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## THE GALIGHER COMPANY

HOME OFFICE: 545-585 West 8th South — P. O. Box 209 — Salt Lake City 10, Utah EASTERN OFFICE: 921 Bergen Ave. (Room 1128), Jersey City 6, N.J.

CERRO DE PASCO CORPORATION TUCSON, ARIZONA

LABORATORY REPORT ON TEST WORK CONDUCTED ON SEVENTY SAMPLES OF IRON ORE SAMPLES DESIGNATED AS OUR LOT NO. 1428

February 25, 1960

## THE GALIGHER COMPANY

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GALSAL

TELEPHONE ELGIN 9-8731

545-585 WEST EIGHTH SOUTH STREET
P. O. BOX 209

SALT LAKE CITY 10, UTAH
U. S. A.

February 25, 1960

Cerro de Pasco Corporation Arizona Exploration Unit 3656 East Speedway Tucson, Arizona

Attention Mr. R. R. Reynolds Chief, Arizona Exploration Unit

> LABORATORY REPORT ON TEST WORK CONDUCTED ON SEVENTY SAMPLES OF IRON ORE SAMPLES DESIGNATED AS OUR LOT NO. 1428

In accordance with the arrangements made with you, we are pleased to submit herewith our laboratory report covering the test work conducted on seventy (70) samples of iron ore. These samples were designated as our Lot No. 1428 and were received at our laboratory on December 21, 1959.

The seventy samples were drill cuttings from various portions of the mine. It was the object of this test work to determine the relative amenability of the iron contained in these samples to magnetic concentration.

TESTING PROCEDURE - Each of the above samples were treated individually as follows:

- The sample was taken as received and was split, one-half of the sample being crushed through 10 mesh with a pulverizer. The other half sample was retained in its original state.
- 2. From the minus 10 mesh material, a head sample of about 50 grams was split for assay. All assaying was conducted by the Union Assay Office of this city. A further 50 gram sample was split and this was crushed through 20 mesh with an agate mortar and pestle.

- 3. From the minus 20 mesh material, two 10 gram samples were weighed, these being tested in a Dings Davis Magnetic Tube Tester. The magnetic concentrates from the two samples were weighed individually (if they did not check within 0.10 gram, the tests were repeated) and combined for assay. The tailings assay was calculated based on the assays of the head and the concentrate.
- 4. The Davis Tube was operated at approximately 85 to 90 strokes per minute for 5 minutes during each test at 110 volts and 2.1-2.3 amps.

TEST RESULTS - The results obtained when treating the seventy samples to the above procedure are outlined in Tables I and II. In Table I the results are presented according to the sample numbers listed in numerical order and, in Table II, according to descending concentrate grades.

TABLE I

	\\.	% Fe		Fe	% Wt.
Sample No.	Conc.	Tail (Calc)	Head	Rec	Rec.
3 1303 1313 1317 1318 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337	46.1 55.3 52.4 50.5 40.0 58.0 58.0 58.0 38.8 46.4 37.1 34.3 29.8 36.7 22.6 24.6 12.1 53.6 30.6	1.23 7.5 13.1 0.02 3.5 1.0 3.5 1.0 3.5 1.0 3.5 1.0 3.5 1.0 3.5 1.0 3.5 1.0 3.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	15.3 45.7 44.9 33.7 27.0 50.2 39.6 34.5 18.1 14.4 24.0 36.1 24.4 21.6 26.0 18.8 25.5 17.0 18.3 8.5 34.8 20.4	94.4 96.7 94.4 98.6 100.0 99.9 97.7 95.9 97.8 99.8 99.8 99.8 99.8 99.8 99.6 98.4 98.6 98.4 98.6	31.30 80.00 80.90 65.80 67.50 86.50 74.40 65.75 56.10 59.90 61.25 76.15 60.00 45.10 73.15 62.50 68.50 74.20 71.65 41.85 60.20 59.90

		% Fe		Fe	% Wt.
Sample No.	Cone.	Tail (Calc)	Head	Rec.	Rec.
1338 1339 1340 1341 1342 1343 1345 # 1 1347 1348 1349	45.9 44.3 42.3 36.7 33.4 54.8 60.0 47.1 35.1 52.8	2.3 6.5 4.0 2.7 5.6 2.8 2.8	19.0 20.0 12.3 13.8 11.9 14.8 11.4 32.6 24.2	92.6 79.2 72.0 79.6 84.2 97.8 96.2 97.4	38.40 35.75 20.95 29.90 30.00 80.00 66.40 67.40 66.25
2048 2049 2053 2055 2057 2058 2100 # 1 2101	46.3 58.2 50.1 55.3 47.3 47.3 43.2 62.2 65.0	3.9 5.4 5.6 8.3 2.8 5.8 5.8 5.4	47.1 34.8 40.4 23.2 33.3 31.9 31.7 34.3 57.0	99.2 95.4 92.6 85.6 88.3 98.0 96.7 99.4	88.45 71.80 64.25 39.70 53.15 66.10 64.90 76.25 91.10 93.30
2102 2103 2104 2105 2107 2117 2118 2119 2120 2123 2124	63.4 65.8 67.9 54.9 66.7 62.6 59.0 59.8 50.9 63.4 63.8	15.9 0.0 13.8 2.1 6.3 7.3 10.3 4.5 5.0 16.1 9.7	59.8 57.9 62.4 30.6 52.5 52.1 46.6 44.9 38.8 48.7 46.0	98.0 100.0 97.8 96.8 97.2 97.3 94.4 97.3 96.6 90.0	92.45 88.05 89.85 53.95 76.50 81.00 74.65 73.05 73.80 69.00 67.10
2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2137 2138 2140	48.5 57.4 44.4 42.0 51.7 60.2 61.8 52.1 59.0 45.2 50.1 43.0 49.3 48.2	4.3 6.2 1.3 7.5 3.5 16.0 6.4 7.3 3.0 4.0 5.4 2.1 0.65	31.4 42.4 34.3 31.1 39.2 52.7 52.5 42.2 46.5 38.6 27.7 36.1	94.8 95.8 99.1 92.4 97.7 94.9 96.2 96.8 97.4 98.3 99.2	61.35 71.00 76.55 68.45 74.10 83.10 83.05 78.35 75.85 66.80 75.10 59.30 72.00 63.20

## THE GALIGHER COMPANY

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Sample No.	Conc.	Tail (Calc)	Head	Rec.	Rec
2142 2143 2144 2145	61.0 56.1 53.7 53.3	10.0 2.3 6.4 3.9	51.5 35.2 36.1 36.1	96.4 97.5 93.4 96.3	81.40 61.20 62.80 65.20
Arithmetical Average	48.7	5.0	35.0	94.4	66.9
		TABLE II			
		% Fe	1	Fe	% Wt.
Sample No.	Conc.	Tail (Calc)	Head.	Rec.	Rec.
2104 2107 2103 2101 2124 2123 2102 2117 2100 2131 2142 2130 1345 2119 2118 2133 2048 1321 2126 2143 1313 2053 2105 1343 2144 1336 2145 1349 1317	67.9 66.7 65.8 65.8 63.4 63.6 62.8 61.0 60.0 60.0 60.0 60.0 60.0 60.0 60.0	13.8 6.3 0.0 5.4 9.7 16.9 7.3 6.9 10.0 4.5 10.3 7.3 8.2 7.5 8.2 10.4 6.4 9.5 13.1	62.4 52.5 57.9 61.0 48.7 59.8 57.0 52.5 51.5 51.4 46.5 46.5 46.4 35.2 45.7 33.3 34.8 34.8 34.8 34.9 44.9	97.8 97.2 100.0 93.0 93.0 97.3 97.8 97.8 94.9 96.2 97.3 96.2 97.8	89.85 76.50 88.05 93.30 67.10 69.00 92.45 81.00 91.10 83.05 81.40 83.10 66.40 73.05 74.65 75.85 64.25 86.50 71.00 61.20 80.00 53.15 53.95 80.00 62.80 60.20 65.20 88.45 80.90

## THE GALIGHER COMPANY

Cerro de Pasco

-5- February 25, 1960

		% Fe		Fe	% Wt.
Sample No.	Conc.	Tail (Calc)	Head	Rec.	Rec.
2132 1322 2129 2120 1318 1323 2049 2135 2138 2125 2140 2055 2057 1347 1327 1339 2058 1329 2137 1340 2128 1320 1326 1326 1328 1320 1326 1328 1329 2137 1340 2128 1329 2137 1340 2128 1320 1326 1328 1329 1341 1348 1330 1342 1341 1334 1335 1335 1335 1335	52.0 52.0 52.7 50.5 50.1	63.5.0.4.1.6.0.1.3.5.9.8.6.3.7.2.3.0.3.5.7.0.4.3.5.0.6.4.3.0.8.3.7.2.2.5.5.5.9.9.4.5.4.2.3.2.5.3.0.2.1.0.5.4.2.3.2.5.3.0.2.1.0.5.4.2.3.2.5.3.0.2.1.0.5.4.2.3.2.5.3.0.2.1.0.5.4.2.3.2.5.3.0.2.1.0.5.4.2.3.2.5.3.0.2.1.0.5.4.2.3.2.5.3.0.2.1.0.5.4.2.3.2.5.3.0.2.1.0.5.4.2.2.3.2.5.3.0.2.1.0.5.4.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	42.2 39.6 39.2 38.8 33.7 34.5 23.6 31.4 30.7 31.6 31.3 31.6 31.3 31.6 31.6 31.6 31.6	96.7 97.7 96.6 97.7 98.6 99.0 99.0 99.0 99.0 99.0 99.0 99.0 99	78.35 74.40 73.80 65.80 65.75 39.70 75.10 72.00 61.35 66.10 67.40 76.15 71.80 31.30 38.40 66.80 76.55 76.25 45.10 59.30 68.50 68.50 68.50 68.50 68.50 76.25 68.25 73.15 30.00 74.80 76.25 73.15

### SUMMARY OF OBSERVATIONS

- 1. It is seen from Table I that the arithmetical average results of the seventy tests showed an average recovery of 94.4% of the iron from an average head value of 35.0% Fe. The average concentrate grade was 48.7% Fe. With the recovery of 94.4% of the iron, it is indicated that this percentage of the total iron is recoverable by magnetic concentration under the above test conditions.
- 2. The above results suggest that it would be necessary to grind finer than 20 mesh to obtain high grade iron concentrates (in the range of 60-65% Fe). An additional test was conducted on Sample 1342 in which the sample was stage ground through 65 mesh prior to testing. The test results, presented below, illustrate the benefit of this finer grinding.

### SAMPLE 1342

	20 Mesh	Grindin	g	65	Mesh Gri	nding
Product	Wt. %	% Fe	% Dist.	Wt. %	% Fe	% Dist.
Mag.Conc. Tailing Head	30.0 70.0 100.0	33.4 2.7 11.9	84.2 15.8 100.0	19.3 80.7 100.0	48.9 3.0 11.9	79.4 20.6 100.0

By finer grinding, the concentrate grade was raised from 33.4% Fe to 48.9% Fe. It is indicated that even finer grinding would be required to raise the concentrate grade to the 60% Fe range. In the above test results, it is also seen that the tailing assays of the two tests are nearly identical. This suggests the possibility of concentrating the magnetic iron at a coarse grind (20 mesh or coarser), this to be followed with concentrate regrinding and further magnetic concentrations. In the above illustration, 70% of the weight of the feed could be rejected at the coarse grind, thereby greatly reducing grinding costs. Even with the relatively high grade samples (e.g., Samples 2107, 2124, 2123, etc.), considerable tonnage of gangue could be eliminated at the coarse grind. This procedure is common practice in the treatment of the Minnesota magnetic taconites.

3. In Table II it is seen that high grade concentrates were produced only from high grade ores, some notable exceptions being Samples 2124, 2123, 1345, and 2048. As pointed out above, finer grinding would undoubtedly have resulted in higher concentrate grades with the other relatively low grade samples.

- 4. Several of the samples had relatively high non-magnetic iron content, these being Samples 1329, 1335, 1337, 1339 to 1342, 2049, 2053, and 2123.
- 5. An analysis was conducted on the magnetic concentrate produced from Sample 1318 to determine the amount of undesirable elements which may be present. The result was as follows:

Magnetic % Fe % SiO2 % TiO2 % P % S % CaO Conc, 1318 50.0 12.74 None Trace 0.019 0.62

The above assays show the impurity levels in titanium, phosphorous, and sulfur content to be quite low.

- 6. In checking through Tables I and II, it is seen that certain samples have yielded what may seem to be unreasonably high recoveries. Repeat assays were conducted on head and concentrate samples (Samples 1318, 1320, 1326, 1331, 1333, 2057, 2103, and 2140) and the results reported above were confirmed.
- 7. At the present time we are not in a position to discuss just what might be considered as the cut-off point in differentiating ore from waste. (It is to be noted that even the low grade samples, below 20% Fe content, gave high iron recoveries when subjected to magnetic concentration.) Such a cut-off point could only be determined by taking into account all of the various economic aspects of the project.

RECOMMENDATIONS - Further testing is indicated in the event that you wish to obtain concentrates of higher iron content. This testing would involve grinding studies used in conjunction with the Davis Tube Tester to determine the correlation between mesh of grind and concentrate grade. For this work it is suggested that a general composite sample be prepared from the desired samples now in our laboratory. Following the development of a flowsheet based on this sample, then the individual samples could be tested with this flowsheet to determine the response of various sections of the mine to same.

It has been a pleasure for us to conduct these preliminary tests for you. We look forward to the continuation of this interesting test program, but will hold in abeyance further testing until authorization is received from you.

Respectfully submitted,

THE GALIGHER COMPANY

R. O. Huch Metallurgist

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THE GALIGHER COMPANY
P. O. BOX ASS — EAL-SES WEST SHI SOUTH STREET
SALT LAKE GITY 10, UTAN — U.S.A.

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12-30-59 Date DEN - MIS. Our Lot No.

Testing No.

Cerro de Pasco Name ...

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# THE GALIGHER COMPANY P. C. BEX 200 — ESCHOOL WEST SALT LAKE CITY 10, UTAH — U.S.A.

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THE GALIGHER COMPANY
P. O. BOX AGE — SALT LAKE CITY 10. UTAH — U.S.A.

TELEPHONE

Our Lot No. 1428 Date DEN 1-4-60 By DEN Date By

Testing No. 1

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THE GALIGHER COMPANY P. O. BOX 105 -- 545-355 WET EN SOUTH STREET SALT LAKE GITY 10, UTAH - U.S.A.

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Our Lot No. 3 Date 1-4-69 By DEN

Sample #1318

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CABLE

THE GALIGHER COMPANY
P. D. BOX 2005 — SELET TON TON UTAH — U.S.A.

WELEPHONE Migh 5-8785

Our Lot No. 1428 Date 1-25-60 By DEN

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THE GALIGHER COMPANY P. O. BOX 200 -- S42-255 WENT ON FOURTH STREET SALT LAKE CITY 10. UTAM -- U.S.A.

CASLE "GALEAL"

Therphone Elgin D-8739

Our Lot No. 1428 Date JEN 1-4-60

Testing No.

Name Cerro de Pasco

Cum, 96 GRENDENG 200 DISTRIBUTION 十325 + 48 4 86 +100 +160 - 828 Meeh 0.001 100.0 Fig LES, PER TON Strokes per min. 83 ASSAY Time 30 200 40.0 27.0 0.04 0 asesy 4 Be Cone 1A and 1B combined for 32.5 67.5 27.0 27.0 Persont 200 2 6.73 2.70 0.10 Weight Original essay 1.6 Mag. Cone. B Msg. Conc. Repeat assay Sample 41320 Honeldag. Non-Mag. PRODUCE Reads Heads 188. A 60

CABLE ...

THE GALIGHER COMPANY P. O. BOX 2005 - 343-505 WEST STM SOUTH STREET SALT LAKE CITY 10, UTAM -- U.S.A.

TELEPHONE

1428 Our Lot No.
Date 1-4-60
By DER

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THE GALIGHER COMPANY
R. C. NOT 200 -- 245-255 WENT OFF SOUTH FAME OFFY 10. UTAH -- U.S.A.

CABLE.

The ephone State S

Sample #1322

Name Cerro de Pasco

Otton, % GRINDING 北 DISTRIBUTION Mean's + 4- 65 +100 +150 +200 1-825 2°.3 NG. LUS. PER TON Time Strokes permin 8 8 ASBAY Cale in in 39.5 33 C. B combined for sassy 4 7.44 74.4 2.02 25.6 9.46 100.0 Percent Weight 108 108 100 44.00 Weight and IB Mag. Cone 1A Mag. Cone Conc A Non-Mag. Mon-Mag. PRODUCE Reads Heads blag. 60 1

CABLE.

THE GALIGHER COMPANY F. O. BOX 205 — SAE-388 WEST CHARGE STATES. UTAN - U.S.A.

Telephone Elsin D-8731

Our Lot No. 1428
Date Date 1-5-60
By DEN

Cerro de Pasco Name .... Tasting No.

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THE GALIGHER COMPANY
P. O. BOX 305 — SEE-305 WEST EM SOUTH STREET
SALT LAKE GITY 10. UTAH - U.S.A.

CABLE "SALSAL"

VELEWONE ELON 9-6781

Our Lot No. 1428 Date 1-5-60 By DEN

port ! Sample #1.324

Cerro de Pasco Name ...

Ottm, % GRINDING 康 DISTRIBUTION Mark + 1 85 +100 -F150 +200 - SSSS 2000 7.7 Ma LES, PER TON Time Strokes per min 800 ASSAY Calc m m 29.8 18.1 233 D Be for assay 5.63 56.1 3.91 43.9 9.54 100.0 Percent Weight 108 N Mag. Cone A and B combined 5,59 4,15 9,74 Weight 1A Mag. Conc Non-Mag. Reads 1B Mag. Conc Non-Mag. PRODUCE Reads 13

CABLE "SALEAL"

THE GALIGHER COMPANY P. O. BOX 202 — \$41-505 WEST EN SOUTH STREET SALT LAKE CITY 10. UTAH - U.S.A.

VILLEPHONE

1,5-60 Our Lot No.
Date
By DEM

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GABLE "GALSAL"

THE GALIGHER COMPANY S. O. BOX 100 -- BASESS WEST SIN SOUTH STREET SALT LAKE CITY 10, UTAH -- U.S.A.

Velen 9-8781

Our Lot No. 1428 Date 1-5-60 By DEN

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SABLE.

# THE GALIGHER COMPANY P.O. FCX NOS — SALT LAKE CITY 10, UTAH — U.S.A.

Telendre Blain Sath

Our Lot No. 1428
Date 1-6-60
By DEN

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GARRE "GALGAL"

THE GALIGHER COMPANY P. D. DON FOR SALT LAKE CITY 10, UTAH - U.S.A.

The Robert Elected D-8721

Our Lot No. 1 Date 1-5-50 By DEN

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CABLE ...

THE GALIGHER COMPANY P. O. BOX 109 — 248-385 WEST SHI SOUTH STREET SALT LAKE GITY 10, UTAH — U.S.A.

TELEPHONE

Our Lot No. 1428
Date 3-25-60
By DEN

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CABLE "GALGAL"

THE GALIGHER COMPANY
P. O. BOX 205 — 248-265 WEST EM SOUTH STREET
SALT LAKE CITY 10, UTAH - U.S.A.

There B-8721

1428 Our Lot No. 14 Date 1-7-60 By DES

Testing No. 1

Cerro de Pesco Name ...

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"GALSAL"

THE GALIGHER COMPANY
R.O. BOX 205 -- 643-585 WEST STH SOUTH STREET
SALT LAKE GITY 10. UTAH - U.S.A.

TELEPHORIE

1428 Our Lot No.
Date 1-8-60
By DEN

Testing No.

Cerro de Pasco

Name ...

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THE GALIGHER COMPANY P.O. BOX 200 - SALES WIST BY SOUTH STREET SO, UTAN - U.S.A.

CABLE PEALSAS"

THE EPHONE

Our Lot No. 1428
Date 1-3-60
By new

Testing No....

Cerro de Pasco Name ..

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1428 Our Lot No. Date 1-8-60 By DEN

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THE GALIGHER COMPANY P. C. DOZ ACO - EXCASO WHEN SHIP SOUTH STREET SALT LAKE CITY 10, UTAH - U.S.A.

Telephone Moin 9-8721

Our Lot No. 1428 Date 1-8-60 By DEN

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Cerro de Pasco

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THE GALIGHER COMPANY P. O. BOX 500 - SAUT LAKE GITY 10, UTAH - U.S.A.

CABLE "GALSAL"

TELEPHONE ELGIN 5-8731

Our Lot No. 1428 Date 1-8-60 By DEN

Testing No.

Cerro de Pasco Name ..

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"GALEAL"

THE GALIGHER COMPANY P. O. BOX 2004 - SALT LAKE CITY 10. UTAH - U.S.A.

TELEPHONE ELGIN D-6781

Our Lot No.
Date
By DES

1-11-60

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THE GALIGHER COMPANY P. C. BOX 2020 — 245-1355 WENT SHI SOUTH STREET SALT LAKE CITY 10. UTAN - U.S.A.

TELEPHONE

1428 Our Lot No.
Date 1-12-60.
By ORM

Testing Mo.

Cerro de Pasco Name ...

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CABLE ...

## THE GALIGHER COMPANY P. C. BOX 205 -- 845-835 WAST STATE STATE OF 10, UTAH -- U.S.A.

Valephons Rloin D-8721

Our Lot No. 1512-60 DEM Date By Di

> Cerro de Pasco Name ... Sammia \$320 Testing No. 11

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GABLE: P

## THE GALIGHER COMPANY P. C. BOX 208 -- SAB-BOS WEST ON SOUTH STREET SALT LAKE CITY 10, UTAN -- U.S.A.

TELEPHONE

Our Lot No. 1428 Date Den By DEN

Festing No. 1

Wame Cerro de Pasco

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CABLE ...

THE GALIGHER COMPANY P. O. BOX 200 — SAS-805 WEST PRINGS OF TO UTAH - U.S.A.

FROMFIGNE

1428 Our Lot No. .... DEE By ....

Testing No.

Cerro de Pasco Name .

Onna, % CERTIFIES 18t DISTRIBUTION +150 100 1100 005-1-000 8255 20.4 Fe LES. PER YOR Strokes per min. 883 ASSAY Calc Time min 13.8 લા લ લે લે Mag. Conc 1A and 1B combined for assay 9 1 3.03 29.9 6.61 70.1 9.64 100.0 Percent Weight 911 5 9.53 Wolght 1A Mag. Conc Non-Mag. Reads 1B Mag. Conc Sample #1341 Non-Mag. Heads PRODUCE A B

THE GALIGHER COMPANY P. O. 80X 309 — 545-255 WEST SHI SOUTH STREET SALT LAKE GITY 10, UTAH - U.S.A.

THE SPHONE

Our Lot No. 1-12-60 Date MEN

1,428

CABLE "CALGAL"

Testing No.

Cerro de Pasco

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  |  | And on repose the holy deprendent of the contract of the contr | er miljinggrightigen on antion of different homestick in green waterprint and  |  |   |  |   
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CABLE P. C. BOY "SALSAL"

THE CALIGHER COMPANY
P. O. BOX 200 — 645-1455 VEST EM SOUTH STREET
SALT LAKE CITY 10, UTAH - U.S.A.

Telendre

Our Lot No. 1428
Date 1-14-60
By DEN

Testing No. ..... Service of the service of Pasco

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THE GALIGHER COMPANY
P. O. BOX 205 -- 245-555 WENT ON SOUTH STREET
SALT LAKE CITY 10, UTAH -- U.S.A.

CABLE ... GALGAL."

Telen Seysi

Our Lot No. 1428
Date 1-14-60
By Den

Testing No.

- SHEN

Cerro de Pasco

Sample #1342 - 65 Mesh

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HE THETING DEPARTMENT

THE GALIGHER COMPANY P. O. SOX AOS — SAS-555 WEST EN SOUTH STREET SALT LAKE CITY 10. UTAM — U.S.A.

CASLE "GALSAL"

PELEPHONE Elein D-8781

Our Lot No. 1-12-60 Date DEN

Sample 41343

Mame.

Cerro de Pasco

14   Marg. Conc.   7.99   80.0   54.6   80.0   14.0   80.0   14.0   80.0   14.0   80.0   14.0   80.0   14.0   80.0   14.0   80.0   14.0   80.0   14.0   80.0   14.0   80.0   14.0   80.0   14.0   80		Comments of the Comments of th	-	Continues de la mante de la continue	Statement of the same of the same	And the state of t	Mary and the second of the sec	Contract of the second second second	Contraction of the last of the	the state of the state of the state of	Catalogical Measurement of the Sales of	A superior of december of particular	Control of the Party of the Par	Special Contraction	Printed in contact of	Antonio anticological
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0.01   1.59   9.60   9.60   1.00   2.3   5   87   1.160   1.	Resda	9.57	300.0	8,44								100.0				
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CABLE ...

THE GALIGHER COMPANY P. O. BOX 205 -- SAS-255 WEST ON SOUTH STREET SALT LAKE GITY 10. UTAH -- U.S.A.

TELEPHONE

1=12=60 Our Lot No. \_1428 By DEE Date ....

Testing No.

Cerro de Pasco Name ...

Ours. 95 GRINDING 28 PERTREBUTION 1 65 +100 1-150 +200 1.825 Bilanda 3.8 The LEG PER TON Strokes per min. 2000 ASSAY Calc) Time min 0.09 200 Weg. Conc 1A and 1B combined for assay De 4 6.64 66.4 2.79 33.6 9.43 100.0 Percent Weight 110 5 6.64 9.45 Weight 14 Mag. Conc 1B Mag. Conc Sample #1345 Non-Mag. Non-Mag. PRODUCE Reads Heade 19

CABLE 7.0.8

THE CALIGHER COMPANY P. O. BOX 309 — SALES WEST EM SOUTH STREET SALE LAKE CITY 10, UTAM — U.S.A.

TELEPHONE ELam 9-3789

Our Lot No. 1428
Date J-12-50
By DEM

Testing No. 1 Sample #1347

Cerro de Pasco

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THE GALIGHER COMPANY P. O. BOX 2005 — E45-585 WEST PAN SOUTH STREET SALT LAKE CITY 10. UTAH — U.S.A.

CABLE ...

THE EPHONE

1428 Our Lot No.
Date
By DEN

Searing No. 1

Cerro de Pasco

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CABLE P. O. BOX 20

THE GALIGHER COMPANY P. O. BOX LONE CITY TO, UTAH -- U.S.A.

TELEPHONE Elein D-8723

Our Lot No. 1428
Date 1-12-60
Ey DEN

Testing No.

Cerro de Pasco

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| FRODRCE           | -   | 1A Mag. Cone   | Non-Mag.   | Heads  | 2 3 Black Paris  | TO MESS . CODE   | Non-Maga.  | Reads  | Name and the property of the party of the pa |  |  |  |  |  |  | And the second s | JA.  | 7.8  | Annual descriptions of the party of the part | Madia de dependencia de como de la composição de la como de como de la como d |  | Self-option consequence out among the contract of the contract | Mag. Cone 1A and 1B  | the second section of managed the extended property of the second section of the section of the  | trans-remotan staningay planet langes (Bergha) we mandalina ordene (Ferriso  |  | And the second spill of the Parish Spillshood and South Sout |  |  | seine) speareteilerus vareteguna vareteum emilionistische eigensteil   |  |  | and we consider the property detailed by the consideration of the constant of the | Transcomer specialism development company of the company and an analysis of the company of the c |

CABLE ...

THE GALIGHER COMPANY
R. O. BOX 2021 — MELES WEST SWITH STATE
SALT LAKE CITY 10, UTAH — U.S.A.

THE REPONE

1,428 Our Lot No. Last Date L-13-60 By DEN

Semple #1350

Cerro de Pasco. Name ...

		W digitie	25		Sales		Ne Ne	DISTRIBUTION	1030
1A Mag. Cone	7.23	71.8	46.3						
Hon-Mag.	00	800	5.7	(Cale			95.8		
Nesda	9,65	100.0	34.8				0.00		
Annual Paris	1						O'ONT		
To walk today	7.35	designation of the last of the	The second second second	- Spranston Standard Laboration of Street	The state of the s			And the second s	
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	-	-	Constitution of the Constitution	-			erne principal de la company d	And the state of t	
	1	america de litera de provincio persona	Annual Constitution of Constitutions	annual annual limit to a Count from	and the same of th		The markets of the form of the same and the same same and the same same and the same same same same same same same sam	The second secon	1
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Consistent spirit and statement of the s	and the same of th	-	-	Andrew Street,	-				
		and the commerce of	the same and the s		meritation promise promise production and				
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THE GALIGHER COMPANY P. O. BOX 200 - 244-205 WEST 500 SOUTH STREET SALT LAKE CITY 10, UTAM - U.S.A.

"GALGAL"

Trlephone

Our Lot No. 1428

Date 12-30-59

By DEW

Testing No. 1. Baris Tube 1A and 1B

| -  | -  | -       | -        | -     | -       | - American Specimentals | -  | -                         |  |       |   
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PRODUCE	-20 Mesh	- Sept.	Non-Mag.

THE CALIGHER COMPANY P. O. ECK 309 - SALT LAKE GITT 10, UTAH - U.S.A.

CABLE "GALEAL"

TELEBRONE FLAIN D-8785

Our Lot No. 1428.
Date 1-13-60
By DRN

Sesting No.

Cerro de Pasco Name ..

6.43	The second secon	16		ANERI						1	DISTRIBUTION	N.	
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THE GALIGHER COMPANY S. C. BOX A05 — MS-525 WEST STH SOUTH STREET SALT LAKE CITY 10. UTAN — U.S.A.

Our Lot No. 14-28 Date Date \_\_\_\_By

TELSIN 9-8731 Yesting No. 2 Cerro de Pasco Name Sample # 2048 10 Gr Stirred 1 hr. filtered Buckner filter CASLE. ORE TESTING DEPARTMENT

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CABLE "GALEAL"

THE GALIGHER COMPANY P. O. BOX 100 -- SALES WEST PHI SOUTH STREET SALE LAKE CITY 10, UTAN -- U.S.A.

TELEPHONE

Our Lot No. 1428
Date 1-13-60
By DEN

Testing No.

Cerro de Pasco Name .....

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CABLE "GALSAL"

# THE GALIGHER COMPANY P. O. BOX 100 — EASTS WENT EN SOUTH STREET SALT LAKE CITY 10, UTAH — U.S.A.

TELEPHORIE

Our Lot No. 1428.
Date A-13-60
Ey DEN

Testing No.

Cerro de Pesco Name ....

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PHE GALIGHER COMPANY P. O. BOX 200 - S45-565 WINT SHI SOUTH STREET SALT LAKE CITY 10, UTAH - U.S.A.

"CARES

Our Lot No. 1428 Date 1-14-60 By ... TREEFHOME

Testing No.

Cerro de Pasco Name .

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CABLE ...

# THE GALIGHER COMPANY P. O. BOX 109 — 248-365 WEST SHIP SOUN STREET SALT LAKE CITY 10, UTAH — U.S.A.

TELEPHONE BLAIN 9-5751

Our Lot No. 1428
Date 1-14-60
By DEN

	-		other projections	-		italies			-		-	-	GELMUING	Cons. Sc				-	-	The second second		Constitution (Chicago				-		Statement of the Parket of the	-
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ASS			)			-	-					-	1	-	- Total	-						-	-	+	-	-	-	-	-
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THE GALIGHER COMPANY P. O. SOZ 200 - SALE CITY 10, UTAH - U.S.A.

Cerro de Pasco

Name ...

RAIN SATSI

Our Lot No. 1-14-60
By Original Sy Origina

1428

ORE TESTING DEPARTMENT

"CABLE

Sample #2058

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GARLE "GALGAL"

P.O. SOX 200 — S42-S85 WEST SHOWN STREET SALT LAKE CITY 10, UTAH - U.S.A.

TIN EPHONE

Our Lot No. 1428
Date Den Den

Ours, % GRINDING 18 DISTRIBUTION Messa 4 + 855 --- 300 4-150 4-200 1.855 828 300.0 Re LES, PER TON Strokes per min Cerro de Pasco 88 88 ABBAY Cale Min un un 57.0 9 0 Wag. Conc 1A and 1B combined for assay Els. Name ... 4 8.9 91.1 100.0 Percent 33 20 0.57 9.57 Welghe prof ! 14 Mag. Conc. 18 Mag. Conc. Sample #2100 Non-Mag. Non-Mag. PRODUCE Reads Testing No. Heads TA 10

THE GALIGHER COMPANY F. C. BOX 209 - 845-955 WEST SHIP TO, UTAN - U.S.A.

CABLE.

Date By .... THE EMPONE

1-15-60 DEN Our Lot No.

Testing No. 1 Sample #2101

Cerro de Pasco

Name ...

MERIBUTION 9.001 7:56 Pe ASSAX (Cel.c) 65.0 5.4 0 93.3 Persent 24.00 9.35 Wedght 1A Mag. Conc 1B Mag. Conc Non-Mag. Non-Mag. PRODUCE Heads Heads

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"GALEAL"

THE GALIGHER COMPANY
P. O. 50x 805 — 545-355 VEST 600 UTAN - U.S.A.
SALT LAKE CITY 10, UTAN - U.S.A.

TELEPHONE

1428 Our Lot No. 1 Date 1-15-60 By DEM

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CABLE "GALSAL"

THE GALIGHER COMPANY P. D. BOX 200 — 845-555 WEST WITH SOUTH STREET SALT LAKE CITY 10, UTAH - U.S.A.

Cerro de Pasco

Name ....

Testing No.

TELEPHONE

Our Lot No. 1428
Date 1-15-60
By DEN

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Our Lot No. 1428 DIBYELEUTION Date \_\_\_\_\_By 97.8 196 TEL RINGNE . THE GALIGHER COMPANY F.O. BOX 205 -- 243-255 WEST SH SOUTH STREET SALT LAKE GITY 19, UTAN - U.S.A. LES, PER TON Strokes per min. 500 Cerro de Pas do ARSAY Min Calc) un un 13.8 PREBRY 200 0.0 "CABLE FIG Name \_ 8.98 89.85 0.77 10.15 9.75 100.00 Mag. Cone 1s and 1b combined for Persent Weight 110 110 9.75 Weight ORE TESTING DEPARTMENT Semple #2104 Mag. Cone 1B Msg. Conc. Mon-Mag. Non-Mag PRODUCE Heads Beads Testing No. 1A PO

Cars. % GRINDING

200

Mach

89 + + 65 4-100 4-150 +-200 +828 828

1-15-60 DEN

CABLE ... GALEAL"

## THE GALIGHER COMPANY P. O. BOX 209 — EAST-SDB WEST ST. GOUTH STREET SALT LAKE GITY 10, UTAH — U.S.A.

TELEPHONE

Our Lot No. 1428 Date 1-15-50 By DEN

Outro. Se GRINDING S. DISTRIBUTION +150 99 + +100 4-200 4-828 --- 3255 Heak 3.2 96.8 63 LES. PER TON Strokes per min Cerro de Pasco 888 ASSAY (0810) Mina un un un 30.51 0 0 0 Mag. Cone 18 and 10 combined for assay Alle Alle Name . 5.39 53.95 3.93 46.05 9.32 100.00 Percent Weight 110 110 110 D 4.99 3.98 Weight Testing No. 1 14 Mag. Cone 13 Mag. Cone Sample #2105 1C Mag. Conc Hon-Mag. Non-Mag. Non-Mag. PRODUCT Heads Heads Heads 10

P. O. BOX 205 — MALES SWEAT SHE COMPANY
P. O. BOX 205 — MALES SWEAT SHE CITY 10, UTAH — U.S.A.

TISLEPHONE

Our Lot No. 1428
Date 1-18-60
By DEN

Sample #2107 Testing No.

CABLE "GALSAL"

Cerro de Pasco

Name .

Corne, 95 CHIMINING 18 MOTTURETREE +100 4-156 4200 4-8855 9338 Mesh 100.00 0 LES PER TON Strokes per min. 50 00 ASSAY (Cale) Min. min 52.5 56,7 e ci SESSE 部 0 7.65 76.5 2.01 23.5 9.66 100.0 combined for Percent Weight 110 0 2.00 7,65 Weight and 13 Conc 1A Mag. Cone 13 Mag. Conc. Hon-Mag. Heads Non-Mag. PRODUCE Beads Hag. 3.0 400

CABLE "GALGAL"

# THE GALIGHER COMPANY P. O. BOX 500 - SALT LAKE CITY 10, UTAH - U.S.A.

SEAS-G NIOTH

Our Lot No. 1428
Date J=18=60
By DEN

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TESTING DEPARTMENT

THE GALIGHER COMPANY P. D. BOX 202 — E4S-255 WINT SM SOUTH STREET SALT LAKE CITY 10, UTAH -- U.S.A.

CABLE ...

Tillephenik Main D-6789

1428 Our Lot No. Date 1-18-60 Date .....By

Curz. % CRIMDING 88 DISTRIBUTION Month 48 4 85 +100 4350 +200 1-8885 3885 100.0 (S) LAS. PER TON Mn. |Strokes per min. Cerro de Pasco 5000 ASSAY Calco) m in 10,3 Cone 14 and 18 combined for assay 00 00 Name 4 の田 25.35 110 50 7:46 1.98.1 Wolgibs Mag. Cone Mag. Cone Sample #2118 Mon-Mag. PRODUCT Heads Heads Festing No. Mag. PO! 50 T.A.

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Our Lot No. Date Date		97.3 2.7 100.0				1											1			
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THE GALIGHER COMPANY 6. 9. 100: 100 — 142-555 WEST ON SOUTH SALT LAKE GITY 10. UTAH — U.S.A. Certo de Prego	ASSAT					Strokes p					The state of the s			1	+	H	1	1		-
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THE GALIGHER COMPANY P. D. BOX 200 - EASTED WEST SHIP LIKE CITY 10, UTAH - U.S.A.

CABLE ...

TELEPHONE Main 9-8721

Our Lot No. 1428 Date 1-18-60 By DEM

Sample #2120

Cerro de Pasco

Name

Cam. % CHINESE 18 DISTRIBUTION Beele - 48 - BBE ---4 + 2525 -F 200 3.4: 1 MOT REG PRE Strokes per min. B 8 ASSAY (0830) Min. en en 6 6 6 0 0 Mag. Cond 1A and 1B combined for assay 品 -7.37 73.8 2.00 26.2 9.37 700.0 110 2 2.39 Weight Mon-Mag. 1A Mag. Conc 13 Mag. Cone Hon-Mag. PRODUCE Hends Heads A S

Ours. % GELINDING 18 Our Lot No. 1428
Date 1x18-fo DISTRIBUTION + 65 4150 -888年 + 48 +100 955 +200 Mean 100.0 0.00 10.0 Ne TELEPHONE P. C. SON SOS -- ENE-USS WEST SON SOUTH STREETS SALT LAKE CITY 10, UTAN - U.S.A. LES PER TON . Cerro de Pasco Strokes per mi 800 ABSAT (Calc) Man und und 163.1 200 Mag. Conc lA and lB combined for sassay CABLE "GALGAL" Fig. 4 Name ... 6.89 69.0 2.45 31.0 9.34 100.0 Perpent Weight 110 110 D 2.30 Weight ORE TESTING DEPARTMENT 1-1 Mag. Conc B Mag. Conc. Sample 42123 Hon-Mag. Non-Mag-PRODUCE Testing Non. Heads Heads IA 100

GABLE "GALSAL"

# THE GALIGHER COMPANY P. O. BOX 2008 — SALT LAKE CITY 10. UTAH — U.S.A.

TREATHONE

Our Lot No. 1428
Date 1-18-60
By DEN

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Testing No. J. Sample #2124	PRODUCE

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CABLE "GALBAL"

THE GALIGHER COMPANY P. O. DOE 100 - SALT LAKE CITY 10, UTAN - U.S.A.

TELEPHONE

Our Lot No. 1-18-60 Date DEN

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| Testing No1<br>Sample #2125 | FRODUCE           | 5.   | 1A Meg. Conc   | Non-Mag. | Rends  | 1.B Mage. Cone | Non-Max.   | Nesde  |   
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THE CALIGHER COMPANY R.O. DOI 105 - SULT SOLUTION STATE CANE CITY 10, UTAH - U.S.A.

CABS.B

THE REMOME

Our Lot No. 1428 Data 1-19-60 By DEE

Testing No.

Cerro de Pasco Name ...

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CABLE "GALSAL"

THE GALIGHER COMPANY P. O. BOX 200 -- SAUGHS WEST SHIP TO, UTAH - U.S.A.

YELEPHONE

Our Lot No. 1428
Date Date 01-19-60
By

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CABLE "GALSAL"

# P. O. BOX NOS — SULSON VENT ST. SOUTH STREET SALT LAKE CITY 10, UTAH — U.S.A.

TELEPHONE

Our Lot No. 1428
Date 1-19-60
By DEM

Testing No.

Cerro de Pasco Name ...

100.00  100.00	99.4 7.6 100.0 100	Weight Fig.
100.0   100.0	### Page Took    Make Page Took   Make P	6.83 68.45 42.0
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The same of the sa		

CABLE ...

THE GALIGHER COMPANY P. O. BOX 200 — 543-1955 WIST EM 50UTH STREET SALT LAKE CITY 10. UTAH - U.S.A.

TELEPHONE

Our Lot No. 1428 Date 1-20-60 Date By

Testing No.

Cerro de Pasco Name ...

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and any any and a second and a	-		(087e)	-	and or spirit former de realism			The second secon			Min.		5	ır					and the second second	-	- Commission of the last	-	-		-	-			
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Weight		100	5.09	9.50	7.41	2.04	9,45		-								***************************************		-	The second section of the second seco						- Indiana de la constanta de l			
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CARLE ...

THE GALIGHER COMPANY P. O. SON 200 — SALT LAKE CITY 10, UTAH - U.S.A.

THE SPHONE

Our Lot No. 1428 Date 1-20-60 By DER

	Of the second second							-	-	the state of the state of	GRINDING	Ours. 95	-	-			-	All the state of t			-	-		-		1	-	-		1
	TON		-							And the second s	-	8	-	-	-			The second second second second			and the state of t	And the second second			The state of the s		-			
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9-46	Weight	98	1.22	9.54	8.30	1,12	9.42				1	-					-		1B combin						1				-	
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THE CALIGHER COMPANY F. O. BOX 200 - SALT LAKE CITY 10, UTAH - U.S.A.

CABLE ...

TRLEPHONE

Our Lot No. 1428 Date 1-20-60 By DEN

Cerro de Pasco. Name ... Se mole #2131

	Name and Address of the Park		-		Control or annual control or a	-	-	-	of the latest desiration of the latest desirat			CELEBERGS	Cours. St		-					The state of the s		The same of the sa		-	-	-	-	-	-	and an observations	The second secon	
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THE GALIGHER COMPANY P. O. BOX 200 — SALT LAKE GITY 10. UTAH - U.S.A.

CABER "GALEAL"

TELEPHONE ELGIN D-8781

Our Lot No. 1428 Date 1-20-60 By DEN Date .....By

Festing No.

Cerro de Pasco. Name ....

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a																													-			
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CABLE "GALSAL"

## THE GALIGHER COMPANY P. O. BOX 205 -- 541-565 WEST SWIN STREET SALT LAKE CITY 10, UTAH -- U.S.A.

TELEN S-5731

Our Lot No. 1428 Date 1-20-60 By DEN

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THE GALIGHER COMPANY
P. O. BOX 200 -- S45-508 WEST SHIP SOUTH STREET
SALT LAKE GITY SO. UTAH - U.S.A.

CABLE ...

ELGIN D. 8781

1428 Our Lot No. 1428 Date Dan

Testing No.

Cerro de Pasco. Name .....

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E TRETTING DEPARTMENT

CANES "GALGAE"

Cerro de Pasco

Name ...

500

THE GALIGHER COMPANY P. O. BOX 100 -- SALT LAKE CITY 10. UTAH -- U.S.A.

TELEPHONE BLGIN 9-8725

Our Lot No. 1428
Date 1-20-60
By DEN

DISTRIBUTION + 100 Mass. 4150 + 2000 +825 97.4 2.6 300.0 Pe LES, PER TON Strokes per min. ABBAT 88 (Calc) Min www 38.6 Sagey. 100 0 0 Q' and 1B combined for 24.9 Percent Weight 110 110 1.83 7.48 Weight 1A Mag. Conc. Sample #2135 Mag. Conc Non-Mag. PRODUCT Come Reads Heads Mag. 13 1 BIA

Ourse, 95

8

GRINDING

THE GALIGHER COMPANY S. O. BOX AGE - EGLESS WEST SIN SOUTH STREET SALT LAKE CITY 10, UTAN - U.S.A.

"GALSAL"

TELEN D-8721

Our Lot No. 1-21-60 Pate DEN

Cerro de Pasco Name .... Sample #2137

#3.0 #3.0  \$ \frac{5.4}{5.4}\$ (calc)  \$ \frac{5.4}{2.4}\$ (calc)  \$ \frac{7.9}{7.9}\$ (calc)  \$ \frac{7.9}{7.9}\$ (calc)  \$ \frac{2.3}{2.3}\$ \frac{5}{5}\$ \frac{86}{88}\$ (calc)  \$ \frac{2.3}{2.3}\$ \frac{5}{5}\$ \frac{86}{88}\$ (calc)  \$ \frac{2.3}{43.0}\$ \frac{5}{5}\$ \frac{86}{88}\$ (calc)  \$ \frac{4.00}{4.200}\$ (calc)  \$ \frac{2.3}{4.3.0}\$ \frac{5}{5}\$ \frac{86}{5}\$ (calc)  \$ \frac{4.00}{4.200}\$ (ca
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(Galc) (Galc) (Galc) (Galc) (Galc)  Min. Strokes per min.  \$ 88 5 88 5 88
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(Calc)   7.9   100.0
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CAELE "GALGAL"

THE GALIGHER COMPANY P. O. NOX 200 — 248-265 WEST SHI SOUTH STREET SALT LAKE CITY 10. UTAH - U.S.A.

TELEPHONE

Our Lot No. 1428
Date 1-21-60
By DEN

DISTRIBUTION

(D) (Sa)

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			and the same of the same of the same of								LES. PER TON											-	-	-
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or territories or	Portsaut	72.0	28.0	100.00		The same of the sa					The state of the s	2	110	110	- 0.7			- Control of the Cont		Por	1			1
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Cam. 56 GRINDING

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Mesh + 48

+ 65 +100 4.150

+200 - 825

CABLE ...

THE GALIGHER COMPANY N. D. BOX 208 — SALT LAKE GITY 10, UTAH — U.S.A.

THE EPHONE

Our Lot No. 1428
Date 1-21-60
By DEN

Texting No.

Cerro de Pasco - Name

The continue designation of the continue of th		-	-		-					Windowski wa ta wa	Com es	St. Second	-		and district tenants	- Commence of the Commence of						- White the property of the last	-	-		And the state of t	-	-	-	-
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AX					-					-		8	88				-	and the same of th	-	-						+	+	-		-
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THE GALIGHER COMPANY P. O. DOX 109 — 541-355 WEST ON UTAH - U.S.A.

CABLE

TELEN D-8731

Our Lot No. 1428
Date 1-21-60
By DEN

Sample #2142

me Cerro de Pasco

Name ..

| Ouns. % GRINDING 家 DISTRIBUTION £ 68 +100 +150 1-200 90十 4-835 825 3.6 19 ERG. PER. NON Per mio. Su. 86 Strokes ASSAY (Calc) Mine men 51.5 य व्याव्य Mag. Cone 1A and 1B combined for assay. 190 18.6 Percent Weight 110 8,34 8.34 Wedght 1A Meg. Conc. Non-Meg. Heeds 1B Mag. Conc PRODUCE 18

CARLE P. C. BOX 200 "GALT" LA

THE GALIGHER COMPANY P. O. BOX 200 - SALT LAKE CITY 10, UTAH - U.S.A.

Telen o-9781

Our Lot No. 1428
Date 1-21-60
By DEN

Semple #2143

Wame Cerro de Pasco

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THE GALIGHER COMPANY P. C. BOX 205 — \$42-505 VEST SWITH SULL SALT LAKE CITY 10, UTAH — U.S.A.

CABLE "GALSAL"

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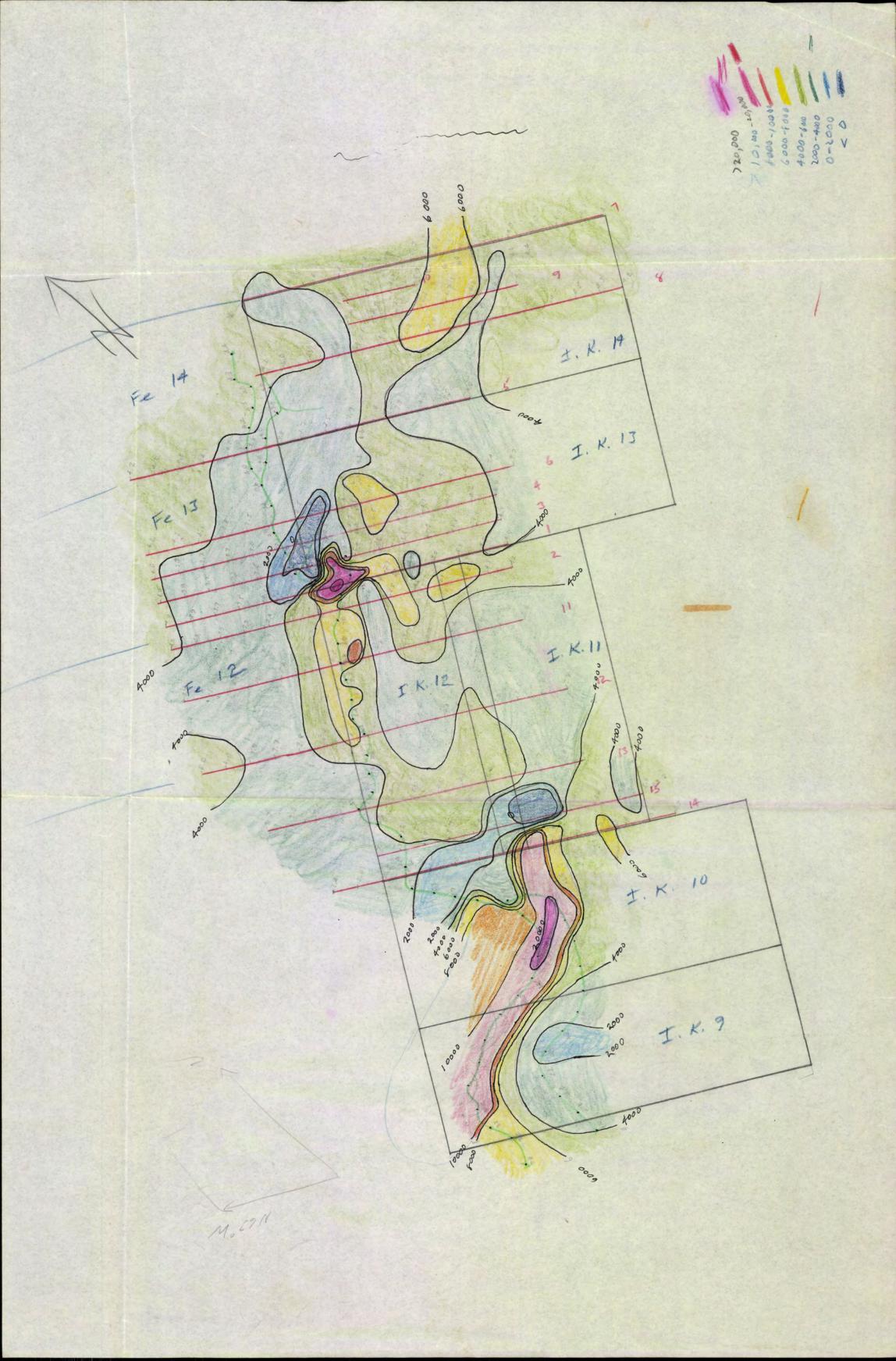
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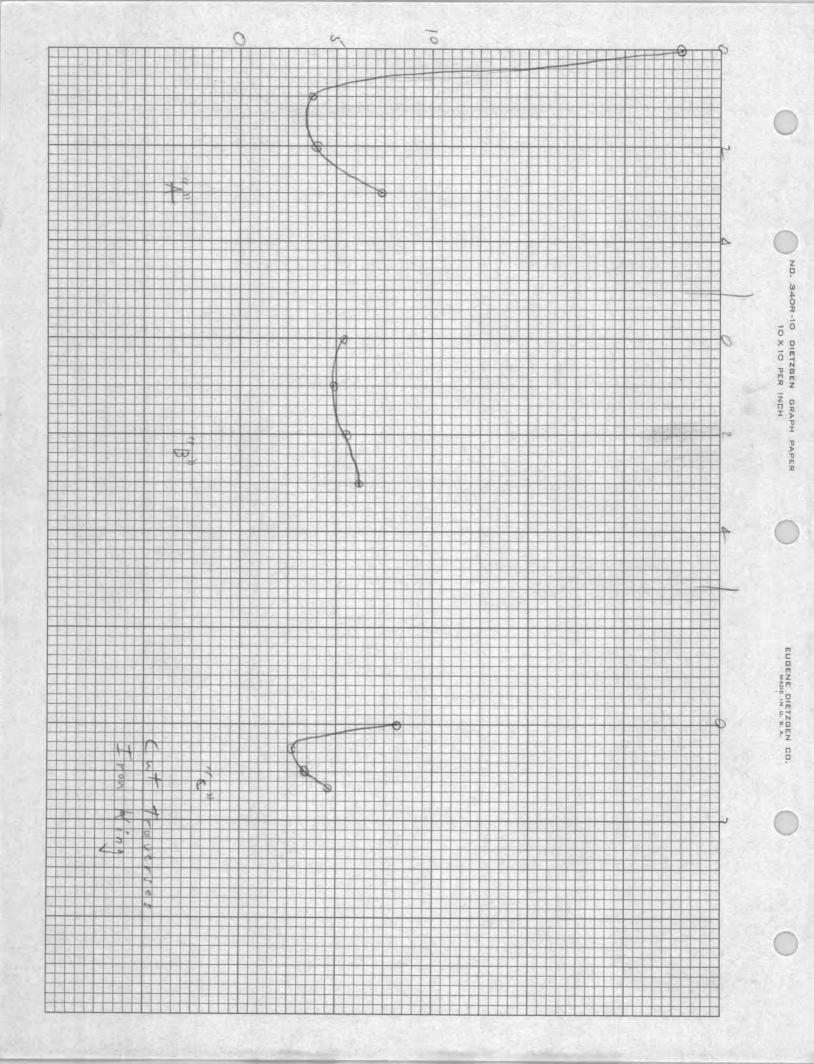
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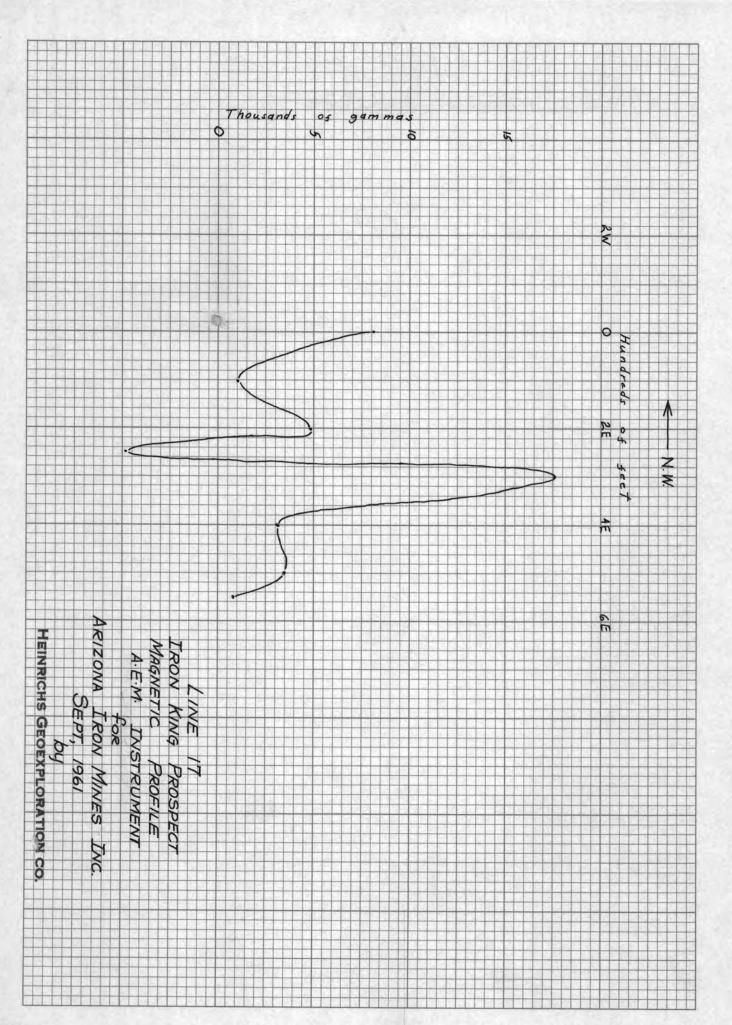
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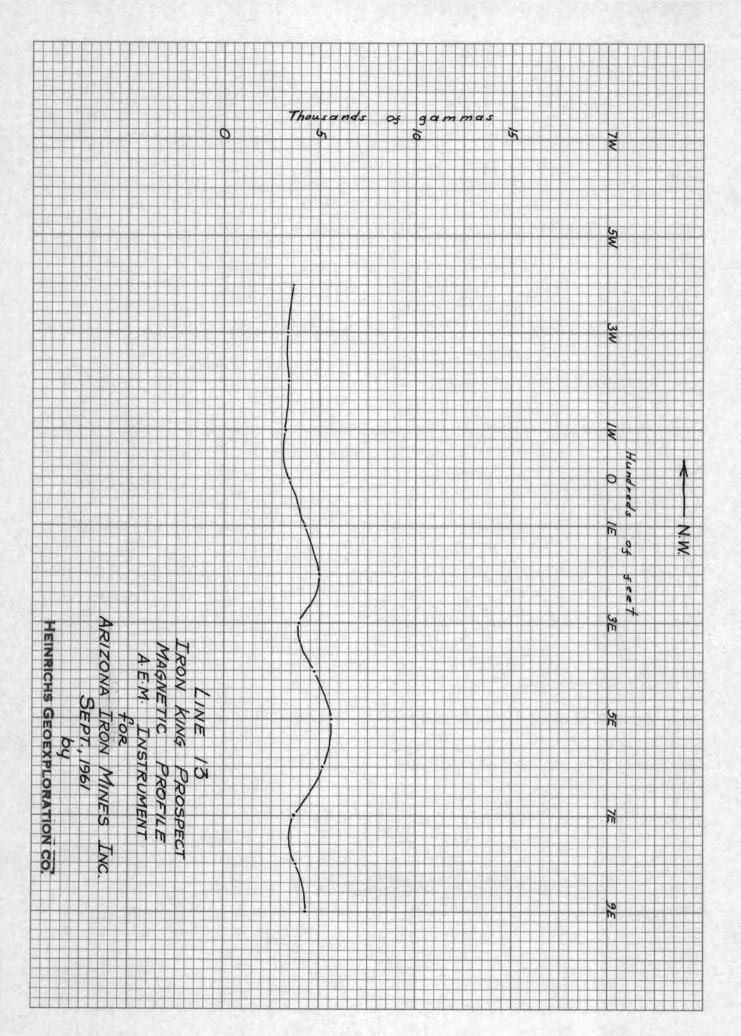


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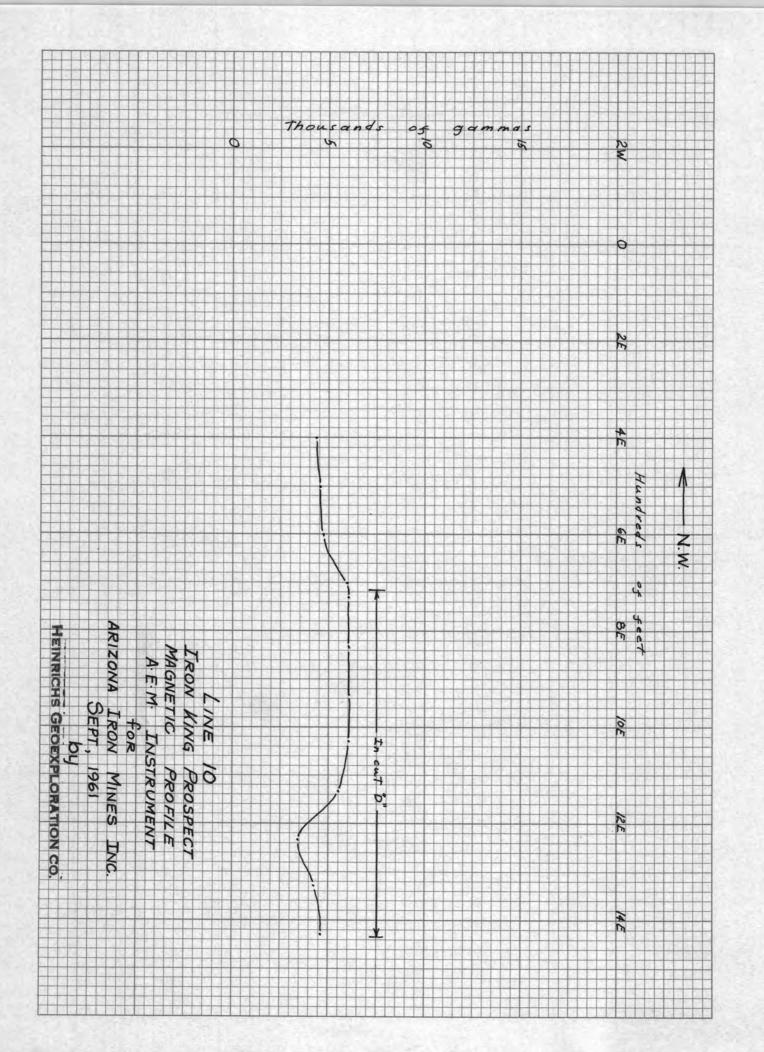
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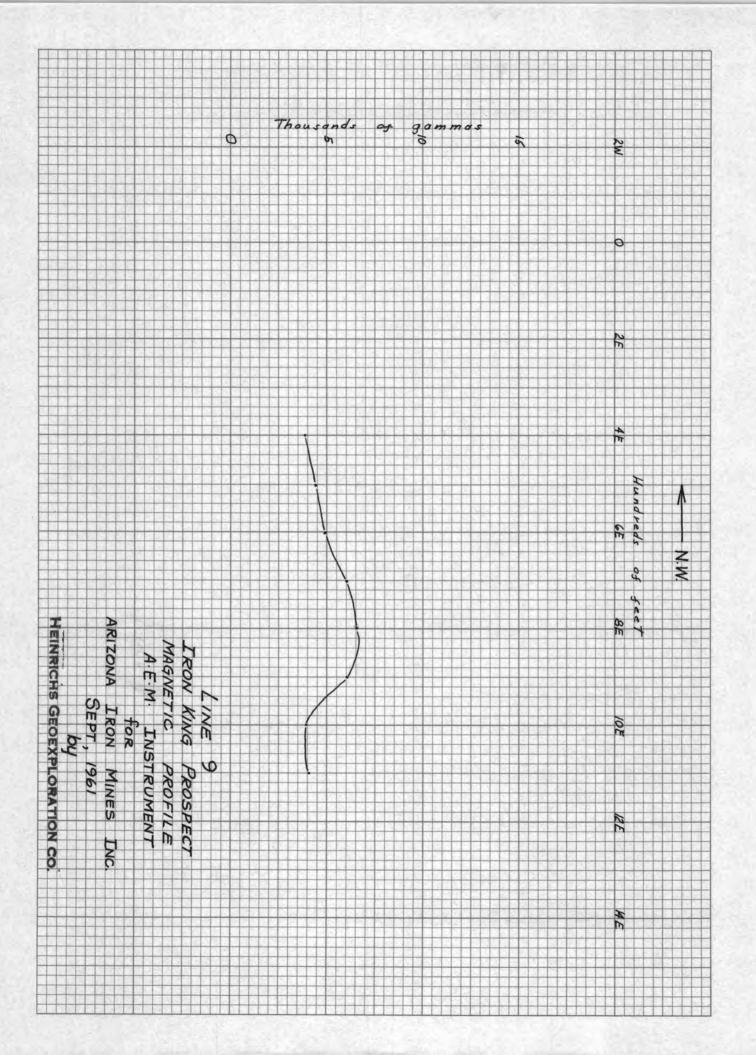


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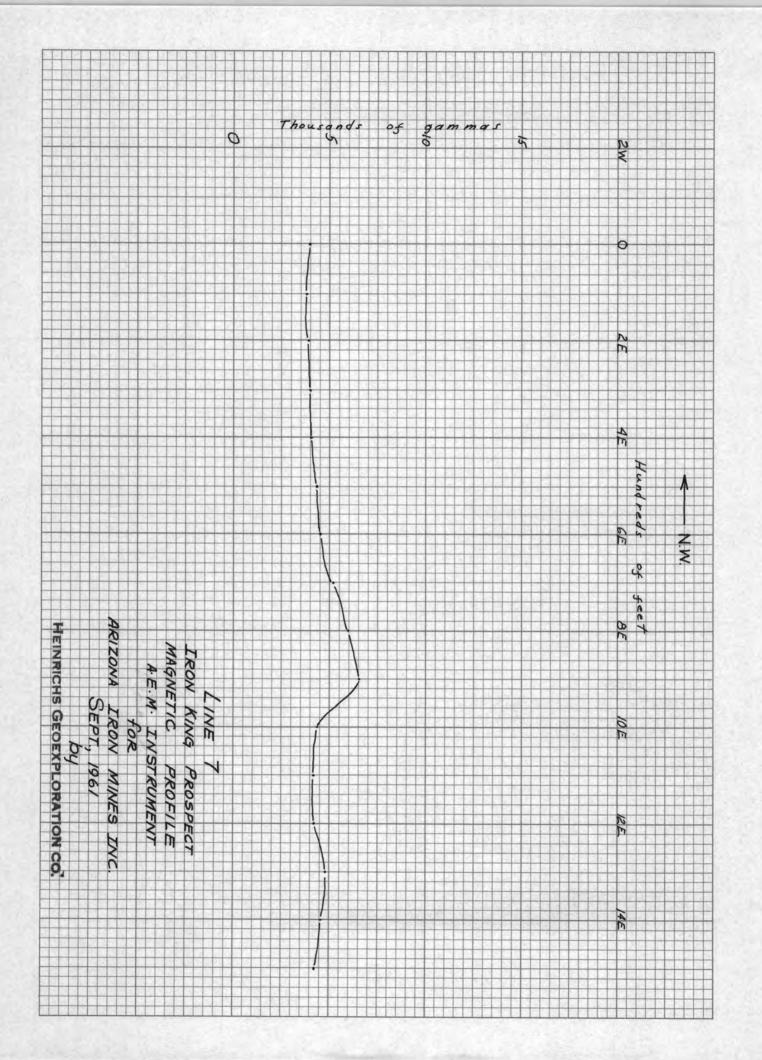
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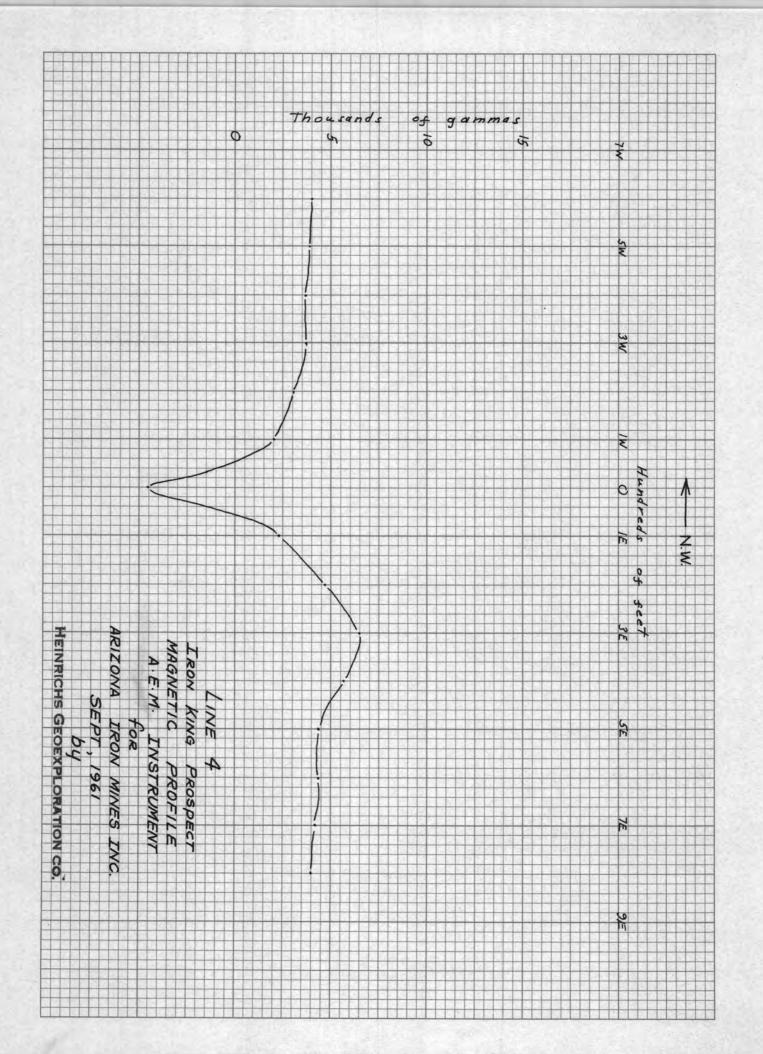
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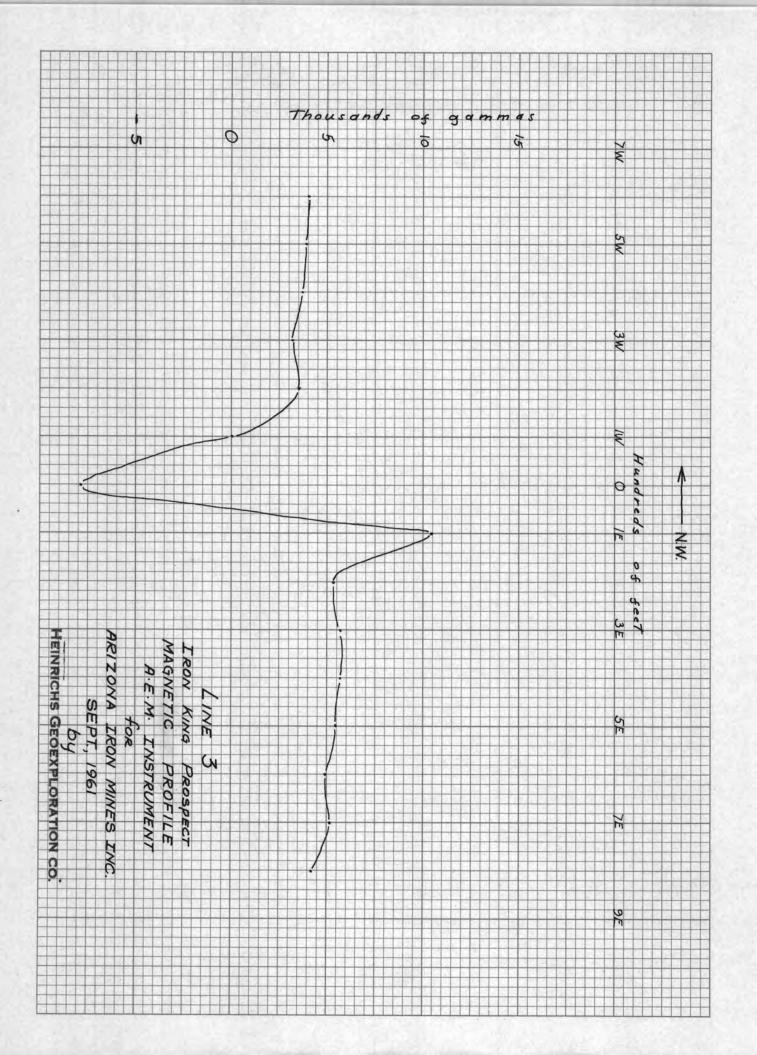


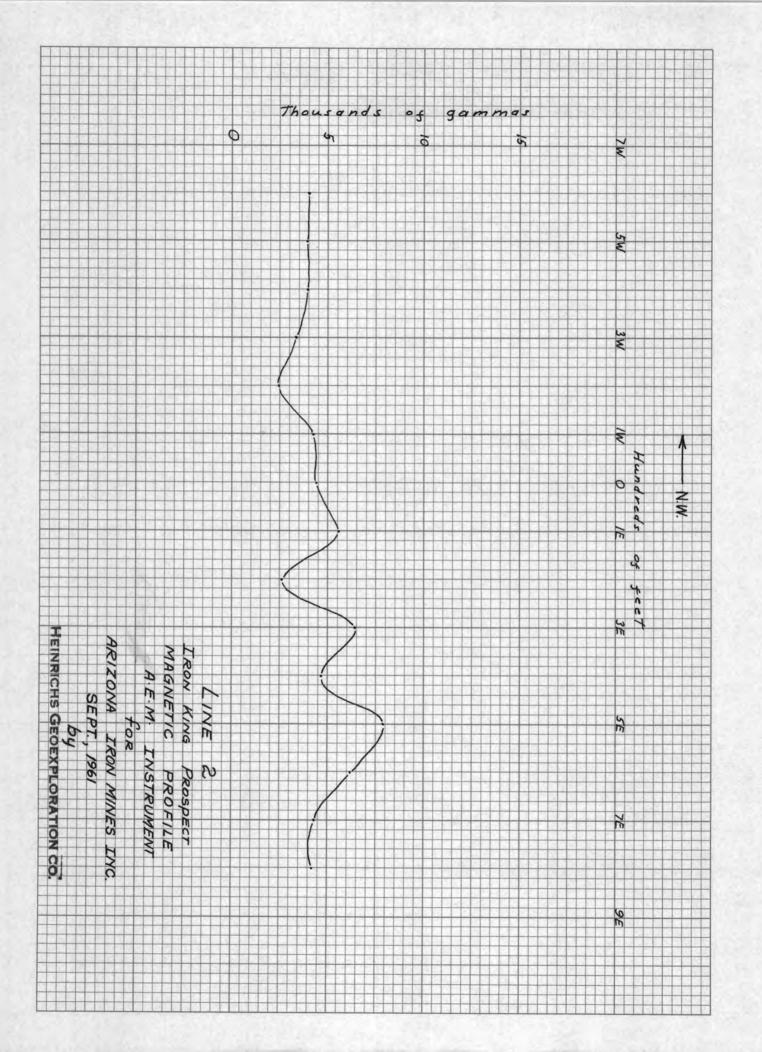
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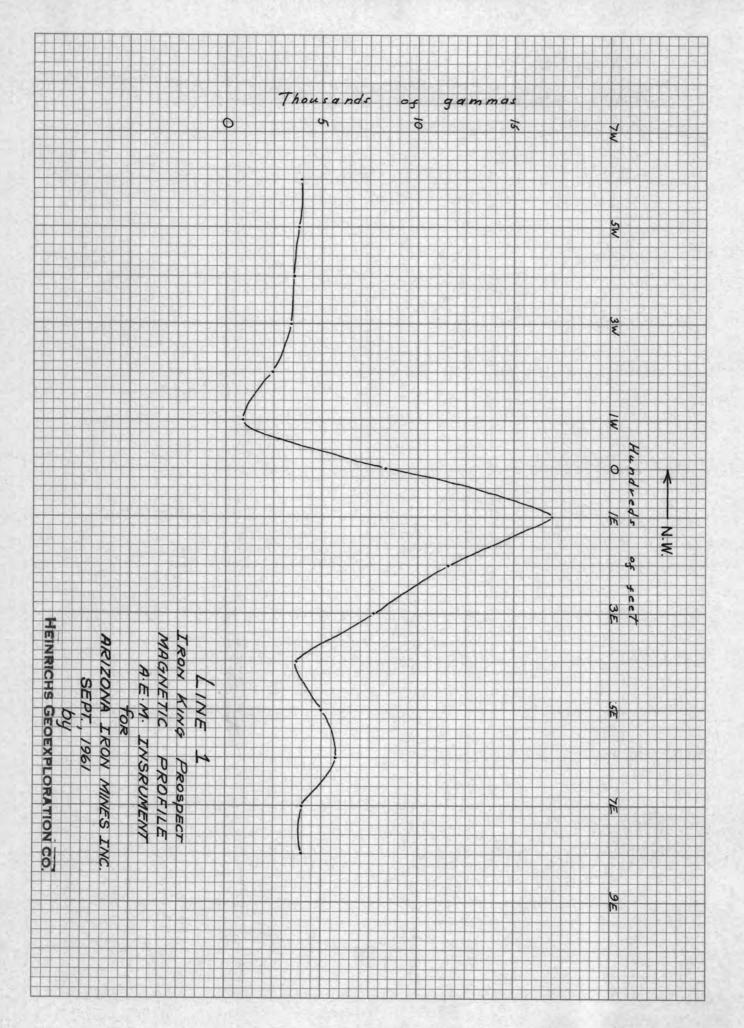
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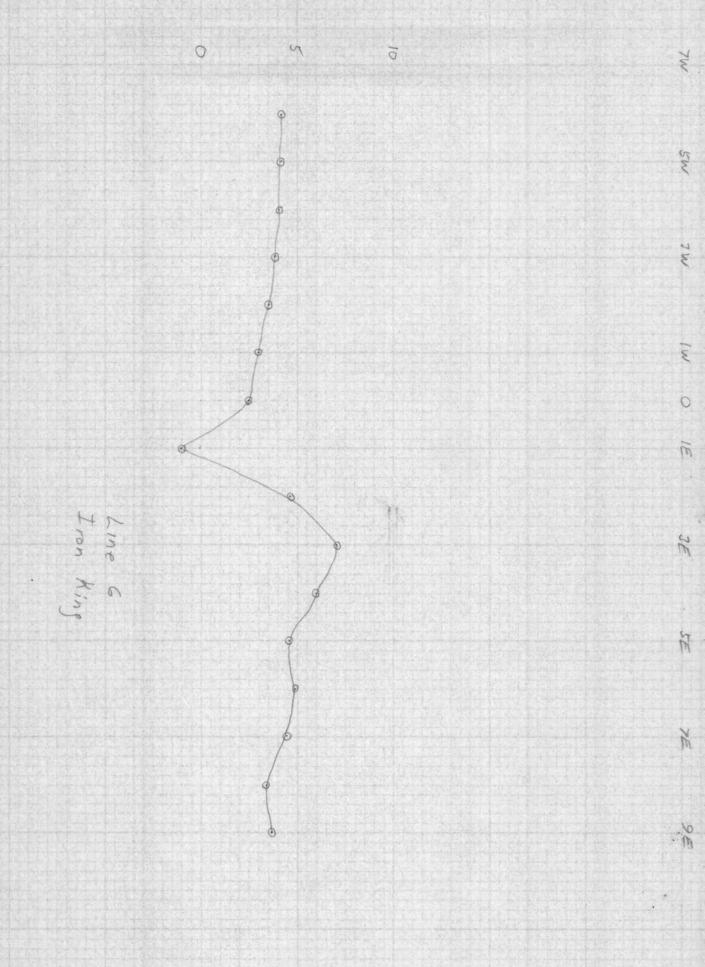
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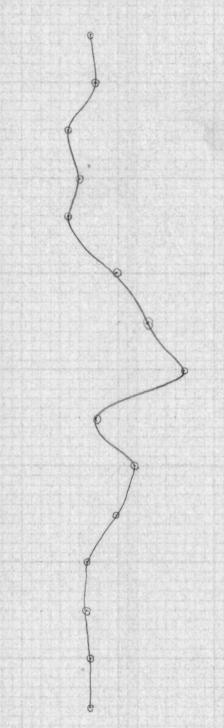
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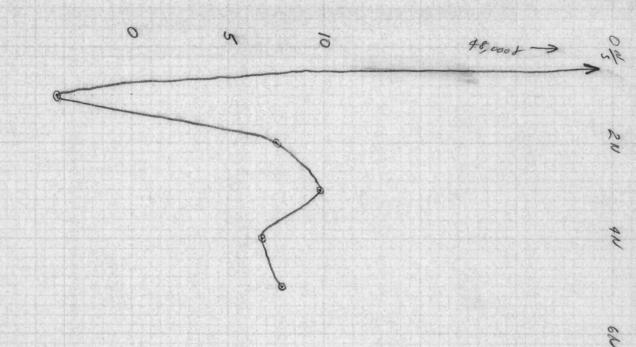
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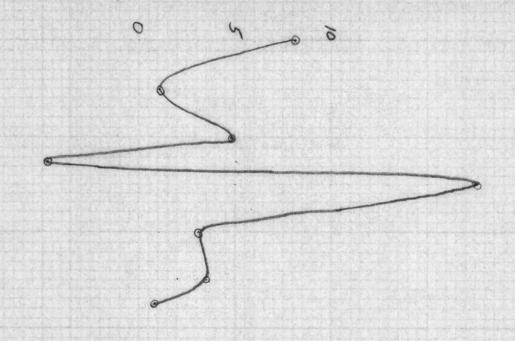
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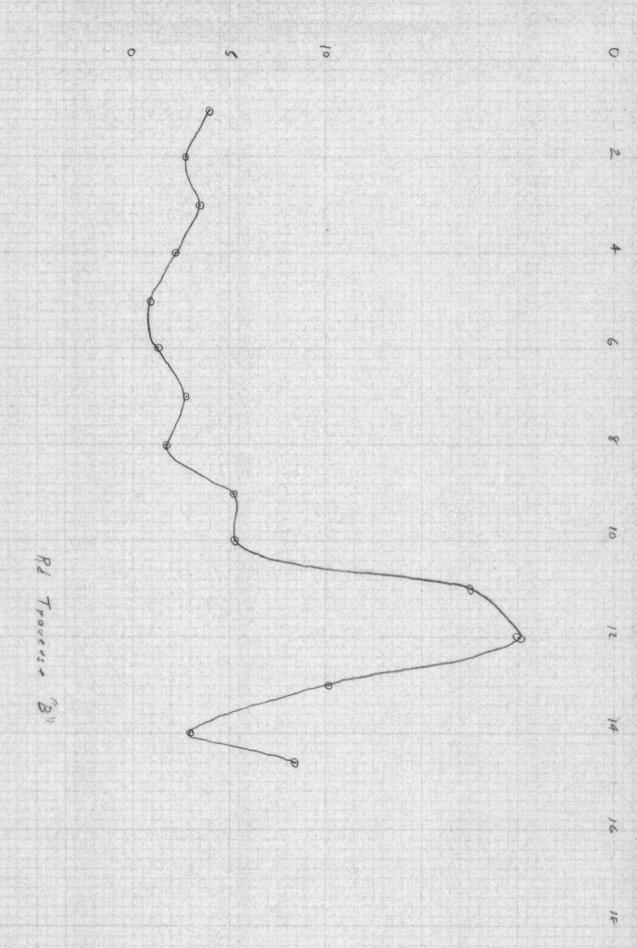
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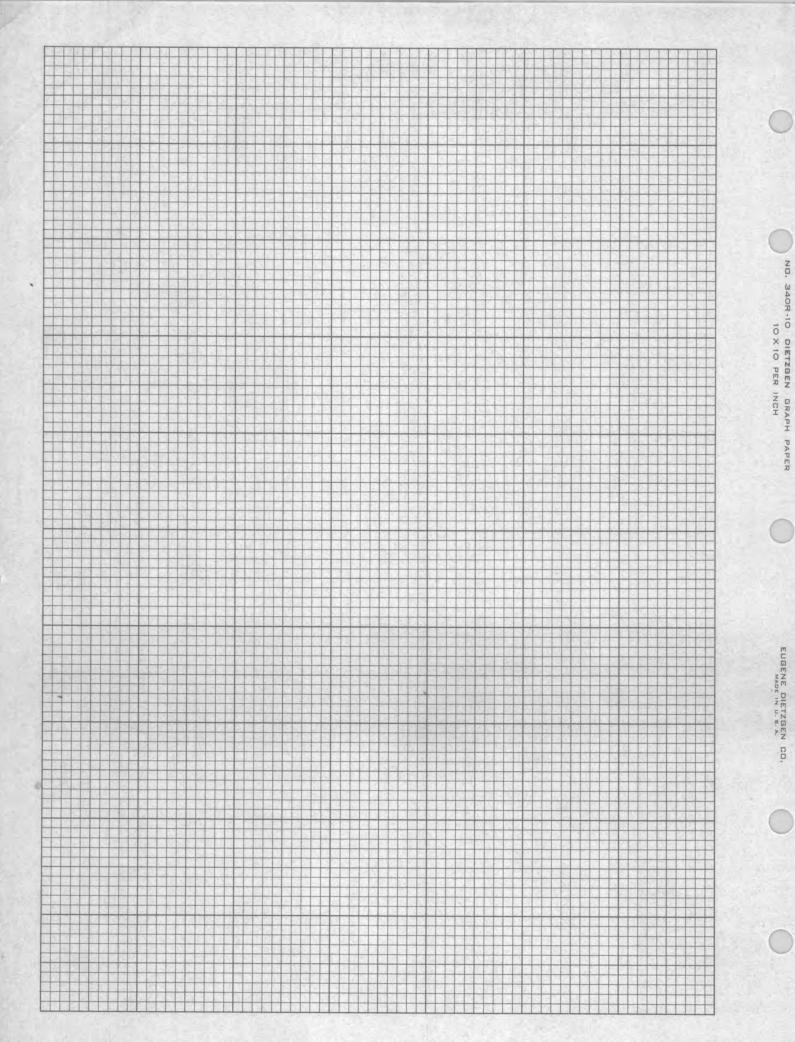
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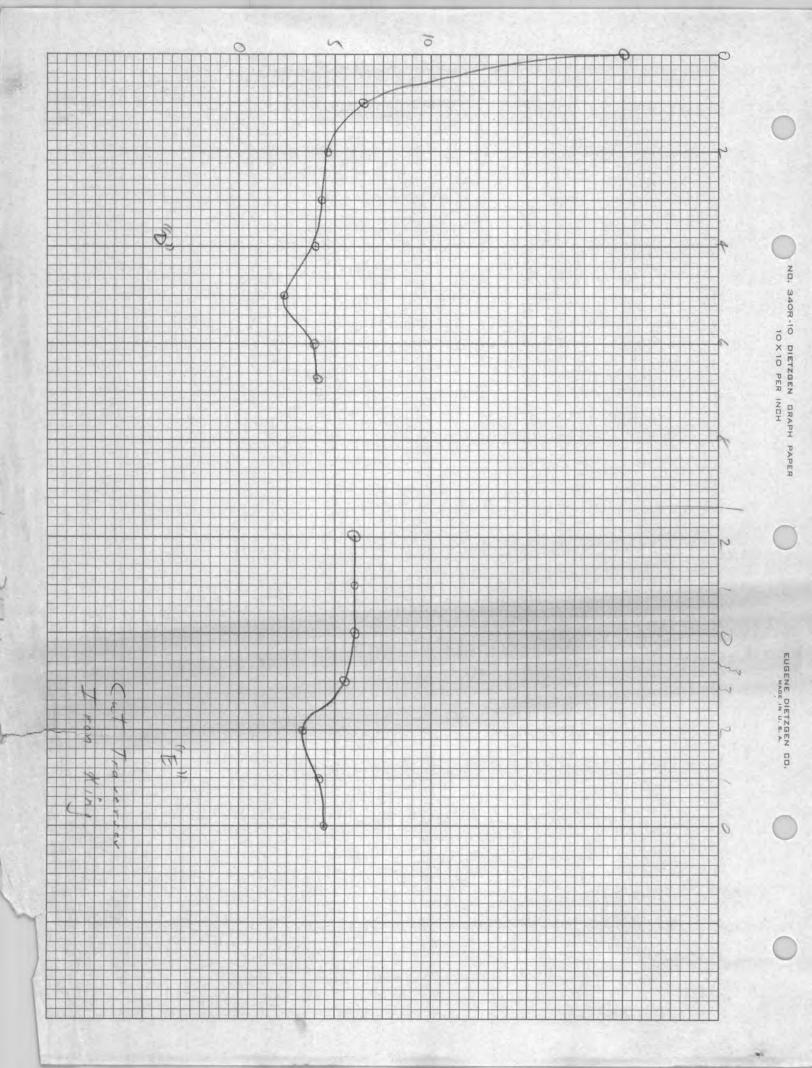
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EUGENE DIETZGEN CO.



## ASSAY LOG DDH #1 - IRON KING

Footage	Assay	
25.5 - 27.5 27.5 - 33 35 - 35 37 - 47 43 - 47 47 - 49 51 - 84.5 49 - 96 90 - 98 90 - 98 90 - 98	44.8 22.0 41.4 10.3 32.6 24.2 47.1 34.8 57.0 61.0 59.0 21.6 15.3 57.9 62.4	Interval 25.5' - 54.0' 28.5' of 36.0% Fe
100 - 102 102 - 104.5 104.5 - 106.5 106.5 - 109 109 - 111.5 111.5 - 115.9	5.4 30.6 12.9 5.8 52.5 14.9	31' of 24,8% Fe

<sup>\*</sup>Estimated grade because interval is too low to assay.

## ASSAY LOG DDH #3 - IRON KING

Foota	ge	Assay	
100 -	93 95 97 100 102 104	45.7 8.1 18.2 14.0 44.9	
	130.5 132.5 134.5 136.5	13.6 0.0* 27.0 50.2 39.6 34.5	Interval 90.5° - 107° 16.5° of 24.7% Fe
150.5 - 152.5 - 154.5 - 156.5 -	150.5 152.5 154.5 156.5 158.5	0.0* 18.1 14.4 24.0 36.1 24.4 21.6	Interval 130.5' - 139.0' 8.5' of 37.6% Fe
166 - 169.5 - 172 - 176 - 179.7 - 182 - 186 - 190 - 195 - 200 - 205 -	169.5 172 176 179.7 182	26.0 18.8 17.0 18.3 8.5 34.8 20.4 19.0 20.0 12.3 13.8	Interval 150.5' - 217' 65.5' of 19.9% Fe

<sup>\*</sup>Estimated grade because interval not assayed due to low grade.

## ASSAY LOG CDH #4 - IRON KING

Footage	Assay	
100 - 105 105 - 140 140 - 145	11.3 5.0* 15.6	Tutommo 1 1001 2201
145 - 150 150 - 155 155 - 160 160 - 165	17.2 18.6 20.9 17.2	Interval 140' - 330' 190' of 18.8% Fe
165 - 170 170 - 175 175 - 180 180 - 185 185 - 190	23.8 21.7 43.0 32.5 34.0	Interval 140' - 175' 35' of 19.3% Fe
190 - 195 195 - 200 200 - 205 205 - 210 210 - 215	37.4 14.5 29.1 41.3 27.7	Interval 175' - 220' 45' of 31.7% Fe
215 - 220 220 - 225 225 - 230 230 - 235 235 - 240	26.0 21.2 18.1 20.0 17.1	Interval 175' - 285' 110' of 17.9% Fe
240 - 245 245 - 250 250 - 255 255 - 260 260 - 265 265 - 270 270 - 275 275 - 280 280 - 285 285 - 290 290 - 295 295 - 300 300 - 305 305 - 310 315 - 320 320 - 325 325 - 330	12.7 14.9 19.6 13.9 13.0 15.0 12.8 14.7 0.0* 22.1 29.7 16.5 19.5	Interval 295' - 330' 35' of 21.8% Fe

Estimated grade because interval is too low to assay.

Footage	Assay	
136.5 - 139.5 139.5 - 142.5 142.5 - 146 146 - 149 149 - 152	41.1 15.2 16.6 29.4 25.3	Interval 136.5 - 226' Wtd. Assay = 89.5' of 30.7% Fe
152 - 154 154 - 158 158 - 160 160 - 162 162 - 164 164 - 167 167 - 169 169 - 171	24.6 7.3 37.2 34.7 47.5 28.2 45.1 48.0	Interval 158' - 218' Wtd. Assay = 60.0' of 35.6% Fe
171 - 174 174 - 177 177 - 180 180 - 184 184 - 187 187 - 190 190 - 193 193 - 197 197 - 201	55.0 33.9 48.1 19.7 34.2 36.3 29.4 26.8 24.8	Interval 158' - 180' Wtd. Assay = 22.0 of 41.8% Fe
201 - 204 204 - 207 207 - 209 209 - 216 216 - 218 218 - 226	51.5 33.0 23.2 46.5 18.8	Interval 201' - 218' Wtd. Assay = 17' of 37.5% Fe

## ASSAY LOG DDH #6 - IRON KING

Fo	ootage	Assay	Interval 104-206
104	- 106 - 109	35.9	Wt. Assay 102' of 21.1% Fe
109	- 112	19.0	Interval 104-121
112 114 118		6.7 31.8 3.6	Wt. Assay 17° of 19.9% Fe
119	- 121	26.9	Interval 126-159.5
121	- 128.5	8.0 37.6	Wt. Assay 33.5' of 28.7% of Fe
120.	5 <b>-</b> 131 <b>-</b> 139	32.7	Interval 126-131
139 142	- 142 - 145	13.6 27.3 39.6	Wt. Assay 5° of 35.1% Fe
145	- 148	47.5	Interval 139-148
148	- 149.5	9.3	Wt. Assay 9' of 38.1% Fe
151 5	5 - 151.5	23.0	
	- 157	26.0 38.5	Interval 149.5-159.5
157	- 159.5 - 164	37.0 7.7	Wt. Assay 10 of 31.9% Fe
167	- 167 - 168	27.5	Interval 159.5-206
168	- 172 - 174	6.2 35.1 7.5	Wt. Assay 46.5° of 17.4% Fe
174	- 176.5	21.8	Interval 181-189
178	- 178 - 180 - 181	5.9	Wt. Assay 8' of 28.4% Fe
	- 184	5.9 48.7	T
184	- 187	12.4	Interval 272-294 Wt. Assay 22' of 22.1% Fe
187 189	- 189 - 196	22.0	10. Assay 22 OI 22.1% Fe
	- 199	24.8	Interval 272-279
199 203 204	- 203 - 204 - 206	17.0 6.2 17.4	Wt. Assay 7' of 27.4% Fe
206	- 242	None	Interval 288-294
242	- 244 - 264	16.3 None	Wt. Assay 6' of 21.8% Fe
264 266 272	- 266 - 272	32.9 None	
274	- 274 - 275	34.6	
275 279	- 279 - 281	28.6	
281	- 285	10.3	
285	- 288	7.0	
288	- 290	26.1	
290	- 292 - 294	3.6	
-/-	-/	35.7	

# ASSAY LOG CDH #7 - IRON KING

	Assay	Footage
	11.1	115 - 120
	10.7	120 - 125
	12.7	125 - 130
	5.0	130 - 135
Interval 115 - 160	3.4	135 - 140
No plus 20% iron	3.0	140 - 145
	3.4	145 - 150
	4.5	150 - 155
	6.0	155 - 160

## ASSAY LOG DDH #8 - IRON KING

	Assay	Footage
	10.6	50 - 55
	7.6	55 - 60
	7.8	60 - 65
Interval 50' - 88'	7.4	65 - 70
No plus 20% Fe	14.9	70 - 75
	6.4	75 - 80
	5.5	80 - 84
	11.3	84 - 88

## ASSAY LOG DDH #9 - IRON KING

Footage	Assay	
20 - 24 24 - 34 34 - 36 36 - 38 38 - 40 40 - 42 42 - 44 44 - 46 48 - 50 50 - 52 52 - 54	52.1 5.0* 46.6 44.9 38.8 16.4 17.6 48.7 41.7 29.6 40.1 34.3	
46 - 48 48 - 50 50 - 52 54 - 56 56 - 62 58 - 60 62 - 64 64 - 70 72 - 74 76 - 80 80 - 80 80 - 80 80 - 80	40.1 34.3 29.4 39.2 52.7 52.5 46.5 31.4 27.7 36.1 19.8 5.0* 30.7	Interval 20' - 220' 200' of 16.9% Fe
85 - 87 87 - 89 89 - 91	23.2 51.5 35.2 36.1	Interval 20' - 72' 52' of 31.0% Fe
105 - 107 107 - 109 109 - 111 111 - 113	36.1 5.0* 19.0 5.0* 40.4 23.2 18.8 23.1 5.0*	Interval 72' - 121' 49' of 23.0% Fe
113 - 116 116 - 118 118 - 119 119 - 121 121 - 184 184 - 186 186 - 187 187 - 189 189 - 191 191 - 192 192 - 194 194 - 196	19.7 5.0* 31.6 0.0* 17.3 5.0* 31.9 26.2 5.0* 31.7 5.0*	Interval 187' - 202' 15' of 22.8% Fe

Footage	Assay
196 - 198 198 - 199 199 - 202 202 - 206 206 - 211 211 - 213 213 - 216 216 - 218	34.3 5.0* 24.3 10.9 16.1 16.4 5.0*
218 - 220	23.8

<sup>\*</sup>Estimated grade for intervals too low to assay.

#### ASSAY LOG DDH #10 - IRON KING

Footage	Assay
0 - 210	None
210 - 211	Med.
211 - 262	None
262 - 263	Med.
263 - 332	None

No assays because there is essentially no iron to assay.

# ASSAY LOG DDH #12 - IRON KING

Footage	Assay	
168 - 174	33.2	
174 - 176	5.0*	
176 - 178	35.1	Interval 168' - 190' 22' of 19.2% Fe
178 - 180	5.0*	22' of 19.2% Fe
180 - 182	21.4	
182 - 188	5.0*	
188 - 190	30.6	

<sup>\*</sup>Estimated grade because interval is too low to assay.

### ASSAY LOG DDH #14 - IRON KING

Footage

Assay

0-167

None

#### \*Estimated grade because interval is too low to assay.

Footage Assay	Interval 25.5' - 54.0' 28.5' of 36.0% Fe Interval 84.5' - 115.5' 31' of 24.8% Fe	8.45 8.5 9.05 4.5 9.05 4.5 9.05 4.5 9.05	6'STI- 5'TTI  6'STI- 5'TTI  60T- 60T  60T- 5'90T  5'10T- 20T  20T- 20T  20T  20T  20T  20T  20T  20T  20T
		Yessy	Pootage

PSERY LOG DDH #L - IRON KING

### ASSAY LOG DDH #3 - IRON KING

Footage	Assay	
90.5 - 93 93 - 95 95 - 97 97 - 100 100 - 102 102 - 104 104 - 107 107 - 130.5 130.5 - 132.5 132.5 - 134.5 134.5 - 136.5 136.5 - 139 139 - 150.5 150.5 - 152.5 152.5 - 154.5 154.5 - 156.5 156.5 - 158.5 158.5 - 162 162 - 166 166 - 169.5 169.5 - 172 172 - 176 176 - 179.7 179.7 - 182 182 - 186 186 - 190 190 - 195 195 - 200 200 - 205 205 - 210	45.7 8.1 18.2 14.0 14.9 33.7 13.6 0.0** 27.0 50.2 39.6 34.5 0.0** 18.1 14.4 24.0 36.1 24.4 21.6 26.0 18.8 17.0 18.3 8.5 34.8 20.4 19.0 20.0 12.3 13.8	Interval 90.5' - 107' 16.5' of 24.7% Fe  Interval 130.5' - 139.0' 8.5' of 37.6% Fe  Interval 150.5' - 217' 65.5' of 19.9% Fe
210 - 217	11.9	

\*Estimated grade because interval not assayed due to low grade.

### ASSAY LOG CDH #4 - IRON KING

Footage	Assay	
100 - 105	11.3	
105 - 140	5.0*	
140 - 145	15.6	Interval 140' - 330'
145 - 150	17.2	190' of 18.8% Fe
150 - 155	18.6	
155 - 160	20.9 17.2	
160 - 165 165 - 170	23.8	Interval 140' - 175'
170 - 175	21.7	35' of 19.3% Fe
175 - 180	43.0	
180 - 185	32.5	
185 - 190	34.0	
190 - 195	37.4	Interval 175' - 220'
1.95 - 200	14.5	45' of 31.7% Fe
200 - 205	29.1	
205 - 210	41.3	
210 - 215	27.7	Interval 175' - 285'
215 - 220	26.0	110' of 17.9% Fe
220 - 225	21.2	110 01 11.5% 10
225 - 230	20.0	
230 - 235 235 - 240	17.1	
240 - 245	12.7	Interval 295' - 330'
245 - 250	14.9	35' of 21.8% Fe
250 - 255	19.6	
255 - 260	13.9	
260 - 265	13.0	
265 - 270	15.5	
270 - 275	12.0	50
275 - 280	12.8	10
280 - 285	14.7	20 , 100
285 - 290	0.0*	2 , 3
290 - 295	0.0*	astract by Burdin 1128 100 1
295 - 300	22.1	2 ) and
300 - 305 305 - 310	29.8	fracy O Pan
310 - 315	25.7	Obo La
315 - 320	16.5	004
320 - 325	19.5	1 7 4
325 - 330	17.2 15 v	3 a 3 a a see low to assay.
	600	
	741	29 50
	HD / HD	31/3
*Estimated grade	because interval is	s too low to assay.

# ASSAY LOG DDH #5 - IRON KING

Footage	Assay	
136.5 - 139.5 139.5 - 142.5 142.5 - 146 146 - 149 149 - 152 152 - 154	41.1 15.2 16.6 29.4 25.3 24.6	Interval 136.5 - 226' Wtd. Assay = 89.5' of 30.7% Fe
154 - 158 158 - 160 160 - 162 162 - 164 164 - 167 167 - 169 169 - 171	7.3 37.2 34.7 47.5 28.2 45.1	Interval 158' - 218' Wtd. Assay = 60.0' of 35.6% Fe
171 - 174 174 - 177 177 - 180 180 - 184 184 - 187 187 - 190 190 - 193 193 - 197	55.0 33.9 48.1 19.7 34.2 36.3 29.4 26.8	Interval 158' - 180' Wtd. Assay = 22.0' of 41.8% Fe
197 - 201 201 - 204 204 - 207 207 - 209 209 - 216 216 - 218 218 - 226	24.8 44.2 51.5 33.0 23.2 46.5 18.8	Interval 201' - 218' Wtd. Assay = 17' of 37.5% Fe

## ASSAY LOG CDH #7 - IRON KING

Footage	Assey	
115 - 120	11.1	
120 - 125	10.7	
125 - 130	12.7	
130 - 135	5.0	
135 - 140	3-4	Interval 115 - 160
140 - 145	3.0	No plus 20% iron
145 - 150	3.4	
150 - 155	4.5	
155 - 160	6.0	

## ASSAY LOG DDH #6 - IRON KING

Footage	Assay	
104 - 106 106 - 109 109 - 112	35.9 4.0 19.0	Interval 104-206 Wt. Assay 102' of 21.1% Fe
112 - 114 114 - 118 118 - 119	6.7 31.8 3.6	Interval 104-121 Wt. Assay 17' of 19.9% Fe
119 - 121 121 - 126 126 - 128.5	26.9 8.0 37.6	Interval 126-159.5 Wt. Assay 33.5' of 28.7% of Fe
128.5 - 131 131 - 139 139 - 142	32.7 13.6 27.3	Interval 126-131 Wt. Assay 5' of 35.1% Fe
142 - 145 145 - 148 148 - 149.5 149.5 - 151.5	39.6 47.5 9.3 23.0	Interval 139-148 Wt. Assay 9' of 38.1% Fe
151.5 - 154 154 - 157 157 - 159.5	26.0 38.5 37.0	Interval 149.5-159.5 Wt. Assay 10' of 31.9% Fe
159.5 - 164 164 - 167 167 - 168 168 - 172	7.7 27.5 6.2 35.1	Interval 159.5-206 Wt. Assay 46.5' of 17.4% Fe
172 - 174 174 - 176.5 176.5 - 178 178 - 180	7.5 21.8 5.9 16.5	Interval 181-189 Wt. Assay 8' of 28.4% Fe
180 - 181 181 - 184 184 - 187	5.9 48.7 12.4	Interval 272-294 Wt. Assay 22' of 22.1% Fe
187 - 189 189 - 196 196 - 199 199 - 203	22.0 8.0 24.8 17.0	Interval 272-279 Wt. Assay 7' of 27.4% Fe
203 - 204	6.2 17.4 None	Interval 288-294
244 - 264 264 - 266	16.3 None 32.9	Wt. Assay 6' of 21.8% Fe
266 - 272 272 - 274 274 - 275 275 - 279	None 34.6 8.1 28.6	
279 - 281 281 - 285 285 - 288	10.3 30.7 7.0	
288 - 290 290 - 292 292 - 294	26.1 3.6 35.7	

### ASSAY LOG DDH #8 - IRON KING

10.6	
70.0	
7.6	
7.8	
7.4	Interval 50' - 88'
14.9	No plus 20% Fe
6.4	
5.5	
11.3	weight and the second
	7.8 7.4 14.9 6.4 5.5

## ASSAY LOG DDH #9 - IRON KING

Footage	Assay
20 - 24	52.1
24 - 34	5.0**
34 - 36	46.6
36 - 38	44.9
38 - 40	38.8
40 - 42	16.4
42 - 44	17.6
44 - 46	48.7
46 - 48	41.7
48 - 50	29.6
50 - 52	40.1
52 - 54	34.3
54 - 56	29.4
56 - 58	39.2 Interval 20' - 220'
58 - 60	52.7 200' of 16.9% Fe
60 - 62	52.5
62 - 64.8	42.2
64.8 - 70	46.5
70 - 72	31.2
72 - 74	38.6
74 - 76	21.4
76 - 78	27.7
78 - 80	36.1 Interval 20' - 72'
80 - 82	19.8 52' of 31.0% Fe
82 - 85	5.0*
85 - 87	30.7
87 - 89	23.2
89 - 91	51.5
91 - 93	35.2
93 - 95	36.1
95 - 97	5.0*
97 - 99	36.1 Interval 72' - 121'
99 - 100	5.0* 49' of 23.0% Fe
100 - 102	19.0
102 - 105	5.0*
105 - 107	40.4
107 - 109 109 - 111 111 - 113 113 - 116 116 - 118 118 - 119 119 - 121 121 - 184 184 - 186 186 - 187 187 - 189 189 - 191 191 - 192 192 - 194	23.2 18.8 23.1 5.0* 19.7 Interval 187' + 202' 5.0* 15' of 22.8% Fe 31.6 0.0* 17.3 5.0* 31.9 26.2 5.0* 31.7 5.0*

### ASSAY LOG DDH #9 - (Cont'd.)

Footage	Assay
196 - 198 198 - 199 199 - 202 202 - 206 206 - 211 211 - 213 213 - 216 216 - 218 218 - 220	34.3 5.0* 24.3 10.9 16.1 16.4 5.0* 16.5 23.8
210 * 220	23.0

Estimated grade for intervals too low to assay.

### ASSAY LOG DDH #10 - IRON KING

Footage	Assay
0 - 210	None
210 - 211	Med.
211 - 262	None
262 - 263	Med.
263 - 332	None

No assays because there is essentially no iron to assay.

## ASSAY LOG DDH #12 - IRON KING

Footage	Assay	
168 - 174	33.2	
174 - 176	5.0*	
176 - 178	35.1	Interval 168' - 190'
178 - 180	5.0*	22' of 19.2% Fe
180 - 182	21.4	
182 - 188	5.0*	
188 - 190	30.6	
2	1	

\*Estimated grade because interval is too low to assay.

Why wisconlinued

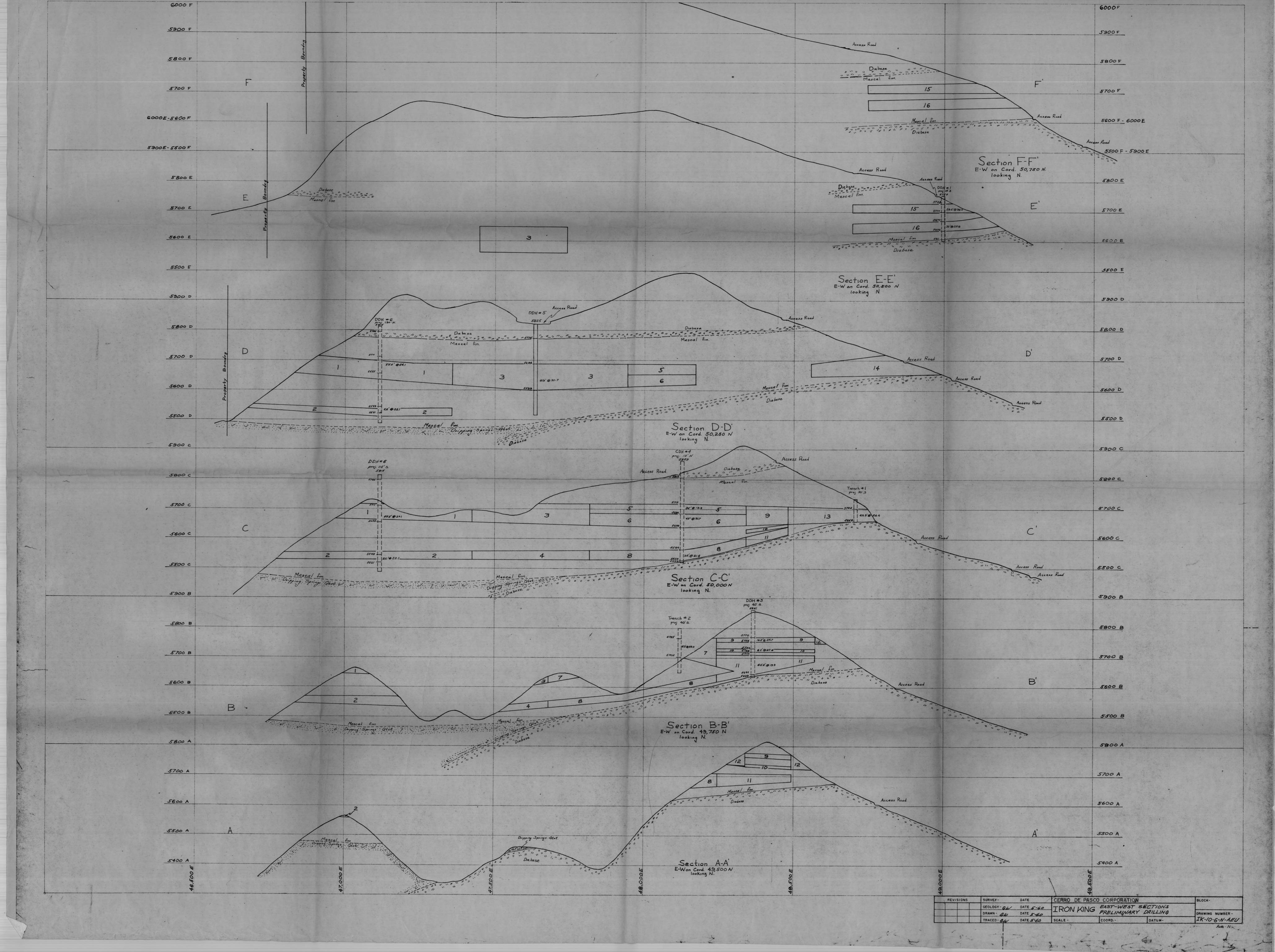
### ASSAY LOG DDH #14 - IRON KING

Footage

0 - 167

Assay

None



Cross Sections
South

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(7 OFAIM MAP

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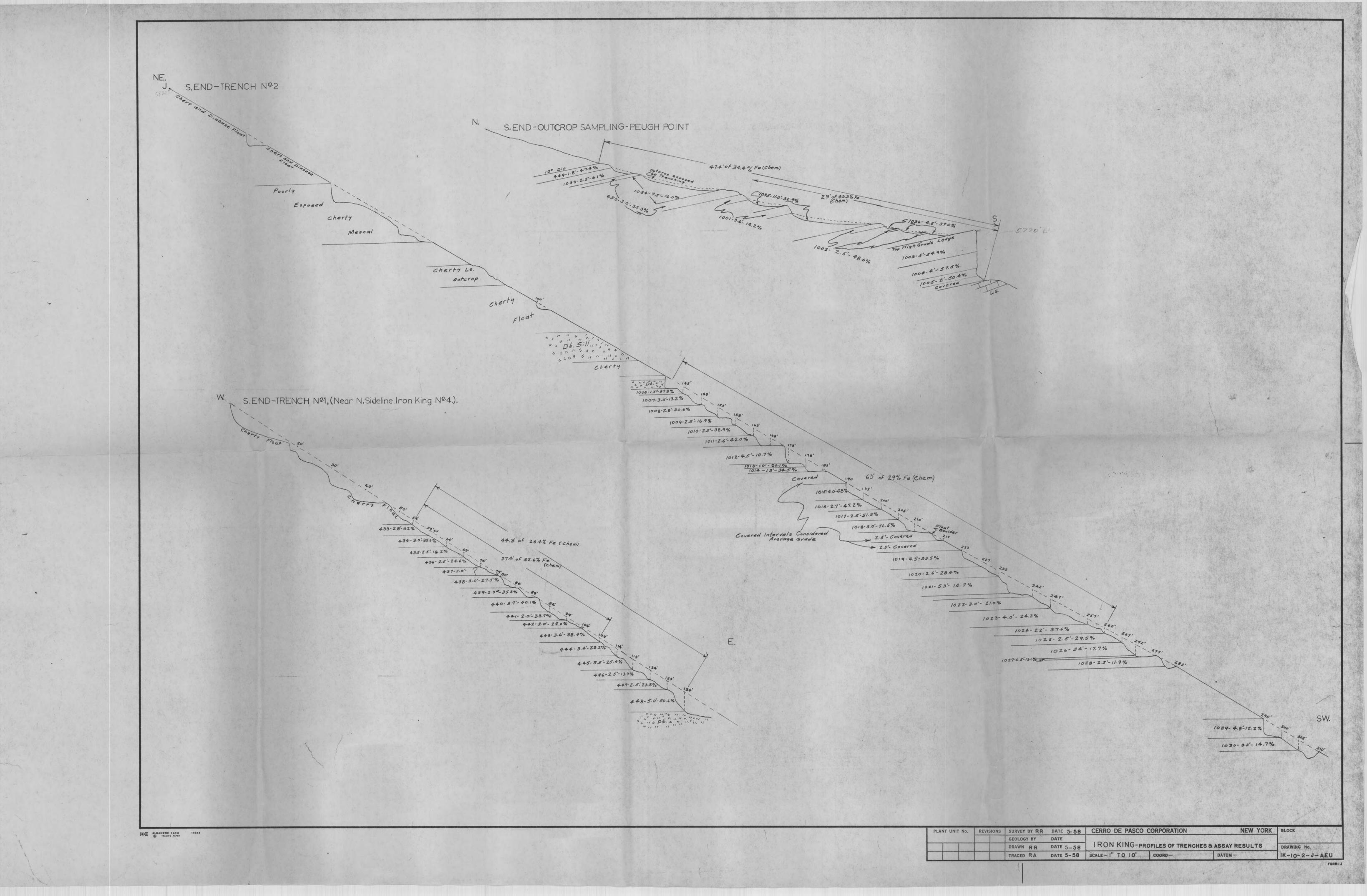
RAIM MAP

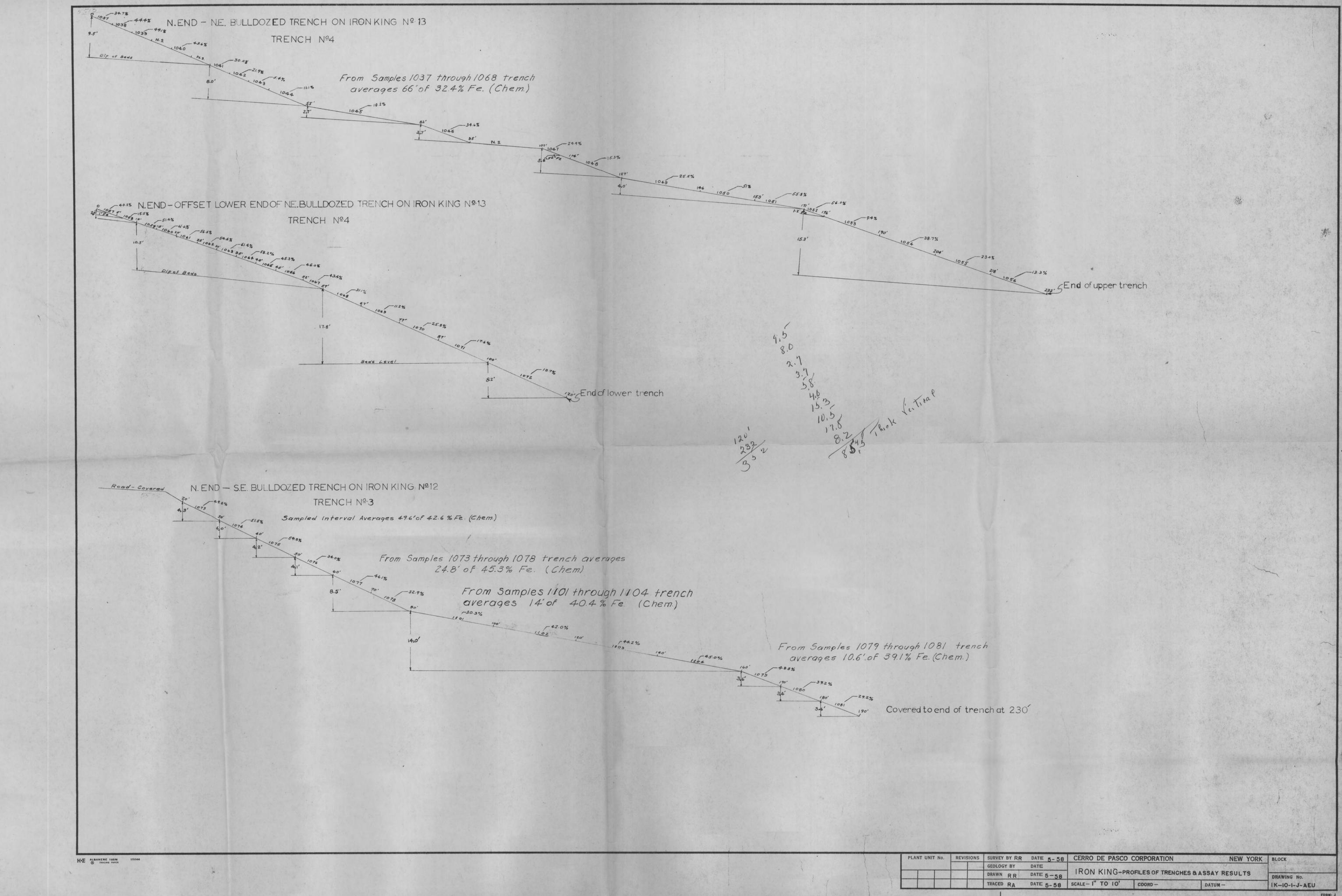
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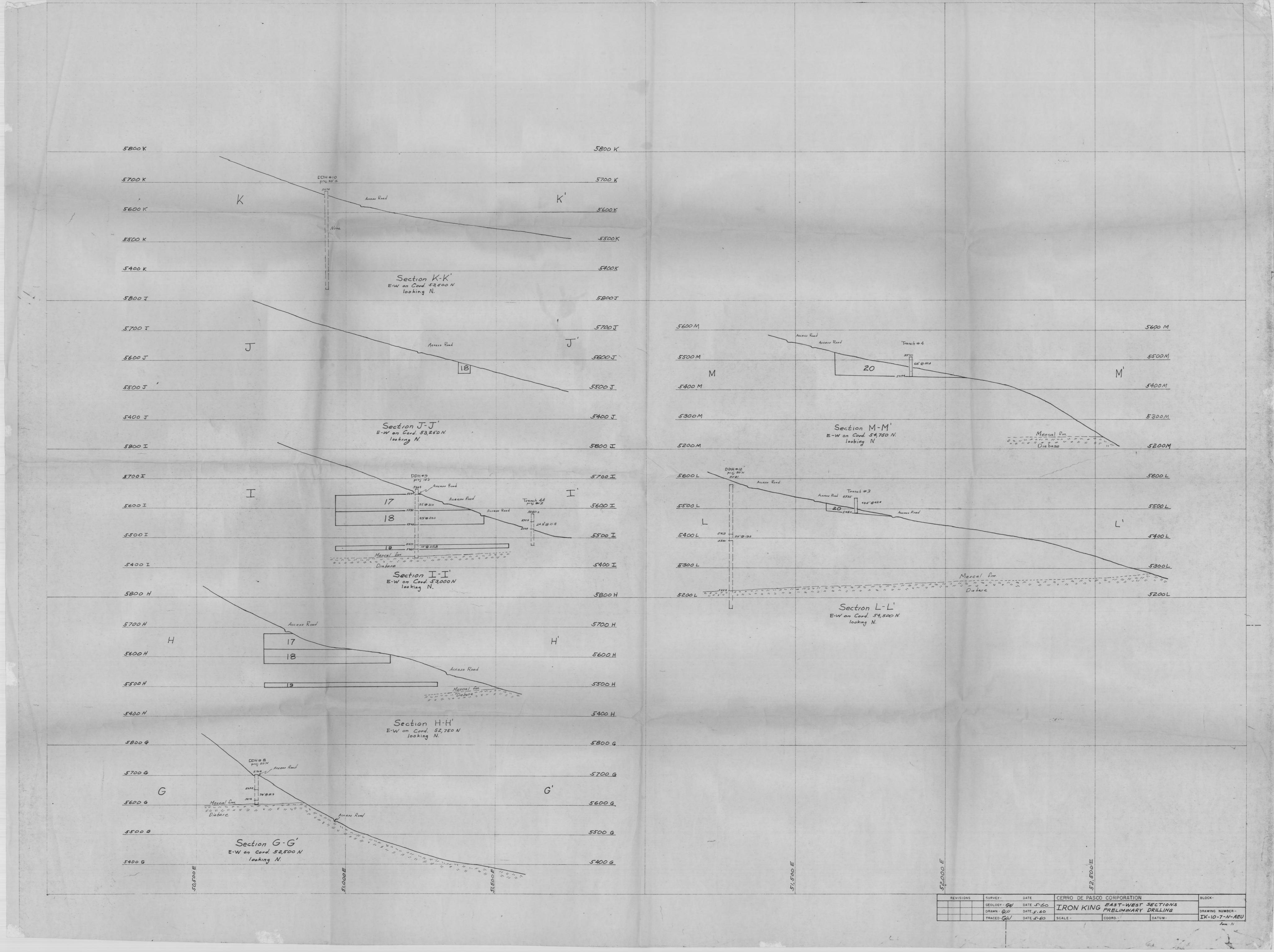
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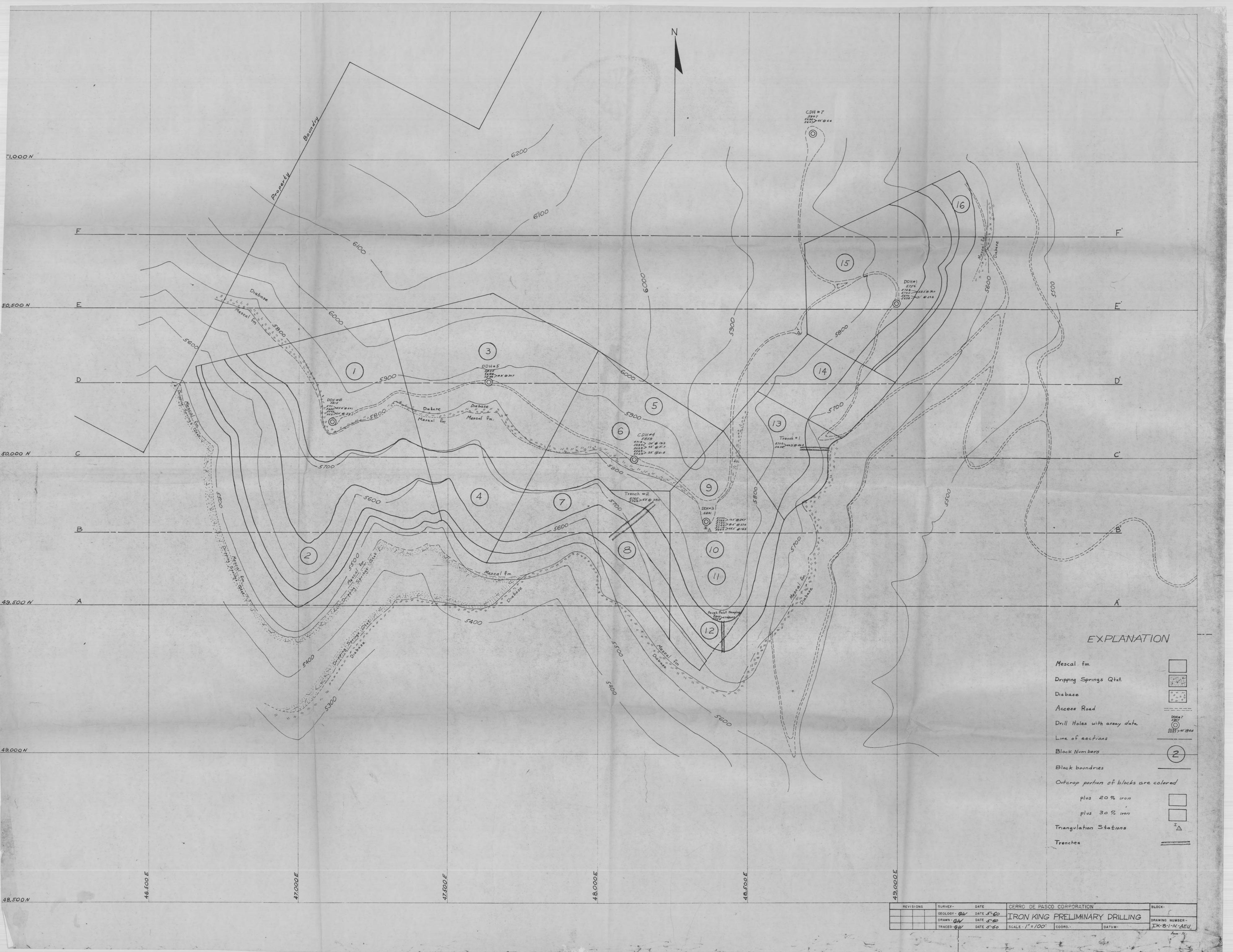
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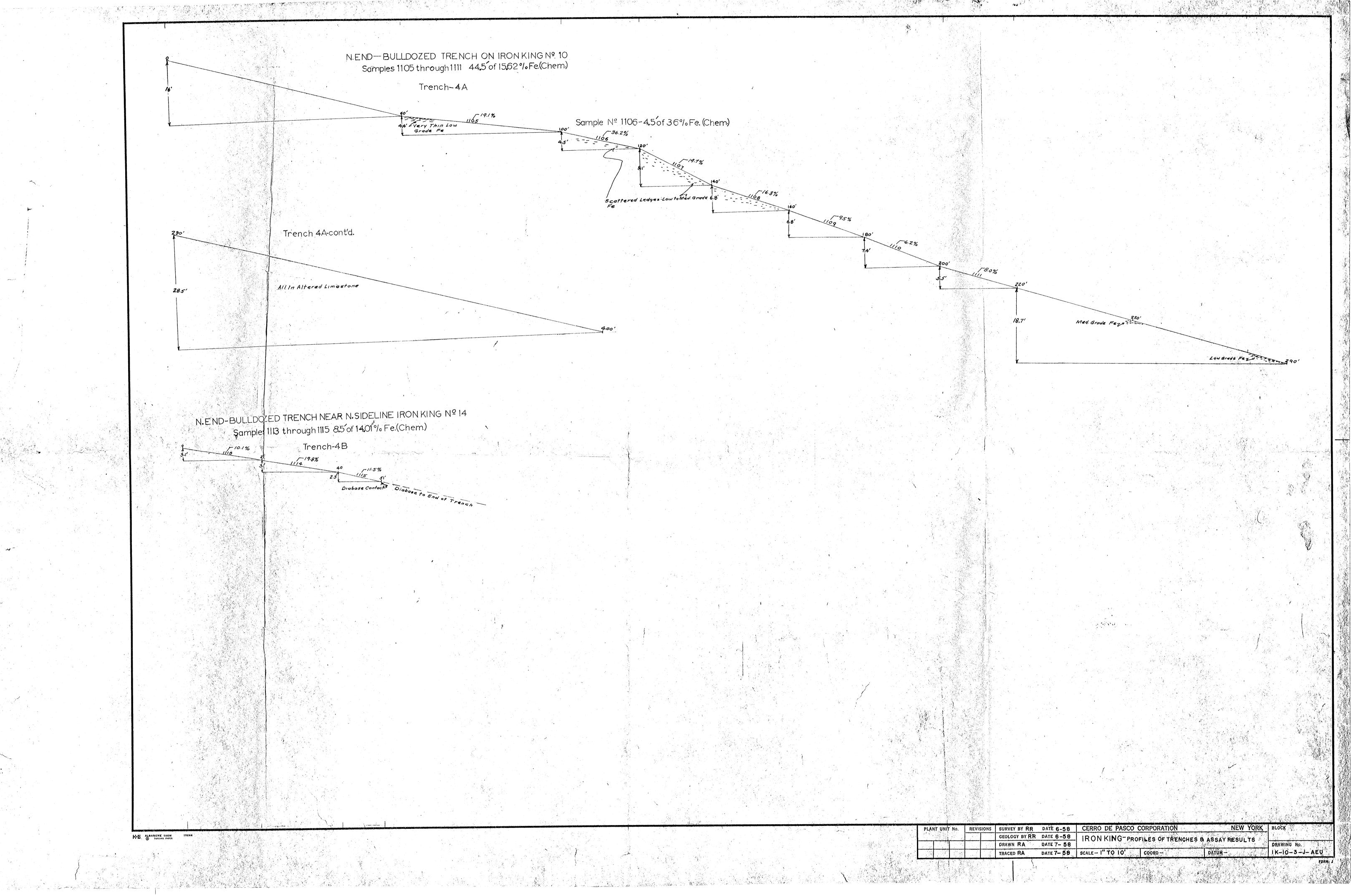


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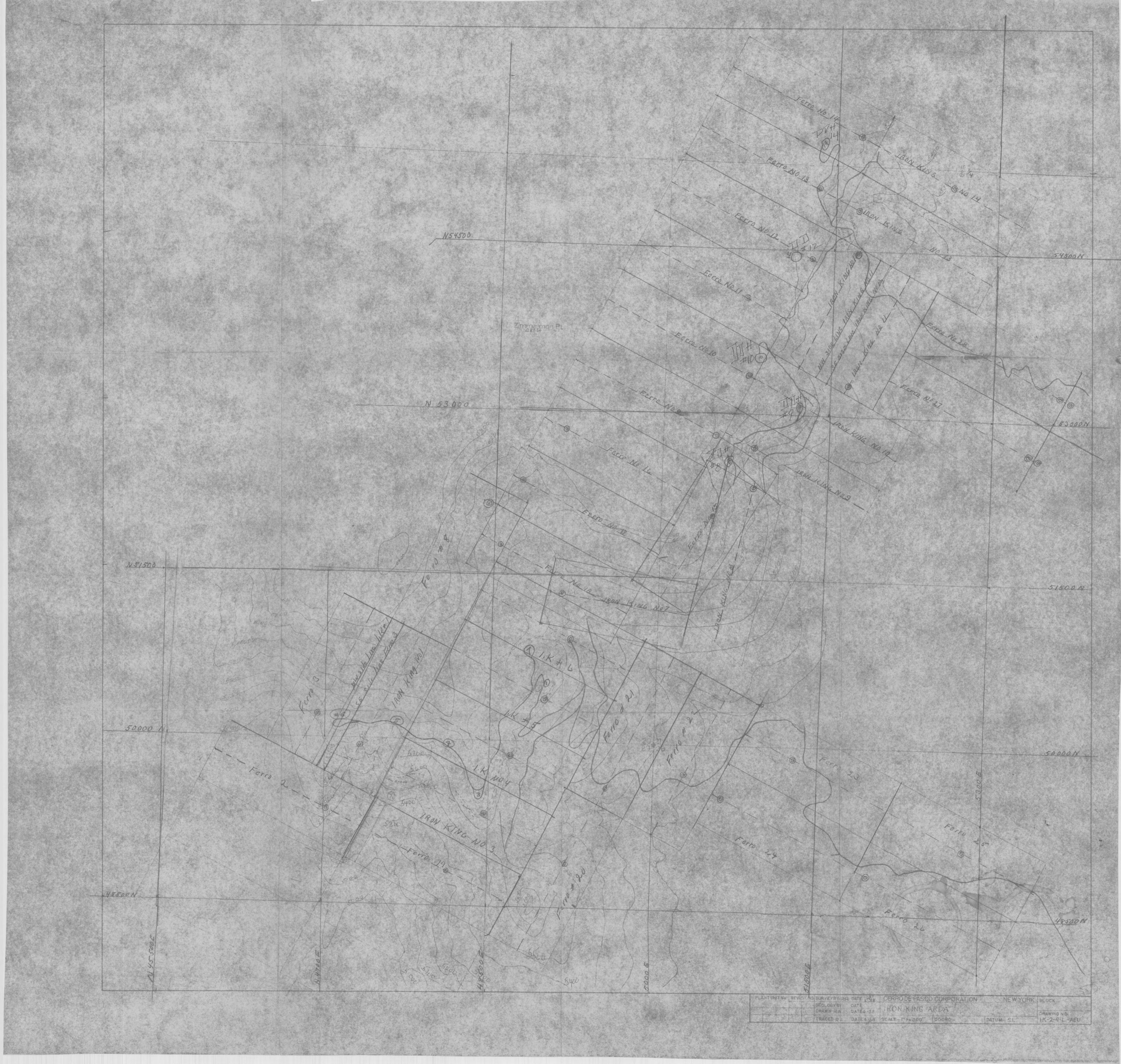
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### RAISER STEEL CORPORATION

FON TANA WORKS
P.O. Box 217 Fontend, California
Tolophone VAlley 2-8311

August 22, 1957

Mr. Charles H. Jonas Sands Hotel A Phoenix, Arisona

Dear Mr. Jonas:

The report of analysis as determined by our Laboratory on the sample of iron ore, which you brought in recently, showed the following composition:

Fe %	P%	Mn %	8102 %	Al203 %	CaO %	MgO \$	8 %
66.7	.086	.10	1.60	1.01	<b>367</b>	2.23	.011

The analysis showed that the sample was of good quality iron ore. Hay we suggest that you complete the two enclosed property sheet forms, returning one to us by mail and retaining the other property sheet for your own records.

After reviewing the imformation as shown on the property sheet, we will then advise in regard to any interest we might have to investigate the preperty with you or your representative, as a source of supply of open hearth iron ore.

We wish to thank you for the interest shown by bringing the cample to us for analysis.

Very truly yours,

K. B. Powell Superintendent Raw Materials

KBP:nkf Englosures - 2

### ARIZO NA IRON MINES, INC.

( Iron King Group)

### NORTH END

A type sample representing a considerable portion of the ore body at the North End of the Iron hing Group was crushed to 100 Mesh.

Using a hand magnet, if impossible to separate the magnetic portion as the entire mass adheard.

The sample at the laboratory at the Hibbing Lab. in Minn. was unquestionably run on a varable intensity wheel.

To clean up our sample, we made a slurry and decanted gangue material. This gave us a 69.10 iron content returned.

However, under the micrscope you could see free particles of gangue.

For this reason, I am willing to assume the eccuracy of the 69.6 Hibbing sample.

Mr. Charles Older

Dear Charles and Bob.

Bob Paugh is typeng this letter, so emough excuses!

I spent a year and & research on Perro Oxide, with the ultimate goal of producing a 99.8 to 99.9 non-synthetic iron oxide, in the hope that it would fill a field competively with oxides of comparable grade made by electrolysis calcining and by chemical solution.

This being done on the gamble that an unchange from nature's form product would have electronic and microwave charactistics that would affect the product and bring about phenomena different that the synthetic.

It may prove crazy and valueless, but I've had a lot of encouragement from several scientist who say," If you can get rid of the silica, and get it pure enought, it would be of tremendous interest to us, for a study of Xray difraction, lattice structure, surface transfiguration, and geometric pattern.

TELEPHONES:
HIBBING AM 3-3613
DULUTH RA 7-5068
RENO FA 2-8818

### W. S. MOORE CO.

MINING AND CONTRACTING
545 SOUTH CENTER STREET
RENO. NEVADA

March 9, 1961

Mr. Charles H. Jonas 4131 East Van Buren Phoenix, Arizona

Dear Mr. Jonas:

It was a pleasure meeting you in Phoenix last week and having a chance to look over some of the Arizona iron deposits.

After due consideration it seems to me that the Iron King prospect north of Globe is the only one with sufficient tonnage potential to be of future interest to us. As we discussed in our field trip post mortem, this property has several defects but none are necessarily fatal in view of a fairly sizeable quantity of magnetite.

I am sending some of the grab samples I cut to our office in Hibbing, Minnesota, for analyses and concentration tests. These will probably take a couple of weeks but please bear with us as the results should provide a sound basis for coming to a decision on the prospect. I will see that copies of all such tests are furnished you.

Kindest personal regards,

Very truly yours,

W. S. MOORE CO.

Irving W. Moore, Geologist

cc: W.S.M.

### KAISER STEEL CORPORATION

P. O. Box 217 Fontene, Celifornio Telephone VAlley 2-8311

August 22, 1957

Mr. Charles H. Jonas Sands Hotel Phoenix, Arisona

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Fo %	P %	Mn %	S102 %	Al203 %	CaO %	MgO %	8 %
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Very truly yours,

E. B. Powell Superintendent Raw Materials

KBP:nkf Englosures - 2

TELEPHONES:
HIBBING AM 3-3613
DULUTH RA 7-5068
RENO FA 2-8818

### W. S. MOORE CO.

MINING AND CONTRACTING 545 SOUTH CENTER STREET RENO, NEVADA

August 6, 1962

Mr. Charles H. Jonas Dynamic Research, Inc. 1444 S. 27th St. Phoenix, Arizona

Dear Mr. Jonas:

I have copied off the figures available from my files that pertain to the Iron King mine and the results are attached herewith. I trust they will meet your requirements.

Inasmuch as we remain interested in any possible use for iron ore under a practical approach, either as a raw material or as a manufactured product, your continuing experiments are of more than academic interest to us. I expect to be in Arizona later this fall and I will stop in Phoenix so we can discuss the iron ore picture at greater length.

Kindest personal regards.

Yours truly,

IRVING F MOORE

m

# RESULTS OF TESTS ON IRON ORE FROM THE IRON KING MINE NEAR GLOBE, ARIZONA

Tests conducted by the Erie Laboratory of Pickands Mather, Hibbing, Minnesota, for the W. S. Moore Co.

### CRUDE ANALYSIS

Sample	Fe	SiO <sub>2</sub>	P	S	TiO2
1. South Outcrop	53.57	9.57	0.72	0.007	0.04
2. South Low Grade	13.02	5.536	0.348	(High	in CaCO3)
3. North Trenches	58.99	5.84	0.021	0.003	0.11

### MAGNETIC TUBE TESTS

Sample	Size	Product %	weight	Assay Iron	% Silica	% Total
1.	-100 mesh	Mag. Conc.	79.06	66.23		98.11
		Non-mag Tails	20.94	4.82		1,89
		Total	100.00	53.37	9.57	100.00
2.	-100 mesh	Mag. Conc.	22.12	54.33		92.32
	mesn	Non-mag Tails	77.88	1.29		77.68
		Total	100.00	13.02	5.36	100.00
3.	-100 mesh	Mag. Conc.	82.69	69.60		97.6
		Non-mag Tails	17.31	8.32		2.4
1		Total	100.00	58.99	5.84	100.00

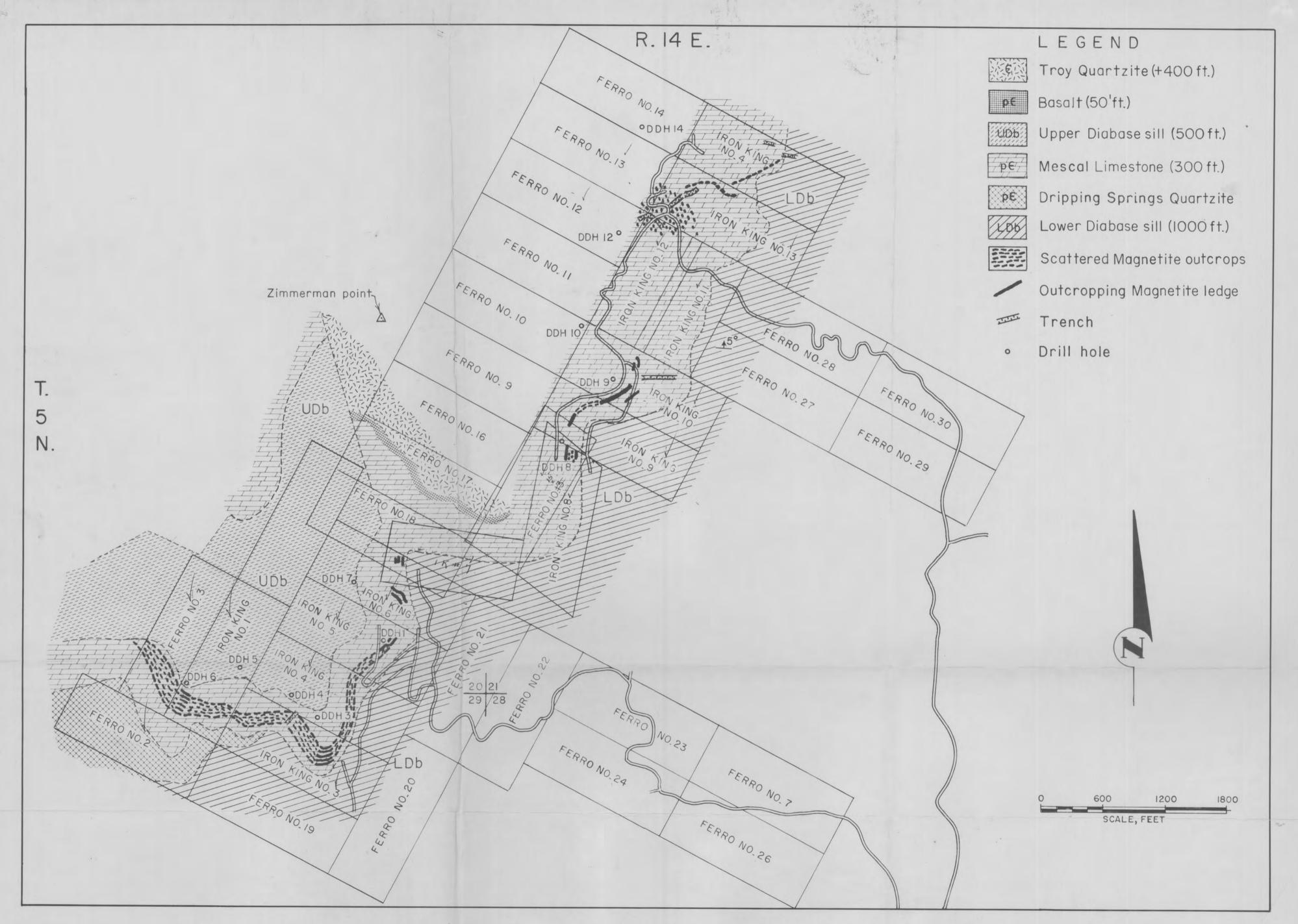


FIGURE 17 .- Iron King-Ferro Magnetite Deposit, Gila County, Ariz.



## UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF MINES

#### REGION III

DIVISION OF MINERAL RESOURCES

BUILDING 20, FEDERAL CENTER DENVER 25, COLORADO

August 30, 1962

Mr. Charles H. Jonas, Mining Engineer Dynamics Research, Inc. 4131 East Van Buren Phoenix 34, Ariz.

Dear Mr. Jonas:

Enclosed is a copy of a chapter describing the iron occurrences at Zimmerman-Asbestos Points and your Iron King property in Gila County, Arizona which I hope to include in a Bureau of Mines publication titled "Reconnaissance of Iron Occurrences in Arizona". The text is based on personal observations and your kind information.

I would appreciate any revision of this text and map to a form most acceptable to you for publication and a statement to the effect that it can be published. A return envelope is enclosed.

Cordially yours,

C.M. Harrer

C. M. Harrer, Mining Engineer Division of Mineral Resources Region III U. S. Bureau of Mines, Bldg. 20 Denver Federal Center Denver, Colo

### Zimmerman-Asbestos Points Magnetite

Magnetite occurs extensively between and beyond Zimmerman and Asbestos Points (location 44, fig. 1) in the Sierra Ancha (fig. 10) in secs. 20, 21, and 29, T. 5 N., R. 14 E. The deposits comprise the Howard group of claims previously mentioned and the Zimmerman Point deposits comprising the Iron King 1-14 claims, the Ferro 1-34 claims, the Ferrous 1-34 claims, and the Ferric 1-4 claims that are the property of the Arizona Mines, Inc., controlled by Chas. Jonas and Robert Peugh of Phoenix, and Chas. S. Older of Los Angeles. The Zimmerman Point deposits are reached by driving 4 miles northwesterly from Globe on U. S. Highway Nos. 60-70 to its junction with the Apache Trail (Arizona Highway No. 88), then 15 miles northwesterly on the Apache Trail to its junction with the Young road (Arizona Highway No. 288), then northerly 15.7 miles on Arizona Highway No. 288 to the junction with access roads leading northeasterly towards Zimmerman Point and the property.

Magnetite occurs as irregular contact-metamorphic and pyrometasomatic replacements of serpentinized, chloritized, and silicified Precambrian

Mescal limestone that is 100 to 300 feet thick and sandwiched between

2 large diabase sills; the upper sill being about 500 feet thick and

the lower about 1,000 feet thick. The magnetite (figs. 10, 17) occurs as

massive and high-grade bodies separated by disseminated and low-grade areas.

The magnetite zone is as much as 100 feet thick and can be traced inter
mittently for over 2 miles northeasterly in the vicinity of Zimmerman Point;

about a mile northeasterly and southwesterly; along the steep western flank of the Sierra Ancha. Character samples of the better magnetite (table 36)

contained:

TABLE 36. - Analyses of samples, Iron King Magnetite, Gila County, Ariz.

Sample Number	Fe	Mn	TiO <sub>2</sub>	P	S	SiO <sub>2</sub>	Al <sub>2</sub> 0 <sub>3</sub>	CaO	Mg0	Source
1.	50.8	0.02	0.05	0.03	0.09	12.4	2.72	0.04	9.87	Cerro de Pasco Corp. Nov. 1959
2.	68.4	0.2	<0.1	0.06	0.11	1.4				Bureau of Mines Dec. 1959

In addition, spectrographic analyses indicate traces of lead, zinc, and copper. Crushing to minus 100 mesh liberates 75 percent of the magnetite.

There has been no production from the property to date. (1961)

The potential of the deposit is inferred as several million tons of 30- to 50-percent iron content.

Magnetite of similar origin crops out on the Globe asbestos claims on the steep west slope of Asbestos Peak. The outcrops are poorly defined and the deposit appears small.

(Personal communication from Chas. Jonas, Phoenix, Ariz., 1961)

TARLE 36. - Anglyped of salplas, Iton Miny Jarnetite, Wilk County

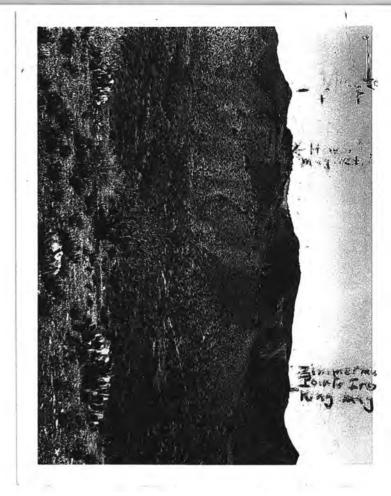
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The edilation, sports of the energy see in lieute trade of load, sing, and copper. Oraquing to these 100 and liberates (5 percent of the cappeling. See has been so production from the property to date. (1961)

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Magnetite of similar origin crops out on the Globe asbestos claims on the steep west slope of Asbestos Peak. The outcrops are poorly defined and the deposit appears small.

(Personal communication from Chas. Jonas, Phoenix, Ariz., 1961)



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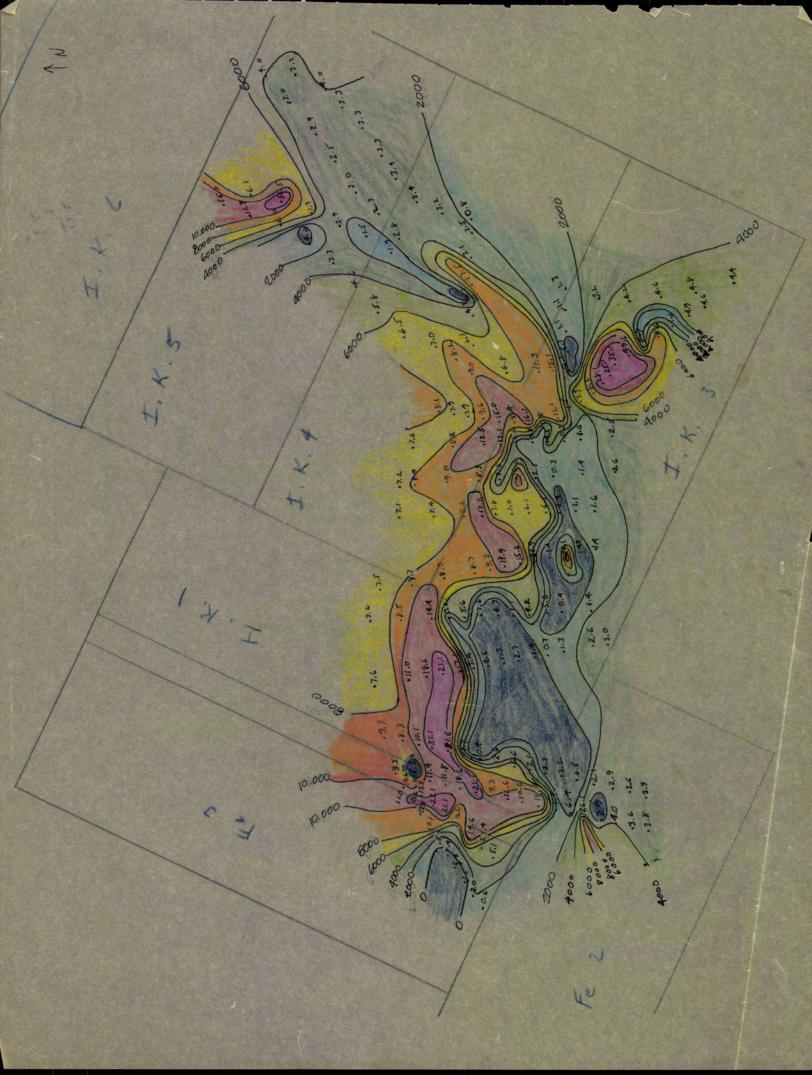
...

January 8, 1964 Mr. Charles Jonas Iron King Mines, Inc. 535 S. Grand Avenue Los Angeles, California Iron King & Ferro Mining Re: Claim Group, Gila County Arizona Dear Charley: As some time has elapsed since we worked on your project I found it necessary to refresh my memory by referring to the file. The following is revealed: Project commenced Aug. 29, 1962 Project completed Sept. 10, 1962 Type work done: Magnetic survey and interpretation The following GEOEX personnel performed work on the claims: Walter E. Heinrichs, Jr., E. Grover Heinrichs, Chris S. Ludwig, Franklin A. Seward, Jr., John Patten and J. W. Marlatt. Balance due on account: \$586.70 I trust this will serve your needs.

Sincerely yours,

E. Grover Heinrichs Vice-President

EGH: jh



I RON King Prosper Str. MK. REGGAS. PAT. OFF. ARIZONA Iron Mines Inc. A.E.M Magnetic Notes by E.G. H. Sept. 1961

0 VONAS - PARZ, IRON TRANS BEQUE PAT, DET 3/29/61 Scale Read Read & Base a cabin 1 4900 Line 200 MM COR IX bearing N80°F 0100 +84 8400 1+00 +3.4 17000 a Wend cut & Rd +1116 11600 3 400 +7.7 7700 @ NEC IK-12 4100 + 3.7 3700 5400 5000 + 5.B NE IK-12 +40 7.400 8400 +4.0 TK-11 Turn 5 30° W 100' to line 2 Sta 9+00 Line 2 14.2 144.3 8 400 16 OUTCROP PLONEER Shale

8/20/61

Sta Scale Red 1 6.2 6200 5+00 1 7.7 7700 20/ E. of Rd 4.6 4600 base of pit or pioneer shale Chop 6.5 6500 3+00 10'S of cut 1 2.6 2+00 2600 1+00 5600 1 5.6 20 WofRd. 1 4.3 20' W. of Rd. back to la NW dor - Line 3 at Line 1 + 100 VE 0.00 18.7. (7.6) 0+00 10,3 00 Hoad 1400 5.2 - wit 2+cn 7-100 5.6 4+00 5400 6+00 7+00 40 8+00 wring N Pino 1

\* 8/29/6 StA Scale 14.00 4+00E 3-100E 24 DOE Center of out NS 1+00 E 1 4 0400 E1 resid cut 20 On road 3+D014/ 5 Aroad terred line 3 3.2 3 100 W 140' to N to 2+00W 1+00 W 1 0+00 E inside hairph curve \$ 70 E of center 42

8/29/61 Sta Scale R R. MK. REG. U.S. PAT. OFF. LINE 1 1+00 W/ +1:0 Rd 20'W pioneer sh. 200W / +2.6 3+00W 1 +3.5 LINE 2 3400W 1 +3-3 2+00W1 +2.4 PIDNEER SHALE 1+00W1 =4.2 # 20° to Rd. 0+00 1 +6.0 Base @ Cabin 1 4.9 LINE 4 8/30/61 1400W 1 3.7 10' N of Rd. 15+00W 1 3.9 6+00W 1 4.0 LINE 3 56toom 1 4.0 5+00W 1 3.9 4+00W 1 3.7 Dripping Springs Qtz Float LINE 1 42 3.7 \* 4+00W 1

8/30/61 Sta Scale Read 5+00W 1 3.9 16+00W 1 4.0 TRIPPING Springs Rtz. Float LINE Z \$ 6+00 W 1 4.0 >5+00W 1 3.9 4+00W 1 3.9 3,00 1 3.0 1 4+75WN40° = 4°W dip PIONECE SHALE OUT CROP TraversE along rd. from Sunction @ Out and Y Rd. Trav. A 0+00 5 45 1+00 1 7.0 2+00 1 6.9 2+80 Nest E. C. I.K 12 ? 3+00 1 6.8 5.7 4+00 1 7.8 5100 1 5.4 6+00 1 7400 4.3 8400 4.4 3.6 9400 3.5 10+00 3.3 11+00 & CLAIM CON NO. 11 Rd Y 42 4.0 12+00

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8/30/61 TR. MX. REG. U.S. PAT. OFF. Sta. Scale Road Rd TraversE "B" - Lower Rd. 1400 1 4.0 2+00 1 2.8 3+00 1 3.5 4+00 1 2.2 5t00 1 0.9 6+00 1 1.2 7+00 1 2.8 8100 1 1.7 9400 1 52 10too 1 5.3 10+50 Mag out CROP 11too 5 3.5 12+00 5 4.0 Wiend of Trench cut 13+00 1 10.2 14+00 1 3.0 14460 1 8.4 Junction tie with Sta. 19+00 on "A" Traverse PHILADELPHIA 7, PA., MADE IN U.S.A. Zim 49 BASE 2:30 42

8/30/6/ Cut traverse @ rd Y & start of rd troverse H" + going easterly 0+00 5 4,6 500 05 0100 sa rd. Trav. 91 1+DD 1 3.7 2100 1 40 7:3 3+00 1 On cut dump Cut transerse B" States at station 2+00 E lug 3 0100 1 5,4 Dallon 2-00 E Dine 3 1 4.5 2100 ) 5.5 3-100 6.1 On out dump Cut traverse "C" Store at "Bodump 40' NE of Cut transcribe B 1-100 on cut dump 0+50 Fe outerop 42

8/30/6/ PRIGINAL COPR. 1910 BY J. C. PARKER Cut traverse "D 9000 E from Station 12+00 0+00 5 4.00 1+00 ( 65 2100 1 4.6 4,3 3+00 4+0 100 2.3 5100 6.101 6+72 On out dump "A" every board Road traverse 4 from 0+00 1400 1 10.8 2400 5 28 30' W of Jun. EFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. (2,0) On 5770 1 6+00 7-100 8+00 9+00 I going Ift folk at 42

ORIGINAL COPR. 1910 BY J. C. PARKER TR. MK. REG. U.S. PAT. OFF 10400 40 1(+00 12+00 2 Joannin Tur 4+00 15:50 (6400 Road Trav. Jose of Road 4.0 love 20 from (RodT. D K = 14 2 Jano food 4.5 Jun. 20 from 12400 13400 LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. 17400 11+DD 42 4

8/20/61 DRIGINAL COPR. 1910 BY J. C. PARKER MK. REG. U.S. PAT. OFF 22400 24+00 24+78 Cut traverse Le soite some no Starce 24+00, 24+78 as I to 0100 4.4 1400 2+00 3+00 End Res 35' N+50' E outgoing 0000 6.0 6.0 1400 2+00 End of cut EFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. 42

ORIGINAL COPR. 1910 BY J. C. PARKER Sty. Scale Rend Base 4.9 Line 5 4.2 6400 W 4.2 5+00 W 1 4.2 4+00 W 3400 W 4.1 2+00 W 4.0 1+50 3.8 Brod 5'E 0400 W # 14 SW Cor IK 1+00 F 2+00 F MOD E 3,7 5.4 4400 = 5-100 E 3.9 6+00E 4.0 7+00 = 8-100 E 40 Line 6 PHILADELPHIA 7, PA., MADE IN U.S.A. 300 5 of Sino! 9100 EI 3.4 8+00 E1 7+00 E1 4.5 LOTDO E E 5+00 E1 46 4+00 E 1 6,D 3+00 E1 W of get traverse "C 42

JRIGINAL COPR. 1910 BY J. C. PARKER R. MK. REG. U.S. PAT. OFF. 2+00H 1+00+1 0400E1 # 12 Wonda 1400 W 2+00 W 1 3+00 W 1 3.8 Disc. Fing # 13 4+00 W 1 4,1 4.2 5+00 W 6+00 W 1 4.2 IK#14 Planting at Time = 7 NW John 0+002W 4.0 3.9 1400E 300+S 4.0 4.4 EFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. 6+00E 6.1 6,6 24+18 on Road too 10+00 11+00 12+00 42

9/31/61 PRIGINAL COPR. 1910 BY J. C. PARKER R. MK. REG U.S. PAT. OFF 4.9 13+00 E 1 4+00 E1 4.7 43 IK = 14 15+00 E1 NE Com. Line 8 Starting at E and center. 4.2 5+00 E 14+00 E DAME 10 E of Bood To press 8-00 6 4 -60 7-00 E1 6100 E 5+00 E 1 EFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. 4+00 E 3-100 E 2+00E 1+00 E 0400 E 42 cent 1 K = 1 Wend 11+00 E 41 42 4.0 10400 E

9/31/61 ORIGINAL COPR. 1910 BY J. C. PARKER MK. REG U.S. PAT. OFF. Sine 10 100 Signie 3 4+00 E 1 43 5+00 E 1 4.5 G+00 E 1 4.7 7+00 E 1 5.9 Cabin 149 LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. 42

10/1/61 DRIGINAL COPR. 1910 BY J. C. PARKER Calvin 145 0+00 EW 1 6.5 W and of the 1K # 12 1400 W 10 4.9 2+00 W 1 2.4 3100 W 1 3.0 3.8 9+00 W 5+00 W 6+00 W 1 3.6 1400 E 1 24 Road Tra 2100 E 5+00 E | 58 4+00 E | 49 1 3.4 5100 E 3,4 6+00 E 10' Was curve in road 7+00 E 1 3.6 8+10 E 3.6 Line 12 300' 5 & line 11 LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. 9+00E 1 8+00 € \ 7+00 € \ 6+00 E 5+00 E 1 3.5 4+00.E 3+00 E 42 2+00 E

10/1/61 ORIGINAL COPR. 1910 BY J. C. PARKER 1+00 0+00=N 1 6.3 NW GO. = 11 + 5W CO. = 12 & Old IK 1+00 W 2+08 W 3+00 W 1 4100 W 1 5+00 W 1 40 Romeer Will Out crop 4.0 6+00 W 1 Salt Flow Sine 13 \$ 2 012 1K#1 300 5 3 ma 12 0+00 EN 1 3.5 4.5 100 E 1 2+00 E 1 4.0 LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. 5+00 E1 5,6 5.2 3.7 3.8 6100 E1 7+00 E 8+00 E1 9.3 9-100 E Sino #14 300 5 0 line 13 9+00E 1 6.5 9+00E 16.5 10'5 & Cut Tra. " 42

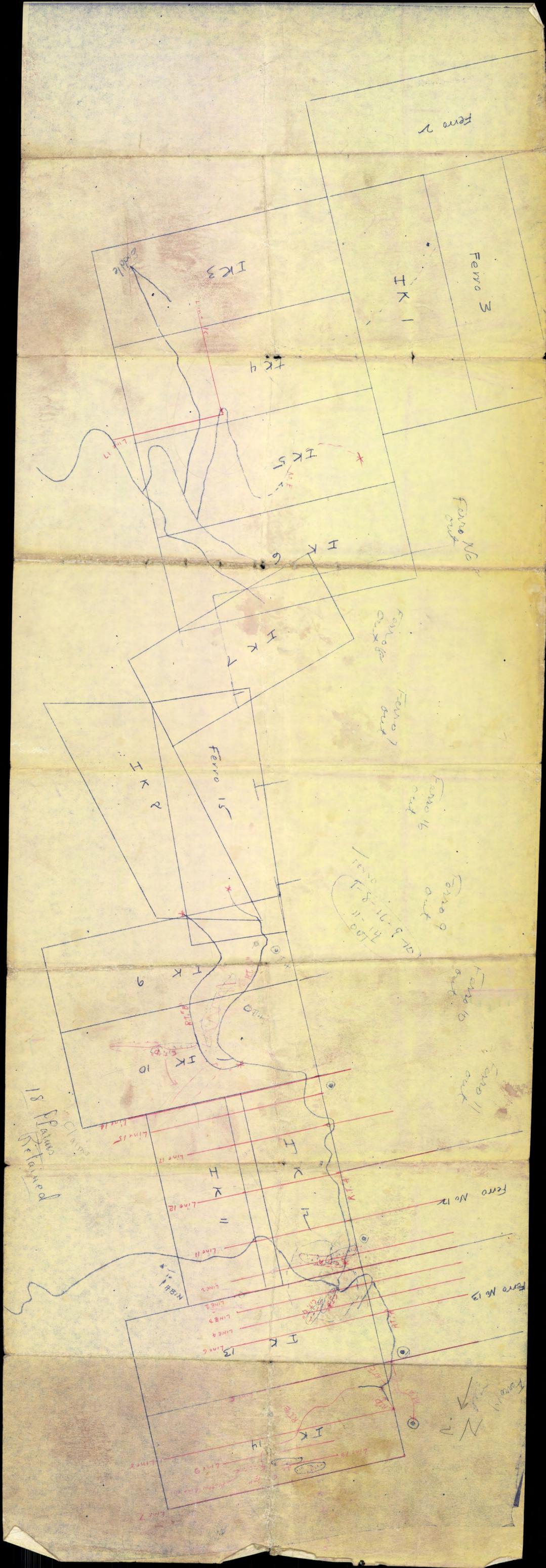
10/1/61 DRIGINAL COPR. 1910 BY J. C. PARKER. MK, REG. U.S. PAT. OFF 10400 E 1 11+00 E ogs comvie 12+00 E 1 8+00 E | 4.9 7+00 E | 07 Line # 14 300' Sof Sin 0400 EW7 2,5 15' John R. 3 +00 E 1 5 E IK aman lad 4+00 E 1 5+00 E 6+00 E 5 5.0 SW Cor of omended 1K#11 EFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. 7-100 E 6.2 115,D 8 100 E 1 5,0 4 K # 11 Amened 7.4 4.3 0+00 E1 11-00 E1 "Il amended SE OR IK 17+00 E1 42

10/1/61 ORIGINAL COPR. 1910 BY J. C. PARKER. R. MK. REG. U.S. PAT. OFF. 11+00 20+C 8+00 E 7+00 E 6+00E 5-101E 1+00 0+00 F 14 3,0 5.4 2 +00 W LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. # 13 1+00 W 01 W 1 3.5 2-100 3+00 W 42 Base @ Cabin 4.9

10/2/6/ 800 49 ORIGINAL COPR. 1910 BY J. C. PARKER. TR. MK. REG. U.S. PAT, OFF. N from discort 1K#3 0+00 NS 5 9.6 1 01 OOH 2+00 N 3400 N 4+00 N 1 6.8 5-50 N from Sail Dale Heading of 0+00 1400 2400 3400 7+00 5+00 6-100 LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. 7+00 8+00 TFOO 10+00 11400 12400 13+DO 42-

10/2/61 ORIGINAL COPR. 1910 BY J. C. PARKER R. MK. REG. U.S. PAT. # 17 Going & grow sharp bend 81 sain of E / dies IN 1-0) E 1 Gil I along Wride 4.8 line of I, Y. 7 2+00 E 1 2-150 E. Jump oc 4+00 E 1 5+00 E1 dialrose J+50 E On road 08 1400 3.2 5.4 2 (00 LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. 40 3,2 8400 sharp Turn 3.0 14+00 42 15+00 15+50 sharp Two

10/2/61 ORIGINAL COPR. 1910 BY J., C. PARKER TR. MK. REG. U.S. PAT. OFF. 18 400 20-10 Fe co 2/100 6. 22100 23100 11.3 29-00 16,0 25+00 On tuon 26+0) 27-100 1 3.6 28+00 4,6 25200 6.3 30-100 1 65 31+50 turn 6.3 LEFAX, PHILADELPHIA 7, PA., MADE IN U.S.A. 6,8 3600 57+00 38109 8.7 Calm Bose 4.9 42



# MAGNETIC GEOPHYSICAL SURVEY

Iron King and Ferro Mining Claim Group Sierra Ancha Mining District Gila County, Arizona

ARIZONA IRON MINES INCORPORATED

August - September 1961 and August 1962

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The amount of high grade, direct shipping material is relatively small and because of the distance to present markets is not considered very economic at this time. Further exploration on this property should be undertaken by extensive drilling and metallurgical studies to see if sufficient tonnage of beneficiable low grade exists. Analysis of samples by others would indicate the composition is favorable, as phosphorous, sulfur, titanium and other deleterious components are low enough to be within allowable limits.

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No lateral extensions of the known outcrop were found. The magnetite outcropping on Iron King 1, 3, 4 and Ferro 3 extends indefinitely northward into the hillside. Also the outcrop near DDH #1 on Iron King #5 extends westerly into the hill. The outcropping in the northern portion of Iron King 9 and 10 also appears, magnetically, to extend northward into the hillside.

North of Iron King 10 the only zone of interest magnetically is just southeast of the north corner of Iron King 12. This however, is a much smaller zone than the others and does not appear to extend very far in to the hill from its outcrop.

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direct supervision of Mr. Walter E. Heinrichs, Jr., Registered
Professional Engineer, President & General Manager of Heinrichs
GEOEXploration Company.

Respectfully submitted,

Walter E. Heinrick

September 11, 1962 P. O. BOX 5671 Tucson, Arizona

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HEINRICHS GEOEXPLORATION COMPANY

WALTER E.

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September 11, 1962 P. O. BOX 5671 Tucson, Arizona Walter E. Heinviel

Respectfully submitted

HEINRICHS

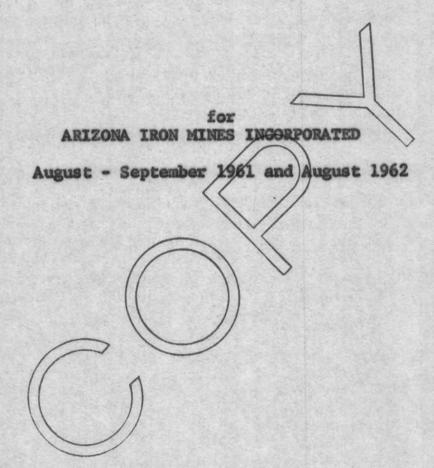
WALTER E.

COMPANY

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by
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Respectfully submitted

HEINRICHS. JR

Walter E. He

September 11, 1962 P. O. BOX 5671 Tucson, Arizona

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N. Y. Central

OTHER ADDRESSEES - FOR INFORMATION

# CERRO DE PASCO CORPORATION AND SUBSIDIARIES NEW YORK

# INTERNAL MEMORANDUM

SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR

New York, N. Y., Nov. 22, 1960

To: R. R. Reynolds, Chief, Arizona Exploration Unit

From: S. B. Keith, Chief Geologist, Cerrocorp

Subject: Iron King, Arizona

Enclosed is the information which you sent us with your memo of August 3, 1960 on the above subject and which you wished returned.

S. B. Keith

SBK/nv/Cerrocorp

# CHECK ASSAY COMPARISONS

IN/

Check assays on 9 samples (No. 1510-1518) which were assayed by Jacobs were made by Union Assay Office. One of these samples, No. 2163, should be omitted because of the obvious error in the Jacobs' assay. Thus if the 8 samples are averaged, the results show an average of 35.5% iron for Jacobs and 36.1% iron for Union. The difference of 0.6% is negligible.

If all 17 samples (No. 1510-1518 and 1520-1528) are averaged, then an average of 37.1% iron is calculated for Jacobs' assays and 37.1% iron is calculated for Union's assay. This shows that both assayers' results are reliable and that the margin of error between them is negligible.

As a further check 9 samples (Nos. 1520-1528) were sent to Hawley & Hawley at Douglas, Arizona, and the triple check shows that the three assays are reliable and check within 1% in iron content.

The 9 samples by Jacobs averaged 38.5% iron; by Union 38.1% iron and by Hawley and Hawley 37.3% iron.

John S.Skarbek

JSS:db/cerrocorp 5-25-60

	Interval	กักกัก	3.55	ฉีพด	2000		<b>NNN</b>
Footage	From To	170 175 175 180 185 190	119 121 157 159.5 181 184	152 154 174 177 169 171	AND CONTRACTOR	45 45 100 100	
1.0	Hawley					34.6 61.3	44.3 38.6 31.7 37.3%
% Fe Assay	Union	21.2 42.7 34.4	27.4	*53.9 48.7 8/288.5 36.1%	44.9	42.85.45.85.45.85.45.85.45.85.45.85.45.85.45.85.45.85.85.85.85.85.85.85.85.85.85.85.85.85	38.6
2020	Jacobs	24.3.2 34.3.0	26.9 37.0 48.7	*33.9 *33.9 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	43.0 283.0 34.6	24.2 35.4 62.0	47.1 47.1 31.0 9/346.8 38.5%
	Drill Hole	t# €	9# наа	DDH #5	ррн #3	ррн #1	6# наа
No.	Union	1510	1513	1516	1320	1348	2119 2135 2057
Sample No	Jacobs	2017 2018 2020	2068 2077 2082	*2157 *2163 2161	1520 1521 1522	1523 1524 1525	1526 1527 1528

\*Sample No. 2163 shows Jacobs' assay as 33.9% and Union's as 53.9%. It is believed that Union's assay is correct because the interval above and below the sample (No. 2163) assayed over 50% iron and there is no reason to suspect that sample No. 2163 should not go over 50% iron. Thus, in averaging the check assays No. 2163 should be thrown out. If it is included, Union's assays are 1.2% higher than Jacobs' and if omitted, the check is perfect and no correction is needed.

	ພພພພພພພພພພພພພພພພພພພພພພພພພພພພພພພພພພພພພ	Hole No.
25.5-27.5 33 - 35 41 - 43 +5 - 47	220000000000000000000000000000000000000	From To
000000		Inter-
112222 54545 5455 5455 5455 5455 5455 54	######################################	Sample No.
14.8 41.4 32.6 24.2 24.2 47.1 35.4 34.8	15.0 28.4 29.4	% Fe Chemical Assay Jacobs Union Other
54.8 -20 97.8 60.0 -20 96.2 47.1 -20 97.4 35.1 -20 96.1 52.8 -20 99.2 46.3 -20 95.4	100.00 100.00	Davis Tube Tests Chem. Assay Grind % Conc. (Mesh) Rec. Fe
MCC. FO / Y.T/o	-65 chem. assay conc. 48.9	Remarks

		Hole No.
30-000770000000000000 FFF	1288555	From
있으니까 하는 BOOK (C. )	15008475 8958790 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
		Inter-
+ + + + + 40000000000000000000000000000	2055 2055 2055 2055 2055 2055 2055 2055	du
47.1 41.7 29.4 41.1	31.6	% Fe C
	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Chemical Assay
33355655555555555555555555555555555555	795055 £55555 998702 255555	Day hem say onc
-20 -20 -20 -20 -20 -20 -20 -20 -20 -20	-2000000000000000000000000000000000000	Grind (Mesh)
2,000,000,000,1±0,000,100,000,1±0	87888888888888888888888888888888888888	Tests % Rec. Fe

# QUALITATIVE SPECTROGRAPHIC ANALYSIS COMPARISON

Element	Smith & Emery	Abbot A. Hanks, Inc.
Iron Silicon Magnesium Aluminum Manganese Calcium Titanium Zinc Boron Chromium Cobalt Copper Lead Nickel Vanadium Barium Molybdenum Tungsten Rare Earths Sodium	Major Constituent Major Constituent Major Constituent 1% 0.1% Not run 0.05% 0.05% 0.005% 0.005% 0.005% 0.005% 0.005% None found None found None found None found None found	30% to 100% 3% to 30% 3% to 30% .03% to 3% .03% to 3% .03% to 3% .03% to 3% .1ess than .03%
Potassium	Not run	Less than .03%

Composite sample sent to Smith & Emery was made up of samples taken in trenches. Composite sample sent to Abbot A. Hanks, Inc. was made up of check samples taken from drill holes No. 4, 5 and 6. No important discrepancy is noted in the above comparison.

# ABBOT A. HANKS, INC.

1300 SANSOME STREET . SAN FRANCISCO 11, CALIFORNIA . EXBROOK 7-2464

Engineers Assayers Chemists Metallurgists Spectrographers Soils and Foundations Consulting · Testing · Inspecting

#### LABORATORY REPORT

Lab. No.

C109091

Date

May 17, 1960

Submitted by Union Assay Office, Inc. P. O. Box 1528 Salt Lake City 10, Utah

Sample Mark Cerro De Pasco 1519

QUALITATIVE SPECTROGRAPHIC ANALYSIS Metals Found and Estimated Percentage Range

Less than .03%	.03% to .30%	.30% to 3%	3% to 30%	30% to 100%
Cobalt Sodium Potassium Zinc Titanium Vanadium Strontium Chromium Copper Nickel Boron	Aluminum Calcium Manganese		Magnesium Silicon	Iron
	Y			

Remarks

ABBOT A. HANKS, INC.

Original Signed by Martin Pspecialist

TELEPHONE E	M 3-3302	Hand Sample Serial 8672	5

Mine Cerro De Pasco Corporation

ASSAY REPORT

# UNION ASSAY OFFICE, Inc.

J. V. SADLER, President W. C. WANLASS, Vice-Pres. & Treas. LILY M. HOTTINGER, Secretary

RESULTS PER TON OF 2000 POUNDS

May 11, 1960

......

Salt Lake City 10, Utah

			Markov P. 18.		3.35 PA - 13-3							
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		LIME Per Cent	Per Cent	Per Cent	TOTAL TOTAL
1.4						4		7-4		As	T102	P
1519			None	None	20.6	None	0.056	38 E	0.1.	None	0.15	0.045
1010			HOLLE	HOME	20.0	HOIRS	0.050	30.5	0.4	NOME	0.13	0.045
					41							
				1								

Charges \$ 19.00

# Jacobs Assay Office

PHONE Main 2-0813

Registered Assayers

SAMPLE MARKED	GOLD Ozs. per to	GOLD Value per ton ore	SILVER Ozs. per ton ore	COPPER Per cent Wet Assay	LEAD Per cent Wet Assay	Per cent Wet Assay	Per cent Wet Assa
# 15-20		\$		The Passage	Wet Instity	43%	Wet Assa
2/			-			28 4/10	
22						34/10	
23	-	+-				24 1/10	
24	-					35 7/10	
25			-			62/10	
26	-	+				47/10	
27			7			41 /10	
28	-	1				31 /10	-



Registered Assayers

# HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

Shippers' Representatives - Umpires - Weighers - Samplers

537 12th STREET P. O. BOX 1060 DOUGLAS, ARIZONA EMpire 4-2741

IDENTIFICATION	GOLD OZS	SILVER	LEAD	COPPER %	Ox Copper %	ZINC %	Fe %	
1570								
1520							43.3	
1521	in la comp						27.5	
1522							32,6	
1523							22.0	
1524							34.6	
1525							61.3	
1526							44.3	
1527							38.6	
1528							31.7	
Check	n for ion	Assau	ρ)					
			EMARKS:		ANALYSIS	s CERT. B	Y PREPARATION S	hs is



# HAWLEY & HAWLEY

ASSAYERS AND CHEMISTS, INC.

Registered Assayers

Shippers' Representatives - Umpires - Weighers - Samplers

537 12th STREET P. O. BOX 1060 DOUGLAS, ARIZONA E M pire 4-2741

Representatives at Buyer's Plants: Phelps Dodge Corp., Douglas, Arizona and El Paso, Texas; ASARCO, El Paso, Texas and Hayden, Arizona

IDENTIFICATION	GOLD	SILVER	LEAD	COPPER %	Ox Copper %	ZINC	Fe %		
1520			-				43.3		
1521					4.4.		27.5	1	10
1522	And the second		7				32.6		
1523							22.0	1	
1524							34.6		Page 1
1525									
			*				61.3		
1526							44.3		
1527							38,6		1
1528		modified in		Highicanian	- in the first		32.7		
								1	10
	141 1314			N					
A.		DA	1						
$\langle \cdot \rangle$	100	D.							
+	- A X		A						
	2 4	1 ssor				South and the			
Chil		4							
	Mich								
	M.								
			ar head						
C:		RE	MARKS:		ANALYSIS	CERT. BY	19/	2060	1
NDD:						1 7			
ADD:						1	PREPARAT	TION S	X5 00
ACC: CERRO DE PASCO CORPO		DATE SPL	m 40 1 2	PATE	5/23/60	7	ANAL	YSIS S	36.00

TELEGRAM

FOH

CERRO DE PASCO CORPORATION

E. O. SLATER SMITH EMERY CO. 781 E. WASHINGTON BLVD. LOS ANGELES, 21, CALIFORNIA

IF PULP NO. 442995 IS STILL AVAILABLE PLEASE RUN TITANIUM AND ADVISE R. C. JAMES RESULTS.
SPENCER CERRO DE PASCO CORPORATION

CC R. C. JAMES
NY CENTRAL FILES

### LABORATORY REPORT

# SMITH-EMERY COMPANY

ESTABLISHED 1910

CHEMISTS - ENGINEERS

781 EAST WASHINGTON BOULEVARD

LOS ANGELES 21, CALIFORNIA

ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AUTHORIZATION FOR PUBLICATION OF OUR REPORTS, CONCLUSIONS, OR, EXTRACTS FROM OR REGARDING THEM IS RESERVED PENDING OUR WRITTEN APPROVAL AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES.

LABORATORY

442995-Additional No.

Date November 26, 1957

Pulp Sample

Received 11-18-57

Marked "Sample of Iron Ore"

Submitted by Cerro de Pasco Corporation,

3656 East Speedway, Tucson, Arizona.

R. C. James, Att.:

Chief, Arizona Exploration Unit.

REPORT OF DETERMINATION

Titanium Oxide (TiO2) -----

0.05%

Respectfully submitted,

Smith Emerylo. CHEMISTS AND ENGINEERS



COPY

### LABORATORY REPORT

# **SMITH-EMERY COMPANY**

ESTABLISHED 1910

CHEMISTS - ENGINEERS
781 EAST WASHINGTON BOULEVARD
LOS ANGELES 21, CALIFORNIA

ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AUTHORIZATION FOR PUBLICATION OF OUR REPORTS, CONCLUSIONS, OR, EXTRACTS FROM OR REGARDING THEM IS RESERVED PENDING OUR WRITTEN APPROVAL AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC AND OURSELVES.

LABORATORY

No. 442995-Additional

Date November 26, 1957

Sample Pulp

Received 11-18-57

Marked "Sample of Iron Ore"

Submitted by Cerro de Pasco Corporation, 3656 East Speedway, Tucson, Arizona.

Att.: R. C. James, Chief, Arizona Exploration Unit.

REPORT OF DETERMINATION

Titanium Oxide (TiO2) -----

0.05%

Respectfully submitted,

Smith- Zmeryle.
CHEMISTS AND ENGINEERS

9,4.6

BRANCH LABORATORY: 1086 MARTIN AVENUE . SANTA CLARA . CHERRY 8-5262

BRANCH OFFICE: 10 DE LUCA PLACE . SAN RAFAEL . GLENWOOD 4-8650 \_\_\_ ROBERT R. REYNOLDS

1300 SANSOME STREET . SAN FRANCISCO 11, CALIFORNIA . EXBROOK 7-2464

### LABORATORY REPORT

C111076

Date September 14, 1960

Submitted by

Cerro de Pasco Corp.

Sample Merk Composite Magnetic

Arizona Exploration Unit

Concentrates -

3656 E. Speedway Blvd.

Iron King

Tucson, ArizonaQUALITATIVE SPECTROGRAPHIC ANALYSIS Metals Found and Estimated Percentage Range

Less than .03%	.03 % to .30 %	.30% to 3%	3% to 30%	30% to 100%
Titanium Sodium Potassium Lead Copper Zinc Zirconium Chromium Strontium Nickel Cobalt	Calcium Aluminum Hanganese	Magnesium	Silicon	Iron

Romarks

Martin P. Quist

CA-106 hms

# THE GALIGHER COMPANY

ESTABLISHED 1901



CABLE ADDRESS GALSAL TELEPHONE ELGIN 9-8731

545-585 WEST EIGHTH SOUTH STREET
P. O. BOX 209
SALT LAKE CITY 10, UTAH
U. S. A.

I Kritallurgy File

August 16, 1960

Cerro De Pasco Corporation Arizona Exploration Unit 3656 Speedway Boulevard Tucson, Arizona

Attention: Mr. R. R. Reynolds

### Gentlemen:

With reference to your letter of August 11, 1960, we are sending under separate cover the assay sample rejects from the concentrate obtained in the Davis tube tests.

If we can be of further assistance to you, please contact us.

Respectfully yours
THE GALIGHER COMPANY

R. O. Huch Metallurgist

ROH/cb

Sample sent to abbot A. Hanles for Spec analysis 8/26/60 Composite of Davis Tube Concentrates Grams Wt. Sarup No Grus Wt Samp No 1326 8.11 6.15 1317 13/3 8.0 1331 6.27 6.83 2128 7.61 1327 7.66 2127 1350 7.21 7.09 2126 1342 3.01 6.12 1349 2125 8.86 1343 7.99 2124 6.71 7.54 2135 1340 2,10 7.21 1345 6.64 2138 8.14 2142 1341 3.03 6.71 1347 2143 6.77 6.28 2144 1348 6.65 2145 6.53 6,62 2055 7.62 2119 7.30 2058 7.37 9.11 2100 2120 6.89 9.31 2101 2123 9.24 2048 6.43 2102 8.98 2/04 2049 3.95 5.39 2053 5.33 2105 2107 7.65 1324 5.63 1323 5.67 8,10 2117 7.44 4.50 1329 1322 8.65 6.04 1321 1328 6.00 2134 6.65 1337 6,06 7.58 1336 2133 4.18 1335 7.84 2132 1334 7.16 2131 8.32 6.85 1332 8,32 2130 7.41 7.27 1330 2129 5.92 1325 2137 6.02 1333 7.42 6.32 2140 6.49 1318 6.75 2057 1320 6.73 1338 3,84

BRANCH LABORATORY: 1086 MARTIN AVENUE . SANTA CLARA . CHERRY 8-5262 BRANCH OFFICE: 10 DE LUCA PLACE • SAN RAFAEL • GLENWOOD 4-8650

# ABBOT A. HANKS, INC.

1300 SANSOME STREET . SAN FRANCISCO 11, CALIFORNIA . EXBROOK 7-2464

Engineers Assayers Chemists Metallurgists Spectrographers Soils and Foundations Consulting · Testing · Inspecting

### LABORATORY REPORT

Lab. No.

C109091

Date

May 17, 1960

Submitted by Union Assay Office, Inc. P. O. Box 1528

Salt Lake City 10, Utah

Sample Mark Cerro De Pasco 1519

QUALITATIVE SPECTROGRAPHIC ANALYSIS Metals Found and Estimated Percentage Range

Less than .03%	.03% to .30%	.30% to 3%	3% to 30%	30% to 100%
Cobalt Sodium Potassium Zinc Titanium Vanadium Strontium Chromium Copper	Aluminum Calcium Manganese		Magnesium Silicon	Iron
Nickel Boron				

Remarks

ABBOT A. HANKS, INC.

# SMITH-EMERY COMPANY

CHEMISTS - ENGINEERS

METALLURGICAL AND TESTING ENGINEERS 781 EAST WASHINGTON BOULEVARD LOS ANGELES 21

CALIFORNIA

LABORATORY

No.

45 9248

Date

March 9, 1959

Sample

Pulp

Received

3-5-59

Marked

"Composite Magnetic Iron Ore"

Submitted by

Cerro De Pasco Corporation, 3656 East Speedway Boulevard,

Tucson, Arizona.

Att.:

R. R. Reynolds.

Geologist.

REPORT OF QUALITATIVE SPECTROGRAPHIC EXAMINATION REGARDING QUALITATIVE SPECTROGRAPHIC EXAMINATION

useful in determining the presence of elements as a guide for chemical analyses and to identify

Ores, metals and other substances can be examined. These qualitative examinations are

Element

Approximate Quantity

elements, the presence of which were not suspected. This method of examination is especially attention of the present was a small and the present and the pres

shounded being wind being compounds.

Most we tals and the alkali earths and metals are teletricised, if present, in amounts from 0.001%1.0 Gold, silver and the platinum evous gen and their high values, must regular assay (Morine bromine ioding the st pr sulphur selenium, carbon 0.05% reter 80.0 hydrogen \$20.0 anium are determined only 0.005% q nedw Boron \_\_ grout to 226.0 wellarnixorage lo net to rotost teers Chromium 0.0059 Cobalt ----0.005% Copper ----0.0059 Lead -----0.0059 Nickel ----0.0059 Vanadium ----0.005% None found Molybdenum -----None found Tungsten ----None found Rare Earths ----None found

Respectfully submitted.

with - Zweryla.

All reports are submitted as the confidential property of clients. Authorization for publication of our reports, conclusions, or extracts from or regarding them is reserved pending our written approval as a mutual protection to clients, the public and ourselves.

#### OTHER ADDRESSEES - FOR INFORMATION

cc NY Central Files NY Circulating File

# CERRO DE PASCO CORPORATION

(Incorporated in New York)

AND WHOLLY OWNED SUBSIDIARIES

### INTERNAL MEMORANDUM

SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR

New York, N. Y., February 27, 1959

To: R. R. Reynolds, Geologist, Arizona Exploration Unit, Cerrocorp

From: F. N. Spencer, Jr., Manager, Mining & Exploration Division, Cerrocorp

Subject: Iron King Spectrographic Analysis

In view of the fact that Roseveare has not given us a written report on the actual spectrographic analysis of the ore, I think we should send a sample to Smith Emory or equal for full spectrographic analysis. Please send two copies of their report to me.

Use your own judgement on the make up of the sample, but it should, of course, be as representative as possible.

F. N. Spencer, Jr.

FNS: jc

Rejecto Sampled for Spectrographic Qualysis Stud N. End 4490 1073-4500 1074-10352 10750 1002 1076-10360 1077-1078-1003 -10590 10040 10050 10604 1010 -10610 10114 1062-1063-10140 10150 1064 1016 10654 1066-16170 10180 1067made into a Composite

IK

### CERRO DE PASCO CORPORATION

300 PARK AVENUE . NEW YORK 22, N. Y.

Arizona Exploration Unit 3656 E. Speedway Blvd. Tucson, Arizona

August 26, 1960

Abbot A. Hanks, Inc. 1300 Sansome Street San Francisco 11, California

Gentlemen:

Enclosed is composite sample of pulps of magnetic concentrates. Would you run a qualitative spectrographic analysis on this please.

Sincerely yours,

R. R. Reynolds

Chief, Arizona Exploration

Unit

RRR:db

CERRO DE PASCO CORPORATION 300 PARK AVENUE - NEW YORK 22, N. Y. Arizona Exploration Unit 3656 E. Speedway Blvd. Tucson, Arizona August 11, 1960 The Galigher Company 545-585 W. 8th South Street Salt Lake City 10. Utah Att: Mr. R. O. Huch Metallurgist Gentlemen: We have had a request from our New York office that we have a complete spectrographic analysis run on a composite from the concentrates obtained in the Davis Tube tests. I do not know whether these concentrates were saved or not but if they were, could

you send them to us.

We appreciate anything you can do in this matter.

Very truly yours,

R. R. Reynolds

Chief, Arizona Exploration Unit

RRR:db

FORM NO. 45 5M 10-59

# CERRO DE PASCO CORPORATION

AND SUBSIDIARIES NEW YORK

### INTERNAL MEMORANDUM

SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR

Tucson, Ariz.

Aug. 3, 1960

Date

OTHER ADDRESSEES - FOR INFORMATION

To: S. B. Keith, Chief Geologist, Cerrocorp

R. R. Reynolds, Chief, Arizona Exploration Unit, Cerrocorp

From:

Iron King Data

Subject:

After our phone conversation this morning I dug the enclosed material out of the files. It probably duplicates what you already have for the most part. Whatever you do not need I would appreciate its being returned to my files. The main thing you require is the Abbot A Hanks spectrographic analysis certificate dated May 17, 1960. This was run on a composite of the samples sent to Galigher for Davis Tube tests. However, we prepared this composite in Tucson. The Union Assay office made a wet assay for Galigher on a composite prepared by them (certificate dated May 11, 1960).

Enclosed are the tabulated sampling results from the Iron King trenches. Due to our typist being on vacation this week and typing tables not being my forte, I'm sending them just as John wrote them up.

R. R. Reynolds

UNION ASSAY OFFICE, INC. P.O. BOX 1528 SALT LAKE CITY, UTAH J. V. SADLER PRESIDENT UNIT 10 W. C. WANLASS
VICE PRES. & TREAS. LILY M. HOTTINGER May 13,1960 Cerro De Pasco Corporation Arizona Exploration Unit 3656 East Speedway Blvd. Tucson, Arizona Attention: Mr. John S. Skarbek Dear Sir: Enclosed you will find assay reports on samples number 1510 through 1519. As we do not run Spectrographic Analysis at our office, we sent a portion of your #1519 sample to a reputable firm in San Francisco who perform this service for us. We will mail this report when received. Yours very truly UNION ASSAY OFFICE, INC. Vice Pres & Treas

CERRO DE PASCO CORPORATION 300 PARK AVENUE - NEW YORK 22, N. Y. Arizona Exploration Unit 3656 E. Speedway Blvd. Tucson, Arizona 1147 May 5, 1960 Union Assay Office 152-154 SW Temple Salt Lake City, Utah Dear Sir: Enclosed are ten (10) samples which we would like to have run chemically for iron. On Sample No. 1519 we would like a spectrographic analysis as well. Test for iron, lime, insolubles, titanium, phosphorus, copper, lead, zinc, arsenic and sulphur. Sincerely. John S. Skarbek Geologist JSS:db Encs.

# THE GALIGHER COMPANY

ESTABLISHED 1901

CABLE ADDRESS GALSAL



545-585 WEST EIGHTH SOUTH STREET
P. O. BOX 209

SALT LAKE CITY 10, UTAH
U S. A.

OK.

TELEPHONE

**ELGIN 9-8731** 

May 12, 1960

Cerro de Pasco Corporation Arizona Exploration Unit 3656 East Speedway Blvd. Tucson, Arizona

Attention: Mr. John S. Skarbek, Geologist

Gentlemen:

We wish to acknowledge receipt of your letter dated May 10, 1960, requesting that we return to you all sample rejects and pulps submitted to us in December. These samples have been packed in three drums and one box and have been shipped to the above address as of this date.

Sincerely yours,

THE GALIGHER COMPANY

R. O. Huch Metallurgist

ROH/fh

CERRO DE PASCO CORPORATION 300 PARK AVENUE - NEW YORK 22, N. Y. Arizona Exploration Unit 3656 E. Speedway Blvd. Tucson, Arizona May 10, 1960 The Galigher Company P.O. Box 209 Salt Lake City 10, Utah ATT: R. O Huch Metallurgist Gentlemen: Please <u>rush</u> to us all sample rejects and pulps which were forwarded to you in December of last year for testing. We would appreciate your immediate attention to this matter. Sincerely yours, John S. Skarbek Geologist JSS:db

# THE GALIGHER COMPANY

ESTABLISHED 1901



P. O. BOX 209 545-585 WEST EIGHTH SOUTH STREET

SALT LAKE CITY 10, UTAH

A .2 .U

December 22, 1959

Tucson, Artzona 3656 East Speedway Arizona Exploration Unit Cerro de Pasco Corporation

Artzona Exploration Unit Attention Mr. R. R. Reynolds, Chief

### Davis Tube Tests

us that you have shipped 70 magnetite samples for Davis tube tests. your letter of December 11, Mr. Reynolds, in which you informed In the absence of Mr. Sayers from the city, we are acknowledging

lurgical Laboratory. for receipt of these samples and immediate delivery to our Metal-We have cautioned our Receiving Department to be on the lookout

and will write you in detail upon his return. Mr. Sayers is expected to return prior to the Christmas Holidays

THE GALIGHER COMPANY

Overus

S. L. Evans

General Manager

SIE/Th

(duplicate)

ELGIN 9-8731 TELEPHONE

GALSAL

CABLE ADDRESS

# THE GALIGHER COMPANY

ESTABLISHED 1901



CABLE ADDRESS GALSAL TELEPHONE ELGIN 9-8731

545-585 WEST EIGHTH SOUTH STREET
P. O. BOX 209
SALT LAKE CITY 10, UTAH
U. S. A.

February 25, 1960

Cerro de Pasco Corporation Arizona Exploration Unit 3656 East Speedway Tucson, Arizona

Attention Mr. R. R. Reynolds

Dear Mr. Reynolds:

Enclosed you will find three (3) copies of our laboratory report covering the magnetic test work conducted on your seventy samples of iron ore. You will notice that we have omitted the individual test sheets from these copies. Because of the large number of test sheets and the time which would be required in preparation for the report, we thought it advisable to omit these at the present time. However, complete report copies will be sent to you at a later date when the test sheets are completed.

In Table I of the enclosed report, test data is summarized similarly to that given to you by Mr. Evans on his recent visit. The original tabulation of data resulted from rapid slide-rule calculations, so, you will notice a few minor changes concerning the data contained in Table I.

Also, it might be mentioned that we ran a few tests comparing the results obtained using a hand electro-magnet as against the Davis Tube Tester. The hand magnet gave nearly identical results and this would be a very useful tool for running quick field tests, if such is desired.

Sincerely yours,

THE GALIGHER COMPANY

R. O. Huch Metallurgist

ROH/fh

Enclosures



CABLE ADDRESS GALSAL

# THE GALIGHER COMPANY

FETABLISHED 1901



545-585 WEST EIGHTH SOUTH STREET
P. O. BOX 209

SALT LAKE CITY 10, UTAH

U. S. A.

December 22, 1959

Cerro de Pasco Corporation Arizona Exploration Unit 3656 East Speedway Tucson, Arizona

Attention Mr. R. R. Reynolds, Chief Arizona Exploration Unit

### Davis Tube Tests

In the absence of Mr. Sayers from the city, we are acknowledging your letter of December 11, Mr. Reynolds, in which you informed us that you have shipped 70 magnetite samples for Davis tube tests.

We have cautioned our Receiving Department to be on the lookout for receipt of these samples and immediate delivery to our Metallurgical Laboratory.

Mr. Sayers is expected to return prior to the Christmas Holidays and will write you in detail upon his return.

THE GALIGHER COMPANY

S. L. Evans General Manager

SLE/fh

(duplicate)

TELEPHONE

ELGIN 9-8731

# ARIZONA MOVING & STORAGE CO. LOCATION SYMBOLS

1039 N. ALAMO ST. White,

CONDITION SYMBOLS

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Mr . Robert Reynolds

TUCSON, ARIZONA

3656 E. Speedway

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I acknowledge that the condition of the	goods at the time of	loading is as note	ed and that I have rece	eived a copy of this Inventory
Driver. I acknowledge receipt of all goods noted	above and agree that	t the goods were	delivered in good con	dition except as noted below
		•••••		***************************************
Driver	Signed		(owner or agent	) Date

### CERRO DE PASCO CORPORATION

AND SUBSIDIARIES NEW YORK

### INTERNAL MEMORANDUM

OTHER ADDRESSEES - FOR INFORMATION

J.K.

cc: N.Y. Central Files

SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR

Tucson, Ariz.
New York N.XX. Sept. 20, 1960

To: S. B. Keith, Chief Geologist, Cerrocorp

From: R. R. Reynolds, Chief, Arizona Exploration Unit, Cerrocorp

Subject: Iron King Project - Gila County, Arizona Spectrographic Analysis

Enclosed are laboratory reports on the spectrographic analysis made by Abbot A. Hanks, Inc. This is on a composite made up of all samples submitted to the Galigher Company for Davis tube tests. This is the additional information you requested to complete your data on the Iron King.

Abbot A. Hanks, Inc. only sent us two copies of this report. I presume you would like two copies so would you make us a photostat of this certificate for our files.

RRR:db/cerrocorp

R. R. Reynolds

CERRO DE PASCO CORPORATION 300 PARK AVENUE . NEW YORK 22, N. Y. Arizona Exploration Unit 3656 E. Speedway Tueson, Arizona December 11, 1959 The Galigher Company 545-585 West 8th South Street Salt Lake City 10, Utah Att: Mr. M. J. Sayers Vice President Dear Sir: We are sending today 70 magnetite samples for Davis tube tests. I am sorry these have been delayed so long. We have had so much difficulty with our drilling program that it appears unlikely that we will be able to get any more samples for you. If we do, they may be delayed as late as next summer. The attached list gives our sample number, the footage, and interval represented by the sample. In case any samples are too small for the Davis test, they may be combined with an adjacent sample (the sample interval is given to assure correct proportioning). This procedure was adopted to supersede that given in paragraph four of my letter of November 24, 1959. In the event a sample is too small and there are no adjacent samples with which to combine it, please advise us and we will send you the other half of the core. There were quite a few samples that were of doubtful grade to send you as we were striving for at least 30% iron. These doubtful samples were assayed locally and the few that made the grade, or nearly so, were included. These samples will be readily identified by the iron assay written on the sacks. Use your own judgment about reassaying these samples. In the event your results indicate work is desirable on material in the 20%-30% range, or even the 15%-20%, we have quite a few samples in each category that we can send you. Sincerely yours, SISISI R. R. Reynolds RRR:db Chief, Arizona Exploration Unit Enc.

DDH No. 1

List of Samples & Intervals they Represent

Sample No.	Footage	Interval
1343	25.5 - 27.5	2
1345	33 - 35	2
1347	39 - 41	2
1348	41 - 43	2
1349	43 - 45	2
1350	45 - 47	2
2100	47 - 49	2
2101	49 - 51	2
2102	51 - 54	3
1303	90 - 96	6
2103	96 - 98	2
2104	98 - 100	2
2105	102 - 104.5	2.5
2107	109 - 111.5	2.5

DDH No. 3
List of Samples & Intervals they Represent

Sample No.	Footage	Interval
1313	90.5 - 93	2.5
1317	100 - 102	2
1318	102 - 104	2
1320	130.5 - 132.5	2
1321	132.5 - 134.5	2
1322	134.5 - 136.5	2
1323	136.5 - 139.0	2.5
1324	150.5 - 152.5	2
1325	152.5 - 154.5	2
1326	154.5 - 156.5	2
1327	156.5 - 158.5	2
1328	158.5 - 161	2.5
1329	162 - 166	4
1330	166 - 169.5	3.5
1331	169.5 - 172	2.5
1332	172 - 174	2
1333	174 - 176	2
1334	176 - 179.7	3.7
1335	179.7 - 182	2.3
1336	182 - 186	4
1337	186 - 190	4
1338	190 - 195	5
1339	195 - 200	5
1340	200 - 205	5
1341	205 - 210	5
1342	210 - 217	7

DDH No. 9
List of Samples & Intervals they Represent

Sample No.	<u>Fc</u>	ota	ge	Interval
2117	20	-	24	4
2118	34	-	36	2
2119	36	-	38	2
2120	38	-	40	2
2123	7+7+	-	46	2
2124	46	-	48	2
2125	48	-	50	2
2126	50	-	52	2
2127	52	-	54	2
2128	54	-	56	2
2129	56	-	58	2
2130	58	-	60	2
2131	60	-	62	2
2132	62	-	64.8	2.8
2133	68	-	70	2
2134	70	-	72	2
2135	72	-	74	2
2137	76	-	78	2
2138	78	-	80	2
2140	85	-	87	2
2142	89	-	91	2
2143	91	-	93	2
2144	93	-	95	2
2145	97	-	99	2
2048	105	-	107	2
2049	107	-	109	2
2053	119	-1	21	2
2055	187	-	189	2
2057	192	-	194	2
2058	196	-	198	2

K- Covered CERRO DE PASCO CORPORATION 3056 E. Speedway Blvat, Yucson, 2 AFizona November 24, 1959 The Galigher Company 545-585 West 8th South Street Salt Lake City 10, Utah Att: Mr. M. J. Sayers Vice President Dear Sir: In reply to your letter of November 20th, I have attempted a re-estimate of when to expect our magnetite ore samples. I am sorry about the delay but I have been pressed by other matters and just neglected to keep you better informed. Our drilling has gone far more slowly than anticipated but we are now on the last hole and should have the samples for you before December 15th. Also, there will be a reduction in number of samples due to a less successful than anticipated drilling program. Mr. Kaattari was in to see us about a month ago and he advised that we send only those samples that appear to run over 30% for the Davis tube tests. At this time there are about 75 samples in this category and it is anticipated that the last hole will bring the total to around 100 samples. We have crushed the samples to pass t inch and have kept the weight under ten pounds as instructed. However, there may be a few samples that may contain insufficient material. Where we can anticipate this possibility, we will tie the light sample, or samples, together. Then it will be possible to combine these samples if necessary. The samples will be double sacked in paper bags, with a numbered sample tag inside and the same number on the sack. The samples will then be packed in wooden boxes. Very truly yours, R. R. Reynolds RRR:db Chief, Arizona Exploration Unit

# THE GALIGHER COMPANY

ESTABLISHED 1901



CABLE ADDRESS

TELEPHONE ELGIN 9-8731

545-585 WEST EIGHTH SOUTH STREET
P. O. BOX 209
SALT LAKE CITY 10, UTAH
U S. A.

November 20, 1959

Cerro de Pasco Sales Corporation 3656 East Speedway Blvd. Tucson, Arizona

Attention Mr. R. R. Reynolds Chief, Arizona Exploration Unit

In your letter of September 1, 1959, you explained that your drilling program had been delayed and that the samples for testing would not be available until mid-October. As yet, we have not received these samples.

It would be of assistance to us in scheduling our laboratory work if you could give us an approximate date on which you believe the samples will be shipped. This information will make it possible to arrange our commitments for test work so that we can start on your samples soon after they arrive.

THE GALIGHER COMPANY

M. J. Sayers Vice President

MJS/fh

Galigher Company P.O. Box #209 Salt Lake City, Utah

Att: Mr. Harold E.Wright
Executive Vice President

Dear Mr. Wright:

We were planning to ship a rather large number of magnetic iron samples for Davis tube tests sometime this month. However, our drilling program is progressing so slowly due to difficult overburden conditions that the samples will be considerably behind schedule. It would appear now that it will be at least mid-October before we have sufficient samples to begin the tests.

As soon as most of the core is in, I will advise you when the samples will be shipped. Incidentally, they will be prepared here by crushing to -1 inch and will not exceed 10 pounds in weight.

Sincerely yours,

R. R. Reynolds

Chief, Arizona Exploration Unit

RRR:db

FORM NO. 45 10M 11-58

# CERRO DE PASCO CORPORATION

(Incorporated in New York)

AND WHOLLY OWNED SUBSIDIARIES

### INTERNAL MEMORANDUM

dueling cc: NYD, Central Files

OTHER ADDRESSEES - FOR INFORMATION

SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR Tucson, Ariz.

New York, N.XY., Aug. 17, 1959

Date

To: S. B. Keith, Chief Geologist, Cerrocorp

From: R. R. Reynolds, Chief, Arizona Exploration Unit, Cerrocorp

Subject: Galigher Company

Request the complete address of the Galigher Company. I do not seem to have it in my correspondence.

R. R. Reynolds

RRR:db/cerrocorp

OTHER ADDRESSEES - FOR INFORMATION

Received Mining Section

# CERRO DE PASCO CORPORATION

(Incorporated in New York)

AND WHOLLY OWNED SUBSIDIARIES

### INTERNAL MEMORANDUM

cc: NYD, Central Files

SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR

Tucson, Ariz.

New Work, New, March 12, 1959

To: F. N. Spencer, Jr., Manager, Mining & Exploration Div., Cerrocorp

From: R. R. Reynolds, Geologist, Arizona Exploration Unit, Cerrocorp

Subject: Iron King - Gila County, Arizona

Enclosed are two copies of the spectrographic analysis made by Smith-Emery as per your memo of February 27th.

This sample was prepared from 30 pulps representing 15 samples from each end of the property. The iron content of these samples varied from 30% to 60% and were as representative as possible.

The four claims we propose laying out are for protective purposes against dumping to the south of Ferro No. 2 and No. 19. Bob James suggested these as desirable before he left and in order to hold down expense we planned to file on them every 60-90 days to avoid doing the location work. We can charge our 2-3 days field time required for the job to Account 575 as you suggest.

R. R. Reynolds

RRR:db/cerrocorp

FORM NO.

CERRO DE PASCO CORPORATION

(Incorporated in New York)

AND WHOLLY OWNED SUBSIDIARIES

### INTERNAL MEMORANDUM

cc: NYD, Central File

OTHER ADDRESSEES - FOR INFORMATION

SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR

New Yorkowxy., Feb. 10, 1959

To: F. N. Spencer, Jr., Manager, Mining & Exploration Div., Cerrocorp

R.R. Reynolds, Geologist, Cerrocorp

From:

Iron King Spectrographic Analyses

Subject:

R. C. James' memo of January 3, 1958 covering metallurgical tests by George Roseveare also includes spectrographic results. "Spectroscopic analysis indicated the copper, zinc, and lead were very low as well as titanium. The impurities are mainly MgO, SiO<sub>2</sub> and some CaO."

Mr. Roseveare was just now contacted about this analysis and he said that all elements present on the spectrograph were mentioned. If such metals as nickel and cobalt were not mentioned, then they were not noted.

If the above information is insufficient, we can very quickly make up composites from our rejects any way you desire. For instance, the sample already run by Roseveare is of relatively high grade (52.5% Fe) material, whereas material in the 30-40% Fe range is somewhat more representative of the deposit as a whole.

R. R. Reynolds

RRR:db/cerrocorp

### OTHER ADDRESSEES - FOR INFORMATION

cc NY Central Files
NY Circulating File

### CERRO DE PASCO CORPORATION

(Incorporated in New York)

AND WHOLLY OWNED SUBSIDIARIES

### INTERNAL MEMORANDUM

SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR

New York, N. Y., February 6, 1959

To: R. C. James, Chief, Arizona Exploration Unit, Cerrocorp

From: F. N. Spencer, Jr., Manager, Mining and Exploration Division, Cerrocorp

Subject: Iron King

If you have rejects from any of the Iron King samples which might be made up into a composite of a reasonably representative nature, please have it assayed for copper, nickel and cobalt, and also have a complete spectrographic test made. Our records indicate that none of these have been carried out to date.

F. N. Spencer, Jr.

FNS: jc

P.5 could the Univ. of arrowa lo the spechographic analysis?

300 PARK AVENUE . NEW YORK 22, N. Y.

December 31, 1958

Mr. L. H. Lange The Galigher Company 545-585 West Eighth South Street P. O. Box 209 Salt Lake City, 10, Utah

Dear Jim:

Thanks for your letter of December 18 regarding Davis tube tests.

Although the proposition you make sounds like a fair one, perhaps I was not clear in our short talk at the Mining Club that we will not have the samples ready until probably June or July 1959. However, I was glad to hear that you will probably be able to get hold of a Davis tube when the time comes. In a few months I will let you know what the situation is and perhaps we can discuss definite arrangements at that time.

Incidentally, we have decided to take drill cores for the samples and we will be in a position to buck these down to the weight limitations you mention.

With best regards and a Happy New Year to you and my other friends at Galigher.

Yours very truly, Original signed by F. N. Spencer, Jr.

F. N. Spencer, Jr. Manager, Mining & Exploration Division

FNS: jc/Cerrocorp

Airmail

NY Central Files
NY Circulating File

## JOY ENTERS MINERAL PROCESSING EQUIPMENT FIELD

At a press conference held in the middle of September at Pittsburgh, Pa., Joy Manufacturing Company confirmed an earlier statement that Joy would soon announce their entry into the mineral processing equipment field. See E & M J New Products Digest, Sept.

Joy has signed a licensing agreement with Carpo Research and Engineering, Inc., Jacksonville, Florida, to manufacture and service Carpco High Tension electrostatic separators for use in the iron ore industry. Last January, Carpco announced a revolutionary process for dry concentration of iron ore. Joy says that this is only the first step in a long line of mineral processing equipment to be marketed by Joy.

In the High Tension Process for iron ore (see E&MJ, January, 1958) of magnetic and/or non-magnetic character, the ore is processed dry at better than 96% iron recovery, with finished products of 65% Fe or better. Carpco says that the High Tension step can be operated at about 4¢ a ton treated. Special separators (production size) have been designed that will handle 100 tph feed. Process will be important to desert regions and colder places like northern Canada where controlling water is a serious problem. Iron ore will be dry ground and sized, separated and pelletized.

<sup>(</sup>Copied from ENGINEERING AND MINING JOURNAL, October, 1958, p. 45)

(Incorporated in New York)

AND WHOLLY OWNED SUBSIDIARIES

## INTERNAL MEMORANDUM

SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR

New York N. August 28, 1958

Kmitallergical

OTHER ADDRESSEES - FOR INFORMATION

F. N. Spencer, Jr., Manager, Mining & Exploration Unit, Cerrocorp To:

R. C. James, Chief, Arizona Exploration Unit, Cerrocorp

From:

Iron King Program - Lime

Subject:

Your memo of August 15th about lime has just been received. This matter has not been mentioned previously but I will have it taken care of the first time we are up in that area. There is a lime plant just out of Globe which might take care of all our needs. I will get an analysis from them.

Do you have any definite figures on the necessary analysis for suitable lime for the briquetting process mentioned?

RCJ:db/cerrocorp cc: NYD, Central file CERRO DE PASCO CORPORATION
(Incorporated in New York)
AND WHOLLY OWNED SUBSIDIARIES

INTERNAL MEMORANDUM

SHOW NAME, TITLE
AND CORPORATION
OF ADDRESSEE
AND ADDRESSOR

New York,

August 15, 1958

F. N. Spencer, Jr., Manager, Mining and Exploration Division

if you had ever developed anything on lime deposits in the Globe-Iron King area. I think I brought this up some months ago, on Kursell's suggestion. It now develops that if a good grade lime with low MgO and silica is available, it may be used for a binder in briquetting or "plugging" magnetite concentrates in a new process which may have considerable advantage and capital savings over the usual pelletizing process. If I recall correctly, Miami or Inspiration have a lime

burning plant near the road from Globe to Iron King. If so, you should be able to get the analysis of that particular lime from them. Also, prospecting around the area might develop something. Presumably the quantity required would be only a small percentage of the concentrates

Further to our phone conversation today, I neglected to ask

Spencer, Jr.

R. C. James, Chief, Arizona Exploration Unit

produced, but I do not yet have the details.

Iron King Program

To:

FNS: mq

From:

Subject:

Date



(Incorporated in New York)
AND WHOLLY OWNED SUBSIDIARIES

### INTERNAL MEMORANDUM

SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR

New York, July 29, 1958

To: F. N. Spencer, Jr., Manager, Mining & Exploration Div., Cerrocorp

From: R. C. James, Chief, Arizona Exploration Unit, Cerrocorp

Subject: Iron King - Metallurgical Studies

I think I mentioned it previously, but Geo. Roseveare at Arizona Bureau of Mines Testing Laboratory says he is very busy (running pilot plant work on copper ore for A S & R's Pima property) and it is unlikely we will get much out of him on the testing of Iron King ores of different grades for quite a while.

You were going to ask Mr. Kursell about getting some work done elsewhere. What does it look like now?

R. C. Janes

RCJ:db/cerrocorp cc: NYD, Central files

(Incorporated in New York)
AND WHOLLY OWNED SUBSIDIARIES

## INTERNAL MEMORANDUM

SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR

NewsYork, June 24, 1958

To: F. N. Spencer, Jr., Manager, Mining & Exploration Div., Cerrocorp

From: R. C. James, Chief, Arizona Exploration Unit, Cerrocorp

Subject: Iron King Magnetite - Concentration Studies

Recently, after results from the sampling of the trenches and outcrops on the Iron King property were received, the question arose, especially regarding the lower grade samples, as to what percent of the iron in these samples was available as magnetite.

This lead to Bob Reynold's studies on concentration as reported in his memos: "Microscopic Examination of Ground Samples of Iron King Magnetite Concentrates" and "Magnetic Separation Tests on Ground Samples of Iron King Ores" both dated June 10, 1958. Copies of these memos are attached. The one on Magnetic Separation Tests has been revised from the one previously sent to you then returned here.

With our inadequate equipment and facilities, I would not have suggested that this type of work be undertaken by ourselves; but since it was done and since the results seem to be at considerable variance with the results produced by Utah Construction Company for Mr. Kursell, and the Arizona Bureau of Mines, it appears that we should do some more work on the lower grade ores. The ores tested by the above two concerns was from the hard high grade outcrops at the north and south end ore bodies and may not be representative of the entire ore body.

It is becoming increasingly evident that for the Iron King prospect to be economic, we will have to depend upon concentration of the lower grade material. It might not be at all out of order for us to have some rather complete studies made on this low grade material.

In theory we should be able to get this done rather readily and cheaply at the Arizona Bureau of Mines, University of Arizona, testing laboratory but in practice, it does not work out quite that way. There is only one man working in this laboratory and he is evidently swamped all the time. Unless he takes a real, personal interest in a problem, the testing is rather sketchy and one is never sure of the procedure followed.

Do you think you could get some of this work done by Utah Construction Company through Mr. Kursell or do you think it might be better to get it done elsewhere.

R. C. James

RCJ:db/cerrocorp cc: NYD, Central files Enc.



(Incorporated in New York)
AND WHOLLY OWNED SUBSIDIARIES

## INTERNAL MEMORANDUM

SHOW NAME, TITLE AND CORPORATION OF ADDRESSEE AND ADDRESSOR

Tucson, Nov. 22, 1957

To: F. N. Spencer, Jr., Manager, Mining & Exploration Div., Cerrocorp

From: R. C. James, Chief, Arizona Exploration Unit, Cerrocorp

Subject: Iron King Sampling:

Enclosed are copies of assay results of a sample of the Iron King ore.

The sample was made from a composite of 6 other samples taken from various places along the outcrop which were crushed, mixed and the composite split from this.

Strangely enough the numerical average of iron content of the other samples was 50.3%.

R. C/ James

RCJ:mb/Cerrocorp cc: NYD, Central files Enc.

(Incorporated in New York)
AND WHOLLY OWNED SUBSIDIARIES

#### INTERNAL MEMORANDUM

SHOW NAME, TITLE
AND CORPORATION
OF ADDRESSEE
AND ADDRESSOR

New York January 3, 1958

To: F. N. Spencer, Jr., Manager, Mining & Exploration Div., Cerrocorp

From: R. C. James, Chief, Arizona Exploration Unit, Cerrocorp

Subject: Iron King - Metallurgical Tests

Attached is a copy of results of some metallurgical tests made at the Arizona Bureau of Mines.

As you can see these results confirm Mr. Kursell's estimates as to grade of concentrate and recovery; and results are thus quite satisfactory. I was told verbally that a higher recovery might be expected when working on larger scale equipment than they had available, using a slightly lower magnetic field.

One of these days I shall get some lower grade material and have similar type tests made.

R. C. James

RCJ:db cc: NYD, Central files Enc.

# UNIVERSITY OF ARIZONA ARIZONA BUREAU OF MINES ORE TESTING SERVICE

Mr. R. C. James Cerro de Pasco Corporation 3656 E. Speedway Tucson, Arizona

Dear Mr. James:

Ore Test #1557

The two samples of iron ore from north of Globe were tested for magnetic concentration. One sample was crushed through 10-mesh and passed over a Dings belt magnetic separator. The magnetic concentrate was locked with gangue and would have to be ground fine to liberate the magnetite. The sample No. 3 - 622,624 and 626 which assayed 52.5 per cent iron was crushed to 10-mesh and two samples from this size ground in a ball mill and the magnetite concentrated.

## Test 1 on sample No. 3

A sample was ground in a ball mill and the magnetite concentrated with a permanent magnet and the rough concentrate cleaned using a slightly weaker field. The results are given in the following table:

	Weight, percent	Percent Iron	Distribution Iron, percent
Heads	100.0	52.4*	100.0
Concentrate	71.7	63.0	86.0
Middling	10.4	41.7	8.3
Tailing	17.9	15.9	5.5

\*Calculated

The concentrate amounted to 71.7 percent of the weight of the heads, assayed 63.0 percent iron and contained 86.0 percent of the total iron that was in the feed.

The middling or cleaner tailing amounted to 10.4 percent of the total weight, assayed 41.7 percent iron and contained 8.3 percent of the total iron. The rougher tailing assayed 15.9 percent iron.

# UNIVERSITY OF ARIZONA ARIZONA BUREAU OF MINES ORE TESTING SERVICE

-2-

## Test 2 on Sample No. 3

A sample was ground for 5.5 minutes and treated as in Test 1. The results are given in the following table:

	Weight, percent	Percent iron	Distribution, iron, percent
Heads	100.0	51.6*	100.0
Concentrate	73.4	63.0**	89.7
Cleaner tailing	3.0	30.9	1.8
Tailing	23.6	18.6	8.5

\* Calculated from products

\*\* Calculated from screen test on concentrates

## Sizing on Concentrate

<u>Pe</u>	Percent Iron	
on 65 Thru 65 on 100 Thru 100 on 200 Thru 200 Composite	4.3 14.5 42.1 39.1 100.0	55.1 61.3 64.3 63.1 63.0

The concentrate amounted to 73.4 percent of the total feed assayed 63.0 percent iron and contained 89.7 percent of the total iron.

The percent weight of the middling or cleaner tailing was 3.0 percent and assayed 30.9 percent iron. The tailing assayed 18.6 percent iron.

A screen test was made on the concentrate and the iron determined on each size. The plus 65 mesh assayed 55.1 percent iron, the minus 65 plus 100-mesh 61.3, the finer size minus 100 plus 200-mesh 64.1 and the minus 200 - 63.1 percent iron. This indicated that the ore needs to be ground to about 100-mesh to obtain the highest grade.

# UNIVERSITY OF ARIZONA ARIZONA BUREAU OF MINES ORE TESTING SERVICE

-3-

Spectroscopic analysis indicated the copper, zin c, and lead were very low as well as titanium. The impurities are mainly MgO, SiO, and some CaO.

Sincerely yours,

G.H.Roseveare Metallurgist

#### UNIVERSITY OF ARIZONA

ARIZONA BUREAU OF MINES
ORE TESTING SERVICE

Ore No. 1557

Sample #3
Test No...1

### Conditions and Reagents

Point of	Conditions			Reagents Pounds Per Ton								
Addition	Time Mins.	% Solids	pН									
Ball mill	3.0	62										
Rougher magnet		25										
Cleaner		20										
					2 2 - 1							

Remarks:

Ground pulp put into Fagergren cell, agitated and magnetite removed with permanent magnet. Rougher concentrate recleaned.

## **Metallurgical Products**

D. Aud	Tons in		Assays, pe	rcent		% of Total				
Product	100 Tons Feed	Fe			Fe					
Heads	100.0	52.4			100.0					
Concentrate	71.7	63.0			86.2					
Cleaner tailing	10.4	41.7		Gad Si	8.3					
Rougher tailing	17.9	15.9			5.5					
								133		

Remarks:

#### UNIVERSITY OF ARIZONA

ARIZONA BUREAU OF MINES ORE TESTING SERVICE

Ore No. 1557

Sample #3

Test No. 2

### Conditions and Reagents

Point of	Conditions			Reagents Pounds Per Ton									
Addition	Time Mins.	% Solids	pН										
Ball mill	5.5	62											
Rougher magnet		25											
Cleaner		20											
MURSINE													
													-

Remarks: Ground pulp put into Fagergren cell and magnetic material removed with a permanent magnet.

#### **Metallurgical Products**

Durdund	Tons in	Assays		% of Total				
Product	100 Tons Feed	Fe		Fe				
Heads	100.0	51.6*		100.0				
Concentrat	73.4	63.0**		89.7				
Cleaner	3.0	30.9		1.8			1000	
Rougher tailing	23.6			8.5				
		多等 物质 致积 魏						

\*Calculated from products Remarks: \*\*Calculated from screen test on concentrates

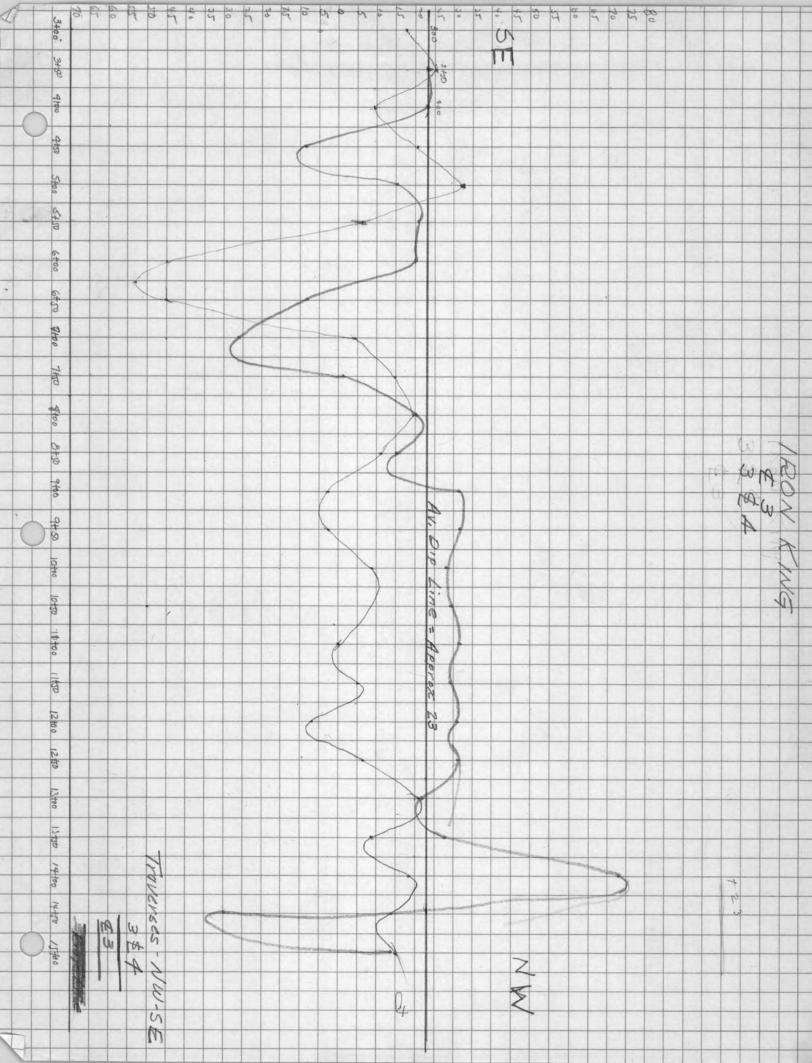
Screen sizing concentrate: Weight, percent

Iron, 55.1

on 65 -65 on 100 -100 on 200 4.3 42.1

39.1

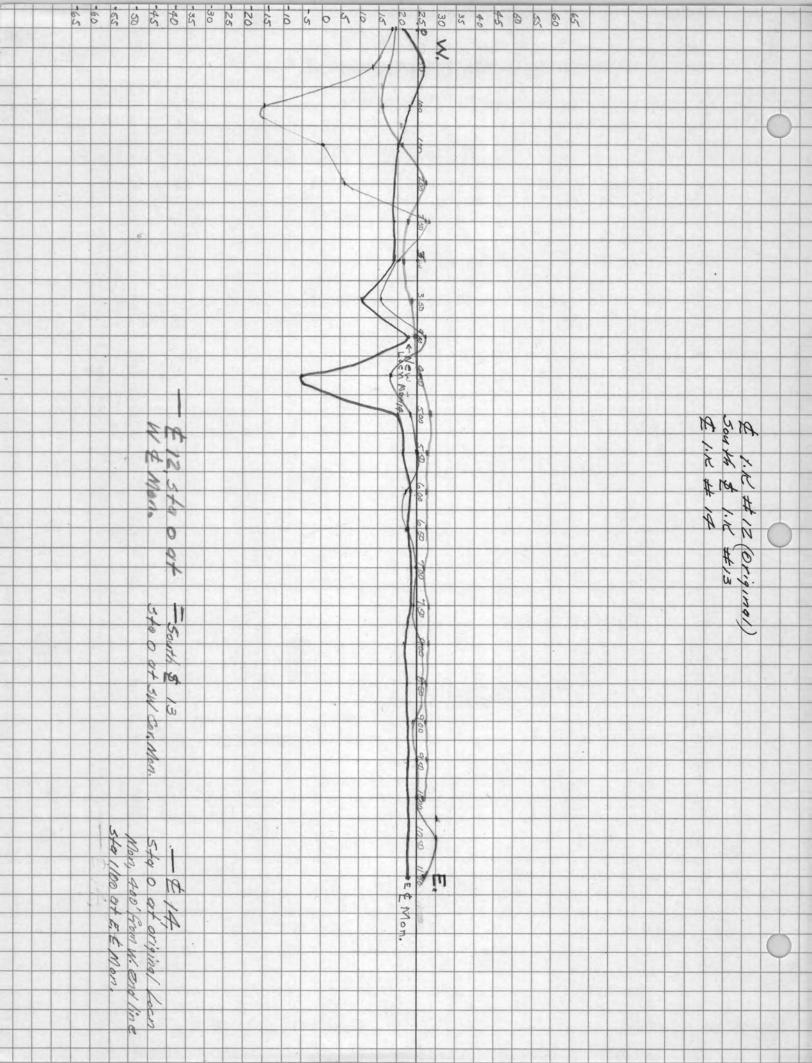
-200 METALLURGICAL RESULTS OBTAINED ABOVE SHOULD BE CONSIDERED AS ONLY APPLICABLE TO MATERIAL CONFORMING TO THE CHARACTER OF THE SAMPLE UPON WHICH THE TESTS WERE MADE.

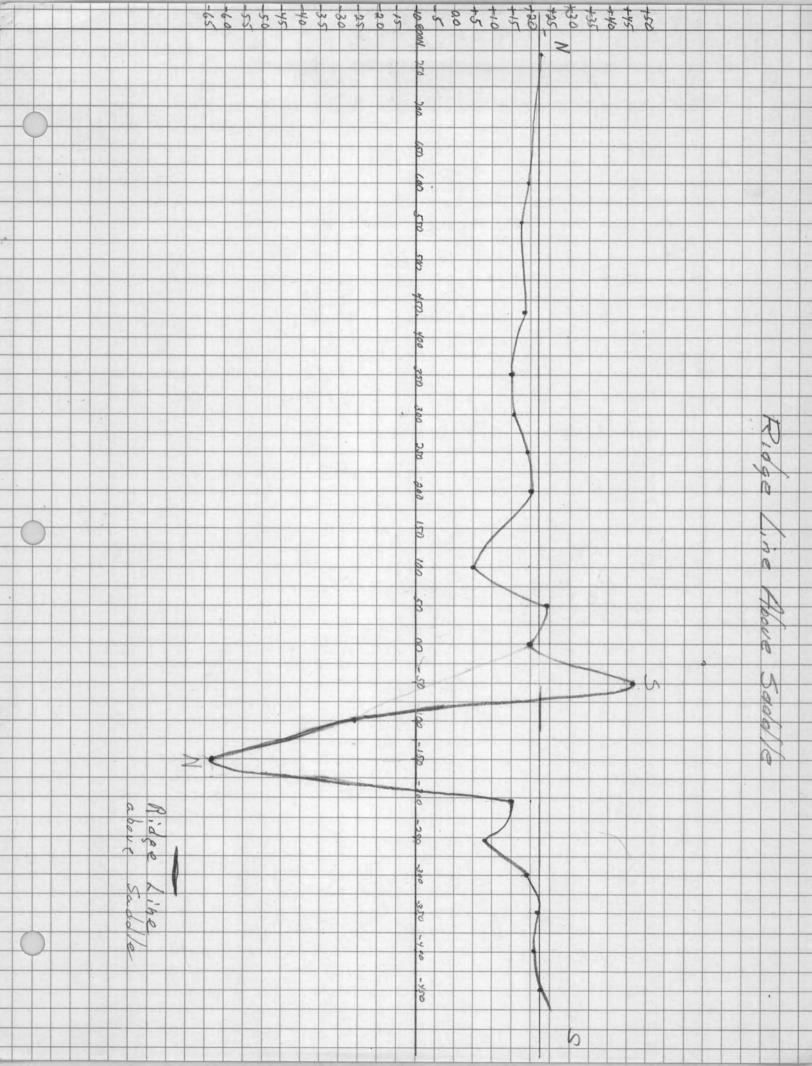


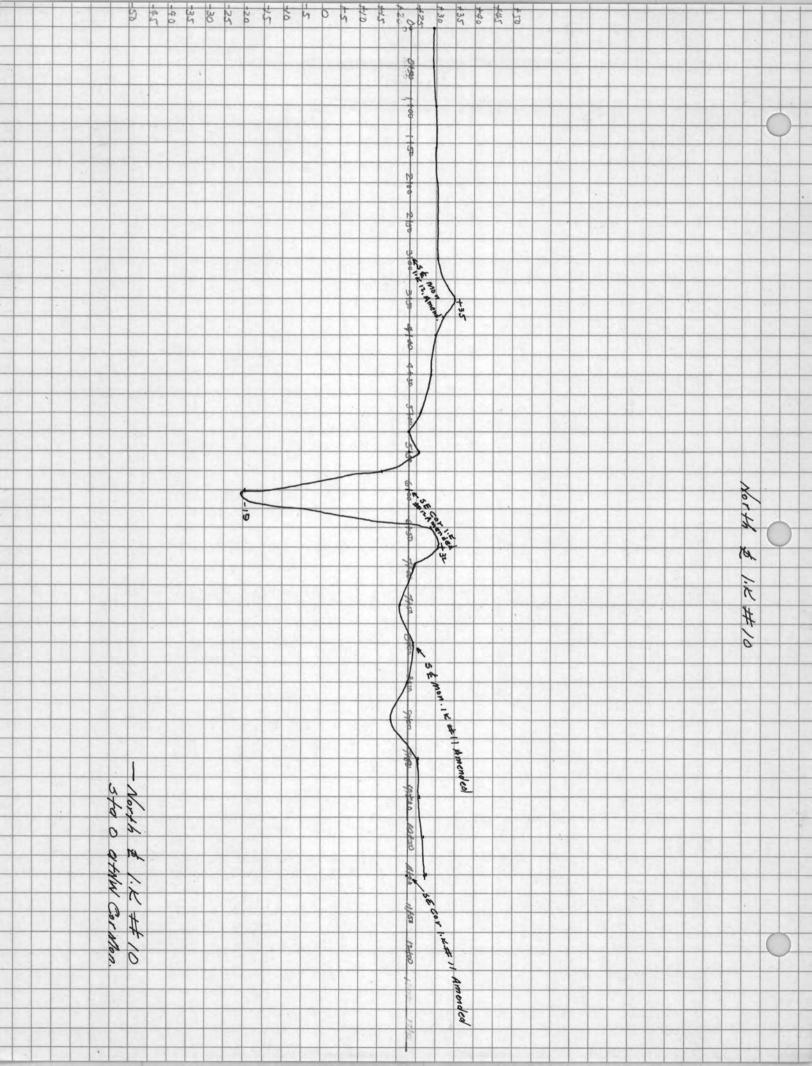
# MAGNETIC SURVEY

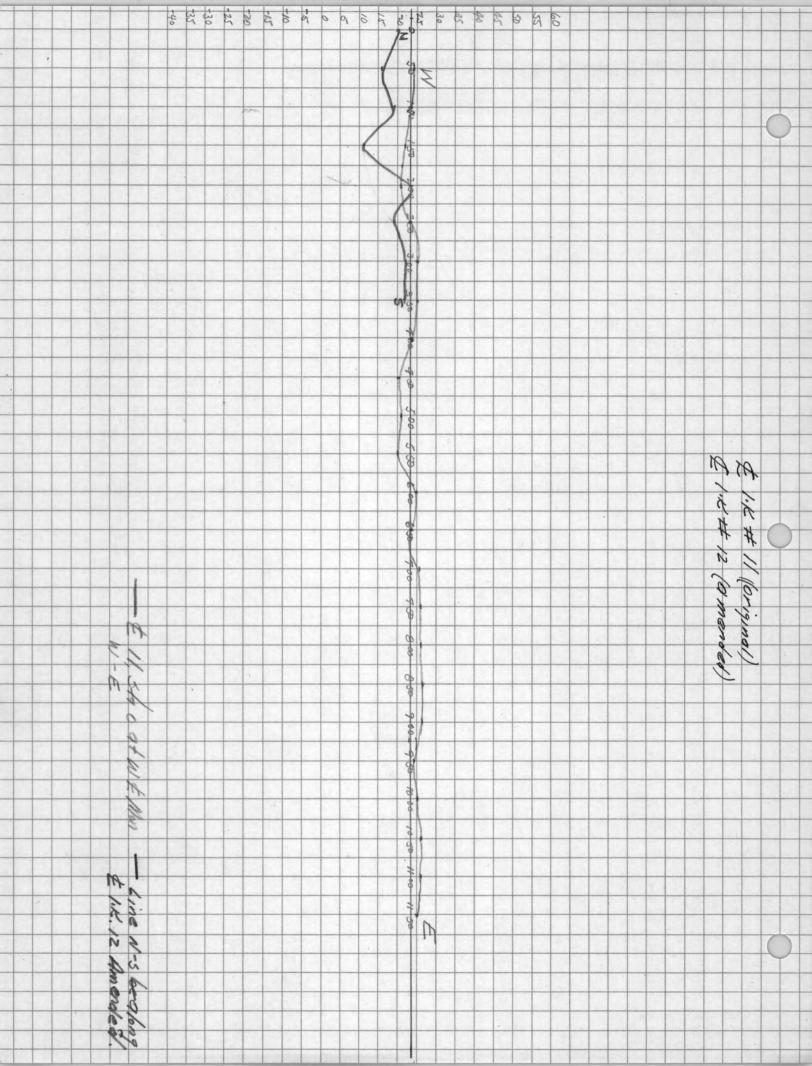
		W.			
Distance	Station	J.S.	R.A.	Average	Remarks
350 400 450 500 550	D & 3	+26 +23 -10 +10 +20	+22 +23 -6 +14 +22	+24 +23 -8 +12 +21	Db - some float Fe Ls - some Fe float Ls - below outcrop, at Loca- Ls - below Fe outcrop;
600 650 700 750 800 850 900	11 11 11 11 11	+21 -9 -24 +1 +20 +16 +30 +31 +26	+19 -7 -28 +3 +19 +14 +32 +30 +28	+20 -8 -26 +2 +19½ +15 +31 +30½ +27	Fe float heavy Ls in outcrop or heavy float Ls - heavy Fe float Ls - heavy Fe float Ls - heavy Fe float Ls - Fe outcrop Ls - Fe outcrop; low grade Ls - some Fe outcrop; altered Ls. Altered Ls; some Fe outcrop Db - Ls; contact some Fe
1050 1100 1150 1200 1250 1300 1350 1400 1450 1500	11 10 10 10 10 10 11 11	+27 +33 +28 +32 +31 +21 +27 +74 -29 +15	+31 +30 +30 +30 +32 +24 +26 +72 -30 +13	+29 +32 +29 +31 +31 \frac{1}{2} +26 \frac{1}{2} +73 -29 \frac{1}{2} +14	Db - Ls within 50' Db Db Db Lms/db contact +8' Ls - mineralized Ls - mineralized Ls - mineralized Fe outcrops W center IK #3 Ls - mineralized
1500 1450 1400 1350 1300 1250 1200	3 6 4	+16 +14 +18 +7 +23 +5	+14 +15 +17 +10 +19 +6 -6	+15 +14½ +17½ +8½ +21 +5½ -6½	In Db at W end corner of IK # 3 and 4 "" " " " Db Cherty bed in Ims Db float Below cherty bed Db float Fe outcrop; Db float - below
1150 1100 1050 1000 950 900 850 800 750	10 11 11 11 11 11 11	+5 +1 -50 +7 -5 -3 +11 +17 +16	+5 0 -49 +9 +0 -2 +13 +23 +14	+5 +0.5 -49½ +8 -3 -2½ +12 +20 +15	cherty bed Ls - Db float Ls - Db float Ls (altered) Cherty Ls - Db float Cherty Ls outcrop Cherty Ls Cherty Ls Cherty Ls float Cherty Ls float Top of ridge Cherty Ls
700 650 600	H It	+4 -45 -44	+4 -43 -46	+4 -44 -45	Cherty Ls float - Fe float Reversed Polarity - rdge N. end Needle
550	,	+5	+7	+6	Iron outcrop - mag. merid. ½ way off normal low; Needle points due W to iron outcrop; point in dead Ls 5' below iron outcrop.

Distance	Station	J.S.	R.A.	Average	Remarks
500 450 400 350 300	3 \$ 4	+33 +22 +11 +25 +17	+33 +19 +8 +25 +17	+33½ +20½ +9½ +25 +17	Ls - unmineralized Db - Fe float Db - Fe float Db
50 100	D & 11	+25 +22	+22 +24	+23½ +23	Near covered location pit East of covered location pit; Qtzite float
150 200 250 300 350 400 450 550 600 650 700	11 14 11 11 11 11 11 11 11	+21 +22 +23 +24 +26 +23 +20 +21 +20 +24 +23 +26	+23 +21 +23 +25 +24 +23 +20 +20 +19 +25 +24 +25	+22 +21½ +23 +24½ +25 +23 +20 +20½ +29½ +23½ +25 +25	Covered Qtzite float Qtzite Float """ some Ls float """ """ Ls outcrop (?) Ls outcrop Ls outcrop Covered float Covered Fe float heavy; near small
750 800 850 900 950 1000 1100 1150	11 11 11 11 11 11	+26 +26 +26 +26 +24 +26 +25 +26 +25	+25 +25 +28 +26 +23 +24 +26 +26 +24	+25½ +25½ +27 +26 +23½ +25½ +25½ +26 +24½	draw Fe float Covered Qtz. float """ """ Qtzite float """ some Fe """ """ """ """ """ """ """ """ """ "









Dist From Readings AV. OF REMarks o Point Readings A45 0' +17 LMS Dip Needle Lines R.A. - Notebook

ORIGINAL COPR. 1910 BY J. C. PARKER flogt seen by R.R.R 486 Some Line - This may be a shallow ledge out crapping Ft R. R.R. - Floot spanse LINES TO INCH 12000 13 EFAX: PHILADELPHIA T: PA.: MADE HS U.S.A. 1119 8105 55

IK Magnetic survey Mar 21 £14 Start at old locu Mon 400 E & go west +26 350 E 300 € +26 250E +26 200E +26 150E +26 +27 100 E 50E +26 at W 6"14 127 OE 50W +26 won E Ferro 14 Locu Mon #14 08/25W 100 W +27 Very thick takes +27 150W no may effect whatever 200 W +26 Start E & Ferro 13 0 +29 50W +29 100W +29 D 150W +27 2000 +27 250W +27 Low Mon 13 plenty high stratig

Turn 527W from Lan Fine 13 305 +28 Prob heavy 100 5 +29 Cover of talus 1505 +28 +28 2005 2505 +29 3005 +28 428 3505 4005 +28 Start at 3005 & head 562E 50 E +32 100 E +32 150 E +34 200 E +33 250E +33 New con 1412 Start at con the of go NEar 50N +40 100 N 748 150 N + 39 200N +27 250N +28 pointof beg trouse 300 N +29

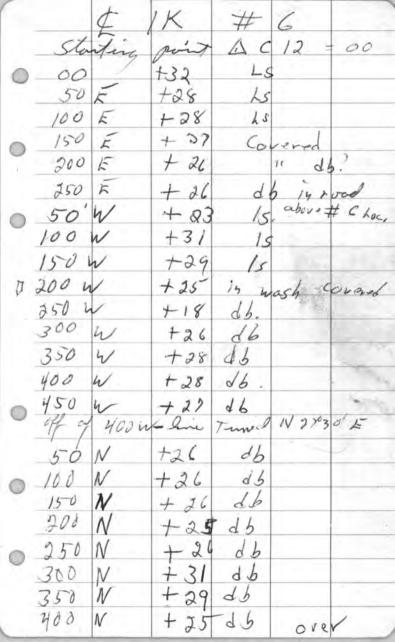
Start at NW 1K 12 award & run end lines of 12 & 11 (Morzi) 50 E +10 on Fontorogo 100 E -6 -1 150 E er er er 11 14 16 +5 200 E 11 14 14 +29 250 E 11 11 11 1/2 +13 300E +16 in road 350€ 400 E +26 450E +17 500E +23 550E +25 NE cor/ K 12 award. 600 E 121 680 E +23 700 E +25 750 E +23 +26 SOOE 850E 427 123 900 E +25 950 E +24 1000 E +25 1050E +26 1100 5

Start at ald & on Stanke TR. MK. REG. U.S. PAT. OFF. cedor tree! 9 00- +28 rond fluat 29 50W + COPR. 100W + 28 06 150W +26 26 200 W + 26 06 225W +20 do float 250 W +12 db float db float 275 + 5 26 300 W 5/out 5 -5 16 325 W Stont LINES TO INCH 350 W do float 375 W 6 float 4000 Sloat 15 25 425 W + 15 ds float 450 W + 15 dh float # 475 W + 15 23 500 W + 17 11 575 W 2 20 + 22 550 W it 575 W + 23 11 600 w 2 11 11 + 24 625 W 11 11 24 650 W + 11 11 55

DE 4 Start on top of Lido's Lovor K down to wood, + 19 db Lidge 10+50 10+25 +18 06 10000 + 18 9 +50 + 19 W 9+00 ナノフ + 14 t<sub>f</sub> 8+50 + 21 8+00 11 7+50 + 6 LS cherty 7+25 76 # 2 m nus 11 11 7+00 - 7 te 6+75 6750 + 4 71 6+25 - 9 900d 100 \$ 800t 6+10 - 18 on RR Contalino polority reversel \*6400 - 54 polarity dyman before and refor lots of floor. 5+75 - 28 5750 + 22 iron float t 26 5+25 Blow db-les content 5 +00 7 20 de 25 4+50 + 27 db in 1 +00 +27 road.

Center Line of IK #5 Fist station in road TR. MK. REQ. U.S. PAT. OFF. + 34 in db in wood otor W 0+25 W +26 ds 05 0450 W +24 db below hand 100 W + 26 db above road 150 W + 26 200 W db. under codas 1 29 do fe float 250 2 + 18 3 00 W near te ledge + 43 on ledor ledo sightly dovered, 3 25 4 - 7 3 50 W -20 3 25 W above rd. indb + 5 400 W + 11 25 9 25 W 7-13 db 25 450 W + 13 475 W + 16 06 15 500 V +18 5 25 W 05 + 18 03 1/6 5 50 W 16 575W + 19 600 W +21 26 650 W 25 + 26

\$ 1.K. 5+6 start 13'S. of CII in word 16 + 25 0+00 46 50 W +26 + 26 86 100 W 16 150 W +28 +30 16 200 W 250 W 16 T 29 +29 16 300 41 3 50 W db + cheely Le Slout 1-13 375W H 400 W 11 +23 11 425 W t 25 11 11 450 W 721 4752 +29 it 4 11 500 W +34 11 4 525 W +43 16 550 W +33 34 575W + 33 11 600 W +32 11 625W +31 6 50 W + 32 11 11



6 the North 1K#6 450 N + 25 db 5-00 N + 23 12 wash \$ 9 12 /2 Sturt 550 N + 27 gtzte sligg 600 N +28 9/2/10 650 N +26 31:60 200 N +26 750 N + 26 + 26 500 N 11 East of west from \$-1765 700 goes (10 C-41 700W Covered Tray Alast 121 7254 +22 250 W +23 235W +22 200 W 122 150 W +22 100 W 122 Ems Eleat tout Crof. +23 00 +23 50 E 100 F +22 Altered Lms cuitsing 150 E +23 Lm3-D6. Floort. ZOOE Covered. het Flagt. +23

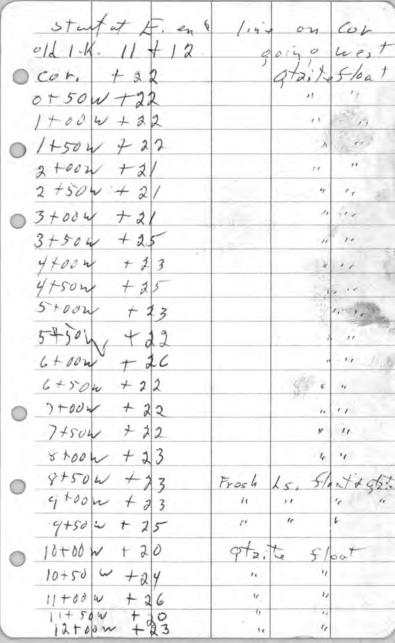
Line N-5 From Lower Road near old Loan of Ferro#8 Line Frends 5530W +24 + Db. + Flogx 505 +24 Float het. 1005 +23 Lms Float +out crop " It int 1505 +23 2003 +25 " " " +23 Troy Flogt +Lms Flogt 2503 3005 Troy Float +20 3505 +21 Troy Float 4005 11 +21 // 4505 +20 11 +21 5003 11 Start at las Ferro # 15 go N. N 500 E at loss mon-Troy Flogt 00 +20 50N +20 Troy \$1001. 100N +18 " - Some basalt Float 150N TIT Troy Float 200N T13 Troy 11 0025N 113 11 250 N +13 11 275N 719 11

300N +29 F/00+ roy 325W +30 14 11 350 N 128 11 375W +-31 21 +18 400 N 417 425 N 11 - above Fe O.C. +42 450 N " FC 0.C. 475N +23 Epuered. End Center OF 8? 107 \$100++ 4 FP Oc ? +15 500N +23 525N Troy Alogt +4ms a.c 550 N +24 Floor 600W. +26 in ra- Troy Flogt

April 15, 1958 \$ 1.K. 13 +14 Covered Troy Sta Soil 0+504 +22 1 took +23 Some Fe flout? 1+50m +24 2 +00W T21 Corredo Covered-Troy Float 2+50W +21 3+00m + 21 2 +50 statem Turn 9005 912. float. 505 +22 1+005 +22 11 12 1+505 +22 2+005 +22 2+205 +23 3 +005 + 13 \$2 2+50 stat. Rod also read +23 0+50N +22 gts. float 1 HOOM + 27 1+50N +21 2 400N + 22 2 +50N + 22 The group Holyaly & 3+00N+21 9+2. float 3+50N +24 4+00N +23 4+50N+22 5+50N+22 5+50N+22 N. Side of wash Dta Foot otaite float

600 N TURY Last in Sile line Work Cor 14. # 14. 0/2 Flout 150 pm 222 , 250 NW+ , 200 MW 22 100W 2150 NN + 30W 100-10 W 2 2 NW GOR 1K14 1 22 9/2 Floor 0+505 1+00 E 32 + 2 1+505 2 +00 \$ 22 7 750 E 21 2 3 +50 E 2 1 11 1 22 4 + 00 2 4+50 = + 20 5 + 60 E + 23 5 50E 421 6+00 E +2 11 r 6+50E + 2 0 11 11 7 +00 E + 19/2 21 11 7 +50 E 11 8 +00F 9 + 00 E 20 10+50 E 20

on & /K 13 × /1) Startat 300 F 15. outempines 0+50 3 +22 00+75 5 +24 1+00 5 +22 covered Tron Float. 1+50 +28 027005 2+505 +21 Eyl of Tranch 3+005 +22 side of travil + 42 at give tree nouting 3+255 3+505 + 43 year trach 37755 + 19 on pite at dist 4+005 + 17 carecol + 15 4/255 4+505 + 19 1 19 4+755 5+00 5 + 14 5+255 + 10 5 +505 + 16 leve on on center live of Ken



£ 11 +12 12+50 W glaite 13+00W 13+50 W + 23 14 400 W +00 A C-27 17 hord. 14 + 50 W +16 gtzite flout 15+00 W + 13 15 1 540, tof Mon. From 54 Con. 1-11, 12 & N w Can 1 K 11 0+50 W + 15 atzite flood 1700 W 1450W 121 1 +00 W +22 2 +50 W +22 3 +00 W 122 +20 +27 # 10 LOCN FARYO CL. 1K # 10 + 27 WEYE Qtaite flood 0+50 5 +27 1+00 E +26 1+50 E +23 1 23 2+60 E 2+50 F +21 +21 3 TOO E + 20 3 +50 E +16 4+00% + 12 4 +50 E + 9 5+00 K f 54 helow rood 5+755 + 79 on out any

\$ 10 1.K. + 1 Solow belong Fe 6+00 F 25' South of Low Min. at 6.30! 6+25E be on and crup. 10 over Femenselfical 6+50E 7-50 6+75E 7 4 E. edge of road STOOF 76 covered glantotus + 23 corred " " " 7+25 E + 17 comed. 7+50E )+75E +23 " 8 tOOF 8+50 E + 23 9 too E + 23 9+50E +20 10 +00 E T 24 10+50 E + 25 11 HOOF + 25 11 Go Fast From C 34 -0400E -64 in rol near Fr ledge above Fe leag 0+25E -44 below " " about 6 Of 712 dbove ledge Fe. 0+75 +37 0 +100 +16 on alt Lms oc werk min \$25E +18 Alt Cos.

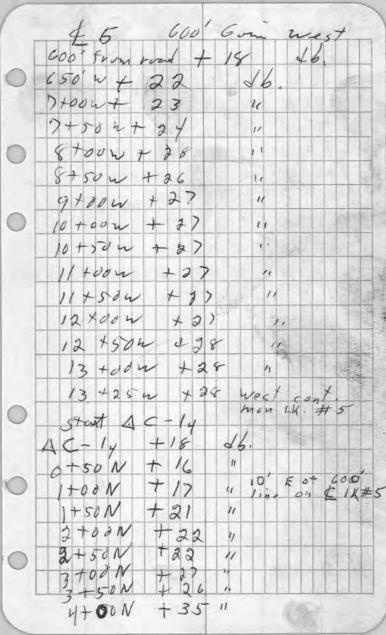
1+30E +17- GOURNEY- AE ALIMS Fleat +29- La grade-Lms. WOOE. +22- covered- 16. + Lhs Plat 117 - Godered Db Float cover 350E +23 5 76 E, 80' From 200E to 5-189 Line Bears N 15°W o toow - for - cosevery who los pitts +24 COUPVED OfTOW covered - Het floot 100W +27 In road at EURAP-FINE 150 W +21 Flogt Covered. DOW +26 121 Codertel, 250 W Below Main to ledge. +7 300 W +7 at Lip 1. L # 9 1000 TV. 325W 350W 0 n o.c. ahove 1.129 4000 ( -30 -10 @n. 0-6 but congres 375W TO 400 W COVEREDI. +4 on rd Edge in Fill 425W Courred 4500 +11 COULTER 475W 773

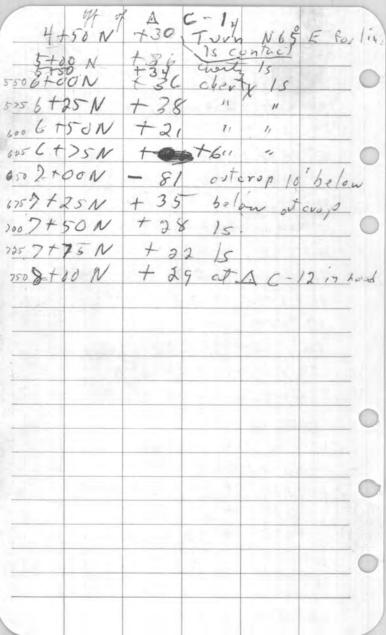
+14-Coverry 500 525 +14 +18 11 550 575 +18 600 Cavered- on on Inge + 20 50'-60' Al of the Mon Start at SW Cor 1.K # 9 90 E OtooE +12 Covered by Troy float 0,50 112 El 10 16 0+100 +12 11 11 11 11 1150 E +11 11 11 11 11 +11 d dh d 200 € Sta end of line R.C. g + & nan Ste X book Cover trong flogs 20E 412on rd obeyt 100 from 380E 69 3 end. +15 4030 Coursed +12 400 +19 4.50 +20 11 500 122 in rd, 20 & 5 Z7°E. 550 +24 from 2353.

Fri - 19 Apr. 90 W from 6-34 50w - +1 - Covered 754-46 11 100 W +10 125W +11 31 150W +13 11 200W +16 N 250W +19 300W +19 17 This line ties into line on \$ 10 9+ 5+0250 about 10 20, 0x 11. 5 fart 9 + w & mon 1, x # 10-90 Sou 00.5 + 27- covered 505 +26 1005 +28 1505 +26 2005 TZ5 2005 725 9+ \$ 9-12 3005 + 23

5 tart at \$ 9-10 w 4 mon 80 56ZA Otoa 0+50 100 122 +19 150 +16 200 225 +13 250 1-11 275 300 +2 350 -10 in road 375 Fe 0.6 450 Fe O.C. +42 H8 475 Carred 500 120 Covered 18 525 Fron oc? 550 18 Iron oc +13 575 600 10 LMS AIF 625 1-10 5 189 +50 : from sta 250 +20 650 line that goes of of C34.

Start at 600' \$10 90 turn 900 450N- +3Z 743 or vol edge cover 1000 125N +3-42 150N -51 175N +47 -00 0-C 200 N 452 on o-c 225N fred contr caver lots to flowt 250N +13 28 to JE Car 1, 1 # 12 amended 9+ post -15 425N +65 450 N +9 75 N +23 100N +43 125N 128 10N +23 200N +24 250N +20 300N +19 Come out at 600' on all \$1/ Start of 400 on old & 11 90 30. Jun 900





Start at 11+50 \$ 1K. 3+4 505 - + 42 covered db 1+00 5 + 14 db x/s. float. 1+25 5 + 16 chorty outersp. 1+75 5 + 29 alt. Ls. somete above 2+008 t 3/ alt Ls. 2+505 + 32 db+hs. contact 3+005 come + 3 nt at 1150 db 5 Art at 8+50 3\$4, turn 90° go South (Sta Numbered (rom E3) 250N +4- Cherty Lms out crop 200N +23 " " " 150N +25 to Covered +30 in 10 E-W. 100N +3 Covered - Cherty, + FC - logt 50N -13 Fe out crop SSOW +12 Alt Lms, Fe stringers 01 850 W £ 3 O Start at 1450 W 354 90 5 505- +16 Covered -db Flogt 1005 +11 -AH Lms outerop- de Courer 1505 +7 Alf Lms Float - Covered 2005 +7 Alt Lms + do Float-Covered 2505 +66. Lms+ Fc out Crop. 3005 +8 - 6ms & Fe out crop 15' W+ 15' 5. of 1450 on &3

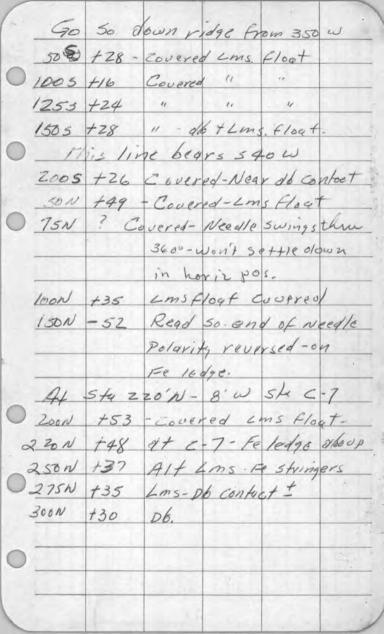
3.50 5- +15 LMS. FE 5 mingers 7005 +40, HV+ Lm 4503 +34 AIX 1 MS Alt Lms 5005 -29 Alt Lms Float 5505 124 600 5 424 Covered by Lms 1411 Floort do. out 100-50 SE. in do? Poing Up draw I at 1/4 cor + turned 25°LO from Loca 1. K JA 1-5005 - + 28 - Altered Lms - DE Cont 501 down hill no roly to too par of 4505. +26-A1+6m. outerop 4005 + 25 + Covered No float 3505 + 30 Lms outerop - Looks. 3005 +30 Poverok- Alt ams floors 2505 + 43 Alt Ems outerof-miner Fr 5 mingers 2005. +33 Min 4 m OUT Crop 1505 + 46 Well 12010 Kms. 1005 +31 Goverent do Floor 50 715 - Iron lealise 1+ 1/4 Cor.

From 14 car on £1 25 From 50N -2 Covered do Floor, Fe ledge 15°N. 100N +2 - Fe out crop 8 150N +15 in Digbase From 1 C 5 To 1 C 6 Ton AC5 0+00 MAIS +30 db-18 contait 00+50 N +5 db cover. +13 " " " " 1+00 N 1+50 N t 28 " " 2+00 N + 5 charty 1s. minoral. 0+50 5 + 4 charly is outeror 1 +00 5 -21 covered 15 Sloat 1+505 2 +005 -20 15 2+505 + 8 below Good to ledge 3+005 - 7 at 1 C6 3+505 +3 alt. Ls. min 4+005 + 28 alt Ls min 4+505 - 11 alt Ls min. 5+00 5 + 63 alt 15 min. + 2 alt " " " + 2 y alt " " " " 0 5 H50 S 6 4005 6 + 50 S

+24 at Luc Pi + 24 at E. Center Ferro # 3 old # 3 claim at Endeantir stalle - 5 chartyls Start of told E & 3 90 W 50 W- - 26 - Alf Lime & Fe. 75W- + 33 Jovered - Ft out crop 10 50 100W +32 Covered - Cherto Floot FROUTCHER Z5'N Covered- d6 & AH Lms Bhat 12 rw +50 Coursel Fe Elout De 150W +25 outgrop 751 N 200W 433 FO Floot - Grage 1511 Cover do Flogt - Cherry Phot 225W +40 Cover- doto her to Chat- Alt 250W +40 Lms below(w) 10 2754 +34 - Cover-Fet Cherty Float BOOW + 3B Fe 100/ ges A/4 Lms. O.C 325W +31 350W +30 A/4 Lms 0.2 this line bears 565 E

~ Wed. ARri/ 9, 1958 £ 1.K.3 Start at 8 +00 Run North +19 0 8+00 W covered Fe flia 0+50N +26 1+00N +28 Covered " "1 Covered "P" 1 +50 N +0 2 too N - 11 2+50N +12 Charty Marker bed corprod charty s 3+00 N + 12 Come out on 8+50 trom 5+50 Going N. Srom \$ 344 3 +50 N Charty 15. Hout + 12 4+00N + 14 " " "
4+50N + 16 Db.
5+00N + 13 Db
5+50N + 13 Db
6+00N + 19 Db. on \$14 \$400 At 11+50 on \$ 3+4 tum F # 5. covered charty for 11+50 + 0 chart outering + 11 0+50 N + 16 1+00 N 1+50 N + 10 Db, float 2+00N + 16 Db - float 2+50N + 17 Db - float 3+00N + 20 hits 10+00 on £4

+ 50 M +17 06 + 15 D6 0+50 1400 2 22 Charty 15. float. 1+50 12 8 shickers at a RRR. Stake D 2+00 - 8 + 35 = 3+ 75 5 39 Som . Fre flow 3+00 F Fo outerop? 41 3 +25E 46 Goodfe 3 + 50 5 covered some Forther T75 K 725 4+25 +25 +50 E +33 11 4 + 95 E + 24 4 + OOE 25 11 1 C-1(2) 25 06, 15 1000



\$ 1Km 13 7 14 00 ng East + 24 g/2 te float + 24 0+50 + 34 1+00 1+50 7 34 + 24 2100 + 25 Ruin in 2+50 3.+00 + 37 3+50 7 24 4 + 19 4+00 4150 1 23 + 25 5+00 5+50 7 34 + 23 6+00 + +24 6+50 + 19 7400 + 23 7+50 8 to0 +24 +25 5+50 + 25 9 100 1 25 9+50 Turn 505 + 25 South Side of wash - 23 + 13 1+00 5 4 24 1+50 5

22,1958 +36 7 35 reversed polositi 1+00 W 5 1 +254 + 55 1 + 50 2 +>5 W Fe lelow 20 +13 +30 +30 3 775 W 126 4 +00 W 4+25 0 +24 4 + 50 in + 34 claim # 3 terro 77° W 510m AC-6

200' North of My Con 2 too N + 18 116. 2+50 N +21 26 3 TOON + 22 26 06 3+50N +25 UN 1450 \$ 14.3 going North start at 350N, 3+50 N +18 4 too N +20 4+50 N 1-20 5+00 N +23