSAY OFFICE, INC.

Mine R.T.W.

M. S. HANAUER, PRES.
J. V. SADLER, V-PRES. & TREAS.
A. C. SELBY, SEC'Y.

SALT LAKE CITY, UTAH
June 5, 1922

RESULTS PER TON OF 2000 POUNDS

AMERICAN PRINTERY, SALT LAKE CITY 10533

NO.	CLASS	GOLD Ozs. Per Ton	VALUE GOLD	SILVER Ozs. Per Ton	LEAD Per Cent.	COPPER Per Cent. Wet	INSOL. Per Cent.	ZINC Per Cent.	SULPHUR Per Cent.	SPEISS Per Cent.	IRON Per Cent.	LIME Per Cent.	Per Cent.
U-1	Uranium	0.020		7.7		1.72	Contact	vein	Sample	across	5'		
U-2		Trace		0.6		0.10							
U-3		Trace		5.7		0.61							
U-4		None		0.6		None							
G-1	Groom	Trace		7.0	22.6	0.15		None					
G-2		None		4.1	25.8	0.15		None					
G-3		None		12.4	29.3	0.51		0.51					
G-4		Trace		7.9	41.8	0.20		None					
G-5		None		6.8	26.4	0.20	23.8	1.96	1.3		4.3	12.6	
G-6		None		Trace									

Groom Mine:

- G-1: 5 ft. of mill ore, 35 ft. south of No. 1 shaft on main vein, east of shaft
G-2: 3 ft. across west vein in footwall cross-cut from shaft, 50' from surface
G-3: 5 ft. across stope opposite shaft on west split (?). Good ore.
G-4: 2 ft. across orebody in lower tunnel (100 ft. tunnel)
G-5: Jig shimes.
G-6: Crushed quartzite (pseudoquartzite reefs)

Charges \$

M. S. Hanauer

UNITED STATES SMELTING REFINING & MINING EXPLORATION COMPANY

CABLE ADDRESS "SMELTINGCO"

55 CONGRESS STREET

BOSTON, MASS.

PLEASE ADDRESS REPLY TO
P. O. BOX 1785
SALT LAKE CITY, UTAH

Tonopah, Nevada.
June 1, 1922.

Mr. D. D. Muir, Jr.,
General Manager, United States S.R. & M.E. Co.,
Salt Lake City, Utah.

Dear sir:

I have examined the Groom and Urania mines, and will be at the Simon mine tomorrow.

GROOM MINE. The country rock consists of steeply dipping quartzites, shales and limestones, which are crossed by mineralized fissures; and where these fissures traverse one certain member, - a thick bed of limestone, - commercial bodies of argentiferous galena have been formed. The property is still in the prospect stage, as the shaft is only 200 ft. in depth, and all the ore so far shipped, comprising about 5,000 tons of 53% Pb. ore, from which over a quarter of a million dollars net smelter returns have been realized, has been mined from one ore-shoot within 100 ft. of the surface. This ore-shoot appears to be nearly exhausted, but the indications of the existence of others are very encouraging. Dissensions among the owners and the presence of water have prevented deeper development of the property. The greatest drawback is the transportation situation, as the nearest shipping point is 60 miles distant. In view of the high-grade of the ore, however, I believe that the property can be worked profitably, and that the owners would transfer a large interest to us in return for advancing funds to suitably equip the property and to place it on a working basis. From a geological standpoint, I consider the property one of unusual merit; and whenever our company is prepared to consider properties in the prospect stage, I believe this mine will warrant further attention. A full report will be prepared on my return.

URANIA MINE. As you may recall, this is the property near Tonopah, which was referred to you several weeks ago by Mr. A. P. Anderson. Mr. Anderson obtained the impression from the owner that it contained considerable bodies of ore that would average 3% to 5% copper, 10 to 20 ounces silver, and a few dollars in gold; but I found the owner to be a "specimen bug", and that the assays quoted to Mr. Anderson represented simply selected specimens. The fact that, although the property has been worked 15 years, and over 2,000 ft. of development work performed, no shipment has been made and there is not a ton of commercial ore on the dump, is significant. The ore-bodies consist of silicified zones in eruptive rocks, carrying some pyrite and minute amounts of other sulphides. Near the water level, there has been some secondary enrichment, and the pyrite is in places thinly coated with sooty chalcocite.

Copied
and filed
in file
of
1/21/22

D.D.M.Jr. #2

6-1-22

The average ore is very low-grade, carrying a few ounces in silver, probably less than 1% copper, and a few cents in gold. I see no reason to expect any improvement in depth. A fuller report will be prepared, if you wish, on my return.

Respectfully,

R. T. Walker

Groom Mine. The country rocks consist of ~~metamorphic~~

Item 14 T

Name : Groom Mine.

Location: In the Groom mining district (unorganized) in western Lincoln Co., Nevada; at the southern end of the Tem Piute range,

At the southern end of the Tem Piute range, in western Lincoln Co., Nevada, 40 miles west of Hiko, Nevada, which is the nearest post-office, and 60 miles east of Beatty Nevada, which is the (Springdale) nearest shipping point.

Ownership: The property is not incorporated, and ~~incorporated~~ the ownership is distributed as follows:

G. Poncin (capitalist), Portland, Oregon.	1/3
Patrick Sheahan, St., Salt Lake City.	1/6
Estate of Wm. Wheatley,	
c/o Mrs. Wm. Wheatley, San Francisco,	1/6
Estate of Thos. Osborne,	
c/o Chas. Osborne, Pioche, Nevada.	1/6

Land: The property consist of a group of four patented and four unpatented lode mining claims, as per sketch map (not drawn to scale) attached.

and production.

History: The property was discovered in the '60s or '70s by Robert Groom, and later passed into the possession of the present owners. A bitterly contested suit between Mr. Poncin and the other three owners has been the origin of a long, enduring bitterness, which has much retarded the development of the property. The mine was leased by Thos. Tom McCormac, of Pioche, during 1917, 1918 part of 1916, 1917 and part of 1918, and was operated on company account, under the superintendency of Mr. Sheahan, during 1918, until the scrapping of the Las Vegas & Tonopah Railroad, over which the ore had been shipped, interrupted operation. Since then only development work on a small scale has been done. terminated operations. Since then, only development work on a small scale has been performed.

The principal ore-body extends along the strike of the massive ~~metamorphic~~ ^{igneous} rock. It extends to the surface in places, and the amount of oxidized ore is small. The sulphide ore also occurs in the gangue of the ore. The sulphide ore and pyrite. These sulphides replace the country rock, which consists of small amounts of chalcopyrite, sphalerite, argentiferous, and a finely-crystalline, steel-gray, from the point of intersection. The primary ore, consists of a thin layer of argentiferous, which however, extends for considerable distance along the strike, the dip, appears to afford, the most favorable place for mineralization. Intersection of these various fissures, both on the strike and and southerly, and dipping northerly at angles of from 50 to 70 degrees; the other striking northerly at angles of from 50 to 70 degrees; and dipping northerly and westerly. One series of fissures are most prominent in the ore-bodies: 0

NEW YORK CITY
120 BROADWAY

SAN FRANCISCO, CALIFORNIA
1504 HOBART BUILDING

SALT LAKE CITY, UTAH
900 NEWHOUSE BLDG.

PACHUCA, HIDALGO, MEXICO.
LAS CAJAS

UNITED STATES SMELTING REFINING & MINING EXPLORATION COMPANY

CABLE ADDRESS "SMELTINGCO"

55 CONGRESS STREET

BOSTON, MASS.

PLEASE ADDRESS REPLY TO

P. O. BOX 1785

SALT LAKE CITY, UTAH

Tonopah, Nevada.
June 1, 1922.

Mr. D. D. Muir, Jr.,
General Manager, United States S.R. & M.E. Co.,
Salt Lake City, Utah.

Dear sir:

I have examined the Groom and Urania mines, and will be at the Simon mine tomorrow.

Groom Mine. The country rock consists of steeply dipping quartzites, shales and limestones, which are crossed by mineralized fissures; and where these fissures traverse one certain member, - a bed of limestone 175 ft. thick, - commercial bodies of argentiferous galena have been formed. The property is still in the prospect stage, as the shaft is only 200 ft. in depth, and all the ore so far shipped - consisting of about 5,000 tons of 53% lead ore, from which net smelter returns of over a quarter of a million dollars have been realized - has come from within 100 ft. of the surface. This ore has all been taken from one ore-shoot, which appears to be nearly exhausted, but the indications of the existence of other ore-shoots are very encouraging. Deep development has been prevented, partly by water, and partly by

This property is situated in The county rock at this property consists of steeply dipping limestone shales and quartzites, which are crossed by a number of mineralized fissures. Where these fissures traverse one certain member - a limestone bed, 175 ft. thick, commercial ore-bodies of argentiferous galena have been formed. The property is still in the prospect stage, as the shaft is only 200 ft. deep, and with the exception of less than 100 ft. of drifting on the 200 ft. level, all the workings are within 100 ft. of the surface. The ore so far mined, consisting of about 5,000 tons averaging 55% lead, has been mined from one ore-body, which appears to be nearly exhausted; but the indications of the existence of other ore-shoots is very encouraging. From a geological standpoint, I consider the property one of unusual promise. Its greatest drawback, however, is the transportation problem, as the nearest railroad station is 60 miles distant. In view of the high grade of the ore, however, I believe the property can be worked profitably at present metal prices, and that the owners would transfer a large interest in it to us in return for advancing funds to suitably equip it and place it on a working basis. Whenever our company is prepared to consider properties in the prospect stage, I believe this property will be well worthy of attention. A full report will be prepared on my return. further

Facilities: ~~Transportation:~~ Before the dismantling of the Las Vegas & Tonopah Ry. in 1917, the ore was hauled by truck to Indian Springs, a station on L.V. & T. Ry., a distance of 58 miles from the mine, at a ~~contract price of \$12.00 per ton.~~ ~~At present the present shipping point is Las Vegas, a town on the Los Angeles & Salt Lake Route (on the Pacific), 103 miles distant.~~ The road is of easy grade, and is downhill most of the distance; and it is claimed that the hauling over a period of time could be contracted for \$20.00 per ton. Springdale, a siding on the Tonopah & Tidewater Ry. is 60 miles distant, but ~~there~~ there is no through road from the mine to this station; although it is claimed that Nye Co. Nevada, officials, have promised to construct such a road, if assured that the mine will operate. The following are the present freight rates on ore and concentrates in carload lots (40,000# minimum), from Las Vegas, on the L.A. & S.L. Ry., and from Springdale, on the T. & T. Ry., to Midvale:

Power: Gas and oil engines would have to be used as prime mover.

Water: ~~The mine is reported to have a flow of 25 gals per minute.~~ A spring at the mine flows 6 gals per minute. The mine is reported to yield 25 gals. per minute, when pumped; and as there is a well marked water channel nearby, it is probable that deep development work would at least double this amount. Water now stands. The present water-level in the mine is about 100 ft. from the surface. La Cuesta spring, 8.5 miles distant, is reported to have a flow capable of filling a 4" pipe.

Climate: Arid; hot in summer; cool in winter, with little or no snow. Elevation, 5300 ft.

Name: Groom Mine.

Location: In the Groom mining district (unorganized), at the southern end of the Ten Piute Range, in western Lincoln Co., Nevada; about 40 miles west of Hiko, Nevada, the nearest post-office, and 60 miles west of Springdale, a station on the Tonopah & Tidewater Railroad, ~~the nearest shipping point~~. shipping (or railroad) point.

Ownership. The property is not incorporated, and the ownership is distributed as follows:

G. Poncin, Portland, Oregon:	1/2
Patrick Sheahan, St., Salt Lake City, Utah:	1/6
Estate of Wm. Wheatley, c/o Mrs. Wm. Wheatley, cSan Francisco, Calif.	1/6
Estate of Thos. Osborne, c/o Chas. Osborne, Pioche, Nev:	1/6

Land: The property consists of a group of four patented and four... unpatented lode mining claims, as per sketch (not drawn to scale), which is attached. (sketch map of mining claims)

History and Production. The property was discovered in the late 60's or early '70s by Robert Groom, and later passed into the possession of the present owners. Litigation between Mr. Poncin and the other owners many years ago has been the source of much bitterness which has retarded the development of the property. The mine was leased by in 1915 by Thos McCormac of Pioche, Nevada, who operated it until the early part of 1918 after which it was operated on company account, under the superintendency of Mr. Sheahan, until the scrapping of the Tonopah & Tidewater Ry., over which the ore had until then been shipped, compelled a suspension of shipments. Since then, only development work on a small scale and assessment work has been performed.

The recorded production of the mine consist of the following shipment of ore and hand-jiggee concentrates to the Midvale smelter:

By Tom McCormac, Lessee.		By Company.	
1915-1917		1917.	
		Lots 1-23 only (Add lots 24-33)	
Wet tons:	2786.43		1072.81
Dry tons:	2745.285		1051.262
Au:	0.01		0.01
Ag:	16.955		15.57
Pb:	49.48		59.0
Cu:	0.53		0.51
Zn:	1.86		1.11
Fe:	2.18		1.97
Insol:	11.55		6.35
CaO:	7.80		5.88
S:	7.94		7.85
			(358.15)
			(1357.14)
			(11.63)
			(25.45)
			(45.30)
			(145.96)
			(135.35)
			(180.48)

Total net

smelter returns: \$161,013.31

\$ 67,902.16

NEVADA INDIAN SPRINGS GROOM MINE

CHIEF MINE

400
101

Scale
200' = 1"

TO

CHIEF MINE

Groom Mine Tunnel

1034-109°31'R
1001-37°43'R
948-50°55'A
902-77°44'L
883-55°22'R
858-76°34'R
835-56°36'L
810-56°38'R
794-50°17'L

End of X cut
walled

640-61°01'L
614-71°49'R
559-7°09'R
540-22°28'R
492-66°27'L
448-8°58'L
418-5°13'L
362-56°40'R
322-36°59'L
262-16°11'R
200-1°46'L

200

0. 1°30'L

Mouth
of
tunnel

Mg N. 3.00 W

It-14 V

Oakland Calif
Dec the
6

1921

Dear Mr Walker

just a few lines
to see if you had made the
Examination of the Groom Mine ^{yet}
or not I have had several talks
with Mr. Pomeroy on the Matter. he
is waiting also to hear if you made
that Desert trip. he seems to be
very Agreeable with all the talk
Concerning the New Plans that might
take Place. I suppose you meet
Mr. Sheahan once in while. now

Mr Walker I hope
to hear from you after coming
back from the mine and hope
every thing will prove Satisfactory
to you and I would like to see the
坑 down there and have a
wonderfull Mine there very close
at hand Mr. Wheatley always thought
the United States Lumber Co would
want it mine Day later see Billy
Brown and talk about the future of the mine

will close

hoping to hear from
you sometime soon as
I like to get some news
about the Mine

with kind regards
to yourself and family
I remain

yours very

sincerely

Mrs Wm H Healey

2126

7th Ave

Oakland Calif

170

Item 14 W

Salt Lake City, Utah,
November 30, 1921.

Mr. Lewis Gillett, Supt.,
Virginia Louise Mine,
Pioche, Nevada.

Dear Lewie:

I am planning on making a trip to the Groom Mine, for the purpose of a preliminary examination of that property, in about two weeks, I have not yet decided whether I will go in by way of Las Vegas or by Pioche. If the latter it would be about a four days trip, going in by way of Pahrnagat valley, where I wish to stop at Irish mountain for a few hours, and return-
RW-0
ing from Groom by way of Sharps.

Would you mind inquiring around Pioche to see for what price somebody there would undertake this trip. I am writing to you instead of to Mr. Orr because I thought there might be some private party there owning a machine not working at present who would be glad of the opportunity of making a little money, and whose price would be more reasonable than that of either of the two garages.

There would be two persons in the party, Mr. Sheahan and myself, - unless you would like to go along, in which case your company would be very welcome.

I am leaving tomorrow for Inyo County, California, from where I will retrain via the L.A. & S.L., stopping off at Las Vegas or Pioche for the trip to Groom. The substance of your

YESLER ESTATE, INCORPORATED
515 PIONEER BUILDING
TELEPHONE MAIN 478
SEATTLE, WASHINGTON

September 29th, 1921

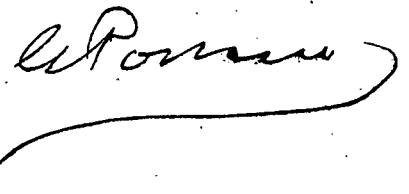
Mr. R. T. Walker,
900 Newhouse Building,
Salt Lake City, Utah.

My dear Sir:

I would like to know when you intend to take up the Groom matter. It will soon be October. In order to get anything going this year, it will be necessary to get underway soon.

I shall be glad to hear from you at your earliest convenience. I usually go to San Francisco about the middle of October, and shall probably leave here about that time. My address in San Francisco is "c/o The Pacific Union Club, San Francisco, California." My Seattle address is "515 Pioneer Building, Seattle, Washington." I would like to hear from you on this subject before I leave for California.

Sincerely yours,



GP:RA

P. O. Box 1785,
Salt Lake City, Utah,
Sept. 24, 1911.

Mr. Chas. A. Thompson,
Pioche, Nevada.

Dear Mr. Thompson:

Responding to your letter of September 21st, I wish to say that Mr. Poncin and I, after an exchange of several letters, were unable to agree upon terms upon the Groom Mine, and I finally suggested to Mr. Poncin that it might be best for me to first make a preliminary examination of the mine to determine whether or not our Company would feel justified in considering it; and if this examination resulted favorably, a meeting between Mr. Poncin and myself, for the purpose of discussing terms, could then be arranged at some mutually satisfactory place and time. The matter, therefore, stands in this way at the present time.

I am expecting to visit Groom as soon as possible; but just when this will be it is impossible for me at the present time to anticipate, as I have a lot of work on hand, and other assignments which will engage my attention for the immediate future. I shall try, if possible, to get down there sometime in October or November. I will let you know as soon as a definite date is set.

I regret very much the delay in this matter, but it has not been possible to avoid it. And in fact I believe the delay will be beneficial, since the more progress is made towards the return of normal business conditions, and towards the resumption of mining activity, the more probability there is of the property being favorably considered by our Company.

With regards, I remain,

Sincerely yours,

RTW-O

Field Engineer.

YESLER ESTATE, INCORPORATED
515 PIONEER BUILDING
TELEPHONE MAIN 478
SEATTLE, WASHINGTON

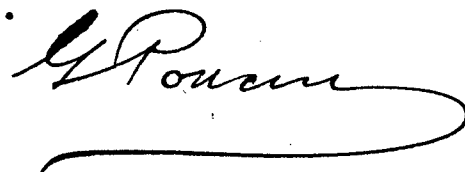
June 30th, 1921

Mr. R. T. Walker,
900 Newhouse Building,
Salt Lake City, Utah.

Dear Sir:

In reply to your letter of June 27th. If you can arrange to make your visit over the road and to the Groom in August, it would be satisfactory to me. I think it would be well if you would arrange with Mr. Patrick Sheahan to accompany you, as he knows the new proposed road. My information is that over this route conditions are favorable; good road bed material, no serious grade, and comparatively inexpensive to build. I am speaking of a wagon or truck road.

I agree with you perfectly, that much more could be accomplished by a personal meeting than by correspondence, and this could be arranged; at the same time, as soon as you are perfectly clear as to the form and details of the proposed contract, I would like to have a copy to work over and think about. Everything should be made perfectly clear in a contract that covers a period of time, and all questions that are likely to crop up during its life should be provided, and then during its progress, it will be smooth sailing.



UNITED STATES SMELTING, REFINING
AND MINING CO.

SALT LAKE CITY, UTAH

COPY.

For.....

Salt Lake City, Utah. June 27, 1921.

Mr. C. Poncin,
515 Pioneer Bldg.,
Seattle, Washington.

Dear Sir:

Your letter of June 16th has been received and has had careful consideration. It is evident that the transportation problem will be one of the main governing factors in the exploitation of the Groom mine, and as I am not personally familiar with the route of the proposed new road from the mine to the L. A. & S. L. R.R., it will probably be best for me to acquaint myself with this before proceeding further with our negotiations. I am expecting to be in Lincoln County, Nevada, sometime in August or September and can doubtless arrange to visit the Groom mine at that time, if this will be agreeable to yourself and your associates. Having acquainted myself with this feature of the latter, and having refreshed my recollection of the property, I will be in a better position to determine more definitely what proposition we would be able to submit, and would then like to arrange a meeting with you in Seattle, or some other point on the Pacific Coast, as much more can be accomplished in a personal meeting than through correspondence. Kindly let me know if this suggested arrangement will be agreeable to you. This will not, of course, interfere with your entering into any other arrangement regarding the property that you might feel disposed to do in the meanwhile.

Yours very truly,

RTW L

EXPLORATION DEPT.

YESLER ESTATE, INCORPORATED
515 PIONEER BUILDING
TELEPHONE MAIN 478
SEATTLE, WASHINGTON

June 16th, 1921

Groom

Mr. L. W. Walker,
55 Congress Street,
Salt Lake City, Utah.

Dear Sir:

In reply to your letter of June 9th. I do not think we would be willing to give a bonus of over one-third interest, regardless as to whether the amount required to develop and equip the property would be in excess of \$250,000.00 or not; of course that would depend how much in excess of that amount it would actually be, but I imagine it would require fully and perhaps a little more than \$250,000.00 to develop the property and erect a mill and build the road.

I assume that the development as to its costs, would depend largely upon the disclosures made in the progress of the work.

I do not think we would be willing to jeopardize our remaining interest in the property by reason of advances under the plan you suggest. It would be your risk to get the money you advanced out of the product of the mine. I imagine the details can be satisfactorily arranged. I have a great deal of faith in the property, and I think that depth will disclose its value.

GP:RA

Very truly yours,



YESLER ESTATE, INCORPORATED
515 PIONEER BUILDING
TELEPHONE MAIN 478
SEATTLE, WASHINGTON

*Broomfield Mine,
Lincoln Co.,
Nev.*

June 16th, 1921

Mr. R. T. Walker,
900 Newhouse Bldg.,
Salt Lake City, Utah.

Dear Sir:

In reply to your letter of June 9th. I do not think we would be willing to give a bonus of over one-third interest, regardless as to whether the amount required to develop and equip the property would be in excess of \$250,000.00 or not; of course that would depend how much in excess of that amount it would actually be, but I imagine it would require fully and perhaps a little more than \$250,000.00 to develop the property and erect a mill and build the road.

I assume that the development as to its costs, would depend largely upon the disclosures made in the progress of the work.

I do not think we would be willing to jeopardize our remaining interest in the property by reason of advances under the plan you suggest. It would be your risk to get the money you advanced out of the product of the mine. I imagine the details can be satisfactorily arranged. I have a great deal of faith in the property, and I think that depth will disclose its value.

GP:RA

Very truly yours,

A. R. Brown

copy

UNITED STATES SMELTING, REFINING
AND MINING CO.

SALT LAKE CITY, UTAH

COPY.

For.....

Salt Lake City, Utah. June 9, 1921.

Mr. C. Poncin,
515 Pioneer Bldg.,
Seattle, Washington.

Dear Sir:

Your letter of the 16th has been received and has had careful consideration and in view of the fact that our respective orbits do not seem likely to intersect in the near future, I believe that it will be well, as you suggest, to arrive by correspondence at a general understanding, which will suffice as a basis for a preliminary examination.

The participating basis which I suggested in my letter to Mr. Thompson, as an alternative to an outright purchase, and which you advise would probably be preferable to yourself and the other owners, is one which we have employed in a number of cases where the owners of the property preferred to share in the output of the mine rather than to make an outright sale. The basic principle of this arrangement is that we lend sufficient funds to thoroughly equip and develop the property, these funds being returned to us, with interest at the current commercial rate (which at present we find to be 8%), from the first operating profits. As an additional compensation we ask for a share in the property, the amount of such share being determined by the investment required, and the probable total income. In the case of the Groom mine I have assumed that an investment of \$250,000 would be required to develop the property, install mining equipment and erect a mill of suitable capacity, and it was upon the basis of a proposed investment of this amount that our additional remuneration would be a one-third interest in the property. Should it prove, on preliminary examination, that additional investment would be required to improve the present transportation facilities, we would feel justified in asking for a further proportion, dependant upon the additional investment required. We would expect to operate the property under a contract which would thoroughly protect the rights and interests of yourself and other owners; and you would be entitled, if you desire, to a local representative; and all purchases of material and sale of ore and concentrates would be conducted on a competitive basis.

If this general outline of the proposition meets with your approval, we will then undertake a preliminary examination to inform ourselves about the size and character of the mine, and to determine the probable investment which would be required. No commitment by yourself and the other owners would be required as a

UNITED STATES SMELTING, REFINING
AND MINING CO.

SALT LAKE CITY, UTAH

COPY.

For.....

preliminary to this examination, but we would ask, if the proposition as a whole would not be acceptable, that you advise us accordingly, as we would not wish to go to the expense of making a preliminary examination if there is no reasonable prospect of further negotiations being conducted on the basis of the general proposition outlined.

I am sorry to say that owing to the large number of examinations already scheduled it will probably be impossible for me to visit Groom in any event before sometime in August; so that if you have other opportunities of handling the property before that time, I would suggest that you do not postpone them on our account.

Yours very truly,

RTW L

EXPLORATION DEPT.

YESLER ESTATE, INCORPORATED

515 PIONEER BUILDING

TELEPHONE MAIN 478

SEATTLE, WASHINGTON

May 16th, 1921

R. G. Walker,
U. S. Smelting Refining & Mining Ex. Co.,
900 Newhouse Building,
Salt Lake City, Utah.

Groom
Mine

My dear Sir:

In reply to your letter of May 3rd. I expect to be here during the month of June. I shall leave here for the South in a few days and return about the first.

I have a copy of your letter to Mr. C. A. Thompson of April 13th. I think the third paragraph or alternative proposition is likely to be the most acceptable to the Pioche owners. I think the interest, 8%, is a little high. In a general way, I would be willing to entertain such a proposition, providing, the details of the agreement are satisfactory. I would not care to commit myself until I know just what they are. Since you do not wish to commit your company definitely until after the lapse of a year or two, at the same time, it would be necessary for us to know what you propose to do during that period of time, and I assume that you would want to know what you could do under the agreement after your examinations had been completed, hence, I assume this would mean a contract covering the entire transaction from beginning to end. If you will dictate such an agreement and send me a copy of it, we could take up the matter for a serious consideration, and soon determine our conclusions. It seems to me that would be a good course to pursue. In the meantime, you can perhaps arrange with Mr. Sheahan for the preliminary examinations.

Very truly yours,

GP

GP:RA

(Copy)

San Francisco Cal.
April 26, 1921.

Mr. H. E. Freudenthal,
Pioche Nevada

Dear Mr. Freudenthal,--

Without committing myself, I would be inclined toward the alternative proposition, Paragraph 3, provided the details of such agreement can be worked out satisfactory. If Mr. Walker is going to the North West, and if convenient to him, I would be glad to have you arrange with him to meet me at 515 Pioneer Block, Seattle Washington between the 5th and 20th of May, when we could discuss the details, provided ofcourse that all the co-owners have signified a willingness to come in. If this is agreeable, then we could arrange the time of meeting by wire, as I cannot fix dates at this time, but I think I shall be there between the 5th and 20th.

In a contract of this kind we shall have to look into the future for the entire life of the contract and provisions ~~shall~~ should be made for any and all questions that may arise during its existence.

Sincerely yours

(Signed) G Poncain

P S I think the interest, 8%, is a little too high and I think two years is too long and should they abandon before putting up the mill and building a road, they should not be entitled to any interest in the mine or receive any money back for development nor should they be allowed to ship any ore in the meantime. If I understand ~~their~~ the object of their proposition, they will probably concede this.

Pioche Manufacturing Company

PLUMBERS, STEAM FITTERS AND SHEET METAL WORKERS

O. H. SMITH, MANAGER



AIR PIPES, TANKS AND SAFETY STACKS A SPECIALTY,
PIPE FITTING AND VALVES.

PLUMBING AND STEAM FITTING IN ALL ITS BRANCHES.
ESTIMATES GIVEN ON ALL WORK ON APPLICATION.

Pioche, Nevada.....19

UNITED STATES SMELTING, REFINING
AND MINING CO.

SALT LAKE CITY, UTAH

COPY.

For.....

Salt Lake City, Utah. April 13, 1921.

Mr. Charles A. Thompson,
Pioche, Nevada.

Dear Sir:

Responding to your request of April 12, I am submitting herewith a tentative proposition upon the basis of which our company would undertake a preliminary examination of the Groom mine, with the understanding that should such a preliminary examination result favorably we will be prepared to negotiate a definite agreement.

We would consider the purchase of the property for the sum of \$150,000, no payment to be made until we had had sufficient time, - between one to two years, - to develop and explore the mine sufficiently to assure us of the permanency of the ore body with depth. At the expiration of this given period we would, if the results were satisfactory, make a substantial payment, the remaining payments to follow in the next three years.

Or, as an alternative proposition, we would, subject again to a preliminary period of ~~exploration~~, thoroughly equip the property and erect a 150-ton concentrating mill, in return for which we would receive a one-third interest in the property. The cost of equipping the property and erecting the mill would also be returned to us with 8% interest, and this amount would be payable first from the operating profits.

While we do not desire to commit ourselves definitely until after the lapse of one or two years necessary to explore the property, and hence would not wish to make any large advances before that time, we might make a few small advances during the exploratory period to the owners of the property, where such was necessary to afford them a livelihood.

If the above proposition commends itself favorably to all of the owners, I can arrange for a preliminary examination some time in June, after my return from a trip into the north-west, which will engage me nearly the entire month of May, and will prevent an examination being made before that date. Shortly after the completion of the preliminary examination we should be able to give you a definite answer as to whether we were prepared to consider the proposition further upon the basis of the terms stipulated.

Sincerely yours,

RTW L.

EXPLORATION DEPT.

CHAS. A. THOMPSON
MANAGER

Groom

ELECTRIC MOVIES, Inc.

THOMPSON'S OPERA HOUSE

PIOCHE, NEVADA April 2, 1921.

Mr R T Walker
Salt Lake City

Dear Mr. Walker,--

Mr. Poncain has written to Mr. Schehan as follows-
"Have the Smelter submit theri proposition to us with sufficient clearness so it will in ~~it~~ itself answerany question which should suggest itself to us to ask. If they will submit such proposition so it will br perfectly clear we can then determine quickly what we will be willing to do."

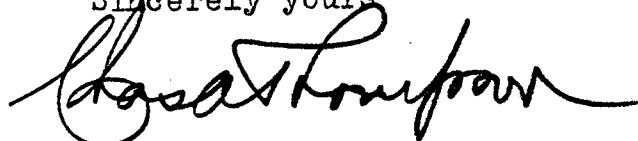
Will you kindly submit the proposition again which you think your company would entertain upon satisfactory results from the examination. The Wheatly, Osborne and Schehan interests seem to be of one mind now and Poncain is open for negotiations. From all angles it seems to be a good time to put a deal over.

I am almost directly interested as I control the first mortgage on the Osborne interestso with you would send me a copy of the proposition so I may know the progress in the matter.

There is a good deal on interest being taken in the Fairview District at the Horn Silver mine. It is too early to tell just what it will amount to but it looks good.

With kindest presonal regards, I am.

Sincerely yours



P S Mr. Freudenthal, the administrator of the Osborne estate, gave me the above information and requested me to communicate it to you so the matter is official.



UNITED STATES SMELTING, REFINING & MINING COMPANY

COPY

FOR _____

Salt Lake City, Utah. February 23, 1921.

Mr. Charles A. Thompson,
Pioche, Nevada.

Dear Mr. Thompson:

Responding to your letter of February 19th, relative to the Groom mine, we will be glad to give consideration to a proposition for the sale to us of a one-half interest in the property, represented by the Sheahan, Osborne and Wheatley interests. I wish to point out, however, that the chances of a favorable decision by our company regarding the matter are not very probable, unless a working arrangement could be entered into with Mr. Poncin also, as we do not care to operate the property without Mr. Poncin's co-operation and assent. I would recommend, therefore, that the half interest be sold to Mr. Poncin if he is desirous of acquiring it, and reasonable terms can be arranged, as we would much prefer taking up the matter with him after the ownership of the property had been thus consolidated.

Trusting therefore that you may find it possible to dispose of the Osborne interests to Mr. Poncin at satisfactory terms, I remain

Very sincerely yours,

RTW L

EXPLORATION DEPT.

FURNISHING GOODS
PATENT MEDICINES
CIGARS
LUMBER, SHINGLES
ROOFING
PAINT, GLASS, OIL
AUTOMOBILE TIRES
TUBES AND SUPPLIES

A.S. THOMPSON CO.

General Merchandise

Proprietors and Managers Thompson's Opera House

HARDWARE, GROCERIES
FLOUR, GRAIN AND HAY
POWDER, CAPS, FUSE
MINING SUPPLIES
GASOLINE
PEARL OIL
LUBRICATING OIL
CROCKERY AND GLASSWARE

PIOCHE, NEVADA Feb 19, 1921.

Mr. R. T. Walker,

Salt Lake City.

Friend Walker,--

Your favor of the 17th inst received.

Mr. Lee will not take up the Groom Matter but the Nevada interests have come to an understanding which represents 1/2 the property. They are offering to all sell to Mr. Poncin, as there seems to be a gentlemen's agreement to give him first chance and in case he does not buy you will be offered the half interest along the lines previously discussed.

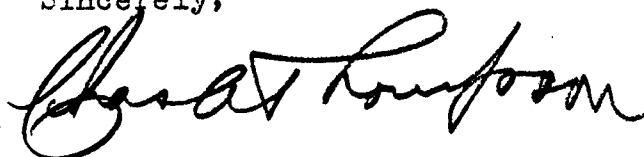
With a solid half interest at your disposal you can either get Poncin to sell or ~~can~~ proceed with the development and working of the mine without him.

The debt will have to be borne by Poncin and Schehan as the other two interests are estates and cannot be held. The debt matter can be taken care of if you make the deal.

The matter will come to a head in the next few weeks if not sooner and I would like an expression from you if you think your company would consider proceeding with 1/2 interest solid in your hands. I have different ways of getting our money but we wish if possible to see the Osbornes get their price on account of old friendship for the family.

With best regards,

Sincerely,



UNITED STATES SMELTING, REFINING & MINING COMPANY

COPY

FOR _____

Salt Lake City, Utah. Feb. 17, 1921.

Mr. Charles A. Thompson,
Pioche, Nevada.

Dear Mr. Thompson:-

Acknowledging your letter of February 7th, relative to the Groom proposition, Mr. Lee has not yet called, but I will be very glad, should he do so, to supply him with the information you suggest.

I feel satisfied that it is Mr. Poncin's intention to himself acquire the other interests as soon as he can do so, at his own terms, and that he will block any attempt to dispose of these interests elsewhere by refusing to consider any proposition for his own share. I believe, therefore, that your best hope of disposing of the mortgage is to Mr. Poncin, provided he is not too exacting in his terms. I was rather surprised to learn that the mine was in debt to Mr. Sheahan, as I had supposed that neither Mr. Sheahan nor Mr. Poncin had any power to obligate the other interests in the property for whatever expenditures they themselves might make.

With best regards, I remain

Very truly yours,

RTW L

EXPLORATION DEPT.

FURNISHING GOODS
PATENT MEDICINES
CIGARS
LUMBER, SHINGLES
ROOFING
PAINT, GLASS, OIL
AUTOMOBILE TIRES
TUBES AND SUPPLIES

A.S. THOMPSON CO.

General Merchandise

Proprietors and Managers Thompson's Opera House

HARDWARE, GROCERIES
FLOUR, GRAIN AND HAY
POWDER, CAPS, FUSE
MINING SUPPLIES
GASOLINE
PEARL OIL
LUBRICATING OIL
CROCKERY AND GLASSWARE

PIOCHE, NEVADA Feb 7, 1921.

Mr. R. T. Walker,

Salt Lake City.

Dear Mr. Walker,--

The Bank of Pioche has a second motrgage on the Osborne interest in Groom and we are trying to sell the first mortgage to the Bank. Mr. Lee will probably call on you as he is going to Salt Lake today and any encouragement you can give him in the event that he can bring the different interests together to sell or work the mine along the lines previously offered, will help me to sell the first mortgage and will be greatly appreciated by me as I happen to need the money this sale will bring.

Mr. Lee has a good chance to put over a deal on account of the mine being slightly in debt to Schahan, about \$5,000.00 and some of the interests cannot meet their part of this or their part to develop futher and from all angles there never was a more favorable time to get these intereess together and Mr. Lee if gets the right encouragement will try, I think.

Thanking you in advance for your co-operation and with best regards, I am,

Sincerely yours,



UNITED STATES SMELTING, REFINING & MINING COMPANY

COPY

FOR _____

Salt Lake City, Utah. January 17, 1921.

Mr. C. A. Thompson,
Pioche, Nevada.

Dear Sir:-

I had another session with Mr. Sheahan regarding the Groom property, and made him an alternative proposition, whereby we would advance funds sufficient to develop the property, erect a concentrating mill, and purchase all other mining and camp equipment, the operating profits, after re-payment of this advance, to be divided 50-50 between ourselves and the owners.

Mr. Sheahan wired this proposition to Mr. Poncin, and has today received a reply in which Mr. Poncin intimates that he would prefer to acquire the other interests before considering this proposition. It is evident that Mr. Poncin proposes to eliminate the other interests before he will consent to any proposition regarding the property, and as Mr. Sheahan is disposed to work with him, as apparently that is the only way that a livelihood for himself can be assured, there seems little use for our company to press the matter further, as there will be no use for us to acquire the Wheatly and Osborne interests, without having some working arrangement, at least, with the balance of the owners.

I am writing this so that you may know what position we take. We are ready to proceed with an examination based on either alternative, - purchase of the property for \$150,000, or operation of it on a participating basis; but as previously stated, it will be necessary to have the consent of all the owners to either arrangement.

Yours very truly,

RTW L

EXPLORATION DEPT.

UNITED STATES SMELTING, REFINING & MINING COMPANY

COPY

FOR _____

Salt Lake City, Utah. Jan. 12, 1921.

Mr. Patrick Sheahan;
140 4th East Street,
Salt Lake City, Utah.

Dear Mr. Sheahan:-

Mr. Thompson has forwarded your note to me, and I will be glad to see you at any time this week. I would suggest that you call me up and arrange a meeting, as I am apt to be in and out of the office at any time.

Yours very truly,

RTW L

EXPLORATION DEPT.

If there is anything more
you would want to write to
address me tell me
140-4th East 2nd
Salt Lake City

Very truly yours

Patrick Sheahan

FURNISHING GOODS
PATENT MEDICINES
CIGARS
LUMBER, SHINGLES
ROOFING
PAINT, GLASS, OIL
AUTOMOBILE TIRES
TUBES AND SUPPLIES

A.S. THOMPSON CO.

General Merchandise

Proprietors and Managers Thompson's Opera House

HARDWARE, GROCERIES
FLOUR, GRAIN AND HAY
POWDER, CAPS, FUSE
MINING SUPPLIES
GASOLINE
PEARL OIL
LUBRICATING OIL
CROCKERY AND GLASSWARE

PIOCHE, NEVADA Jan 10, 1921.

Mr. R. T. Walker,

Salt Lake City.

Dear Mr. Walker,--

Your's of the 4th came the other day while I was indulging in a small sick spell. Feeling better but a little giddy.

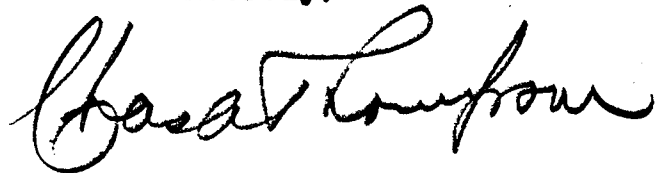
Mr. Shrahan is in Salt Lake I had two letters from him in which he evades the issue by saying "he did not think that Mr. Ponceain would join the deal". I had a very frank talk with him and suggest that you see him and try and out line a definite deal of the Nevada owners interest than you can go see Mr. Ponceain yourself. I also think that if you can arrange for some payments so that Shahan can see some cash coming in you can win him over. Kindly ~~for~~ go for him as he is the real stumbling block and he can be handled.

No one is going to put up any money to run the mine so now is the best time to go for Shahan. Ponceain is not a miner and as the time has arrived to put up it is the time to get a deal out of him also.

His address is 140 4th East St.,

Hoping you can make a deal, I am ,

Sincerely,



UNITED STATES SMELTING, REFINING & MINING COMPANY

COPY

FOR _____

Salt Lake City, Utah. Jan. 4, 1921.

Mr. C. A. Thompson,
Pioche, Nevada.

Dear Mr. Thompson:-

I am returning herewith the list of the Virginia Louise stockholders, which you so kindly lent me, and for which I wish to express my thanks.

Mrs. Brown was in the office a few days ago, and talked over with me the proposition of our taking an option on the Groom. I told her that I had not yet heard from Mr. Sheahan, who had promised to see Mr. Poncin in Los Angeles, and to let me know whether or not Poncin would consent to allow his holdings to be pooled with those of the other partners. Mrs. Brown informed me that her mother had recently received a letter from Mr. Sheahan, asking her to contribute funds to keep development work at the Groom going; in view of the fact that the treasury had been exhausted. Mrs. Brown said that she understood that the Osborne interests had been similarly approached, but had refused to contribute anything for this purpose, and that it was Billy Brown's intention to advise her mother to make the same reply, inasmuch as the only person to profit by continuing operations at Groom, in the same manner as heretofore, in their opinion, would be Sheahan.

I presume that Sheahan's hesitation in accepting our request for an option which would allow us two years for development purposes, is due chiefly to the fact that he has no other source of income excepting the salary he has been receiving at Groom. If this is the only objection in the way of our obtaining an option, and Poncin himself is agreeable, it could doubtless be arranged for us to make some advance payment to Sheahan, or in some other way to insure him some income during this period.

Yours very truly,

RTW L

EXPLORATION DEPT.

(170)
ITEM 148

December 14, 1920.

ESTIMATED COST OF 26 MILE RAILROAD IN CENTRAL NEVADA

Gauge 36" - max. grade 3 $\frac{1}{2}$ % down with loads. Grade compensated for curves.

TRACK AND GRADE

Rail - 1700 gross tons 40# rail @ \$91.30	\$155210
Angle bars 9500 pairs @ 91 $\frac{1}{2}$ ¢	8693
Track bolts 26800# @ \$7.285	1953
Track spikes 122400# @ \$5.455	6677
Ties - 72000 - 6" x 8" x 6' 6" lg @ \$1.07	77040
Switches	600
Tie plates - 60000 @ 20¢	12000
Anti rail creepers 5000 @ 35¢	1750
Grading - 128000 cu. yds. loose dirt @ 54¢	69120
Labor laying track and surfacing	94500
Bridges	15000
Total Cost of track	\$442543

BUILDINGS AND STRUCTURES

Water stations - 3 @ \$7000 (min.)	\$ 21000
Locomotive coaling stations - 2 @ \$10,000	20000
Engine house and shop	15000
Cinder pit	8000
Sand drying house	1000
Oil house	1000
Telephone system	8000
Right of Way	(?)
Total Buildings and structures	\$ 74000

ROLLING EQUIPMENT FOR OPERATING ONE TRAIN

1 Rod locomotive 2-8-0 type req'd weight on drivers 76000#	\$ 18000
15 - 10 ton ore cars	30000
1 - Water car	2000
1 - caboose	3000
Total rolling equipment one train	\$53000

December 14, 1920.

ESTIMATED COST OF 75 MILE RAILROAD IN CENTRAL NEVADA.

Gauge 36" Max. Grade 3% up with loads. Grade compensated for curves.

TRACK

Rail - 5100 gross tons 40# rail	\$91.50	\$465630.
Angle bars 28,500 pairs @ 91¢		26079
Track bolts 80,400 @ 7.285		5859
Track spikes 387200 @ 5.455		20031
Ties - 216000 - 6" x 8" x 6' 6" lg @ 1.07		231120
Switches		1800
Tie Plates 180,000 @ 20¢		36000
Anti rail creepers 15000 @ 35¢		5250
Grading 384,000 cu. yds loose dirt @ 54¢		207360
Labor laying track and surfacing		283500
Bridges		45000

Total Cost of Track

\$1327629.

BUILDINGS AND STRUCTURES:

Water stations 6 @ \$7000	\$	42000
Locomotive coaling stations 4 @ 10,000		40000
Engine houses and shops		30000
Cinder pits		16000
Sand drying houses		2000
Oil houses		2000
Telephone system		24000
Right of way		(?)

Total Buildings and Structures

\$156000.

ROLLING EQUIPMENT FOR OPERATING ONE TRAIN

Locomotive - Req'd weight on drivers		
140000# - Use two Rod locomotives 2 - 8 - 0		
type weight each on drivers 76000#		
total wt 2 locomotives 230000#	\$	36000
15 - 10 ton ore cars		30000
1 - water car		2000
1 - caboose		3000

Total rolling equipment one train

\$ 71000.

(170)

ITEM 14 Y

UNITED STATES SMELTING REFINING & MINING COMPANY
ENGINEERING DEPARTMENT

SALT LAKE CITY, UTAH

December 14, 1920.

L.D. ANDERSON
CHIEF ENGINEER

Mr. H. T. Walker,
U. S. S. R. & M. Exploration Co.,
Building.

Dear Sir:-

In reply to your recent request I am attaching herewith two estimates, one showing the approximate cost of equipment and track for a 26 mile narrow gauge railroad and the second for a 75 mile railroad that you are contemplating the construction of in the central part of Nevada.

The estimates are rough and are intended for preliminary consideration only, as we are unacquainted with the ground over which the track is to be constructed. Also we do not know the conditions governing the operation.

The estimates are based on present costs and on the following information that you gave me:-

The maximum grade will be 3% for each road. In the 26 mile line the grade will favor the loads and in the 75 mile line the grade will be against the loads.

All earthwork considered as loose earth and track built on an embankment averaging 1.5 feet above the natural ground line.

The ore handled in each case will be 100 tons per train.

You will please note that the estimates cover only enough rolling equipment to operate one train and it will be necessary for you to multiply this portion of the estimate by the number of trains that you expect to have operating at one time.

Mr. R. T. Walker - 2

If we can be of any further assistance to you in this matter
we will be pleased to have you call on us for it.

Yours very truly,



ENGINEER.

Encls.

(170)

ITEM 14 Z

ESTIMATE BY A. P. STONE FOR RAILROAD TO GROOM MINE

Gauge 36". Maximum grade 3% against loads. Grade compensation for curves.

TRACK

Rail - 5100 gross tons 40# rail at \$91.30	\$465,630.
Angle Bars 28,500 paris at 91 $\frac{1}{2}$ ¢	26,079
Track Bolts 80,400# at \$7.285	5,859
Track spikes 367,200# at \$5.455	20,031
Ties 216,000 - 6" x 6'6" lg at 1.07	231,120
Switches	1,800
Tie plates 180,000 at 20¢	36,000
Anti rail creepers 15,000 at 35 ¢	5,250
Grading 384,000 cu yds. loose dirt at 54¢	207,360
Labor laying track and surfacing	283,500
Bridges	45,000
Total cost of track - - - - -	1,327,629

BUILDINGS AND STRUCTURES

Water stations 6 at \$7000	42,000
Locomotive coaling stations 4 at \$10,000	40,000
Engine houses and shops	30,000
Cinder pits	16,000
Sand drying houses	2,000
Oil houses	2,000
Telephone system	24,000
Right of way	?
Total building and strucures - - - - -	156,000

ROLLING EQUIPMENT FOR OPERATION ONE TRAIN

Locomotive - Req'd weight on drivers 140,000# - Use	
two rod locomotive 2-8-0 type weight each on drivers	
76,000#. Total wt 2 locomotives 230,000#	36,000
15 -- 10 ton ore cars	30,000
1 -- water car	2,000
1 -- caboose	3,000
Total rolling equipment one train	71,000

Above figures are for 75 mile railroad. Earthwork is considered as loose earth on an embankment averaging 1.5 ft above the natural ground line. Ore handles 100 tons per train

UNITED STATES SMELTING, REFINING & MINING COMPANY

COPY

FOR _____

(170)

ITEM 14
AA

Salt Lake City, Utah. November 26, 1920.

Mr. Charles A. Thompson,
Pioche,
Nevada.

Dear Mr. Thompson:

Since my last visit to Pioche I have been away on a prolonged trip to British Columbia, which has somewhat delayed progress on the Groom proposition. Upon my return a couple of weeks ago, I saw Billy Brown, and also Mr. Sheahan, and laid the proposition before them. I told them that the Osborne interests could be acquired for \$20,000.00, and that if an option on the property at a total price of not exceeding \$150,000.00, could be obtained, I would recommend our company making an examination. Mr. Sheahan informed me that he expected to meet Mr. Poncin in Los Angeles shortly, and would take up the matter with him at that time.

It will be necessary, I believe, to obtain an option on the entire property before our company would consent to entertain it. I estimate that the total cost of developing the mine, constructing a new road to shorten the present haul, and erecting a concentrating mill of sufficient capacity would be not less than half a million dollars. We would want an option at the figure stated, for a period of two years, without any cash payments, as this time would be necessary for the accomplishment of sufficient development work to inform us whether or not the property is of sufficient magnitude and richness to justify so large a minimum expenditure.

I believe that the above proposition is a fair one to the present owners, and represents about the most they can ever expect to obtain for the property in its present condition, in view of its undeveloped state and the distance which separates it from the railroad.

There are only a few companies in this country of sufficient means to handle a proposition of this magnitude, and I believe that with the abundant experience this company has had in operating mines in desert sections, it is better informed and equipped for coping with the difficulties of operating a property like Groom, than most of the other large operating companies.

Thanking you for keeping the above confidential, and with personal regards, I remain

Very sincerely yours,

RTW L

EXPLORATION DEPARTMENT.

UNITED STATES SMELTING, REFINING & MINING COMPANY

COPY

FOR _____

Salt Lake City, Utah. October 12, 1920.

Mr. Chas. A. Thompson,
Pioche, Nevada.

Dear Mr. Thompson:

I have been out in the field most of the time since my return from Pioche, which has delayed my informing you as to the results of the two samples taken at the Silver King. The sample of sulphide from the tunnall assayed \$3.80 in gold, and 12 ounces silver, and the specimens taken at Mr. West's "discovery" assayed 20% in gold and 10.4 ounces silver.

I was surprised at the high silver assay of the last sample, as I did not expect it to go more than one or two ounces. This serves to show that the "black quartz" does carry silver, but in view of the very pockety and erratic nature of its occurrence, I do not believe that the matter is worth following up.

With best regards, I remain

Very sincerely yours,

170

ITEM 14
BB

TELEPHONE WASATCH 1199

Hand
Sample Serial 85830-1

SAY CERTIFICATE

Mine R.T. Walker

UNION ASSAY OFFICE, INC.

M. S. HANAUER, PRES. J. V. SABLEY, V.-PRES. & TREAS.
A. G. SELBY, SECRETARY

-- SALT LAKE CITY, UTAH.

Oct. 6th, 1920-

RESULTS PER TON OF 2000 POUNDS

NO.	CLASS	GOLD Ozs. per Ton	VALUE GOLD	SILVER Ozs. per Ton	LEAD Per Cent.	COPPER Per Cent. Wet	INSOL. Per Cent.	ZINC Per Cent.	SULPHUR Per Cent.	SPEISS Per Cent.	IRON Per Cent.	Per Cent.	Per Cent.
	Silver King No.1-	0.190		12.5									
	Silver King No.2-	0.010		10.4									

Remarks

Charges \$

M. S. Hanauer

TELEPHONE WASATCH 1199

Hand
Sample Serial 85830-1

SAY CERTIFICATE

Mine R.T. Walker-

UNION ASSAY OFFICE, INC.

M. S. HANAUER, PRES. J. V. SABLEY, V.-PRES. & TREAS.
A. D. SELBY, SECRETARY

SALT LAKE CITY, UTAH.

Oct. 6th, 1920-

RESULTS PER TON OF 2000 POUNDS

NO.	CLASS	GOLD Ozs. per Ton	VALUE GOLD	SILVER Ozs. per Ton	LEAD Per Cent.	COPPER Per Cent. Wet	INSOL. Per Cent.	ZINC Per Cent.	SULPHUR Per Cent.	SPEISS Per Cent.	IRON Per Cent.	Per Cent.	Per Cent.
	Silver King No.1-	0.190		12.5		sulphide							
	Silver King No.2-	0.010		10.4		oxidized							

Remarks

Charges \$

M. S. Hanauer

Iron Mine

Las Vegas Nev

(170)
ITEM 14
CC

July 31 - 1920

Mr. R. L. Walker

Salt Lake City

Dear Mr. Walker

Your letter of 21st inst came in
last mail 24th

I expect to be at the mine
throughout the summer. but I intend to
visit Salt Lake, the first week in August.

The road from Las Vegas is in fair
condition for this time of year.

The road from Pahrump is also passable
much better than last year. Only one
poor place near Hancock Summit

Our car Dodge, made either way in three
hours on 28th

Sincerely yours

Patrick Sheahan

UNITED STATES SMELTING, REFINING
AND MINING EXPLORATION CO.

COPY

For.....

Salt Lake City, Utah,

Salt Lake City, Utah. July 21, 1920.

Mr. Patrick Sheahan,
Groom, via Los Vegas,
Nevada.

Dear Mr. Sheahan:

It is possible that I may pay a visit to the Groom mine some time this summer, and in anticipation of this possibility I wish to enquire whether you will be there throughout the summer, and also as to the road conditions between Groom and Los Vegas and between Groom and the Pahranaagat valley, as I may have occasion to come in by either of these two ways, if either is passable by machine.

Sincerely yours,

RTW L

EXPLORATION DEPARTMENT.

SALT LAKE CITY, UTAH, June 11 - 1909.

C. E. Allen, Esq.,

Manager of Mines.

Building.

Dear Sir:-

I enclose herewith a letter and report from the Groom, Nevada, Lead Mines Company of Goldfield, respecting this property in the Groom District, Lincoln County, Nevada. The report would seem to indicate that they have a valuable property and of a grade of ore that we are especially anxious to get. Will you answer Mr. Wedekind and will you be able to look over the property at an early date?

Yours
George W. Heintz

The Groom Nevada Lead Mines Company
OF GOLDFIELD

MINES AT GROOM DISTRICT, LINCOLN COUNTY, NEVADA

Goldfield, Nevada, June 9th.....1909.

To.

Mr. W. H. Eardley

U.S. Smelting, Refining and Mining Co.

Salt Lake City Utah.

Dear sir.

Find inclosed report describing the Groom mines which you asked me for, and which I had mislaid when you were here.

It is impossible for one to realize the extent of the ore reserves from any written description, and I would suggest that you send an engineer there to thoroughly sample the mine and prove the statements contained in this report.

The terms as mentioned to you viz. \$175,000.00 for the control which includes all the property mentioned in this report, with a payment of \$40,000.00 the first of Oct. are the terms we have the property on, but after the first payment you will have the privilege of stoping all ores in sight, and shipping the same on a royalty of 20% of the net smelter returns, which same shall be the ruling rates in the open market.

The next payment does not fall due until six months after that of October, so that there is plenty of time in which to take the money out of the mine should you care to do so, in the ten months before the second payment falls due.

Figuring that you haul the ores out, you will only have to ship 4000 tons in the ten months to take out all the money you would have invested, that is \$55,000.00 or about \$2,000.00 per month, for the

The Groom Nevada Lead Mines Company

OF GOLDFIELD

MINES AT GROOM DISTRICT, LINCOLN COUNTY, NEVADA

Goldfield, Nevada, 1911

2.

work should you not care to go any stronger, and the first payment.

This would mean about thirteen tons daily for the ten months.

However after you see the property, and realize the enormous possibilities for a constant producer of lead ores and concentrates, I am certain that your company will not hesitate to develop the mines to the extent that the equipment necessary will be installed, which so far as I can figure, will be a cheap narrow guage railway, to cost not to exceed \$3500.00 to \$4,000.00 per mile equipped, and the distance will not exceed 45 miles, with a concentrating plant of about two hundred tons capacity, so arranged that additional units of one hundred tons may be added in the future.

The rails and fastenings of the old Carson and Colorado road can be had for very little money, as also the rolling stock, 36" standard narrow guage.

The mines are equipped for all prospecting and developing purposes, with tools houses for the crew, ect, and we have at present eight men developing ore, by which I mean they are working in clean ore at the station level.

Should you send a man in there and desire to have some one from this office accompany, him a letter to the writer or possibly better to Mr. L. L. Patrick requesting that he meet your man at Indian Springs on the Los Veras and Tonopah Railway, will be attended to, where a team can be had and bedding, for the road.

It will take two days on the road so that a camp will have to be made at Quartz Spring.

The Groom Nevada Lead Mines Company
OF GOLDFIELD

MINES AT GROOM DISTRICT, LINCOLN COUNTY, NEVADA

3.

Goldfield, Nevada, 190

Kindly let me hear from you in the near future as I expect to return to San Francisco in a few days, and should you man be able to leave shortly I could meet him at Indian Springs and take him in with my Automobiles saving one day.

Your company will I am sure be not dissapointed in the report, made from the present showing, and I am naming the bond price to you with very little added. Trusting to hear from you in the near future I remain.

Sincerely.

E. H. Wedekind

ROOM NEVADA LEAD MINES COMPANY

STATEMENT BY E. H. WEDEKIND, SUPT.

To Mr. L. L. Patrick, President,

Groom Nevada Lead Mines Company.

Sir:

Following your instructions, I herewith submit report covering the period of development from May to October, 1908.

LOCATION: The original patents, White Lake and Conception, and White Lake No. 2 and Conception No. 2, with the claims covering the fractions, viz., Maria and Willow, are located fifty miles due north from Indian Springs on the Las Vegas & Tonopah R. R. and two or three miles east of the Ruby Valley Guide Meridian, in Township six, south of Mt. Diablo Base line.

The mines are located in a gulch that empties into a dry lake which is four miles south of the principal workings.

ROADS: Indian Springs is reached over a very fair wagon road, via Quartz Springs, a distance of fifty miles, but a more direct route may be had via Government Tanks, thus reducing the distance at least ten miles and over a route that would eliminate all lake bottoms and sand.

COST OF HAULING: At present the cost of delivering materials to the mines via Pioche, Caliente or Indian Springs is 1 $\frac{1}{2}$ cents per pound, but the writer has made tentative arrangements to have ore hauled from the mines to Indian Springs for $\frac{10}{100}$ per ton ^{mile} and in carrying freight for \$15 per ton.

Traction engine hauling by the new Holt Manufacturing Company's machine can be done for 10 cents per ton ^{mile}, which covers all repairs and depreciation, engine using 1.08 gallons distillate or gasoline per mile, when transporting 25 tons. (See copy letter attached and photos.)

PROPERTY: The estate of the Groom Nevada Lead Mines Company consists of (see map): Groom Claims, Numbers 1 to 7 inclusive, north of the U. S. patents Numbers 37 and 38; North Star Numbers 1 and 2 west of the patents; Evening Star Numbers 1 and 2 east of the patents; and Morning Star Numbers 1, 2, 3, 4, and 6 south of the patents, all six hundred by fifteen hundred feet.

LUMBER CLAIMS: Besides the above the writer has located two groups of claims, fifty-five in all, about four miles north of Maria claim. Pinion pine and cedar in great quantity cover these claims, and cord wood may be delivered at the mine for \$2.25. All mining timbers may also be had for the cutting and hauling.

WATER: Several excellent springs furnish all necessary water for domestic purposes, at the camp, and water for mill purposes may be had by sinking at the lake level.

ORE OCCURENCE: The principal surface outcropping occurs on the north half of the U. S. patent No. 37, and the two shafts shown in the plat of underground workings were commenced on outcroppings of the least importance with the results mentioned below. If the underground development of the south end of the outcrops develops in the same ratio as the north end development, the mine is in its earliest stages.

THE PRINCIPAL OUTCROPPING of clean ore is shown over an area from the north end of the No. 37 patent to the end line of the Maria lod claim, or one thousand feet, and for two hundred feet in width.

LIME CONTACTS: The ore occurs, so far as known, on the west contact between the hard blue lime, broken lime and lime shale, bounded on the west by the quartzites. This ore zone or vein is approximately two hundred feet wide and the known width on the surface in which lead occurs is readily one hundred feet.

NORTH OR INCLINE SHAFT was started on small stringers of galena several inches only in width and was sunk vertically for forty-five feet in low grade concentrating ore of about eight per cent., a considerable portion of which is carbonate, but also shows small galena bunches. At the bottom of the vertical portion of this shaft the clean ore (galena) was encountered and the shaft was sunk on this ore to the 110-foot level. At the sixty foot point in this shaft two drifts were run on the ore streak, one north fifty feet and one south about the same distance.

All this work developed a clean ore streak from eighteen inches to thirty-six inches of forty-five per cent. lead, eighteen to twenty ounces silver and \$1.00 to \$1.50 in gold. At the 110-foot level a crosscut was driven east which developed a clean ore streak of four feet, presenting an area of one hundred and ten by one hundred feet by two feet deep, containing three thousand tons of forty-five per cent. lead ore valued at \$39.25 per ton.

By crosscutting from these small drifts, large bodies of concentrating ore will be developed equal to or exceeding the clean ore shown.

NO. 2 OR VERTICAL SHAFT, located one hundred and ten feet south of the incline shaft, total depth one hundred seventy feet, at the station level one hundred ten feet deep, was commenced on an outcropping of carbonate ore averaging thirty per cent. lead. This ore body was developed by the vertical shaft, showing ore to a depth of thirty feet below the collar, when it dipped out of the shaft to the east; continuing down the shaft to the first west crosscut fifty feet below, we have concentrating ore with clean ore at intervals. At the cross cut clean galena is encountered having the same values in lead, silver and gold as in inclined shaft. This shaft continues in this ore below the north drift, or 70-foot point, showing a body of clean ore fifteen feet between walls and along the north drift to the face, a distance of forty-five feet. (see map) In the crosscut at the 50-foot level is also seen the

clean ore, with high grade clean ore in parallel sheets dipping east, and good grade (eight to twelve per cent.) concentrating material between, for a distance of forty feet. Continuing down the shaft we have mixed ore to the ninety-five foot point.

The east crosscut at station level shows a fifteen foot vein of concentrating ore in the hard blue lime of ten per cent. lead, and on the south side a drift has been commenced that shows eight feet of clean shipping ore.

This south drift clearly proves that the clean ore showing at the seventy foot point/^{and} at the fifty foot crosscut, is the same chute and no doubt the same ore shown in the south drift from the incline shaft. Calculating this proven area $\frac{110' \times 50 \times 8}{7} = 6,300$ tons of

forty to fifty per cent. galena, having 4/10 ounces silver per cent. and \$1.50 in gold. I have allowed nothing for any extension beyond the drift face and have allowed only eight feet in width of ore, where double the distance could reasonably be applied. I have not calculated that any of the high grade ore in the fifty-foot crosscut or at the south drift, or shaft goes to swell the tonnage, nor has the concentrating ore been calculated as a resource.

The ore on the dumps was surveyed and sampled before the underground openings were cleaned out, and resulted in one thousand tons of forty per cent. lead ores. From the history this was hardly credited, but the ore body when freshened by new surfaces readily proved where the ore came from.

SHAFT SUMP is at present in crushed lime and shale, heavily water soaked country that requires a lot of timbering, but is showing clean ore, at one hundred and seventy feet depth. On the most conservative basis, including the ore on the surface, by the figures submitted we have ten thousand three hundred tons available shipping ore of \$40 gross value = \$412,000.00.

Surface ore chutes south of the present working shaft are vastly better showings than anything on the surface in the vicinity of the shafts.

It is our purpose to sink the present shaft to the 200-foot level and crosscut east and west and drift on ore south under these ore chutes, with the certainty of increasing the clean ore tonnage vastly beyond what is at present in sight.

The nugget cuts show clean ore one to three feet wide. Open cuts toward foot wall show ore for over seventy feet.

A cut forty feet across vein and fifteen feet deep shows fourteen per cent. concentrating ore. This cut is four hundred feet south of present working shaft, and we do not include any of these showings in our tonnage calculations.

Continuing south to the end line of the Willow claim, a shaft forty-five feet deep has recently been sunk, which on the surface did not show a particle of float or outcrop. At five feet we had a surface seam, at fifteen feet depth two feet of ore, twenty per cent. lead. At this point the vein dipped out of shaft and we did not find it again until at the bottom, where foot wall casing caved off, revealing galena in lime of nineteen per cent. A cross cut has been commenced on this to prove the width.

GENERAL REMARKS. The tilted lime beds extend through the entire length of Company's property, and the writer is firmly convinced that a series of shafts sunk along the foot wall contacts will prove ore bearing ground beyond the present proven distance of three thousand feet, and if connected by drifts on the contacts, ore will be encountered in chutes for the distance.

IMPROVEMENTS: The vertical or No. 2 shaft is equipped with gasoline hoisting engine sufficient to sink four hundred feet, gallows frame, engine house, blacksmith shop and shed, all necessary tools for twelve or fifteen men, and mine supplies for such crew for two months' time. Camp has good stone bunk house, mess house and kitchen.

A forty H. P. return tubular boiler in good repair, but minus the fittings is in place near the present vertical shaft.

NEEDED IMPROVEMENTS: This boiler should be refitted and can be for \$200.00. A twelve inch by twelve inch straight line compressor should be added, which, with receiver, piping, drills and fittings can be installed for \$2,000.00.

Cost of delivering cord wood, \$2.50, which with Pioche wage scale of

\$3.00 for top men,
\$3.25 for drifting,
\$3.50 for sinking,

will make mining and developing very reasonable.

TRANSPORTATION AND PROFITS: Contracts for hauling ore to Indian Springs \$10.00, Freight to Salt Lake \$4.00, Mining \$3.00, Incidentals \$1.00, shows profits of \$18 to \$20 per ton, which, applied to ore available, shows net profit at present \$200,000.

Should the traction engine be used, the freight of \$10.00 can be cut in half and \$50,000 saved at an expense of \$5,000.

Railway, concentrating, mill and possibly smelting plant are factors for future consideration, but the writer wishes to state that in his experience of twenty years in mining no such surface showing or underground ore development for the footage has he ever seen.

Submitted.

E. H. Wedderburn

Nov. 11-1908

OCT. 28th, 08.

MR. L. L. PATRICK,
Goldfield, Nevada.

Dear Sir:-

We are in receipt of a letter from Mr. E. H. Wedekind, asking us to send you descriptive matter of our Gasoline Caterpillar Traction Engine, such as we are building for the Los Angeles Aqueduct.

We take pleasure in forwarding you under separate cover some photos illustrating this machine and we will forward you our catalogue describing it as soon as it is received from the printers, which will be in a few days.

The machine which we furnished the Los Angeles Aqueduct weighs 7 1/2 tons and is fitted with a 40 horse power, 4 cylinder, 4 cycle gas engine of our own manufacture, and the outfit will do the work of 25 head of horses.

The price of this machine complete, ready for road work, with two speeds ahead of two and four miles per hour and reverse, fitted with drum and cable attachment, is \$4,000.00 f. o. b. cars Stockton.

This machine required from 3 1/2 to 4 gallons of distillate per hour to operate, but, perhaps, you could get a better idea of the cost of freighting by the results that the Aqueduct people have had with their machine. The average fuel consumption for a month runs 1.08 gallons per mile, which was over a very hard road and over some very steep grades.

We would be pleased to have you send a representative either to Mojave and see this machine in operation, or here to the Works where he could see just how the machine is built and just what it will do under different conditions.

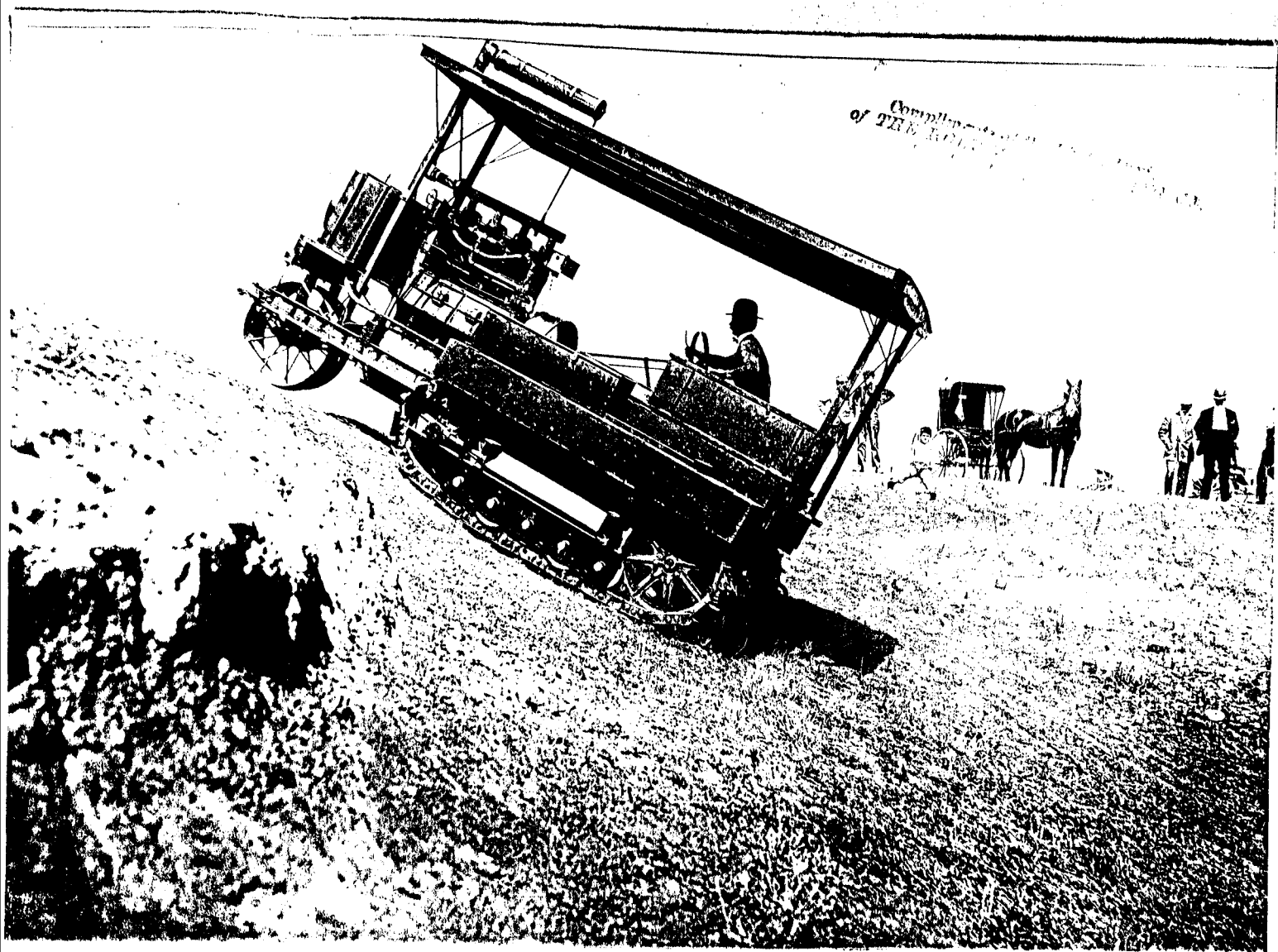
There is no question but what this is the coming machine, principally for the Desert Country where water is scarce and distance great, as it is possible to carry enough fuel for a week or ten days trip.

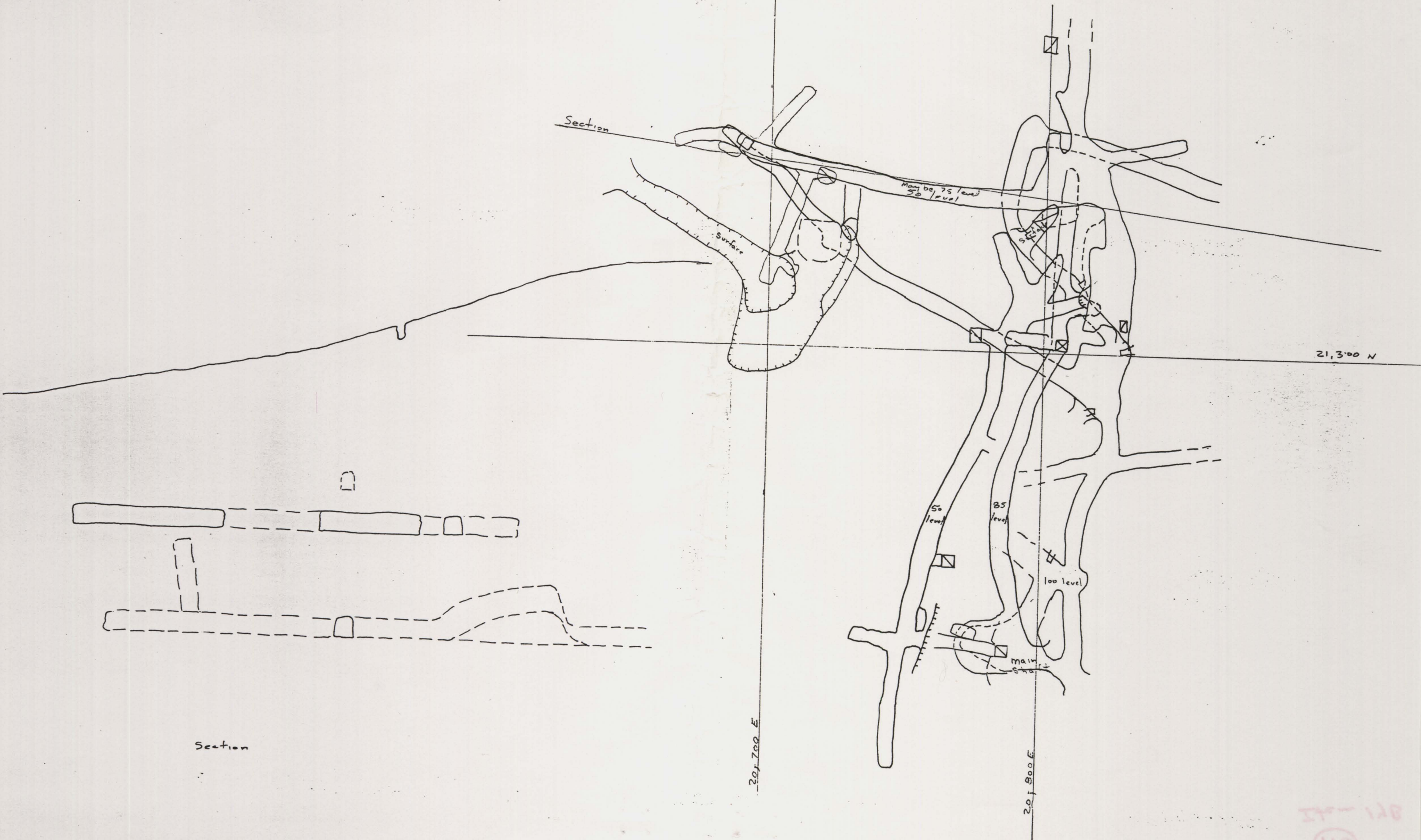
This is a thoroughly reliable machine. We have been at work perfecting this machine for nearly five years and have delayed putting it on the market until just lately, as we wanted to see how it proved out after long and hard usage and we have been giving it some very severe tests for a period of two or three years and it has proved a success in every way.

Trusting that this will be of interest to you and that you will place your order with us for one or more of our machines in the near future, we are,

Yours very truly,

C-PEH





Section

Scale 1"=30'

2240 0011

130