OFFICIAL COPY — O. M. E. — RECEIVED APR 4 1968 — INITIALS CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME-6558
Contract No. 14-23-090-2233
Contract Amount $312,180.00
Gov't. Participation % 75 $234,135.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of February 1968

Operator's Name Double Rainbow Mines, Inc.
Address 2251 Virginia St., Berkeley, California 94709

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
(1) Independent Contracts: Fixed Unit Costs and						
Shaft Station @ $2.16	0	19,440.00	19,440.00			
Shaft Sinking @ $245.00	0	7,840.00	7,840.00			
Shaft Sinking @ $220.00	0	48,620.00	48,620.00			
Bulldozing						
Upper Contact 6x6@$35. (Drifting)	6,860.00	42,140.00	49,000.00			
Lower Contact 9x9@$56.67 (Crosscutting)	6,857.07	26,861.58	33,718.65			
Rock Bolts @ $3.00 (Drilling)	0	4,350.00	4,350.00			
Underground AX @ $3.38	0	13,486.20	13,486.20			
Surface BX @ $6.50	0	10,218.00	10,218.00			
Surface BX @ $6.00	0	2,766.00	2,766.00			
(2) Personal Services:						
Supervision & Technical						
Outside Consultants	9.00	513.75	522.75			
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
Consultant's per diem	0	52.00	52.00			
Consultant's travel expense	0	56.28	56.28			
TOTALS	13,726.07	176,343.81	190,069.88			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date March 13, 1968* Payee Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$10,294.55 14X0804

Signature [illegible] (Authorized Certifying Officer)

Date APR 4 1968 Vou. No. 8617

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2233

Signature J. William Hasler Title Field Officer Date 3/27/68

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 3/27/68

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

BUDGET & FINANCE 68 MAR 8 AM 8:18 SURVEY

800522

MME FORM 61
SEPT. 1959

HR 4/1/68

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of February 1968 Docket No. OME-6558

Operator's Name Double Rainbow Mines, Inc. Contract No. 14-23-090-2233

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Upper Contact 6x6@$35.00 Drifting	Ft.	196	1,400	49,000.00	196	1400	49,000.00
Lower Contact 9x9@$56.67 Crosscutting	Ft.	121	595	33,718.65	121	595	33,718.65
Shaft Station @ $2.16 Raising	Cu.Ft.	0	9,000	19,440.00	0	9,000	19,440.00
Shafts @ $245.00	Ft.	0	32	7,840.00	0	32	7,840.00
Shafts @ $220.00 Winzes	Ft.	0	221	48,620.00	0	221	48,620.00
Rock Bolts @ $3.00 Other Underground	Each	0	1,450	4,350.00	0	1,450	4,350.00
Underground AX @ $3.38 Drilling, Core-Diamond	Ft.	0	3,990	13,486.20	0	3,990	13,486.20
Surface BX @ $6.50 Rotary	Ft.	0	1,572	10,218.00	0	1,572	10,218.00
Surface BX @ $6.00 Drilling, Non-core-Diamond	Ft.	0	461	2,766.00	0	461	2,766.00
Rotary							
Churn							
Percussion							
Miscellaneous							
Outside Consultant	Day	1/8	6-3/4	631.03	1/8	6 3/4	631.03
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE *(per MME Form 60)*				190,069.88			$190,069.88

REMARKS

(Continue on back)

REMARKS

(Continue on back)

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date March 13, 1968 Operator Double Rainbow Mines, Inc.

Per Edward L. Tullos Title Agent

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office Government Representative

Date March 27 1968

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

MARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

BUDGET & FINANCE
APR 7 8 19 AM '60
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INT.DUP.,D.C.59- 27162

800522

OPERATOR'S NARRATIVE REPORT - FEBRUARY 1968

OME - 6558 (SILVER)
DOUBLE RAINBOW MINES, INC.
DOUBLE RAINBOW MINE
LAWRENCE COUNTY, SOUTH DAKOTA
CONTRACT NO. 2233

UPPER CONTACT WORK

Total slusher drift advance for February was 206 feet, making a total advance to date of 1,410 feet. The cost of mining an additional 10 feet beyond the contracted distance will be absorbed by the operator. All contracted drifting on the upper contact now has been completed. [See assay reports (A.) & upper contact sample map (B.)]

Slusher drift No. 2 advanced 11 feet, to a total distance of 358½ feet. No significant truck samples were obtained, and no ore-type mineralization was noted.

Slusher drift No. 3 progressed 76½ feet, to a total distance of 183 feet. Several splits in the structure were encountered, and for the last several rounds the vertical was very weak. Silver values decreased to less than one ounce in the best parts of the faces. With verbal approval of the OME, the remaining 117 feet scheduled for drift No. 3 was used for an extension of drift No. 4, and an extension of the Bad Air drift, called drift No. 5.

Slusher drift No. 4 was extended 49 feet. Mineralization was similar to that found previously in this drift. Truck samples ranged from 1.7 ounces to 2.4 ounces of silver.

Drift No. 5 was driven 69½ feet west, following a strong vertical from the west end of the Bad Air drift. Some cross verticals were intersected and abundant mineralization was noted. Face samples were all under 2.0 ounces of silver. The last truck sample contained 4.0 ounces of silver.

GEOLOGIC MAPPING

Mapping of mineralization and verticals has been done in the extension of drift No. 4, and mapping of verticals is finished in drifts Nos. 2 and 3. Verticals have also been mapped in part of the old workings, so that any pattern can be discerned more readily. A geologic map of the verticals in the upper contact (C) is attached to this report.

LOWER CONTACT WORK

Drift work was halted during the first 15 days of February to enlarge the pumping facilities. A second sump was constructed, two additional 50 hp pumps and two slurry pumps were installed, and an 8-inch pipeline was installed from the new sump pumps to the settling pond. Water flow declined steadily during the month, from 560 gpm on January 31 to 320 gpm on February 28.

Operator's Narrative Report - February 1968

Drifting resumed on February 16, but progress was slowed due to fractured ground conditions. Five timber sets were erected to support unstable rock in the vicinity of one open fracture. Drift advance for February was 121 feet, making a total advance to date of 595 feet. [See attached section (D.) & sample map (F.)]

The lower contact ore horizon was reached on March 1, at a distance of 120 feet from drill hole N6. Pods of massive pyrite with galena were found at the dolomite-quartzite contact. Some dissemination of sulphides was noted, both in the dolomite and in the quartzite. A selected sample of pyrite and galena contained 24.5 ounces of silver and $13.55 in gold. A 6.0-foot vertical channel sample in the southeast wall contained 6.3 ounces of silver and $2.37 in gold. The attached geologic sketch (E) shows features visible as of March 7. The full nature or extent of this mineralization is not known as yet.

H. A. Kelly
Project Engineer

HAK/g

Orig. & 4 copies - OME

EDWARD L. TULLIS
Consulting Geologist
223 ST. CHARLES STREET
RAPID CITY, SOUTH DAKOTA 57701
PHONE 605/342-3733

March 1, 1968

FOR PROFESSIONAL SERVICES RENDERED

3-1-68 Office work during February, 1968.....$9.00

Approved for Payment
3-4-68 by D.J.D.

Copy to Mr. Christiansen
3/4/68

A.

Date February 3, 1968 Double Rainbow **ASSAY REPORT**

2-2	SAMPLE	Silver Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	K - 42 HAK	1.15	*NF
	D - 43	.14	NF
	HAK K-44	2.5	NF
	K-45	3.55	NF

Date February 6, 1968 Double Rainbow **ASSAY REPORT**

2-5	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow	HAK K-46	2.03	*NF
	K-47	.4	NF

Date February 7, 1968 Double Rainbow **ASSAY REPORT**

2-6	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow	HAK K-48	2.2	.20
	K-49	1.1	.20
7	HAK K-50	.44	NF
	K-51	.3	NF
	HAK K-52	1.75	NF
	K-53	.15	NF
	HAK K-54	.22	NF
	K-55	.16	NF
	K - 56 HAK	.05	NF
	K - 57	.05	NF
	K 58 HAK	.41	NF
	K 59	.12	NF
	K 60 HAK	.1	NF
	K 61	.12	NF

Date February 22, 1968 Double Rainbow **ASSAY REPORT**

	SAMPLE	Silver Oz.PerTon	GOLD Dollars per Ton at $20.67
Dbl.Rbow	HAK K-Special	1.52	*NF
	K-62	1.7	NF
	K-63	1.05	NF

Date February 23, 1968 Double Rainbow **ASSAY REPORT**

	SAMPLE	Silver Oz/PerTon	GOLD Dollars per Ton at $20.67
Dbl.Rnbow.	HAK K-64	1.45	.60
	K-65	1.4	*NF
	HAK K-66	.57	NF
	HAK K-67	1.7	NF
	K 68 HAK	1.15	1.40
	K 69	.5	NF
	K 70 HAK	1.37	NF
	K 71	.45	NF

NF = None Found

Date February 3, 1968 Double Rainbow **ASSAY REPORT**

2-2	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	✓G - 186 # 2 CEW	.2	*NF
	✓G - 187 Slab 8' CEW	2.56	NF

Date February 2, 1968 Double Rainbow **ASSAY REPORT**

2-3	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow	CEW ✓G-188	1.64	*NF
	CS ✓G-191	.3	NF

Date March 1, 1968 Double Rainbow **ASSAY REPORT**

2-	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G - 220 CS	.1	NF

Date February 29, 1968 Double Rainbow **ASSAY REPORT**

2-28	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	✓G 218 CS	1.3	NF
	✓G 219 CEW	1.4	NF

Date February 6, 1968 Double Rainbow **ASSAY REPORT**

2-5	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow	HAK ~~K-46~~	~~2.03~~	~~*NF~~
	~~K-47~~	~~.4~~	~~NF~~
	CS ✓G-189	3.80	NF
	✓G-192	.7	NF

Date February 8, 1968 Double Rainbow **ASSAY REPORT**

	SAMPLE	Silver Oz. PerTon	GOLD Dollars per Ton at $20.67
6	Dbl. Rnbow CEW ✓G-190	1.8	*NF
	✓G-195	1.2	NF

Date February 9, 1968 Double Rainbow **ASSAY REPORT**

2-8	SAMPLE	Silver Oz. PerTon	GOLD Dollars per Ton at $20.67
Dbl. Rnbow.	CEW ✓G-196	.7	*NF
	HAK ~~K-52~~	~~1.75~~	~~NF~~

Date February 10, 1968 Double Rainbow **ASSAY REPORT**

	SAMPLE	Silver Oz. PerTon	GOLD Dollars per Ton at $20.67
8	Dbl. Rnbow CEW ✓G-197	.53	NF
9	CS ✓G-198	.66	NF

Date February 12, 1968 Double Rainbow **ASSAY REPORT**

2-10	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbo.	✓G - 199 CS	.2	NF
	~~K - 56 HAK~~	~~.05~~	~~NF~~
	~~K - 57~~	~~.05~~	~~NF~~

NF - None Found

Date February 13, 1968 Double Rainbow **ASSAY REPORT**

2-12	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	G 200 CS	.98	NF

Date February 15, 1968 Double Rainbow **ASSAY REPORT**

2-13	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	G 201 CEW	.4	NF
	G 202	1.0	NF

Date February 19, 1968 Double Rainbow **ASSAY REPORT**

2-17	SAMPLE	Silver Oz. PerTon	GOLD Dollars per Ton at $20.67
Dbl. Rnbow.	CEW G-203	.2	*NF

Date February 21, 1968 Double Rainbow **ASSAY REPORT**

	SAMPLE	Silver Oz. PerTon	GOLD Dollars per Ton at $20.67
Dbl. Rnbow.	CS G-207	1.8	*NF
	CEW G-208	1.03	NF
	CEW G-209	1.1	NF
	CEW G-210	2.1	.60
	G-211	2.45	NF

Date February 26, 1968 Double Rainbow **ASSAY REPORT**

2-	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G 212 CS	2.40	NF
	G 213 CEW	2.26	NF

Date February 28, 1968 Double Rainbow **ASSAY REPORT**

2-27	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	G 214 CS	1.71	NF
	G 217	.92	NF

Date February 24, 1968 Double Rainbow **ASSAY REPORT**

	SAMPLE	Silver Oz. PerTon	GOLD Dollars per Ton at $20.67
Dbl. Rnbow.	CEW G-215	1.05	NF

Date February 27, 1968 Double Rainbow **ASSAY REPORT**

2-26	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G 216 CS	1.6	NF
	~~K 68 HAK~~	1.15	1.40
	~~K 69~~	.5	NF

NF = None Found

REPORT OF ANALYSIS

SAMPLE OF

DOUBLE RAINBOW ORES

Page 1

RECEIVED FROM _____ ON _____

Sample No.	% Pb	% Zn
K 12	0.29	0.40
K 13	0.19	0.25
K 18	0.41	0.24
K 19	0.31	0.24
K 22	0.20	0.39
K 23	0.22	0.32
K 31	0.11	0.31
K Special	6.08	8.19
K 36	0.07	0.35
K 37	0.25	0.71
K 39	0.10	0.36
K 41	0.16	0.40
32 A	0.31	1.20
41 A	5.94	1.37
42 A	10.50	1.64

DATE 17 Feb., 1968 ANALYST W.H. Taylor

REPORT OF ANALYSIS

SAMPLE OF

DOUBLE RAINBOW ORES

RECEIVED FROM _____ ON _____

Sample No.	% Pb	% Zn
42 B	3.44	1.26
43 A	8.38	1.01
44 A	2.51	2.02
45 A	0.65	1.54
46 A	1.44	1.82
49 A	1.84	4.51
49 B	0.86	1.04
50 A	1.23	1.08
51 A	3.69	1.41
52 A	1.74	1.09
53 A	0.72	0.91
54 A	0.80	1.02
55 A	1.88	1.55
56 A	0.80	1.84
57 A	1.22	2.08

DATE 17 Feb., 1968 ANALYST W.H. Taylor

Standard Form No. 65
November 1961
General Services Administration
FPMR (41 CFR) 101-11.6

U.S. Government Messenger Envelope

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	STOP		STOP
Topo C. W. Eckhardt	STOP	Rita Christian	STOP
	STOP		STOP
Warehouse	STOP		STOP
DAVE Bartholomew Purchasing	STOP	Mr. Bob Bruce	STOP Topo
	STOP	Surveys	STOP
Marie Wulf BTI	STOP	Warehouse	STOP
	STOP	Budget & Finance Wash., D.C.	STOP
Robert A. Smith B.H. 6	STOP	Mr. Dow Rm 4224 GS Bldg	STOP
Photo Lab Topo	STOP	Mr. Iwero Rm 4238 GSA	STOP

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Use STOP only when messenger service between Government buildings in Washington, D.C., is required or wherever a STOP system is used. Your mail room has STOP information.

65-107

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3. Write Clearly
4. Send Surplus Envelopes to Supply Room for Reissue

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D. Kirkemo Rm. 4457 Int. Bldg	STOP		STOP
	STOP		STOP
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☆ U.S. GOVERNMENT PRINTING OFFICE: 1964 — O-771-932

Use other side first

U.S. FORM 60
SEPT. 1959

OFFICE OF MINERALS EXPLORATION
MAR 8 1968
INITIALS CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

RECEIVED FEB 10 1968 Denver, Colorado

Docket No. OME - 6558
Contract No. 14-23-090-2233
Contract Amount $312,180.00
Gov't. Participation % 75 $234,135.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of January 1968

Operator's Name Double Rainbow Mines, Inc.
Address 2251 Virginia St., Berkeley, California 94709

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Shaft Station @ $2.16	0	19,440.00	19,440.00			
Shaft Sinking @ $245.00	0	7,840.00	7,840.00			
Shaft Sinking @ $220.00	0	48,620.00	48,620.00			
Upper Contact 6x6 @ $35.00	9,730.00	32,410.00	42,140.00			
Lower Contact 9x9 @ $56.67	18,587.76	8,273.82	26,861.58			
Rock Bolts @ $3.00	0	4,350.00	4,350.00			
Underground AX @ $3.38	0	13,486.20	13,486.20		12,353.90	12,353.90
Surface BX @ $6.50	0	10,218.00	10,218.00			
Surface BX @ $6.00	0	2,766.00	2,766.00			
(2) Personal Services:						
Supervision & Technical						
Outside Consultants	9.00	504.75	513.75			
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
Consultant's Per Diem	0	52.00	52.00			
Consultant's Travel Expense	0	56.28	56.28			
TOTALS	28,326.76	148,017.05	176,343.81		146,884.75	175,211.51

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Feb. 15, 1968 *Payee Double Rainbow Mines, Inc.

Per Edward R. Tullis Title Agent

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 21,245.07 14X0804

Signature John (Authorized Certifying Officer)

Date MAR 8 1968 Vou. No. 85588

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2233

Signature J. William Hasler Title Field Officer Date 2/21/68

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 2/21/68

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

INT.DUP.,D.C.59- 27161

MME FORM 61
SEPT. 1959

2-12-7/1 81 RMS

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of January 1968 Docket No. OME-6558

Operator's Name Double Rainbow Mines, Inc. Contract No. 14-23-090-2233

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting: Upper Contact 6x6@$35.00	Ft.	278	1,204	42,140.00	278	1204	42,140.00
Crosscutting: Lower Contact 9x9@$56.67	Ft.	328	474	26,861.58	328	474	26,861.58
Raising: Shaft Station @ $2.16	Cu.Ft.	0	9,000	19,440.00	0	9000	19,440.00
Shafts @ $245.00	Ft.	0	32	7,840.00	0	32	7,840.00
Winzes @ $220.00	Ft.	0	221	48,620.00	0	221	48,620.00
Rock Bolts @ $3.00	Each	0	1,450	4,350.00	0	1,450	4,350.00
Underground AX @ $3.38	Ft.	0	3,990	13,486.20	0	3,990	13,486.20
Surface BX @ $6.50	Ft.	0	1,572	10,218.00	0	1,572	10,218.00
Surface BX @ $6.00	Ft.	0	461	2,766.00	0	461	2,766.00
Drilling, Core-Diamond: Underground							
Drilling, Non-core-Diamond: Rotary							
Churn							
Percussion							
Miscellaneous: Outside Consultant	Day	1/8	6-5/8	622.03	1/8	6 5/8	622.03
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE (per MME Form 60)				176,343.81			176,343.81

REMARKS

(Continue on back)

REMARKS

(Continue on back)

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Feb. 15, 1968 Operator Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office Government Representative

Date February 21, 1968

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

OPERATOR'S NARRATIVE REPORT - JANUARY 1968

OME - 6558 (SILVER)
DOUBLE RAINBOW MINES, INC.
DOUBLE RAINBOW MINE
LAWRENCE COUNTY, SOUTH DAKOTA
CONTRACT NO. 2233

UPPER CONTACT WORK

Advance of the slusher drifts during January was 278 feet, making a total advance to date of 1,204 feet.

Slusher drift No. 2 progressed 171½ feet in January for a total advance to date of 347½ feet. Little significant mineralization has been found in this drift. Several verticals have been noted, but they do not appear to be ore-bearing.

Slusher drift No. 3 was started in January and progressed 106½ feet. This drift is following a strong vertical structure down dip. Abundant pyrite has been noted, as well as some galena and sphalerite. Chip samples have been taken from the face between blasts. The best sample yielded 16.3 ounces of silver from the upper left one-fourth of the face. The upper one-half of the face at this point averages about 10 ounces of silver. Several other faces were nearly as good.

CHANNEL SAMPLING & GEOLOGIC MAPPING

Mapping of fractures and mineralization in slusher drift No. 4 is proceeding in conjunction with channel sampling.

During January 46 channel samples, representing 24 sample lines, were taken in drift No. 4. More sampling will be done when mapping has been completed. Several ore zones have been outlined. The top left face has 2.2 feet of 11.3 ounces of silver. In most places the better ore is only about two feet thick. Thicker ore has been found in the walls at two places; 4.6 feet containing 12.8 ounces of silver and $2.29 in gold, 5.3 feet containing 15.8 ounces of silver and $8.64 in gold. The best assay obtained is from a sample near the face, 2.0 feet of 43.2 ounces of silver, $6.10 in gold, 6.4% lead, and 0.98% zinc. (See attachments A & B - Assay results and sample map of upper contact.)

LOWER CONTACT WORK

The main haulage drift advanced 328 feet in January, for a total advance to date of 474 feet. The drift has crossed several thin porphyry sills, shale, and shale interbedded with limestone pebble conglomerate.

A fault with a three-foot displacement was crossed about 450 feet from the shaft, and 260 feet from the target drill hole, N6. Samples from the four-inch to six-inch gouge zone on opposite walls contain 23.6 and 41.2 ounces of silver. Fine sulphides are visible in the gouge. Surrounding rock is limestone pebble conglomerate. The bottom of the drift is estimated to be about 15 feet above the lower contact at this point. (See attachments C & D - section of diamond drill holes and sample map of lower contact.)

Operator's Narrative Report - January 1968
(continued)

Several fractures with heavy water flows have been encountered. On January 22 the influx of water into the drift increased to 230 gallons per minute, and the length of the rounds was shortened to six feet to cross the fractured zone. On January 26 a larger watercourse was intersected, and the flow increased to 560 gallons per minute. The original pumps were unable to handle this volume of water, and two additional 50 hp pumps were installed. Mining was stopped on January 30 when drill holes tapped yet another watercourse. The drill holes were plugged, and work has begun on construction of a larger sump. Additional pumps and an 8-inch pumpline are being installed to increase the pumping capacity.

H. A. Kelly
Project Engineer

HAK/g

EDWARD L. TULLIS
Consulting Geologist
223 ST. CHARLES STREET
RAPID CITY, SOUTH DAKOTA 57701
PHONE 605/342-3733

February 2, 1968

Double Rainbow Mines, Inc.

FOR PROFESSIONAL SERVICES RENDERED

Office time during January at $75/day.....$9.00

Truck Samples Jan 1968

A.

Date December 27, 1967 Double Rainbow ASSAY REPORT

12-26 SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow CEW G-148	1.82	*NF
CEW G-151	.1	NF

Date December 30, 1967 Double Rainbow ASSAY REPORT

12-29 SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow AEF G-152	*NF	NF

Date January 2, 1968 Double Rainbow ASSAY REPORT

12- SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rbo G - 153 CEW	NF	NF
G - 156	3.17	NF

Date [illegible] 1968 Double Rainbow ASSAY REPORT

1-10 SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow. HAK ~~K-12~~	~~15.0~~	*NF
~~K-13~~	~~3.9~~	NF
CEW G-154 No. 2	.12	NF
G-155 No. 2	3.4	NF
G-159	.08	NF

Date January 15, 1968 Double Rainbow ASSAY REPORT

1-13 SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rbo G - 158 CS	3.6	NF

Date January 13, 1968 Double Rainbow ASSAY REPORT

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow HAK ~~K-16~~	~~4.19~~	*NF
~~K-17~~	~~16.53~~	NF
CS G-157	5.28	NF
CEW G-160	.2	NF

Date January 16, 1968 Double Rainbow ASSAY REPORT

1-15 SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo G - 161 - No. 2 CEW	*NF	*NF

Date January 17, 1968 Double Rainbow ASSAY REPORT

1-16 SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnb G 162 CEW	.2	NF
G 163	2.8	NF

NF = None Found

Date January 18, 1968 Double Rainbow ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
17 Dbl.Rnbow.	~~HAK K-22~~	~~6.17~~	*NF
17	~~K-23~~	~~4.34~~	NF
??	G-164	4.92	NF
16 CEW	G-167	.08	NF

Date January 22, 1968 Double Rainbow ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
19 Dbl.Rnbow. CEW	G-166 #3	3.55	*NF
	G-169 #2	.08	NF
CS	G-171	1.5	NF

Date January 19, 1968 Double Rainbow ASSAY REPORT

1-18	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow HAK	~~K-24~~	.14	*NF
	~~K-25~~	1.65	NF
CS	G-165	2.72	NF
CEW	G-168	.18	NF

Date January 22, 1968 Double Rainbow ASSAY REPORT

	SAMPLE	Silver Oz. PerTon	GOLD Dollars per Ton at $20.67
Dbl.Rnbow. HAK	~~K-30~~	~~3.37~~	*NF
	~~K-31~~	~~7.38~~	NF
CEW	G-170	.17	NF

Date January 24, 1968 Double Rainbow ASSAY REPORT

1-23	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow CS	G-172	1.3	*NF
CES	G-175	.08	NF
	G-176	.11	NF
	G-174	3.1	NF

Date January 26, 1968 Double Rainbow ASSAY REPORT

1-24	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow. CEW	G-173 #3	2.3	*NF
	G-177 #2	.2	NF
		2.26	NF

Date January 30, 1968 Double Rainbow ASSAY REPORT

1-26	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb G 178	CS	.08	NF
G 179		4.61	NF

Date February 1, 1968 Double Rainbow ASSAY REPORT

1-30	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb G 180	CS	3.55	NF
G 181		3.53	NF
G 184		NF	NF

NF = None Found

Date February 2, 1968 Double Rainbow ASSAY REPORT

2-1	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G - 182	CEW	2.01	NF
	G - 185		.06	NF

Date January 30, 1968 Double Rainbow ASSAY REPORT

1-29	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	G 183	CEW	NF	NF

NF = None Found

GO 94

Channel & Chip Samples Jan, 1968

Date January 12, 1968 Double Rainbow ASSAY REPORT

1-11	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
11 Dbl.Rnbow. HAK	K-14 #3 Dft	4.26	*NF
	K-15	3.78	NF
10 AEF	~~G-156~~	~~3.17~~	NF
	K-12	15.0	NF
	*None Found	3.9	NF
	K-13		

Date January 13, 1968 Double Rainbow ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow HAK	K-16 #3 Dft	4.19	*NF
	K-17	16.33	NF

Date January 15, 1968 Double Rainbow ASSAY REPORT

1-13	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rbo	~~G-158 CS~~	~~3.6~~	NF
	K-18 HAK #3 Dft	10.6	NF
	K-19	7.3	.40

Date January 17, 1968 Double Rainbow ASSAY REPORT

1-16	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	K 20 HAK #3 Dft	.7	NF
	K 21	3.3	NF

Date January 18, 1968 Double Rainbow ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
17 Dbl.Rnbow. HAK	K-22 #3 Dft	6.17	*NF
17	K-23	4.34	NF

Date January 19, 1968 Double Rainbow ASSAY REPORT

1-18	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow HAK	K-24 #3 Dft	.14	*NF
	K-25	1.65	NF

Date January 20, 1968 Double Rainbow ASSAY REPORT

1-19	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow HAK	K-26 #3 Dft	.83	*NF
	K-27	1.39	NF

Date January 22, 1968 Double Rainbow ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
19 Dbl.Rnbow. CEW	~~G-166 #3~~	~~3.55~~	*NF
	~~G-169 #2~~	~~.08~~	NF
CS	~~G-171~~	1.5	NF
HAK	K-28 #3 Dft	2.1	NF
	K-29	.25	NF
	*None Found		

		SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow.	HAK	K-30	#3 Dft	3.37	*NF
		K-31		7.38	NF

Date January 26, 1968 Double Rainbow **ASSAY REPORT**

1-24		SAMPLE		Silver ~~Oz.~~ Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow.	CEW	~~G-173 #3~~		~~2.3~~	*NF
		~~G-177 #2~~		~~.2~~	NF
	HAK	K-32	#3 Dft	3.35	NF
		K-33		.9	NF
		K-34		1.79	NF
		K-35		3.94	NF

Date January 30, 1968 Double Rainbow **ASSAY REPORT**

1-29		SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	K 36	HAK	#3 Dft	12.49	NF
	K 37			10.52	NF
	K 38			.82	NF
	K 39			12.07	NF

Date February 1, 1968 Double Rainbow **ASSAY REPORT**

1-31		SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	K 40	HAK	#3 Dft	3.1	NF
	K 41			6.63	NF

NF = None Found

Date January 27, 1968 Double Rainbow **ASSAY REPORT**

1-26	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow.	TS 32 A #4 Dft	11.29	NF
	32 B	1.72	NF
	32 C	.86	NF
	32 D	.33	NF
	ALS 37 A	3.1	NF
	TS 37 B	.29	NF
	38 A	1.66	NF
	38 B	.27	NF
	39 B	.49	NF

Date January 29, 1969 Double Rainbow **ASSAY REPORT**

1-27	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	39 A TS #4 Dft	1.15	2.40
	40 A	3.7	.80
	40 B	1.25	NF
	41 A	9.35	2.00
	41 B	1.2	.80
	42 A	6.3	3.20
	42 B	6.6	.40
	43 A	19.09	2.40
	43 B	4.70	NF
	44 B	1.35	NF

Date January 30, 1968 Double Rainbow **ASSAY REPORT**

1-29	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	44 A TS #4 Dft	16.67	4.00
	45 A	6.26	3.20
	46 A	12.33	3.20
	48 A	3.71	2.00
	49 A	23.64	8.00
	49 B	6.51	1.60
	50 A	5.26	1.20
	50 B	1.13	.40
	51 A	9.95	.80
	52 B	1.74	.40

Date January 31, 1968 Double Rainbow **ASSAY REPORT**

1-30	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	52 A TS #4 Dft	16.41	1.80
	53 A	6.87	.20
	54 A	8.94	NF
	55 A	15.15	.60
	55 B	1.01	NF
	55 C	.77	NF
	56 A	19.12	.40
	56 B	1.01	NF
	57 A	6.70	tr
	57 B	2.62	tr
	57 C	1.06	NF

NF - None Found

Jan 1968

Date January 30, 1968 Double Rainbow Delicate Special **ASSAY REPORT**

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rainbow Delicate Spec.	23.65	.60
Lower Contact drift 4" gouge zone with sulphides near N wall		

Date January 25, 1968 Double Rainbow **ASSAY REPORT**

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow HAK K-Special	41.2	.60
Lower Contact drift 6" fr. zone with gal on South wall		

GO 94

ASSAY FORM 8

G089

REPORT OF ANALYSIS

SAMPLE OF

DOUBLE RAINBOW ORES

Pb, Zn Assays

RECEIVED FROM Jan 1968 ON

Sample No.	% Pb	% Zn
K - 14	0.33	0.56
K - 15	0.20	0.31
K - 16	0.49	0.56
K - 17	0.26	0.54
33 - A	6.40	0.98
34 - A	3.39	1.57
35	0.62	0.56
G - 157	0.21	0.58
(A.A. Spectro. analysis)		

DATE 19 Jan., 1968 ANALYST W.H. Taylor

INSTRUCTIONS FOR USE

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2. Identify Agency of Addressee
3. Write Clearly
4. Send Surplus Envelopes to Supply Room for Reissue

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Standard Form No. 65
November 1961
General Services Administration
FPMR (41 CFR) 101-11.6

U.S. Government Messenger Envelope

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[illegible]	STOP		STOP
C. W. Whetstone 2228 GSA	STOP		STOP
~~Langford 801 Eye Rm 1000~~	STOP		STOP
~~Catherine Curtin BL~~	STOP		STOP
~~Beverly Long 4459 Interior Bldg.~~	STOP		STOP
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Use STOP only when messenger service between Government buildings in Washington, D.C., is required or wherever a STOP system is used. Your mail room has STOP information.

65-107

MME FORM 60
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME 6558
Contract No. 14-23-090-2233
Contract Amount $ 312,180.00
Gov't. Participation % 75 $234,135.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of December 1967

Operator's Name Double Rainbow Mines, Inc.
Address 2251 Virginia Street, Berkeley, California 94709

COST CATEGORIES	FOR OPERATOR'S USE			FOR GOVERNMENT APPROVAL ONLY		
	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Shaft Station @ $2.16	2,160.00	17,280.00	19,440.00			
Shaft Sinking @$245.00	735.00	7,105.00	7,840.00			
Shaft Sinking @$220.00	0	48,620.00	48,620.00			
Upper Contact6x6@ $35.	10,640.00	21,770.00	32,410.00			
Lower Contact9x9@$56.67	6,743.73	1,530.09	8,273.82			
Rock Bolts @ $3.00	0	4,350.00	4,350.00			
Underground AX @ $3.38	1,723.80	11,762.40	13,486.20			
Surface BX @ $6.50	0	10,218.00	10,218.00			
Surface BX @ $6.00	0	2,766.00	2,766.00			
(2) Personal Services:						
Supervision & Technical						
Outside Consultants	31.50	473.25	504.75			
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
Consultant's per diem	0	52.00	52.00			
Consultant's Travel Expense	0	56.28	56.28			
TOTALS	22,034.03	125,983.02	148,017.05			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Jan. 22, 1968 *Payee Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 16,525.52 14X0804

Signature John
(Authorized Certifying Officer)

Date FEB 15 1968 Vou. No. 85168

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2233

Signature J. William Hasler Title Field Officer Date Jan 30 1968

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date Jan. 30 1968

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

FEB 8 1968 FINANCIAL MANAGEMENT

MME FORM 61
SEPT. 1959

HK 2/2/68

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of December 1967 Docket No. OME-6558

Operator's Name Double Rainbow Mines, Inc. Contract No. 14-23-090-2233

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting: Upper Contact 6x6 @ $35.00	Ft.	304	926	32,410.00	304	926	32,410.00
Crosscutting: Lower Contact 9x9 @ $56.67	Ft.	119	146	8,273.82	119	146	8,273.82
Raising: Shaft Station @ $2.16	Cu.Ft	1,000	9,000	19,440.00	1,000	9000	19,440.00
Shafts @ $245.00	Ft.	3	32	7,840.00	3	32	7,840.00
Winzes: Shafts @ $220.00	Ft.	0	221	48,620.00	0	221	48,620.00
Other Underground: Rock Bolts @ $3.00	Each	0	1,450	4,350.00	0	1450	4,350.00
Drilling, Core-Diamond: Underground AX @ $3.38	Ft.	510	3,990	13,486.20	510	3,990	13,486.20
Rotary: Surface BX @ $6.50	Ft.	0	1,572	10,218.00	0	1572	10,218.00
Drilling, Non-core-Diamond: Surface BX @ $6.00	Ft.	0	461	2,766.00	0	461	2,766.00
Rotary							
Churn							
Percussion							
Miscellaneous							
Outside Consultant	Day	½	6½	613.03	½	6½	613.03
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE (per MME Form 60)				148,017.05			148,017.05

REMARKS

(Continue on back)

REMARKS

(Continue on back)

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Jan 22 1968 Operator Double Rainbow Mines, Inc.

Per Edward P. Tullis Title Agent

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office Government Representative

Date January 30 1968

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

INT.DUP.,D.C.59- 27162

OPERATOR'S NARRATIVE REPORT - DECEMBER 1967

OME - 6558 (SILVER)
DOUBLE RAINBOW MINES, INC.
DOUBLE RAINBOW MINE
LAWRENCE COUNTY, SOUTH DAKOTA
CONTRACT NO. 2233

UNDERGROUND DIAMOND DRILLING

Drilling from the underground workings of the Richmond-Sitting Bull Mine has been completed. Hole number 9U advanced 334 feet in December, to a total depth of 510 feet. This hole penetrated Precambrian rock as intended. No ore was evident in the core, and the best sample contained 0.14 ounces of silver.

SAMPLING AND GEOLOGY

Several truck samples of two to four ounces of silver were obtained from slusher drift No. 4 in December, and several mineralized zones were noted, with some galena apparent. Channel sampling has been started at the face. The walls will be sampled wherever the mineralization appears to be significant. Some of the first assay results are shown on the upper contact map (D), the best being 2.0 feet of 43.2 ounces of silver. Mapping of fractures and mineralization is underway in No. 4 drift.

The best sample obtained from slusher drift No. 2 in December was 0.6 ounces of silver. A down-fold in the beds, with local dips as high as 45 degrees, necessitated turning the drift 25 degrees to the southwest in order to stay in the proper horizon.

UPPER CONTACT WORK

Slusher drift advance during December was 304 feet, for a total advance to date of 926 feet.

Slusher drift No. 4 advanced 143 feet to reach the contracted distance of 450 feet. The drift was driven 2½ feet beyond the contracted distance, at the operator's expense, to insure that sufficient footage had been obtained.

Slusher drift No. 2 progressed 161 feet in December, for an advance to date of 176 feet.

LOWER CONTRACT WORK

A 24-inch ventilation line was installed in the shaft, and work was finished on a sump and pump installation on the shaft station. Three feet of shaft sinking and 1,000 cubic feet of shaft station are being billed with this report to complete the billing for these two items.

The main haulage drift advanced 119 feet during December, for a total advance to date of 146 feet, as shown on the accompanying map (E).

H. A. Kelly
Project Engineer

HAK/g
Orig. & 4 copies - OME

Copy to Mr. Christensen
1-4-67

EDWARD L. TULLIS
Consulting Geologist
223 ST. CHARLES STREET
RAPID CITY, SOUTH DAKOTA 57701
PHONE 605/342-3733

January 2, 1968

Double Rainbow Mines, Inc.

FOR PROFESSIONAL SERVICES RENDERED

Office time during December at $75/day.....$31.50

approved for payment
1-4-68 DJD

(OME-6558 (Silver))
(Contract No. 2233)

A.

DOUBLE RAINBOW PROJECT

Diamond Drill Log

Hole No. 9U (8593B). Completed December 13, 1967. Log by J. M. W.

Location: S. 992.34, W. 281.45. Drilled from Richmond Level.

Collar elevation 4925.67. Vertical angle -90°.

Cored 1.5'-510' Recovery 479.5/508.5 or 94.3%

Depth	Lithology
0-1.5	Cased
1.5- 10	Brown argillaceous sandstone with abundant iron oxide and manganese at 2'.
10- 23	Brown quartzite with beds of argillaceous calcareous sandstone. Minor manganese throughout.
23- 40	Gray brown quartzite with fine grained pyrite. Minor amounts of manganese.
40- 42	Gray green porphyry. Very badly altered with kaolin alteration.
42- 53	Gray to gray green glauconitic sandstone with strong vertical fractures from 48-50. Fractures filled with iron oxide and manganese.
53- 62	Gray brown calcareous sandstone with some argillaceous material. Moderate iron oxide.
62- 89	Brown argillaceous sandy limestone with moderate iron oxide. Calcite filled fractures from 66-67 and thin green shale partings near base.
89-106	Gray to reddish gray argillaceous limestone with flat limestone pebble conglomerate. Calcite and manganese filled fractures from 91-92 and manganese at 106.
106-110	Fine grained greenish buff feldspar porphyry. Abundant kaolin.
110-131	Gray to gray brown to brown limestone with abundant gray shale partings. Scattered glauconite.
131-139	Brown porphyry with 20% white feldspar phenocrysts 0.1"-0.2". Badly altered and manganese at 139.
139-187	Gray to gray brown limestone with abundant gray shale partings. Scattered glauconite.
187-203	Gray thin bedded shale with moderate thin limestone beds. Scattered flat limestone pebble conglomerate and scattered limestone pebbles. Some pebbles stained pink to red on edges.
203-207	Light gray to gray white feldspar porphyry. 30% feldspar phenocrysts. Fine grained pyrite mineralization. Abundant kaolin.
207-224	Gray thin bedded shale with scattered limestone pebbles and limestone beds.
224-256	Gray white feldspar porphyry. 40% feldspar phenocrysts 0.7"-0.3". Gray white matrix and moderate pyrite mineralization. Some phenocrysts up to 0.5".

Hole No. 9U (8593B) (continued)

Depth	Lithology
256-286	Gray thin bedded shale with moderate limestone beds, flat limestone pebble conglomerate and scattered limestone pebbles.
286-290	Gray to green limestone with abundant glauconite. Red lined fossils. (?)
290-316	Gray thin banded shale with local beds of abundant glauconite.
316-322	Gray fine grained phonolite with scattered phenocrysts.
322-327	Gray thin bedded shale.
327-340	Gray to gray white feldspar porphyry. 40% feldspar phenocrysts 0.2"-0.3". Gray matrix. Scattered fine grained pyrite.
340-342	Gray shale with beds of limestone.
342-345	Gray white feldspar porphyry.
345-346	Gray bedded limestone.
346-349	Gray white feldspar porphyry.
349-353	Gray limestone with thin gray shale partings.
353-367	Gray to gray green phonolite. 20% dark ferromagnesian phenocrysts. Gray matrix.
367-369	Gray limestone with flat limestone pebbles.
369-373	Gray to gray green phonolite.
373-377	Gray massive limestone with flat limestone pebbles.
377-380	Gray white feldspar porphyry.
380-395	Gray limestone with beds of gray shale and gray shale partings. Limestone at base.
395-402	Gray to light gray dolomite. Scattered beds of glauconite. Some pinkish gray color.
402-409	Gray green phonolite.
409-412	Gray massive dolomite with scattered pyrite mineralization.
412-434	Gray massive quartzite with scattered to moderate pyrite mineralization. 426 slickenside.
434-447	Dark gray dolomitic sandstone with scattered glauconite.
447-481	Gray white clean coarse to fine grained pyrite mineralization. Quartz pebble conglomerates from 460-461, 466-467, 469-470, and 477-479. Pyrite mineralization from 469-470.
481-486	Red well oxidized sandstone with abundant mica from Precambrian.
486-510	Red to gray muscovite schist. Oxidized near top. Thin banded with scattered quartz stringers.

Date December 21, 1967 Diamond Drill Sludge ASSAY REPORT
Double Rainbow Project

SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo D D 8593 B	1.5 - 5 JM	.12	NF
Split Core	5 - 10	.12	NF
	10 - 15	NF	NF
	15 - 20	.2	NF
	395 ~~295~~ - 400	NF	NF
	400 - 402	NF	NF
	409 - 415	.14	NF
	415 - 420	NF	NF
	434 - 439	NF	NF
	439 - 444	NF	NF
	444 - 447	NF	NF
	460 - 466	NF	NF
	466 - 472	NF	NF

NF = None Found

Date December 19, 1967 Diamond Drill Sludge ASSAY REPORT
Double Rainbow Project

SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
D D Hole 8593	2 - 5 JMW	.2	NF
Sludge	5 - 10	.2	NF
	10 - 15	.24	NF
	15 - 20	.2	NF
B	370 - 375	trace	NF
	375 - 380	trace	NF
	380 - 385	trace	NF
	385 - 390	trace	NF
	390 - 395	.08	NF
	395 - 400	.08	NF
	408 - 410	.06	NF
	410 - 415	trace	NF
	415 - 420	.1	NF
	420 - 425	.1	NF

NF = None Found

B.

Date December 7, 1967 Double Rainbow ASSAY REPORT

12-6	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	# 23 AIS	1.3	NF
	# 24	.6	NF
	# 25	.25	NF
	# 26	.35	NF

Date December 15, 1967 Double Rainbow ASSAY REPORT

12-14	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	# 29 AIS	1.52	NF
	# 30	5.30	2.20

Date December 13, 1967 Double Rainbow ASSAY REPORT

12-12	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rn	27 - A AIS	.5	NF
	27 - B	3.52	.40
	27 - C	.14	NF
	28 - A	.1	NF
	28 - B	.1	NF
	28 - C	NF	.20

Date December 20, 1967 Double RainBow ASSAY REPORT

12-19	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rn	31 A AIS	7.09	NF
	31 B	10.02	NF
	31 C	2.15	NF

REPORT OF ANALYSIS

SAMPLE OF

DOUBLE RAINBOW ORES

RECEIVED FROM A. L. Slaughter ON

Sample No.	% Zn	% Pb
30	0.58	0.39
31 A	0.57	1.09
31 B	1.22	0.76

Date January 4, 1968 Double Rainbow ASSAY REPORT

1-3	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	33 A AIS	43.15	3.60
	33 B	1.55	1.00
	34 A	6.1	2.60
	34 B	2.1	.20

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	# 35 AIS	10.88	3.50

Date December 2, 1967 Double Rainbow ASSAY REPORT

11-30	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow	CEW ✓G-117	1.05	*NF

Date December 1, 1967 Double Rainbow ASSAY REPORT

11-30 Dec.	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow	AEF ✓G-119	.1	*NF

Date December 4, 1967 Double Rainbow ASSAY REPORT

12-	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	✓G - 118 CEW	.5	NF
	✓G - 120 AEF	NF	NF

Date December 5, 1967 Double Rainbow ASSAY REPORT

12-	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	✓G 121 CEW	NF	NF
	✓G 123 CS	.6	NF

Date December 6, 1967 Double Rainbow ASSAY REPORT

12-	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rbo	✓G - 122 CEW	NF	NF
	✓G - 124	.5	NF

Date December 8, 1967 Double Rainbow ASSAY REPORT

12-7	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	✓G - 125 CS	.58	*NF
	✓G - 128 CEW	.06	NF

Date December 9, 1967 Double Rainbow ASSAY REPORT

12-7	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rn	✓G - 126	.24	NF
	✓G - 129	.08	NF

Date December 7, 1967 Double Rainbow ASSAY REPORT

12-6	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	#23 AIS	1.3	NF
	#24	.6	NF
	#25	.25	NF
	#26	.35	NF
	✓#127 CEW	.1	NF

Date December 11, 1967 Double Rainbow ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rbo	✓G - 130 CEW	.13	NF
	✓G - 131 CS	.65	NF

NF = None Found

Date December 13, 1967 Double Rainbow **ASSAY REPORT**

12-11	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rn	G - 132 No. 4 CEW	2.05	NF
	G - 135	.16	NF

Date December 15, 1967 Double Rainbow **ASSAY REPORT**

12-14	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Ranbo	G - 134 CEW	1.44	1.20

Date December 14, 1967 Double Rainbow **ASSAY REPORT**

12-12	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Ranbo	G - 133 CEW	2.45	NF
	G - 136	NF	NF

Date January 6, 1968 Double Rainbow **ASSAY REPORT**

1-5	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	136 A DRS	2.15	2.50
	136 B	.9	NF

Date December 16, 1967 Double Rainbow **ASSAY REPORT**

12-14	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rbn	G - 137 CEW	.1	NF

Date December 18, 1967 Double Rainbow **ASSAY REPORT**

12-	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Db Rn	G - 138 CEW	.1	NF
	G - 139 CS	3.2	NF

Date December 21, 1967 Double Rainbow **ASSAY REPORT**

12-	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rb	G 141 CEW	4.35	NF

Date December 19, 1967 Double Rainbow **ASSAY REPORT**

12-	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rn	G - 140 CEW	2.2	NF
	G - 143 CS	.08	NF

Date December 23, 1967 Double Rainbow **ASSAY REPORT**

12-21	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G - 142 CEW	1.98	.40

Date December 20, 1967 Double Rainbow **ASSAY REPORT**

12-19	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rn	G - 144 CS	.16	NF

NF = None Found

Date Dec. 22, 1967. Double Rainbow Project ASSAY REPORT

SAMPLE			SILVER Oz per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbo.	G 145	CS	NF	NF

Date December 26, 1967 Double Rainbow ASSAY REPORT

12-	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
22 Dbl. Rnbow	GEW	G-146	.06	*NF
23	CS	G-147	1.27	NF

Date December 27, 1967 Double Rainbow ASSAY REPORT

12-26	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow	CEW	G-148	1.82	*NF
	CEW	G-151	.1	NF

Date December 29, 1967 Double Rainbow ASSAY REPORT

12-28	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow	CEW	G-149	1.9	NF

Standard Form No. 65
November 1961
General Services Administration
FPMR (41 CFR) 101-11.6

U.S. Government Messenger Envelope

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Mr. Burwell MRS	STOP		STOP
Mr. Kirkland	STOP		STOP
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Use STOP only when messenger service between Government buildings in Washington, D.C., is required or wherever a STOP system is used. Your mail room has STOP information.

65-107

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MME FORM 76
REV. 2-59

REFERENCE SLIP

OFFICE OF MINERALS EXPLORATION

TO:	DATE	INITIALS
1.		
2.		
3.		
4.		
5.		
FROM:		

FOR: Check items for action desired

____ Action	____ Reply for signature of ____	
____ Approval	____ Investigate	Surname
____ Comment	____ Recommendation	____ Signature
____ Conference	____ Rewrite	____ File
____ Instructions	____ Your information	

REMARKS;

OFFICIAL COPY
M. E.
RECEIVED
JAN 17 1968

INITIALS	CODE
Jo	130
BSL	120
[illegible]	110
HK	130

110

INT.-DUP. SEC., WASH., D.C.

M56300-62

OME Surname copy

1/2[illegible]8 HR 120

110

220

120M

HOMESTAKE MINING COMPANY

LEAD, SOUTH DAKOTA 57754

[illegible]

U. S. Department of the Interior
Geological Survey
Chief Office of Mineral Exploration
Washington, D. C. [illegible]

Gentlemen

According to our records, as of December [illegible], reimbursement costs due us from the Office of Mineral Exploration under contract OME [illegible] are [illegible]

	Our Records	OME Presentation
November	$[illegible]	$[illegible]
December	[illegible]	[illegible]
		$[illegible]
Drilling costs disallowed pending completion of hole 7u		[illegible]
		$[illegible]

If the above agrees with your records, please sign in the space below. If it does not agree, please indicate any exception. In either case please return the form directly to our auditors, Haskins & Sells, 44 Montgomery Street, San Francisco, California 94104.

Sincerely,

H. V. Christiansen

January 25, 1968

The above is correct except as noted below.

FRANK E. JOHNSON

Frank E. Johnson, [illegible]
Office of Minerals Exploration

November data are in agreement with our records. No data received as yet for December 1967 costs.

Hole 7u was completed in September. No amount disallowed for drilling costs as of November 30, 1967

cc: OME docket
OME Region III

MME FORM 60
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OME-6558

OPERATOR'S MONTHLY VOUCHER

For Month of November 1967

Rocky Mtn. Region
Contract No. 14-23-090-2233
Contract Amount $312,180.00
Gov't. Participation %75 $234,135.00
Mineral(s) Silver

Operator's Name Double Rainbow Mines, Inc.
Address 2251 Virginia St., Berkeley, California 94709

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and (1) Independent Contracts:						
Shaft station @ $2.16	4,320.00	12,960.00	17,280.00			
Shaft sinking @ $245.00	7,105.00	0	7,105.00			
Shaft sinking @ 220.00	3,520.00	45,100.00	48,620.00			
Bulldozing						
Upper Contact 6x6@$35.00	10,885.00	10,885.00	21,770.00			
Drilling						
Lower Contact 8x10@56.67	1,530.09	0	1,530.09			
Crosscutting						
Rock Bolts @ $3.00	0	4,350.00	4,350.00			
Drifting						
Underground AX @ $3.38	4,441.32	7,321.08	11,762.40		6188.78	
Surface BX @ $6.50	0	10,218.00	10,218.00			
Surface BX @ $6.00	0	2,766.00	2,766.00			
(2) Personal Services:						
Supervision & Technical						
Outside Consultants	128.25	345.00	473.25			
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
Consultant's Per Diem	20.00	32.00	52.00			
Consultant's Travel Expense	10.80	45.48	56.28			
TOTALS	31,960.46	94,022.56	125,983.02		92,890.26	124,850.72

I certify that the above bill is correct and just and that payment therefor has not been received.

Date December 18, 1967* Payee Double Rainbow Mines, Inc.

Per Edward R. Tullis Title Agent

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 23,970.34 14X0804

Signature [illegible] (Authorized Certifying Officer)

Date JAN 8 1968 Vou. No. 04416

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2233

Signature J. William Hasler Title Field Officer Date 12/19/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 12/19/67

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

HR 12/27/67

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of November 1967 Docket No. OME-6558

Operator's Name Double Rainbow Mines, Inc. Contract No. 14-23-090-2233

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting: Upper Contact 6x6 @ $35.00	Ft.	311	622	21,770.00	311	622	21,770.00
Crosscutting: Lower Contact 8x10 @ $56.67	Ft.	27	27	1,530.09	27	27	1,530.09
Raising: Shaft Station @ $2.16	Cu.Ft.	2,000	8,000	17,280.00	2000	8000	17,280.00
Shafts @ $245.00	Ft.	29	29	7,105.00	29	29	7,105.00
Winzes: Shaft @ $220.00	Ft.	16	221	48,620.00	16	16	48,620.00
Other Underground: Rock Bolts @ $3.00	Each	0	1,450	4,350.00	0	1,450	4,350.00
Drilling, Core-Diamond: Underground AX @ $3.38	Ft.	1,314	3,480	11,762.40	1314	3480	11,762.40
Rotary: Surface BX @ $6.50	Ft.	0	1,572	10,218.00	0	1572	10,218.00
Drilling, Non-core-Diamond: Surface BX @ $6.00	Ft.	0	461	2,766.00	0	461	2,766.00
Rotary							
Churn							
Percussion							
Miscellaneous							
Outside Consultant	Day	1-5/8	6	581.53	1 5/8	6	581.53
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE (per MME Form 60)				125,983.02			125,983.02

REMARKS

The amount of $5.05 has been deleted from the outside consultant item, as suggested in the letter of November 22 from Mr. Frank E. Johnson. The $5.05 was the South Dakota State service tax on the consultant's salary, and will be absorbed outside of the contract.

(Continue on back)

REMARKS

(Continue on back)

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date December 18, 1967 Operator Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Officer
Government Representative

Date December 19, 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

INT.DUP.,D.C.59- 27162

OPERATOR'S NARRATIVE REPORT - NOVEMBER 1967

OME - 6558 (SILVER)
DOUBLE RAINBOW MINES, INC.
DOUBLE RAINBOW MINE
LAWRENCE COUNTY, SOUTH DAKOTA
CONTRACT NO. 2233

UNDERGROUND DIAMOND DRILLING

Total drilling for November was 1,087 feet. Hole 5U was finished, holes 6U and 8U were completely drilled and hole 9U was started to a depth of 176 feet. Footage drilled in hole 9U will be billed in December on completion of the hole.

The November drilling is tabulated as follows:

Hole 5U -	77 feet	(403 feet drilled in October)
Hole 6U -	429 feet	complete
Hole 8U -	405 feet	complete
Hole 9U -	176 feet	(to be finished in December)
Total	1,087 feet	

A total of 3,480 feet of underground diamond drill footage has been billed to date. This is five feet more than the 3,475 feet planned for underground drilling. Unused footage from the surface diamond drilling resulted in a surplus of $3,848.50 in surface drilling funds. A portion of these surplus funds will be used for the additional footage required to complete the underground drilling, as provided in the description of work in the OME contract.

Descriptive logs and assay results for drill holes 6U and 8U are attached to this report. Information from hole 5U was included with the October report.

No gold or silver values were obtained from 6U. A small amount of galena and sphalerite was noted in 8U core but the best silver assay obtained was .18 oz.

The lower contact ore horizon is above the porphyry sill in holes 6U and 8U, but is below the porphyry in holes 3U, 5U and 7U as previously reported. The contact is displaced about 30 feet by thin porphyry sills in 8U.

SAMPLING

No significant truck samples were obtained in No. 1 slusher drift, which is now complete. A small mineralized area in a vertical in the north end assayed 12.6 ozs. silver and $12.87 in gold.

Several mineralized verticals were noted in the walls of No. 4 slusher drift but have not yet been sampled. Truck samples reflect this mineralization with a high assay of 5.8 ozs. and several others in the 2 to 4 oz. range.

GEOLOGY

Geologic mapping of the Richmond-Sitting Bull is continuing. This is being carried out through the following phases: (1) remapping of the mine wall outlines to acquire an accurate base map; (2) detail mapping of the extensive fracture pattern traversing the mine area; (3) marking the contact of the "upper contact" dolomite and the underlying quartzite and surveying for elevation for structural contouring of this surface.

The progress of fracture mapping is shown on the accompanying geologic map.(H) The dolomite - quartzite contact is marked and surveyed from survey station 15 to the south end of the mine and in No. 1 slusher drift. Ore zones are thought to be aligned to particular fracture systems. Very preliminary structural contouring suggests that ore might also be related to structural terraces.

Additional geologic work that is being planned includes mapping in plan the distribution of mineralizing effects in the dolomite such as alteration, solutional cavitation and mineralization, and the distribution of manganese which appears to develop halos relative to certain systems of fractures.

SHAFT SINKING & STATION

Shaft sinking was finished on November 5 at a depth of 253 feet. Shaft timber, guides, and ladders were installed to this depth. A small spill pocket was constructed between 228 and 236 feet. Water flow into the shaft reached 57 gallons per minute as sinking was terminated. The influx of water reached 50 gallons per minute at the 221-foot depth, as noted in the Operator's Narrative Report for September. The cost of shaft sinking is being billed at $220.00 per foot to 221 feet, and at $245.00 per foot below 221 feet, which includes the $25.00 per foot water allowance. Three feet of the shaft remain to be billed when the ventilation pipe has been installed. The ventilation pipe has been prepared, and will be placed in the shaft as soon as drift mining has progressed sufficiently away from the shaft station.

The excavation of the slusher trench and construction of the skip loaders were finished during November. Part of the billing for the shaft station is being withheld pending completion of a sump on the station level.

The main haulage drift to the lower contact advanced 27 feet during November.

UPPER CONTACT WORK

Slusher drift advance in November was 311 feet, for a total advance to date of 622 feet.

Slusher drift No. 1 progressed 115 feet in November, and was stopped upon reaching the scheduled length of 300 feet. Attempts to connect the north end of slusher drift No. 1 to the old McClellan tunnel were unsuccessful. The drift passed 30 feet beyond the projected connection point, and probe holes were drilled in all directions without locating the old tunnel.

Operator's Narrative Report - November 1967
(continued)

Slusher drift No. 4 advanced 196 feet during November for a total advance to date of 306 feet.

A loading ramp was constructed at drift No. 2, and a slusher was installed. Drifts Nos. 2 and 4 will be driven simultaneously during December.

Drift progress, sample locations, and assay results are indicated on the accompanying map (G).

H. A. Kelly
Project Engineer

HAK/g

Orig. & 4 copies - OME

EDWARD L. TULLIS
Consulting Geologist
223 ST. CHARLES STREET
RAPID CITY, SOUTH DAKOTA 57701
PHONE 605/342-3733

December 8, 1967

Double Rainbow Mines, Inc.

FOR PROFESSIONAL SERVICES RENDERED

November 7, 1967	1/2 day Lead	$37.50
November 7, 1967	Perdiem, 1/4 day @ $16/day	4.00
November 7, 1967	Mileage, 90 miles @ 12¢/mile	10.80
	Office time during November - 1 3/4 hrs.	15.75
November 28,1967	1 day Lead-Galena	75.00
	Perdiem, 1 day @ $16	16.00
	TOTAL....	$159.05

Approved for Payment
12-9-67
DJD

(OME-6558 (Silver))
(Contract No. 2233)

A.

DOUBLE RAINBOW PROJECT

Diamond Drill Log

Hole No. 6U (8566B). Completed November 13, 1967. Log by J. M. W.

Location: S. 561.97, W. 69.35. Drilled from Richmond Level.

Collar elevation: 4916.99'. Vertical angle -90°.

Cored 1.5'-429' Recovery 417.5/427.5 or 97.6%

Depth	Lithology
0-1.5	Cased.
1.5- 28	Gray brown to gray green glauconitic sandstone with local beds of glauconitic dolomitic sandstone. Moderate iron oxide, abundant pyrite and manganese at 16'.
28- 40	Dark brown sandstone with abundant iron oxide and manganese.
40- 65	Light brown to blue gray sandstone with scattered beds of calcareous sandstone and thin beds of dolomite. Scattered iron oxide and fine grained pyrite.
65- 91	Brown to gray brown sandy argillaceous limestone. Scattered beds of glauconite, moderate iron oxide, and manganese at 73'.
91-126	Gray to blue gray glauconitic limestone with moderate shale partings. Scattered beds of glauconitic dolomitic limestone.
126-135	Gray white feldspar porphyry with 15% feldspar phenocrysts 0.1 to 0.2". Scattered ferromagnesian phenocrysts.
135-176	Gray to blue gray glauconitic limestone with moderate shale partings and scattered beds of glauconitic dolomitic limestone.
176-203	Gray thin bedded shale with moderate 1' beds of light gray limestone. Scattered limestone pebbles and flat limestone pebble conglomerate. Some pebbles stained pink to red on edges.
203-213	Gray thin bedded shale.
213-224	Gray thin bedded shale with scattered flat white limestone pebbles.
224-235	White to gray white feldspar porphyry. 30% feldspar phenocrysts 0.2-0.3" with some up to 1.0". Kaolin alteration.
235-245	Gray thin bedded shale with scattered flat white limestone pebbles and gray thin beds of limestone.
245-250	Coarse grained gray to reddish gray limestone with red line fossils. (?)
250-253	Thin bedded shale.
253-291	Gray to pinkish gray feldspar porphyry. 25% pinkish gray feldspar phenocrysts 0.2 to 0.3". Gray matrix.
291-318	Dark gray very thin bedded shale with gray spotty limestone from 295-297.
318-328	Gray white to white limestone with abundant white flat limestone pebbles and abundant gray shale partings.
328-330	Gray to gray green phonolite. 20% phenocrysts with gray matrix.

Hole No. 6U (8566B) (continued)

Depth	Lithology
330-336	Gray white to white limestone with abundant white flat limestone pebbles and gray shale partings.
336-338	Gray thin bed shale with pyrite filled fractures.
338-354	Light gray coarse grained limestone with scattered pyrite mineralization and pyrite filled fractures. Last 2' reacts as dolomite but may be due to porphyry.
354-360	Gray white feldspar porphyry. Abundant kaolin alteration and scattered pyrite mineralization.
360-361.5	Gray limestone.
361.5-362.5	Blue gray phonolite. 15% phenocrysts with a gray matrix.
362.5-364	Gray coarse grained dolomite.
364-366	Gray quartzite with some calcareous cement.
366-370	Gray white feldspar porphyry with very scattered pyrite. Minor kaolin alteration.
370-371	Gray massive quartzite.
371-381	Gray green phonolite. 15% phenocrysts and gray matrix. Pyrite mineralization from 376-377.
381-397	Gray to gray white feldspar porphyry. Scattered phenocrysts with fine grained matrix.
397-416	Gray green phonolite with abundant ferromagnesian phenocrysts and scattered feldspar phenocrysts. Gray groundmass. Last 3' kaolin alteration and pyrite mineralization.
416-429	Gray massive quartzite with thin badly fractured zones. Scattered pyrite.

Date November 16, 1967 Double Rainbow

D.D.Hole8566B - Sludge

6u SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
D D Hole 8566 B Sludge 1 - 5	.74	*NF
5 - 10	.1	NF
10 - 15	.12	NF
15 - 20	.2	NF

Date November 16, 1967 Double Rainbow

ASSAY REPORT

6u SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow D D HOle 8566B 1.5-5	tr	*NF
JMW 5-10	tr	NF
Split core 10-15	tr	NF
15-20	.16	NF
20-25	.1	NF
25-30	.12	NF

Date November 18, 1967 Double Rainbow

D.D.Hole 8566B

ASSAY REPORT

6u SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow D D Hole 8566B 339 - 344	*NF	NF
JMW 344 - 349	NF	NF
Split core 349 - 354	NF	NF
359 - 362	NF	NF
362 - 366	NF	NF
366 - 371	NF	NF
416 - 419	NF	NF
419 - 429	NF	NF

*None Found

(OME-6558 (Silver))
(Contract No. 2233)

B.

DOUBLE RAINBOW PROJECT

Diamond Drill Log

Hole No. 8U (8580B). Completed November 24, 1967. Log by J. M. W.

Location: S. 788.74, W. 58.92. Drilled from Richmond Level.

Collar elevation 4902.21'. Vertical angle -90°.

Cored 1.5-405' Recovery 394.5/403.5 or 97.7%

Depth	Lithology
0-1.5	Cased.
1.5- 5	Gray green glauconitic dolomitic sandstone with manganese mineralization.
5- 14	Brown limonitic sandstone. Very vuggy.
14- 20	Brown to gray glauconitic dolomitic sandstone with abundant pyrite from 14-15.
20- 30	Dark brown calcareous sandstone with abundant iron oxide. Some argillaceous calcareous sandstone beds.
30- 46	Gray green glauconitic dolomitic sandstone with scattered fine grained pyrite.
46- 85	Gray to brown to brownish green argillaceous sandy limestone. Scattered glauconite.
85- 92	Gray brown limestone with abundant flat gray limestone pebbles.
92-102	Gray calcareous dolomitic with moderate flat gray white limestone pebbles. Scattered glauconite.
102-103	White fine grained porphyry with abundant kaolin alteration.
102-130	Gray dolomitic limestone with moderate gray shale partings. Scattered to moderate flat gray white limestone pebbles. Scattered glauconite.
130-141	Gray white feldspar porphyry. 15% white feldspar phenocrysts altered to kaolin. Gray fine grained matrix.
141-180	Light gray limestone with moderate thin gray shale partings. Scattered flat gray white limestone pebbles.
180-223	Dark gray thin bedded shale with scattered flat gray white limestone pebbles. Thin beds of limestone with limestone pebble conglomerate. Some pebbles stained pink to red on edges.
223-231	Gray white feldspar porphyry. 30% white feldspar phenocrysts 0.1-0.2". Gray white matrix.
231-241	Dark gray thin bedded shale with scattered flat gray white limestone pebbles. Thin beds of limestone.
241-250	Gray to gray green limestone with red line fossils.
250-282	Dark gray thin bedded shale with scattered limestone pebbles near top. Abundant glauconite 273-275'.
282-288	Gray green phonolite. Ferromagnesian phenocryst 20%, feldspar 20%. Scattered large feldspar phenocrysts. Gray green fine grained matrix.
288-295	Gray thin bedded shale.

Hole No. 8U (8580B) (continued)

Depth	Lithology
295-299	Gray green phonolite. Ferromagnesian and feldspar phenocrysts each 20%.
299-305	Gray thin bedded shale.
305-309	Gray green phonolite.
309-310	Gray limestone with gray shale partings.
310-311	Gray green phonolite.
311-318	Gray limestone with scattered gray white limestone pebbles and gray shale partings.
318-328	Gray to gray green phonolite. Last 2' limestone breccia and phonolite.
328-336	Gray limestone with moderate flat gray white limestone pebbles and gray shale partings.
336-342	Gray green phonolite.
342-347	Gray limestone with moderate flat gray white limestone pebbles with scattered gray shale parts.
347-349	Gray thin bedded shale.
349-351	Gray to light gray green phonolite.
351-365	Gray to light gray limestone with scattered flat limestone pebbles. Calcite filled fracture from 361-363.
365-375	Light gray dolomite. Dark gray very thin beds at base. Very scattered pyrite.
375-404	Gray massive quartzite. Moderate pyrite mineralization and pyrite filled fractures at 376 and 402. Galena mineralization at 376 and sphalerite at 401.
404-405	Gray feldspar porphyry with abundant large feldspar phenocrysts. Kaolin alteration.

Date November 27, 1967 Double Rainbow DD Hole 8580B **ASSAY REPORT**

SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
D D Hole 8580 B Sludge	2 - 5	.1	*NF
8u	5 - 10	Tr	NF
	10 - 15	Tr	NF
	15 - 20	.08	NF

Date November 27, 1967 Double Rainbow D D Hole 8580 **ASSAY REPORT**

(8u) SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
D D Hole 8580 Sludge	350 - 355	NF	*NF
8u	355 - 360	NF	NF
	360 - 365	NF	NF
	365 - 370	NF	NF
	370 - 375	.08	NF
	375 - 380	Tr	NF
	380 - 385	.24	NF
	385 - 390	.26	NF
	390 - 395	.08	NF
	395 - 400	.2	NF
	400 - 405	.44	NF

Date November 28, 1967 Double Rainbow D D Hole 8580B **ASSAY REPORT**

SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow D D Hole 8580B	1.5-5	*NF	NF
JNW Split core	5-10	NF	NF
8u	10-15	NF	NF
	15-20	NF	NF

Date November 29, 1967 Double Rainbow Project D D Hole 8580B **ASSAY REPORT**

SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow 8580B	365 - 370	*NF	NF
JMW Split core	370 - 375	NF	NF
8u	375 - 380	.1	NF
	380 - 385	.18	NF
	385 - 390	NF	NF
	390 - 395	NF	NF
	395 - 400	.16	NF
	400 - 405	NF	NF

*None Found

C.

Truck Samples

Date November 3, 1967 Double Rainbow ASSAY REPORT

11-2	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow	OMH	17A	.6	*NF
		17B	12.6	7.60
	CS	G-74	1.95	NF
	CEW	G-80	.45	NF

Date November 1, 1967 Double Rainbow ASSAY REPORT

10-30	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow	✓CS	G-73	.8	*NF
31	CEW	✓G-79	.3	NF

Date November 6, 1967 Double Rainbow ASSAY REPORT

11-3	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb	✓G 82		.45	NF
	✓G 84		.85	NF

Date November 4, 1967 Double Rainbow OMH J.M.W. D.P.S. ASSAY REPORT

	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow	CEW	✓G-81	.6	*NF
	CS	✓G-83	1.3	NF

Date November 7, 1967 Double Rainbow ASSAY REPORT

11-6	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Db Rnbo	✓G - 85	CS	.65	NF
	✓G - 87		.7	NF

Date November 8, 1967 Double Rainbow ASSAY REPORT

	SAMPLE		Silver Oz. PerTon	GOLD Dollars per Ton at $20.67
Dbl. Rnbow	?? ✓G-86		.5	NF
	CEW ✓G-88		.5	NF

Date November 9, 1967 Double Rainbow ASSAY REPORT

11-8	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	✓G 89	CEW	.4	NF
	✓G 91		1.15	NF

Date November 10, 1967 Double Rainbow ASSAY REPORT

11-9	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	✓G - 90	CEW	.2	NF
	✓G - 92		1.0	NF

NF = None Found

Date November 11, 1967 Double Rainbow ASSAY REPORT

11-10	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G 93 CS	1.0	*NF
	G 95 N CEW	.4	NF
	G 96	.5	NF

Date November 14, 1967 Double Rainbow OMH JMW DPJ ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow CS	G-94	.85	*NF
	G-97	.15	NF

Date November 15, 1967 Double Rainbow ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow. CEW	G-98 N	.6	*NF
	G-99 S	.4	NF
CS	G-103	1.0	NF

Date November 16, 1967 Double Rainbow ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow CEW	G-100	.3	*NF
CS	G-104	1.8	NF

Date November 17, 1967 Double Rainbow ASSAY REPOR

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow CEW	G-101	.1	*NF

Date November 18, 1967 Double Rainbow ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow CEW	G-105	2.3	NF

Date November 20, 1967 Double Rainbow ASSAY REPORT

11-17	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G - 106 CEW	5.85	NF
	G - 107 CS	3.8	NF

Date November 21, 1967 Double Rainbow ASSAY REPORT

11-	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G - 108 CEW	2.53	NF
	G - 109 CS	1.86	NF

NF = None Found

Date November 22, 1967 Double Rainbow ASSAY REPORT

11-20	SAMPLE	Silver Oz. Per ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	✓G - 110 CEW	1.7	*NF
	✓G - 111 CS	1.25	NF

Date November 24, 1967 Double Rainbow ASSAY REPORT

11-21	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rbo	✓G 112 CS	1.66	.40

Date November 25, 1967 Double Rainbow ASSAY REPORT

11-24	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	✓G - 113 CS	2.23	*NF

Date November 27, 1967 Double Rainbow ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow CEW	✓G-114	1.9	*NF

Date November 29, 1967 Double Rainbow ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow AEF	✓G-115	1.84	*NF

Date November 30, 1967 Double Rainbow ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow. AEF	✓G-116	1.27	*NF

*None Found

REPORT OF ANALYSIS

D.

SAMPLE OF

DOUBLE RAINBOW ORES

Lead - Zinc

RECEIVED FROM Geol. Dept. ON

Sample No.	% Pb	% Zn
G - 12	0.28	0.27
G - 13	0.42	0.30
G - 14	0.74	0.54
G - 15	0.14	0.13
G - 16	0.096	0.12
G - 17	0.07	0.14
G - 18	0.10	0.15
G - 19	0.52	0.07
G - 20	0.37	0.67
K - 10	4.96	0.73
17 - B	0.64	0.18
21	0.37	0.52
G - 106	0.70	0.70

(A.A. Spectro. analysis)

DATE 11/29/67 ANALYST W.H. Taylor

E.

Date November 3, 1967 Double Rainbow ASSAY REPORT

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
11-2		
Dbl.Rnbow OMH 17A	.6	*NF
17B	12.6	7.60

Date November 18, 1967 Double Rainbow ASSAY REPORT

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow OMH 22	11.95	*NF
21	18.25	.80

Channel Samples

60 94

E FORM 60
T. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OFFICIAL COPY O. M. E. RECEIVED 1967 INITIALS CODE

OME Region
RECEIVED
NOV 21 1967
Denver, Colorado

Docket No. OMEX 6558
Contract No. 14-23-000-1233
Contract Amount $312,180.00
Gov't. Participation % 75 $234,135.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of October 1967

Operator's Name Double Rainbow Mines, Inc.
Address 2251 Virginia Street, Berkeley, Calif. 94709

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
(1) Fixed Unit Costs and Independent Contracts:						
Shaft station @ $2.16	6,480.00	6,480.00	12,960.00			
Shaft sinking @ $220.00	6,160.00	38,940.00	45,100.00			
Bulldozing						
Upper Contact 6x6 @$35.	8,995.00	1,890.00	10,885.00			
Drilling						
Rock Bolts @ $3.00	0	4,350.00	4,350.00			
Crosscutting						
Underground AX @ $3.38	2,021.24	5,299.84	7,321.08			
Drilling						
Surface BX @ $6.50	0	10,218.00	10,218.00			
Surface BX @ $6.00	0	2,766.00	2,766.00			
(2) Personal Services:						
Supervision & Technical						
Outside Consultants	177.00	173.05	350.05			
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
Consultant's per diem	12.00	20.00	32.00			
Consultant's Travel expense	23.16	22.32	45.48			
TOTALS	23,868.40	70,159.21	94,027.61			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Nov 16, 1967 * Payee Double Rainbow Mines, Inc.

Per Edward R. Tullis Title Agent

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 17,901.30 14X0804

Signature JDM
(Authorized Certifying Officer)

Date Dec. 6, 1967 Vou. No. 83917

(SEE OTHER SIDE)

Certification by Government [redacted]esentative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2233

Signature J. William Haber Title Field Officer Date 11/27/67

Approved by OME Executive Officer or Alternate:

Signature J. William Haber Title Field Officer Date 11/27/67

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

HR 12/1/67

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of October 1967 Docket No. OME-6558

Operator's Name Double Rainbow Mines, Inc. Contract No. 14-23-090- 2233

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Upper Contact 6x6 @$35.00 Drifting	Ft.	257	311	10,885.00	257	311	10,885.00
Crosscutting							
Shaft station @ $2.16 Raising	Cu.Ft.	3,000	6,000	12,960.00	3000	6000	12,960.00
Shafts @ $220.00	Ft.	28	205	45,100.00	28	205	45,100.00
Rock Bolts @ $3.00	Each	0	1,450	4,350.00	0	1450	4,350.00
Other Underground							
Underground DX @ $3.38 Drilling, Core Diamond	Ft.	598	2,166	7,321.08	598	2,166	7,321.08
Surface DX @ $6.50 Rotary	Ft.	0	1,572	10,218.00	0	1,572	10,218.00
Surface HX @ $6.00 Drilling, Non-core Diamond	Ft.	0	461	2,766.00	0	461	2,766.00
Rotary							
Churn							
Percussion							
Miscellaneous							
Outside Consultant	Day	2-1/8	4-3/8	427.53	2 1/8	4 3/8	422.48
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE (per MME Form 60)				94,027.61			94,022.56

REMARKS

(Continue on back)

REMARKS

(Continue on back)

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Nov. 16, 1967 Operator Double Rainbow Mines, Inc.

Per Edward R. Tullis Title Agent

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office Government Representative

Date November 27, 1967

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

INT.DUP.,D.C.59- 27162

OPERATOR'S NARRATIVE REPORT - OCTOBER 1967

OME - 6558 (SILVER)
DOUBLE RAINBOW MINES, INC.
DOUBLE RAINBOW MINE
LAWRENCE COUNTY, SOUTH DAKOTA
CONTRACT NO. 2233

UNDERGROUND DIAMOND DRILLING

Two drill holes were completed from the upper contact Richmond-Sitting Bull workings, 4U to a depth of 393 feet and 3U to a depth of 500 feet. Hole 5U reached a depth of 403 feet at the end of October. Footage drilled in Hole 5U will be billed in November.

The better assays are summarized below:

Hole	Interval	Ozs. Ag	$Au(35.00)	Material
4U	236-241	0.8	none	porphyry
	372-376	1.6	1.67	quartzite
	376-380	1.2	2.03	quartzite
3U	460-466	0.1	none	dolomite

Hole 4U is deeper than expected because of downward displacement of the lower contact to a position below a thick porphyry sill. This is true also of hole 5U, completed early in November. Good core recovery was experienced in 4U, 3U and 5U, although circulation was lost in 4U and 3U.

Total footage drilled in October was 1,001 feet, which is broken down as follows:

98 feet - completion of hole 4U.
500 feet - Hole 3U complete.
403 feet - part of Hole 5U.
1,001 feet - Total

Descriptive logs and assay sheets are part of this report. Two sections show the underground holes to date.

UNDERGROUND GEOLOGIC WORK

Verticals (fractures) have been mapped on a scale of one inch to 20 feet in the haulage drift from the portal to station 15. This and other geological information will be plotted on a set of 20 scale maps.

SAMPLING

Grab sampling of trucks was done in all advancing drifts. Locations and results are shown on the sample map. The two better rounds were 4.9 ozs. Ag in No. 1 drift and 4.3 ozs. Ag in No. 4 drift. Three verticals crossing No. 1 were sampled. No significant values were found. The face of No. 4 drift was sampled at two points where mineralization was present. Good values were obtained, but no continuity is apparent.

Samples which contain less than 5 ozs. of silver will not ordinarily be analyzed for lead and zinc.

Operator's Narrative Report - October 1967
(continued)

SHAFT SINKING

Excavation of the shaft station progressed sufficiently to permit installation of shaft timber at the station and slusher trench levels. Shaft bearing beams were concreted in place at the base of the slusher trench level. Station excavation was about 67 percent completed at the end of October. Another 28 feet of shaft timber was hung, to a depth of 205 feet. Shaft sinking operations were resumed on October 31, and excavation of a spill pocket was finished.

UPPER CONTACT WORK

Haven's Drift was enlarged for a distance of 98 feet to provide access to slusher drift No. 3. Slusher drift No. 2 was advanced 15 feet to make space to construct a loading ramp.

Slusher drift No. 4 was driven 78 feet in October. Slusher drift No. 1 advanced 88 feet south and 76 feet north of the crosscut. No connection has been made to the McClellan Tunnel yet. Drift footage for October is 257 feet, for a total to date of 311 feet.

Drift progress, sample locations, and assay results are indicated on the accompanying map. Copies of the assay reports are also attached to this report.

H. A. Kelly
Project Engineer

HAK/g

Orig. & 4 copies - OME

Al Kochy file

EDWARD L. TULLIS
Consulting Geologist
223 ST. CHARLES STREET
RAPID CITY, SOUTH DAKOTA 57701
PHONE 605/342-3733

Double Rainbow Mines, Inc.

October 6, 1967

FOR PROFESSIONAL SERVICES RENDERED

July - Sept., 1967	Office, 1/2 day	$37.50
Sept.5,1967	1/2 day Field work, Galena	37.50
	Perdiem, 6 hrs. @ $16/day	4.00
	Mileage, 88 @ 12¢/mile	10.56
	TOTAL	$89.56

Approved for payment
10-7-67
DJD

EDWARD L. TULLIS
Consulting Geologist
223 ST. CHARLES STREET
RAPID CITY, SOUTH DAKOTA 57701
PHONE 605/342-3733

Double Rainbow Mines, Inc. November 3, 1967

FOR PROFESSIONAL SERVICES RENDERED

October 24, 1967	1 day Lead-Galena	$ 75.00
	Office time during October - 3 hours	27.00
October 24, 1967	Perdiem, 1/2 day @ $16/day	8.00
October 24, 1967	Mileage, 105 miles @ 12¢/mile	12.60
		$122.60

Approved for Payment
11-7-67 DJD

(OME-6558 (Silver))
(Contract No. 2233)

A.

DOUBLE RAINBOW PROJECT

Diamond Drill Log

Hole No. 3U (8530B). Completed October 20, 1967. Log by J. M. W.

Location: S. 393.79, W. 291.27. Drilled from Richmond Level.

Collar elevation 4949.14. Vertical angle -90°.

Cored 2'-500' Recovery 457/498 or 91.8%

Depth	Lithology
0- 2	Cased.
2- 22	Brown to rusty brown limonitic sandstone. Manganese mineralization from 8-9 and 21-22.
22- 25	Clean buff sandstone.
25- 32	Brown limonitic sandstone. Scattered glauconite and manganese at 29-32. Thin bands of sandstone with calcareous cementation.
32- 46	Brown to gray brown calcareous sandstone. Manganese from 43-44 and abundant iron oxide.
46- 49	Light gray with altered feldspar porphyry abundant kaolin and manganese in fractures at 48'.
49- 60	Brown to light brown argillaceous calcareous sandstone. Abundant iron oxide, minor glauconite and minor manganese at 53'.
60- 68	Alternating 2' beds of argillaceous calcareous sandstone and gray glauconitic sandstone. Very fine grained pyrite from 66-67.
68- 80	Brown argillaceous limonitic sandstone. Manganese from 168-173.
80- 99	Brown to light brown argillaceous limonitic calcareous sandstone. Manganese at 81 and 89-90.
99-111	Light brown argillaceous sandy limestone. Manganese and iron oxide at 106.
111-113	Dark brown argillaceous sandstone.
113-124	Alternating bands of gray green shale and gray brown limestone. Abundant iron oxide.
124-134.5	Light gray buff feldspar porphyry with many large weathered phenocrysts. Abundant fractures with iron oxide staining and dendrites. 20% gray white phenocrysts altered to kaolin.
134.5-162	Gray to gray brown limestone with thin gray green to gray shale partings with minor amounts of glauconite and scattered gray limestone pebbles.
162-177	Gray limestone with thin gray shale partings. Scattered gray flat limestone pebbles at base.

Hole No. 3U (8530B) (continued)

Depth	Lithology
177-228	Dark gray shale with scattered white to gray white limestone pebbles. Scattered thin gray limestone beds with gray white to white flat limestone pebbles. Some stained pink to red on edges. Massive limestone beds at 181-183', 185-187', and 192-194' with flat limestone pebbles, some stained pink to red on edges.
228-232	Coarse grained gray to reddish gray limestone with thin red lined fossils. (?)
232-248	Dark gray shale with thin beds of limestone from 241-243.
248-297.5	Gray to pinkish gray feldspar porphyry. Phenocrysts pinkish gray, 30%, stubby, 0.2"-0.3". Ferromagnesian phenocrysts less than 1%. Scattered phenocrysts 1.0". Fine grained matrix and slight kaolin alteration.
297.5-308	Dark gray thin bedded shale.
308-310	Light gray to gray green feldspar porphyry. Gray white phenocrysts 0.2"-0.4", 30%. Matrix is fine grained gray green.
310-315	Dark gray thin bedded shale.
315-335	Gray limestone with abundant dark gray shale partings. Abundant gray white to white flat limestone pebbles. Limestone stained red at 325.
335-346	Gray limestone with abundant gray white limestone pebbles. Scattered shale partings. Some beds of dolomitic limestone.
346-374	Gray green phonolite with 20% ferromagnesian phenocrysts 0.1"-0.2". Feldspar phenocrysts 15%, 0.5". Fine grained gray green matrix.
374-379	Transition zone. Light gray feldspar porphyry. Ferromagnesian phenocrysts 10% and pyrite mineralization.
379-408	Light gray feldspar porphyry. 40% phenocrysts 0.3-0.4 with gray matrix. Pyrite mineralization and kaolin alteration from 389-391.
408-410	Transition zone. Light gray feldspar porphyry with 5% ferromagnesian phenocrysts and pyrite mineralization.
410-456	Gray green phonolite. Abundant ferromagnesian phenocrysts, 20%, 0.1-0.2". Feldspar phenocrysts 15%, 0.5". Gray green fine grained matrix.
456-460	Dark gray dolomitic limestone with scattered gray shale partings.
460-466	Light gray coarse grained dolomite with scattered pyrite mineralization.
466-482	Massive gray quartzite. Pyrite mineralization throughout. Fracture at 469-470 has pyrite and galena mineralization.
482-494	Gray calcareous quartzite. Small shell fossils with scattered pyrite mineralization.
494-500	Dark gray glauconitic sandstone. Scattered fossils with some limestone fossil hash.

Date October 13, 1967 Double Rainbow **ASSAY REPORT**

10- 3 U	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbw 8530 B	2-5' JMW	.1	NF
sludge	5-10	.14	NF
	10-15	.2	NF
	15-20	.1	NF

NF = None Found

Date October 26, 1967 Double Rainbow **ASSAY REPORT**

10-24 3 U	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
D D 8530 B Double Rnbo	2 - 5 JMW	.2	NF
split core samples	5 - 10	.2	NF
	10 - 15	.15	NF
	15 - 20	.2	NF
	460 - 466	.1	NF
	466 - 471	.06	NF
	471 - 476	.1	NF
	476 - 482	.07	NF

NF = None Found

(OME-6558 (Silver))
(Contract No. 2233)

B.

DOUBLE RAINBOW PROJECT

Diamond Drill Log

Hole No. 4U (8518B). Completed October 4, 1967. Log by J. M. W.

Location: S. 421.04, W. 71.90. Drilled from Richmond Level.

Collar elevation 4926.93. Vertical angle -90°.

Cored 2'-393' Recovery 373/391 or 92.8%

Depth	Lithology
0- 2	Cased.
2- 4	Rusty brown sandstone with abundant iron oxide staining.
4- 5	Dirty brown argillaceous sandstone with abundant manganese and iron oxide.
5- 9	Light brown to gray green dolomitic sandstone. Abundant glauconite, iron oxide, and abundant scattered fine grained pyrite.
9- 23	Gray to gray green dolomitic glauconitic sandstone with abundant fine grained pyrite mineralization. 10-12 scattered gray flat dolomite pebbles and calcite filled fractures with iron oxide staining at 16' and 20'.
23- 27	Gray to brown sandstone with moderate iron oxide staining and glauconite.
27- 42	Brown to dark brown sandstone with abundant iron oxide alteration and manganese at 28-32 and 39-40. 34-37 has a strong iron oxide alteration with manganese. Scattered glauconite and dolomitic sandstone beds.
42- 50	Light brown calcareous sandstone with beds of calcareous argillaceous sandstone from 43-44 and 48-50.
50- 53	Gray green glauconitic dolomitic sandstone.
53- 64	Light brown argillaceous calcareous sandstone. 58-59 gray green dolomitic sandstone. Moderate iron oxide and thin green shale partings.
64- 76	Brown to dark brown argillaceous calcareous sandstone with abundant iron oxide. Manganese at 65'.
76- 89	Light brown to brown argillaceous sandy limestone. Scattered flat gray limestone pebbles and glauconite with manganese at 81'.
89- 98	Gray to brownish gray argillaceous calcareous sandstone with moderate glauconite.
98-123	Gray sandy glauconitic dolomitic limestone. Scattered flat limestone pebbles with abundance at 112'. Also scattered gray to gray green shale partings.
123-132	Gray white feldspar porphyry. 15% white feldspar phenocrysts. Ferromagnesium phenocrysts are less than 1%. Gray green fine grained matrix with abundant kaolin alteration.

Hole No. 4U (8518B) (continued)

Depth	Lithology
132-135	Gray dolomitic limestone with scattered flat limestone pebbles. Porphyry breccia at 138.6' -139.
137-143	Dark gray thin bedded calcareous shale with thin beds of limestone.
143-176	Gray dolomitic limestone with thin gray shale partings. Very scattered flat limestone pebbles and glauconite. Calcite fracture at 168'.
176-232	Dark gray thin bedded shale with 4"-12" limestone and flat limestone pebble conglomerate beds. Limestone pebbles are gray white with pink to red staining on edges. Very fine grained disseminated pyrite. Calcite fracture at 227'.
232-235	Gray shaly limestone with flat gray white limestone pebbles. Fine grained pyrite mineralization.
235-245	Gray white feldspar porphyry. Feldspar phenocrysts are stubby 0.1-0.3", 35% . Matrix is gray buff with strong kaolin alteration. Galena and sphalerite filled fracture at 236-240 and pyrite throughout.
245-249	Gray to dark gray coarse grained bands of limestone with thin red line fossils. (?) Scattered pyrite.
249-253	Gray thin bedded shale appears to be leached. Abundant vertical fractures with pyrite mineralization. Small fracture filled with manganese at 253.
253-301	Light gray feldspar porphyry. 30% feldspar phenocrysts from 0.2" to 0.4" and up to 0.8". Phenocrysts are stubby. Gray white matrix. Pyrite mineralization in fractures near upper contact. Scattered pyrite throughout. Ferromagnesium phenocrysts less than 1%. Some feldspar phenocrysts have light pink color.
301-303	Gray thin bedded shale. Fine grained pyrite in scattered limestone beds.
303-323	Thin bedded gray to dark gray shale. Very fine grained pyrite.
323-329	Thin bedded dark gray shale with thin limestone beds and flat white limestone pebbles.
329-347	Gray limestone with abundant flat white limestone pebbles, some very irregular in shape. Abundant shale partings and red limestone at 237'.
347-358	Gray coarse grained limestone with scattered limestone pebbles. Pyrite mineralization in thin fractures.
358-365	Gray coarse grained dolomite with abundant small fractures with pyrite. Pyrite scattered throughout.
365-372	Gray to gray white feldspar porphyry. 15% white feldspar phenocrysts 0.1"-0.2". 368-372 pyrite mineralization and moderate kaolin alteration.
372-385.5	Gray massive quartzite. Massive fine grained pyrite mineralization at 372-375 and 377-379. Pyrite filled vugs and fine grained pyrite throughout.
385.5-393	Light gray to light gray green feldspar porphyry. Light green ferromagnesium phenocrysts and gray matrix. Abundant kaolin at upper contact.

(-6558 (Silver))
(Contract No. 2233)

Date September 27, 1967 SLUDGE ASSAY REPORT

9-26 4U SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
8518 B Sludge 2'-5' - 90°	.5	NF
5'-10'	.24	NF
10'-15'	.2	NF
15'-20'	.1	NF

Date October 7, 1967 Double Rainbow ASSAY REPORT

4U SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow 8518 B 236 - 241	.8	*NF
JMW 2 - 5	.2	NF
5 - 10	.2	NF
Split core samples 10 - 15	.3	.20
15 - 20	.1	.20

*None Found

Date October 6, 1967 Double Rainbow ASSAY REPORT

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow. CEE G-32	1.9	NF
4U		
D D 8518 B JMW 353 - 358	Trace	NF
Dbl. Rnbow Project 358 - 361	Trace	NF
Split core samples 361 - 365	Trace	NF
365 - 372	.4	NF
372 - 376	1.6	1.00
376 - 380	1.2	1.20
380 - 385	.1	NF

None Found - NF

(OME-6558 (Silver))
(Contract No. 2233)

C.

DOUBLE RAINBOW PROJECT

Diamond Drill Log

Hole No. 5U (8552B). Completed November 2, 1967. Log by J. M. W.

Location: S. 552.21, W. 250.87. Drilled from Richmond Level.

Collar elevation 4946.22. Vertical angle -90°.

Cored 0'-480' Recovery 468/480' or 97.5%

Depth	Lithology
0- 19	Dirty brown sandstone with local calcareous sandstone. Badly weathered zones of abundant iron oxide and manganese at 9' and 12'.
19- 49	Light brown sandstone with local calcareous sandstone. Scattered 1' beds of argillaceous calcareous sandstone. Manganese at 36', 38', and 39'.
49- 51	Fine grained gray green porphyry with vugs of manganese and limonite filled fractures.
51- 59	Light brown calcareous argillaceous sandstone with scattered very thin shale partings.
59- 61	Blue gray glauconitic sandstone.
61- 68	Light brown calcareous argillaceous sandstone with scattered very thin shale partings.
68- 90	Light brown to brown sandy argillaceous limestone. Thin shale partings. Scattered glauconite, manganese staining from 77-81, and abundant iron oxide from 71-77.
90-109	Light brown to brownish gray sandy argillaceous limestone with scattered shale stringers. Flat limestone pebbles at 90' and from 92-93. Manganese from 95-99.
109-113	Gray glauconitic sandstone with abundant shale partings.
113-126	Brown to gray brown argillaceous limestone. Minor shale partings and scattered glauconite and iron oxide.
126-131	Gray limestone with abundant shale partings and scattered limestone pebbles.
131-141	Light yellow gray fine grained porphyry with kaolin alteration. Thin limonite and manganese filled fractures.
141-176	Gray glauconitic limestone with gray shale partings. Shale partings abundant locally and some beds of gray glauconitic dolomitic limestone.
176-228	Dark gray thin bedded shale with scattered beds of limestone and limestone conglomerate. Scattered limestone pebbles with pink to red staining on edges from 188-190.
228-255	Gray white porphyry. Stubby white phenocrysts 0.2-0.5 and a gray matrix. Fine grained pyrite near upper and lower contact. Moderate kaolin alteration. Fracture filled with manganese (?) at 254.

Hole No. 5U (8552B) (continued)

Depth	Lithology
255-264	Gray to red limestone with thin red line fossils. Scattered shale partings.
264-273	Gray very thin bedded shale and thin gray limestone beds.
273-310	White to pinkish white feldspar porphyry. 25% pinkish phenocrysts 0.2-0.3". Gray white matrix.
310-312	Gray shale with small white fine grained particles (origin unknown).
312-334	Gray thin bedded shale.
334-351	Gray limestone with abundant flat limestone pebbles and abundant dark gray shale partings.
351-371	Gray white feldspar porphyry with 30% white phenocrysts 0.2"-0.3". Gray white matrix with scattered pyrite throughout.
371-386	Gray limestone with scattered to moderate flat white limestone pebbles and scattered gray shale partings. Scattered pyrite mineralization.
386-450	Gray green phonolite with 10% ferromagnesian phenocrysts and scattered feldspar phenocrysts. Gray green matrix. Very scattered pyrite mineralization. 3" bed of limestone at 390'.
450-452	Gray coarse grained limestone with scattered pyrite.
452-460	Gray dolomite with scattered pyrite. Pyrite filled fractures at 452 and 455.
460-476	Gray massive quartzite with scattered pyrite mineralization. (galena (?) small crystals with metalic luster.
476-480	Gray quartzite with very thin beds of fossil hash.

Date November 2, 1967 Double Rainbow **ASSAY REPORT**

5u	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow Sludge	2-5		
JMW	5-10	.2	*NF
8552B	10-15	.14	NF
Sludge	15-20	.1	NF
		.1	NF

Date November 2, 1967 Double Rainbow **ASSAY REPORT**

5u	SAMPLE	Silver Oz. PerTon	GOLD Dollars per Ton at $20.67
Dbl.Rnbow. D D H 8552B	350-355	NF	*NF
Sludge	355-360	NF	NF
	360-365	NF	NF
	365-370	NF	NF
	370-375	NF	NF
	375-380	NF	NF

Date November 4, 1967 Double Rainbow **ASSAY REPORT**

5u	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow D D 8552B	0 - 5	*NF	NF
JMW	5 - 10	NF	NF
(Paper Tags)	10 - 15	NF	NF
Split core samples	15 - 20	NF	NF
	452 - 456	NF	NF
	456 - 460	NF	NF
	460 - 465	Tr	NF
	465 - 470	Tr	NF
	470 - 475	NF	NF
	475 - 480	NF	NF
Dbl. Rnbow D D 8552B	400 - 405	TR	NF
Sudge	405 - 410	Tr	NF
	460 - 465	Tr	NF
(Wood Tags)	465 - 470	Tr	NF
	470 - 475	Tr	NF
	475 - 480	Tr	NF
	Illegible	Tr	NF
	#14	Tr	NF

*None Found

Date October 23, 1967 Double Rainb ow ASSAY REPORT

10-	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	# 13	ALS	.2	NF
	# 14		.16	NF
	# 15	OMH	.16	NF
	# 16		15.3	1.00

NF = None Found

D.

Date October 16, 1967 Double Rainbow ASSAY REPORT

10-14	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dlb.Rnbow	AEF	G-51	1.9	*NF
	AEF	G-46-R	.4	NF
	HAK	K-10	22.0	NF

*None Found

Channel Samples

GO 94

Truck Samples

E.

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow 27	.4	*NF

Date October 9, 1967 Double Rainbow ASSAY REPORT

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rainbow G 29 AEF	.54	NF
G 33 CEE	1.6	NF
G 34 AEF	.8	NF

Date October 6, 1967 Double Rainbow ASSAY REPORT

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow. CEE G-32	1.9	NF

Date October 10, 1967 Double Rainbow ASSAY REPORT

10-7 SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Double Rainbow G 35 CEE	1.35	NF
G 36 AEF	.5	NF
G 37	.75	NF

Date October 11, 1967 Double Rainbow ASSAY REPORT

10-9 SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbw G 38 CEE	1.2	NF
G 39	1.59	.40

Date October 14, 1967 Double Rainbow ASSAY REPORT

10-13 SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbw G 45 - L CEW	.32	NF

Date October 16, 1967 Double Rainbow ASSAY REPORT

10-14 SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dlb.Rnbow AEF G-51	1.9	*NF
AEF G-46-R	.4	NF
HAK K-10	22.0	NF

Date October 17, 1967 Double Rainbow ASSAY REPORT

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow GEE G-47-S	.06	*NF
G-48-N	.21	NF
CEW G-49-R	.16	NF
G-50-L	1.73	NF

Date October 18, 1967 Double Rainbow ASSAY REPORT

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow. CEW G-52	4.35	*NF
AEF G-55	.1	NF
CES G-56	.2	NF

*None Found

Date October 19, 1967 Double Rainbow **ASSAY REPORT**

	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow	CEW	G-53-n?	1.02	*NF
	--	G-54	.38	NF
	CEW	G-57-N	.44	NF
	AEF	G-58-S	.04	NF

Date October 20, 1967 Double Rainbow **ASSAY REPORT**

	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow	CEW	G-59-L	4.9	*NF

Date October 21, 1967 Double Rainbow **ASSAY REPORT**

10-20	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow.	CES	G-61	.6	*NF

Date October 23, 1967 Double Rainbow **ASSAY REPORT**

10-20	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G - 62	CEW	tr	NF
	G - 64	CS	.2	NF

Date October 24, 1967 Double Rainbow **ASSAY REPORT**

	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G - 65	CEW	2.65	NF
	G - 67		1.8	NF

Date October 26, 1967 Double Rainbow **ASSAY REPORT**

10-24	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G - 66	CEW	1.0	NF
	G - 69	CS	.3	NF

Date October 25, 1967 Double Rainbow **ASSAY REPORT**

10-23	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbo	G - 68	CEW	1.4	NF

Date October 27, 1967 Double Rainbow **ASSAY REPORT**

10-	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $
Dbl Rnbo	G - 70	CEW	.2	NF

Date October 28, 1967 Double Rainbow **ASSAY REPORT**

10-	SAMPLE		Silver Oz Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G - 71	CEW	.2	NF
	G - 75		.1	NF
	G - 76	CS	.1	NF

NF = None Found

Date October 30, 1967 Double Rainbow ASSAY REPORT

10-29 SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl.Rnbow CEW G77	.05	*NF
27 CEW G?? 72?	.7	NF

Date October 31, 1967 Double Rainbow ASSAY REPORT

10-30 SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow CEW G-78	.2	*NF

Date November 1, 1967 Double Rainbow ASSAY REPORT

10-30 SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow CS G-73	.8	*NF
31 CEW G-79	.3	NF

*None Found

GO 94

MME FORM 60
SEPT. 1959

OFFICIAL COPY
O. M. E.
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NOV 9 1967
INITIALS CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME -6558
Contract No. 14-23-090-2233
Contract Amount $312,180.00
Gov't. Participation % 75 $234,135.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of September 1967

Operator's Name Double Rainbow Mines, Inc.
Address 2251 Virginia Street, Berkeley, California 94709

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and (1) Independent Contracts:						
Shaft Station @ $2.16	6,480.00	0	6,480.00			
Shaft Sinking @$220.00	8,140.00	30,800.00	38,940.00			
Bulkhead						
Upper contact 6x6 @ 35.00	1,890.00	0	1,890.00			
Drifting						
Rock Bolts @ $3.00	1,422.00	2,928.00	4,350.00			
Cross-cutting						
Underground AX @$3.38	2,758.08	2,541.76	5,299.84			
Drilling						
Surface BX @ $6.50	0	10,218.00	10,218.00			
Surface BX @ $6.00	0	2,766.00	2,766.00			
(2) Personal Services:						
Supervision & Technical						
Outside Consultants	0	173.05	173.05			
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
Consultant's per diem	0	20.00	20.00			
Consultant's Travel Expense	0	22.32	22.32			
TOTALS	20,690.08	49,469.13	70,159.21			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Oct 16, 1967 *Payee Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 15,517.56 14X0804

Signature glm
(Authorized Certifying Officer)

Date NOV 7 1967 Vou. No. 83392

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2233

Signature J. William Hasler Title Field Officer Date 10/20/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 10/20/67

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

HK 10/31/67

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of September 1967 Docket No. OME-6558

Operator's Name Double Rainbow Mines, Inc. Contract No. 14-23-090-2233

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Upper Contact 6x6 @ $35.00 Drifting	Ft.	54	54	1,890.00	54	54	1,890.00
Crosscutting							
Shaft Station @ $2.16 Raising	CuFt.	3,000	3,000	6,480.00	3,000	3,000	6,480.00
Shafts @ $220.00	Ft.	37	177	38,940.00	37	177	38,940.00
Rock Bolts @ $3.00 Timbers	Each	474	1,450	4,350.00	474	1,450	4,350.00
Other Underground							
Underground AX @ $ 3.38 Drilling, Core-Diamond	Ft.	816	1,568	5,299.84	816 (1) 524 (2)	1,568 938	5,299.84 3,170.44
Surface BX @ $6.50 Rotary	Ft.	0	1,572	10,218.00	0	1,572	10,218.00
Surface BX @ $6.00 Drilling, Non-core-Diamond	Ft.	0	461	2,766.00	0	461	2,766.00
Rotary							
Churn							
Percussion							
Miscellaneous							
Outside Consultant	Day	0	2¼	215.37	0	2¼	210.32
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE (per MME Form 60)				70,159.21			~~68,024.76~~ (2) #70,154.16

REMARKS

(Continue on back)

REMARKS

(1) Rig labor $997.10 pending completion of 40 holes. Can not claim expense completion H. Kikuno

(2) Holes 7U(445') and 2U(411') totalling 856' were completed in Sept. 1967. Therefore Operator's claim for 816 feet is allowable, and the remaining 40 feet may be reclaimed on subsequent voucher.

(Continue on back) H. Kikuno 10/31/67

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Oct. 16, 1967 Operator Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office Government Representative

Date October 27 1967

(INSTRUCTIONS ON REVERSE)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

OPERATOR'S NARRATIVE REPORT - SEPTEMBER 1967

OME - 6558 (SILVER)
DOUBLE RAINBOW MINES, INC.
DOUBLE RAINBOW MINE
LAWRENCE COUNTY, SOUTH DAKOTA
CONTRACT NO. 2233

UNDERGROUND DIAMOND DRILLING

Two underground holes were completed in September, 7U to a depth of 445 feet and 2U to a depth of 411 feet. Both holes penetrated the lower ore horizon. The best assay obtained was 5 feet of 0.9 oz. of silver, in hole 7U between 430 and 435 feet. No sludge was recovered from hole 2U, as circulation was lost. The hole was cemented once, but circulation was not restored. Hole 4U reached a depth of 295 feet by the end of September. This hole is being cored "B wireline" size, and better core recovery is being achieved.

Total footage drilled in September was 816 feet, which is broken down as follows:

110 feet	- Termination of hole 7U.
411 feet	- Hole 2U, complete.
295 feet	- Start of Hole 4U.
816 feet	- Total

Descriptive logs, assay reports, and sections of drill holes 2U and 7U are attached to this report.

UNDERGROUND GEOLOGIC WORK

A mapping procedure has been worked out and the stratigraphy adjacent to the upper ore horizon has been studied. Fractures (verticals) will be mapped on plan in the old parts of the mine near the proposed slusher drifts and in the slusher drifts themselves. Elevations of the base and top of the ore horizon bed will be obtained, and contour and isopach maps will be drawn. Mineralization will be indicated.

SAMPLING

A grab sample will be taken from the trucks for each round advanced. This has been started in the No. 1 slusher drift. (See map.) Channel samples will be taken in the drift faces or on the walls in places with significant mineralization.

SHAFT SINKING

Shaft excavation advanced 72 feet in September, to a total depth of 244½ feet. On September 18 the shaft penetrated another water-bearing zone at the 221-foot depth, and the influx of water into the shaft reached 50.4 gallons per minute. The additional water flow is associated with the contact between the feldspar porphyry sill and the underlying shale. Weir measurements on succeeding days yielded the following flows:

Sept. 19	- 54.0 gpm @ 229	-foot depth
Sept. 20	- 58.4 gpm @ 233	-foot depth
Sept. 21	- 52.5 gpm @ 237	-foot depth
Sept. 22	- 51.3 gpm @ 244½	-foot depth

Operator's Narrative Report - September 1967
(continued)

Shaft timber has been installed to a depth of 177 feet, which is the location of the brow of the shaft station. Excavation of the shaft station began on September 23, and was about 30% complete at the end of the month. The skip-loading cartridges have been fabricated and are ready for installation.

Floor level of the shaft station is at the 189-foot depth. This location was selected to permit the main haulage drift to be driven on a slight upgrade to intersect the "lower contact" horizon.

UPPER CONTACT WORK

Enlargement of the Richmond haulage drifts advanced 99 feet in September, for a total advance to date of 1,330 feet. An 8-foot by 9-foot crosscut was driven to 144 feet east of the main haulage drift to provide access to slusher drift No. 1. Mining of this new crosscut was deemed to be easier than attempting to re-open the caved portal of the McClellan Tunnel. Slusher drifts Nos. 1, 2, and 4 now are completely accessible. Approximately 100 feet of additional enlargement work is planned to approach the starting point of slusher drift No. 3.

Slusher drift No. 1 was advanced 11 feet north and 10 feet south of the new crosscut. Slusher drift No. 4 progressed 33 feet in September. Both slusher drifts are temporarily halted to install loading ramps.

Drift advances are marked in red on the map of the Richmond-Sitting Bull Mine, which is attached to this report. Location of grab samples and a list of the assay results are indicated on the same map. Copies of the grab sample assay reports are included separately with this report.

H. A. Kelly
Project Engineer

HAK/g

Orig. & 4 copies - OME

(OME-6558 (Silver))
(Contract No. 2233)

E

DOUBLE RAINBOW PROJECT

Diamond Drill Log

Hole No. 2U (8501A). Completed September 19, 1967. Log by J. M. W.

Location: S. 158.70, W. 5.08. Drilled from Richmond Level.

Collar elevation 4914.06. Vertical angle -90°.

Cored 0'-411' Recovery 366/411 or 89.1%

Depth	Lithology
0- 22	Cased. Brown to light brown sandstone with calcareous cement, abundant iron oxide and green glauconite scattered throughout. Manganese at 17-18.
22- 25	Dirty brown calcareous shaley sandstone with scattered glauconite and abundant iron oxide.
25- 31	Brown sandstone with abundant manganese and moderate iron oxide.
31- 53	Brown to light brown sandstone with alternating dolomite and calcite cementation. Scattered glauconite, shale partings and beds of argillaceous sandstone. Abundant iron oxide with minor manganese.
53- 56	Dirty brown sandy argillaceous limestone with scattered glauconite.
56- 58	Gray green sandy dolomite with abundant glauconite.
58- 62	Gray to gray brown sandy argillaceous dolomite with abundant glauconite and minor gray green shale partings. 62' calcite fractures.
62- 65	Gray sandy dolomite with abundant glauconite and minor gray shale partings.
65- 72	Gray to gray brown argillaceous limestone with abundant glauconite.
72- 79	Reddish brown limestone with beds of sandy limestone locally. Abundant iron oxide and minor glauconite.
79- 91	Light brown sandy limestone with moderate iron oxide, minor manganese, and scattered tan shale partings.
91-100	Light gray brown sandy limestone with minor iron oxide. Abundant light gray limestone pebbles at 93'.
100-116	Gray to light gray bedded dolomite with thin gray shale partings. Scattered glauconite with gray white limestone pebbles at 113'.
116-120	Gray brown sandy limestone with scattered shale partings, flat limestone pebbles and minor glauconite.
120-130	Gray bedded dolomite with scattered white flat limestone pebbles and moderate shale partings.
130-150	Gray to light gray dolomitic limestone with moderate gray shale partings. Scattered gray white flat limestone pebbles and glauconite. Locally sandy limestone.

Hole No. 2U (8501A) (continued)

Depth	Lithology
150-158	Gray to gray brown sandy glauconitic limestone with thin gray shale partings.
158-164	Gray to light gray dolomitic limestone with moderate gray shale partings and minor glauconite.
164-185	Very thin bedded gray shale, scattered with flat limestone pebbles. 176-179 gray white flat limestone pebble conglomerate divided by a 1' shale parting. Some limestone pebbles stained pink to red. 183-184 thin limestone beds with pink flat limestone pebbles.
185-194	Gray feldspar porphyry with 20% white feldspar phenocrysts which average 0.1" and scattered ferromagnesian phenocrysts. Gray fine grained matrix and very scattered fine grained pyrite.
194-234	Dark gray very thin bedded shale with scattered white flat limestone pebbles. Locally a flat limestone pebble conglomerate with a limestone matrix at 212', 213', 224', 231', and 232'. Some of the pebbles are stained reddish to pink on the edges.
234-238	Gray to reddish gray limestone with abundant white to red stained flat limestone pebbles. Small red to gray line fossils. (?) Limestone is coarse grained.
238-249	Dark gray thin bedded shale with slight effervescence with strong acid. Gray limestone beds at 240' and 245'.
249-314	Light gray to light pinkish gray porphyry. 40% gray white to pinkish gray phenocrysts 0.2" to 0.3", up to 0.5" and stubby. Matrix is fine grained gray white to pink. Pyrite mineralization in small scattered fractures. Ferromagnesian mineralization is gray green and less-than 1%. At 274' a small dike 2" wide with gray green feldspar matrix and phenocrysts of biotite. Fracture at 303' filled with pyrite and sphalerite, and at 307' fracture filled with pyrite, sphalerite, and galena.
314-319	Light gray to buff thin bedded shale. Weak effervescence with strong acid. Shale appears to be leached. Pyrite in very thin fractures.
319-329	Dark gray bedded shale.
329-352	Alternating beds of dark gray shale and coarse grained limestone. Abundant white flat limestone pebbles. Scattered glauconite found in limestone beds.
352-364	Gray dolomitic limestone with scattered gray white , white limestone pebbles. Scattered beds of glauconitic dolomitic limestone. 362 manganese.
364-377	Gray coarse grained dolomite with very fine grained pyrite mineralization and minor amounts of manganese.
377-389	Gray massive quartzite with abundant pyrite mineralization. Vuggy zones filled with pyrite and minor amounts of manganese mineralization.

Hole No. 2U (8501A) (continued)

Depth	Lithology
389-390	Feldspar porphyry. Gray matrix with white feldspar phenocryst 0.1" long. Abundant pyrite mineralization.
390-397?	Gray massive quartzite with abundant pyrite mineralization. Vuggy zones filled with pyrite.
397-408	White chalky feldspar porphyry. Strong kaolin alteration and abundant pyrite mineralization.
408-411	Gray green feldspar porphyry. Stubby feldspar phenocrysts 15%. Ferromagnesian phenocrysts 1-2%. Gray green matrix.

(OME-6558 (Silver))
(Contract No. 2233)

Date September 15, 1967 Double Rainbow Project XX

ASSAY REPORT

9- SAMPLE			Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
D D Hole 8501 A	JMW	0 - 5	.4	NF
		5 - 10	Trace	NF
Split core samples		10 - 15	.1	NF
		25 - 30	.5	NF

NF = None Found

GO 94

(OME-6558 (Silver))
(Contract No. 2233)

Date September 23, 1967 Double Rainbow **ASSAY REPORT**

SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. RnBow D D 8501 A	302 - 307	NF	NF
JMW	364 - 369	NF	NF
	369 - 373	NF	NF
split core samples	373 - 377	NF	NF
	377 - 382	NF	NF
	382 - 387	NF	NF
	387 - 392	NF	NF
	392 - 397	NF	NF
	397 - 408	NF	NF

*None Found

GO 94

Date September 16, 1967 Double Rainbow **ASSAY REPORT**

9-15 SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo G 1	HAK	2.2	NF

B.

Date September 18, 1967 Double Rainbow **ASSAY REPORT**

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow G-2	1.6	.20

Date September 19, 1967 Double Rainbow **ASSAY REPORT**

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow G-3	1.95	.20
HAK G-4	1.7	.20

Date September 20, 1967 Double Rainbow **ASSAY REPORT**

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Ranbow - D.Delicate	128.9	.60
Dbl. Rnbow AEF - G-5	2.4	.20
HAK - G-6	1.75	*NF

Date September 22, 1967 Double Rainbow **ASSAY REPORT**

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow AEF G-8	1.9	*NF
CEE G-9	.4	NF

Date September 23, 1967 Double Rainbow **ASSAY REPORT**

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow K-8 HAK	*NF	NF
~~G~~-10 AEF	1.0	NF
~~G~~-11 CEE	.85	NF

Date October 5, 1967 Dbl. Rainbow **ASSAY REPORT**

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow K-9 HAK	2.5	NF
G-12 AEF	.6	NF
G-13	1.4	NF
G-14	.8	NF

Date September 27, 1967 Double Rainbow **ASSAY REPORT**

9-26	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo G-15	CEE	.17	NF

Date September 29, 1967 Double Rainbow **ASSAY REPORT**

9-26		SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G-16	AEF	.18	NF
	G-17	CEE	.16	NF

Date September 30, 1967 Double Rainbow **ASSAY REPORT**

9-28		SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo	G - 18	AEF	.32	NF
	G - 19 - R		.14	NF
	G - 20 - L		2.42	NF

Date October 5, 1967 Double Rainbow **ASSAY REPORT**

		SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow	G-21		Tr	NF
HAK	G-22		2.6	NF
CEW	G-28		.2	NF
	G-31		1.4	NF

REPORT OF ANALYSIS

SAMPLE OF

DOUBLE RAINBOW ORES

RECEIVED FROM Geology Dept. ON

Sample No.	% Pb	% Zn
G-1	0.36	0.21
G-2	0.42	0.37
G-3	0.55	0.38
G-4	0.78	0.39
G-5	0.83	0.55
G-6	0.54	0.68
G-7	0.72	0.38
G-8	0.80	0.64
G-9	0.28	0.69
G-10	0.80	0.87
G-11	0.43	0.58

DATE Oct. 4, 1967 ANALYST W.H. Taylor

(OME-6558 (Silver)
(Contract No. 2233)

DOUBLE RAINBOW PROJECT

Diamond Drill Log

Hole No. 7U (8486A). Completed Sept. 5, 1967. Log by J. M. W.

Location: S. 772.60, W. 195.81. Drilled from Richmond level.

Collar elevation: 4924.85. Vertical angle - 90°.

Cored 0' -445' Recovery 100%

Depth	Lithology
0- 4	Light brown medium grained quartzite.
4- 7	Greenish gray glauconitic sandstone with fine grained pyrite. 5-6 calcite lenses.
7- 17	Rusty brown sandy dolomite, with abundant brown iron oxide.
17- 19	Gray Green glauconitic sandy dolomite. 17-17.5 is poorly cemented with abundant iron oxide.
19- 21	Brown sandy dolomite with abundant brown iron oxide.
21- 24	Brown sandy dolomite with abundant gray shale partings.
24- 32	Brown medium grained quartzite.
32- 41	Alternating quartzite and brown calcareous shale.
41- 42	Gray green glauconitic sandstone.
42- 44	Altered light gray green feldspar porphyry. Moderate kaolin alteration and fine grained pyrite.
44- 46	Gray green glauconitic sandstone.
46- 48	Dirty brown argillaceous limestone.
48- 52	Brown sandy dolomite.
52- 62	Dirty brown shaley limestone with some sandy dolomite lenses.
62- 66	Gray green glauconitic sandstone with thin dolomite beds.
66- 73	Dirty brown shaley limestone with some sandy dolomite lenses and scattered glauconite.
73- 78	Brown quartzite with scattered glauconite and well mineralized with vuggy manganese.
78- 87	Dirty brown sandy limestone.
87- 95	Gray flat pebble conglomerate in brown sandy limestone; bands of dirty brown sandy limestone and thin gray green shale lenses.
95- 97	Gray green glauconitic dolomitic sandstone.
97-105	Gray green glauconitic sandy dolomite.
105-107	Light gray feldspar porphyry with moderate kaolin alteration and well brecciated at base.
107-113	Light gray to gray green sandy glauconitic dolomitic limestone with thin gray shale partings.
113-133	Light gray to gray green sandy glauconitic dolomite with scattered white to light gray flat limestone pebbles. Thin beds of limestone and gray shale partings.
133-141	Gray feldspar porphyry with 20% white feldspar phenocrysts 0.1 to 0.2" long, less-than 0.1" wide.

Hole No. 7U (8486A) (continued)

Depth	Lithology
141-170	Gray glauconitic sandy calcareous dolomite with scattered gray shale partings, increasing between 142-144, 149-150, and 159-160. Also thin bands of light gray dolomitic limestone and scattered flat pebble limestone conglomerates with abundance from 144-145.
170-204	Feldspar porphyry. Fine grained gray matrix with 50% large gray white to white feldspar phenocrysts, strongly altered to kaolin and very fine grained pyrite mineralization throughout. Fluorite mineralization near upper and lower contact. Feldspar phenocrysts are blocky averaging 0.2" and up to 1.0". 203-204 is brecciated with a fine grained feldspar porphyry at the base with a 2.0" width.
204-237	Gray thin bedded shale which efferveses weakly with strong acid. Scattered flat limestone pebbles throughout, with local flat pebble conglomerates between 212-213; pebbles stained pink to red on edges to all the way through: 217-223 1' beds of flat pebble conglomerates, separated by 1' beds of shale; pebbles white to gray white, with occasional pink to red staining.
237-247	Gray white beds of limestone with abundant flat limestone pebble conglomerates. Some pink stained pebbles. 2-3" gray shale partings.
247-260	Gray shale which efferveses weakly with strong acid. Scattered flat limestone pebbles. 257-258 has abundant green glauconite.
260-264	Light gray calcareous dolomite with abundant flat limestone pebble conglomerates. Abundant red iron oxide and red lined fossils. (?)
264-266	Gray thin bedded shale with 4" bed of gray limestone at base.
266-294	Alternating zones of gray white to light pink feldspar porphyry. 20-40% feldspar phenocrysts and less-than 1% light gray green ferromagnesium phenocrysts. Slight kaolin alteration and very fine grained pyrite mineralization.
294-297	Dark gray thin bedded shale. Scattered thin beds of glauconitic limestone.
299-320	Thin bedded dark gray shale.
320-332	Gray shaley dolomite with abundant gray white to white flat limestone pebbles and scattered shale partings. 329' glauconite altered to iron oxide.
332-371	Gray ferromagnesium rich feldspar porphyry. Gray white feldspar phenocrysts 10-25%, 0.1-0.3" long and stubby. 20% gray green ferromagnesium phenocrysts, which average 0.1-0.2" and up to 0.6" long. Fine grained gray matrix with scattered fine grained pyrite.
371-395	Gray white feldspar porphyry with 30-35% stubby white feldspar phenocrysts, 0.1-0.5" long. Gray white matrix with ferromagnesium phenocrysts less-than 1%. Abundant fine grained pyrite mineralization and kaolin alteration on edges of feldspar phenocrysts.

Hole No. 7U (8486A) (continued)

Depth	Lithology
395-412	Gray to reddish gray calcareous dolomite with thin white limestone beds. Red iron oxide alteration.
412-420	Gray to gray green ferromagnesium rich feldspar porphyry. Feldspar phenocrysts 0.1-0.5", 20%; ferromagnesium phenocrysts 0.1-0.3, 20%. Fine grained gray matrix with kaolin alteration at base.
420-429	Gray glauconitic sandy coarse grained dolomite with very thin shale partings.
429-445	Gray quartzite with abundant pyrite mineralization.

(OME-6558 (Silver))
(Contract No. 2233)

Date August 25, 1967 Double Rainbow XX

ASSAY REPORT

	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Double Rnbo 8486 A	0 - 4	JMW	.2	None Found
	4 - 7		.16	NF
	73 - 78		.24	NF

Split core samples

GO 94

(OME-6558 (Silver))
(Contract No. 2233)

Date September 6, 1967 Double Rainbow **ASSAY REPORT**

Sludge	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbow #8486 A	300 - 305	*NF	NF
JMW	305 - 310	NF	NF
	310 - 315	NF	NF
Sludge Samples	315 - 320	NF	NF
	320 - 325	NF	NF
	325 - 330	NF	NF
	330 - 335	NF	tr
	335 - 340	NF	tr
	340 - 345	NF	NF
	345 - 350	NF	NF
	350 - 355	NF	NF
	355 - 360	NF	NF
	360 - 365	NF	NF
	365 - 370	NF	NF
	370 - 375	NF	NF
	375 - 380	NF	tr
	380 - 385	NF	NF
	385 - 390	NF	NF
	390 - 395	NF	NF
	400 - 405	NF	NF
	405 - 410	NF	NF
	410 - 415	NF	NF
	415 - 420	NF	NF
	420 - 425	NF	NF

*None Found

GO 94

(OME-6558 (Silver))
(Contract No. 2233)

Date September 7, 1967 Double Rainbow

ASSAY REPORT

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbow Sludge	425 - 430	* NF	NF
JMW 8486 A	430 - 435	1.2	.80
	435 - 440	.3	NF
	440 - 445	.2	NF
Dbl Rnbow 8486A	170 - 175	NF	NF
XX JMW	420 - 425	NF	NF
	425 - 429	NF	NF
Split core samples	429 - 435	.9	NF
	435 - 440	NF	NF
	440 - 445	NF	NF

*None Found

GO 94

MMS FORM 60
SEPT. 1959

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UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME - 6558
Contract No. 2233
14-23-090-
Contract Amount $312,180.00
Gov't. Participation %75 $ 234,135.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of August 1967

Operator's Name Double Rainbow Mines, Inc.
Address 2251 Virginia Street, Berkeley, California 94709

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and (1) Independent Contracts:						
Shaft Sinking @ $220.00	18,480.00	12,320.00	30,800.00			
~~Bulldozing~~						
Drifting						
Rock Bolts @ $3.00	2,928.00	0	2,928.00			
~~Groceouting~~						
Underground AX @ $3.38	1,132.30	1,409.46	2,541.76	0		
~~Drilling~~						
Surface BX @ $6.50	0	10,218.00	10,218.00			
Surface BX @ $6.00	0	2,766.00	2,766.00			
(2) Personal Services:						
Supervision & Technical						
Outside Consultants	0	173.05	173.05			
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
Consultant's per diem	0	20.00	20.00			
Consultant's travel expense	0	22.32	22.32			
TOTALS	22,540.30	26,928.83	49,469.13	21,408.00		

I certify that the above bill is correct and just and that payment therefor has not been received.

Date Sept 15, 1967 *Payee Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 16,056.00 14X0804

Signature [illegible]
(Authorized Certifying Officer)

Date OCT 4 1967 Vou. No. 82672

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2233

Signature J. William Hasler Title Field Officer Date 9/18/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 9/18/67

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of August 1967 Docket No. OME-6558

Operator's Name Double Rainbow Mines, Inc. Contract No. 14-23-090- 2233

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting							
Crosscutting							
Raising							
Shafts @ $220.00	Ft.	84	140	30,800.00	84	140	30,800.00
Winzes Rock Bolts @$3.00	Each	976	976	2,928.00	976	976	2,928.00
Other Underground							
Underground AX @ $3.38 Drilling, Core-Diamond	Ft.	335	752	2,541.76	0	417	1409.46 (1)
Surface BX @ $6.50 Rotary	Ft.	0	1,572	10,218.00	0	1,572	10,218.00
Surface BX @ $6.00 Drilling, Non-core-Diamond	Ft.	0	461	2,766.00	0	461	2,766.00
Rotary							
Churn							
Percussion							
Miscellaneous							
Outside Consultant	Day	0	2¼	215.37	0	2¼	210.32
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE *(per MME Form 60)*				49,469.13			48331.76

REMARKS

(Continue on back)

REMARKS

(1) Disallow $1132.30 pending completion of DD Hole 70. May be reclaimed when hole is completed.

H. Kirkham

(Continue on back)

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date Sept 15 1967 Operator Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Officer
Government Representative

Date September 18 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

INT.DUP.,D.C.59- 27168

82672

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Double Rainbow Mines, Inc.
2251 Virginia Street
Berkeley, California 94709

Amount Claimed:	Differences (Explained Below)	Amount Approved
$22,540.30	$1,132.30	$21,408.00 $16,056.00 Government Participation
Bu. Voucher No.	Payee's Invoice No.	Period
	Docket # 6558 Contract # 2233	August 1967

EXPLANATION

Disallowed 335' Underground AX O 83.38 ft. Pending completion of DD Hole 7U. May be reclaimed when is completed. $1,132.30

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

J. D. McAlister
Branch of Budget and Finance

EDWARD L. TULLIS
Consulting Geologist
223 ST. CHARLES STREET
RAPID CITY, SOUTH DAKOTA 57701
PHONE 605/342-3733

OME Region III
RECEIVED
SEP 18 1967
Denver, Colorado

September 15, 1967

Mr. J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration
U.S. Department of the Interior
Geological Survey
Federal Center
Denver, Colorado 80225

Dear Mr. Hasler:

Subject: OME-6558 (Silver)
Double Rainbow Mines, Inc.
Double Rainbow Mine
Lawrence County, South Dakota
Contract 2233

Enclosed are the original and four copies of the Double Rainbow report for August, 1967. Each report consists of the following parts:

1 page - MME Form 60
1 page - MME Form 61
1 page - Operator's Narrative Report.

Before commencing the OME development work on the upper contact, time is being taken to insulate water pipes, improve the main haulage roads and otherwise prepare for winter.

This month it is planned to start about 80 feet of drift east of the main haulageway to provide access to the starting point of Slusher Drift Number I. This access drift is unscheduled and will not be billed to OME. It was decided that it is more practical to make a new access rather than attempt to re-open the McClellan Tunnel.

Sincerely yours,

Edward L. Tullis

Edward L. Tullis

ELT:ek
Enclosures

OPERATOR'S NARRATIVE REPORT - AUGUST 1967

OME - 6558 (SILVER)
DOUBLE RAINBOW MINES, INC.
DOUBLE RAINBOW MINE
LAWRENCE COUNTY, SOUTH DAKOTA
CONTRACT NO. 2233

UNDERGROUND DIAMOND DRILLING

Diamond drill hole 7U reached a depth of 335 feet at the end of August. Since this hole is still incomplete, the drill log and assay results will be submitted with the September report.

SHAFT SINKING

Total shaft depth is 172½ feet, of which 140 feet are timbered and completed. On August 9 the crews drilled into a water-bearing zone at a depth of 121 feet. The water-bearing zone is about 10 feet thick, and is associated with the contact between the shale and the underlying feldspar porphyry sill. A ring dam was installed at 133 feet on August 31, and is successfully controlling the water flow, which measures 28 gallons per minute.

UPPER CONTACT WORK

Enlargement of the Richmond drift advanced 300 feet during the month, for a total advance to date of 1,231 feet. Approximately 50 feet of drift remain to be enlarged to finish repairs to the trunk haulage system.

All of the proposed underground diamond drill chambers were prepared during August.

H. A. Kelly
Project Engineer

HAK/g

Orig. & 4 copies - OME

MME FORM 60
SEPT. 1959

OFFICIAL COPY U. S. M. E. RECEIVED SEP 1 1967 INITIALS CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

MME Region III RECEIVED AUG 14 1967 Denver, Colorado

Docket No. OME - 6558
Contract No. 2233
Contract Amount $312,180.00
Gov't. Participation % 75 $ 234,135.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER For Month of July 1967

Operator's Name Double Rainbow Mines, Inc.
Address 2251 Virginia St., Berkeley, California 94709

COST CATEGORIES	FOR OPERATOR'S USE			FOR GOVERNMENT APPROVAL ONLY		
	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Shaft Sinking Bulldozing	7,920.00	4,400.00	12,320.00			
Drifting						
Crosscutting						
Underground AX @ $3.38 Drifting	0	1,409.46	1,409.46			
Surface BX @ $6.50	0	10,218.00	10,218.00			
Surface BX @ $6.00	0	2,766.00	2,766.00			
(2) Personal Services:						
Supervision & Technical						
Outside Consultants	0	173.05	173.05			
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
Consultant's per diem	0	20.00	20.00			
Consultant's travel expense	0	22.32	22.32			
TOTALS	7,920.00	19,008.83	26,928.83			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date August 11, 1967 * Payee Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 5,940.00 14X0804

Signature John
(Authorized Certifying Officer)

Date AUG 30 1967 Vou. No. 81810

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2233

Signature J. William Hasler Title Field Officer Date 8/14/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 8/14/67

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

INT.DUP., D.C.69 639694

MME FORM 61
SEPT. 1959

HK 8/17/67

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of July 1967 Docket No. OME-6558

Operator's Name Double Rainbow Mines, Inc. Contract No. 14-23-090-2233

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting							
Crosscutting							
Raising							
Shafts	Ft.	36	56	12,320.00	36	56	12,320.00
Winzes							
Other Underground							
Underground AX @ $3.38 Drilling, Core-Diamond	Ft.	0	417	1,409.46	0	417	1,409.46
Surface BX @ $6.50 Rotary	Ft.	0	1,572	10,218.00	0	1,572	10,218.00
Surface BX @ $6.00 Drilling, Non-core-Diamond	Ft.	0	461	2,766.00	0	461	2,766.00
Rotary							
Churn							
Percussion							
Miscellaneous							
Outside Consultant	Day	0	2¼	215.37	0	2¼	215.37
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE *(per MME Form 60)*				26,928.83			26,923.78

REMARKS

(Continue on back)

REMARKS

(Continue on back)

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date August 11, 1967 Operator Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Office
Government Representative

Date August 14 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

BUDGET & FINANCE
AUG 18 3 44 PM '67
SURVEY
63969 4

INT.DUP. D.C.59- 27168

Office of Minerals Exploration

August 14, 1967

Dr. Edward L. Tullis
223 Saint Charles Street
Rapid City, South Dakota 57701

Subject: OME-6558 (Silver)
Double Rainbow Mines, Inc.
Double Rainbow Mine
Lawrence County, South Dakota
Contract 2233

Dear Dr. Tullis:

Your inquiry and the July vouchers on the above-stated subject arrived this morning. Regarding the state service tax in connection with your chinery, please find a copy of a letter of July 28, 1967 from Mr. Frank Johnson, Chief, Office of Minerals Exploration to Mr. Richard W. Barton which we believe is self-explanatory.

Your July vouchers are being forwarded to Washington this afternoon and you should be hearing from them in the near future.

Sincerely yours,

J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration

Enclosure

cc: Chief, OME
Hasler chron
OME chron
2233

Copy sent Washington
8-14-67

EDWARD L. TULLIS
Consulting Geologist
223 ST. CHARLES STREET
RAPID CITY, SOUTH DAKOTA 57701
PHONE 605/342-3733

August 11, 1967

OME Region III
RECEIVED
AUG 14 1967
Denver, Colorado

Mr. J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration, Geological Survey
Federal Center
Denver, Colorado 80225

Dear Bill:

Has anything been decided about the 3% South Dakota service tax that I have been charging?

I forgot to turn in my July time to Homestake early this month so I will send it to Homestake along with my August time early in September.

Sincerely yours,

Edward L. Tullis

ELT:ek

Copy sent to Geochrylon 8-14-67

EDWARD L. TULLIS
Consulting Geologist
223 ST. CHARLES STREET
RAPID CITY, SOUTH DAKOTA 57701
PHONE 605/342-3733

August 11, 1967

Mr. J. William Hasler,
Field Officer, Region III
Office of Minerals Exploration, Geological Survey
Federal Center
Denver, Colorado 80225

Dear Mr. Hasler:

Enclosed are five copies of the report on Double Rainbow Mines, Inc. exploration program for July, 1967.

Each report consists of three parts:

1 page	- MME Form 60
1 page	- MME Form 61
1 page	- Operator's Narrative Report

It is hoped that all of the underground diamond drilling sites will be prepared by August 31, with the intention of resuming diamond drilling in September. It is expected that the shaft will be finished about the end of September so that the results of the diamond drilling will be available before the lower contact drift nears the tentative target area.

Sincerely yours,

Edward L. Tullis

Edward L. Tullis

ELT:ek
Enclosures (5)

OPERATOR'S NARRATIVE REPORT - JULY 1967

OME - 6558 (SILVER)
DOUBLE RAINBOW MINES, INC.
DOUBLE RAINBOW MINE
LAWRENCE COUNTY, SOUTH DAKOTA
CONTRACT NO. 2233

UNDERGROUND DIAMOND DRILLING

No diamond drill work was done in July, so no sections or maps are included with the report.

SHAFT SINKING

Headframe and dump construction was finished, and sinking operations resumed on July 20, using conventional sinking equipment. The shaft bottom reached 87½ feet at the end of July, of which 56 feet are timbered and completed. The average advance in July was 3.6 feet per day. This rate is expected to improve as the crews develop a work routine and become familiar with the equipment.

Water flow into the shaft has increased slightly with depth, but has not presented a serious problem to date.

UPPER CONTACT DRIFT REHABILITATION

Enlargement of the Richmond Drift advanced 801 feet during July, for a total advance to date of 931 feet. Repair work has now progressed sufficiently to allow crews to commence the preparation of underground diamond drill chambers in August.

H. A. Kelly
Project Engineer

HAK/g

Orig. & 4 copies - OME

Certification by Government Representative:

I certify that, to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2233

Signature J. William Hasler Title Field Officer Date July 20, 1967

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date July 20, 1967

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

MME FORM 60
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME-6558
Contract No.
14-23-090-2233
Contract Amount $312,180.00
Gov't. Participation % 75 $234,135.00
Mineral(s) Silver

OFFICIAL COPY S. M. E. RECEIVED AUG 16 1967 INITIALS CODE 210

OPERATOR'S MONTHLY VOUCHER

For Month of June, 1967

Operator's Name Double Rainbow Mines, Inc.
Address 2251 Virginia Street, Berkeley, California, 94709

COST CATEGORIES	FOR OPERATOR'S USE: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	FOR GOVERNMENT APPROVAL ONLY: MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Shaft Sinking	4,400.00	0	4,400.00			
~~Bulldozing~~						
Drifting						
Crosscutting						
Underground AX @ $3.38 Drilling	1,409.46	0	1,409.46			
Surface BX @ $6.50	0	10,218.00	10,218.00			
Surface BX @ $6.00	0	2,766.00	2,766.00			
(2) Personal Services:						
Supervision & Technical						
Outside Consultants	18.54	154.51	173.05			
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
Consultant's per diem	0	20.00	20.00			
Consultant's travel expense	0	22.32	22.32			
TOTALS	5,828.00	13,180.83	19,008.83			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date July 12, 1967 *Payee Double Rainbow Mines, Inc.

Per Edward L. Trelis Title Agent

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 4,370.60 14X0804

Signature Jdm
(Authorized Certifying Officer)

Date AUG 7 1967 Vou. No. 81068

(SEE OTHER SIDE)

MME FORM 61
SEPT. 1959

HK 7/27/67

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of June, 1967 Docket No. OME-6558

Operator's Name Double Rainbow Mines, Inc. Contract No. 14-23-090-2233

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting							
Crosscutting							
Raising							
Shafts	Ft.	20	20	4,400.00	20	20	4,400.00
Winzes							
Other Underground							
Underground AX @$3.38 Drilling, Core-Diamond	Ft.	417	417	1,409.46	417 (HK) ~~454~~	417 (HK) ~~754~~	1,409.46 HK ~~1,537.90~~
Surface BX @ $6.50	Ft.	0	1572	10,218.00	0	1572	10,218.00
Surface BX @ $6.00 Drilling, Non-core-Diamond	Ft.	0	461	2,766.00	0	461	2,766.00
Rotary							
Churn							
Percussion							
Miscellaneous							
Outside Consultant	Day	¼	2¼	215.37	½	2¼	210.32 1)
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE (per MME Form 60)				19,008.83			(HK) ~~$19,003.78~~ ~~19,132.22~~

REMARKS

(Continue on back)

REMARKS

(HK) Footage and costs claimed were 417' and $1,409.46. Total costs corrected accordingly. Ed. Kirkemo 7/27/67

1) Deduction $0.54 S.D. State Service Tax

(Continue on back)

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date July 12, 1967 Operator Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Officer
Government Representative

Date July 20, 1967

(INSTRUCTIONS ON REVERSE)

REMARKS (Cont.)

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

INT.DUP.,D.C.59- 27162

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Double Rainbow Mines, Inc.
2251 Virginia Street
Berkeley, California 94709

Amount Claimed:	Differences (Explained Below)	Amount Approved
$5,828.00	.54¢	$5,827.46 $4,370.60 Govt. Participation
See Voucher No.	Payee's Invoice No.	Period
	Docket # 6558 Contract # 2233	June 1967

EXPLANATION

Disallowed $ .54 South Dakota State Service tax (Consulting Geologist), not included in contract, possible amendment pending to allow payment.

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

J. D. McAlister
Branch of Budget and Finance

OPERATOR'S NARRATIVE REPORT - JUNE 1967

OME - 6558 (SILVER)
DOUBLE RAINBOW MINES, INC.
DOUBLE RAINBOW MINE
LAWRENCE COUNTY, SOUTH DAKOTA
CONTRACT NO. 2233

UNDERGROUND DIAMOND DRILLING

Diamond drill hole 1U was completed at a depth of 417 feet. The interval between the floor of the upper contact and the top of the sill below the lower contact was 402 feet, which was somewhat greater than expected due to the intrusion of feldspar porphyry sills.

A little galena was noted at 368 feet, but the assay showed only a trace of silver, 0.06% lead, and 0.31% zinc in a four-foot sample.

No sections or maps are included with this month's report, since no significant changes were indicated from the results of drill hole 1U.

SHAFT SINKING

The shaft has been extended to a depth of 58½ feet, utilizing surface construction equipment. The collar bearing beams were installed, and 20 feet of shaft timber was placed. Sinking operations are halted temporarily to convert to conventional sinking equipment.

Erection of a steel headframe is approximately 50% complete. The permanent hoist and air compressor have been installed and enclosed in a building of steel construction. Shaft sinking is expected to resume about the middle of July.

UPPER CONTACT DRIFT REHABILITATION

Repair work in the Richmond drift advanced 94 feet during June, making a total advance to date of 130 feet. Work was delayed by a rock slide above the portal, which was caused by heavy rainfall. The slide buried and damaged the portal timber, and 10 working days were lost in cleanup and repair work in the portal.

H A Kelly

H. A. Kelly
Project Engineer

HAK/g

Orig. & 4 copies - OME

Al. Kelly

EDWARD L. TULLIS
Consulting Geologist
223 St. Charles Street
Rapid City, South Dakota
57701

S T A T E M E N T

Double Rainbow Mines, Inc. June 22, 1967

June, 1967 Professional Services in office, 2 hours @ $9.00 an hour.....$18.00

S.D. State Service tax @ 3%..... .54

TOTAL.....$18.54

(OME-6558 (Silver))
(Contract No. 2233)

DOUBLE RAINBOW PROJECT

Diamond Drill Log

Hole No. IU (8378B). Completed June 8, 1967. Log by G. C. M.

Location: S. 105.58, W. 282.29. Drilled from surface at west side of stope.
(Do not bill OME for 37' above floor of Upper Contact.)

Collar elevation: 4990.85. Vertical angle -90°.

Cored 11'-454' Recovery 437/443 or 98.6%

Depth (Referred to Upper Contact)	Depth	Lithology
	0- 11	Cased.
	11- 19	Brown calcareous dolomite with thin shale beds.
Upper Contact	19- 37	Buff to yellow calcareous dolomite. Few manganese stained fractures. Some limonite.
0-29	37- 66	Gray to brown sandstone with white calcite cement. Glauconite at 54'. (17)
29-32	66- 69	Dark red-brown sandstone.
32-49	69- 86	Brown sandstone with calcite cement. Little manganese at 69-76. (32-39)
49-56	86- 93	Gray to buff sandstone with calcite cement.
56-60	93- 97	Feldspar porphyry. Few small, altered, feldspar and ferromagnesian phenocrysts.
60-66	97-103	Gray to buff sandstone with calcite cement.
66-81	103-118	Gray sandy dolomite. Part buff. Some limestone bands and spots. Thin calcite-filled fractures. Clay at 118'. (81)
81-91	118-128	Coarse grained gray to brown sandy calcareous dolomite.
91-114	128-151	Fine grained light gray to buff sandy calareous dolomite. Few olive shale beds.
114-134	151-171	Gray to buff calcareous dolomite with limestone pebbles. Few thin gray shale beds. Manganese at 171'. (134)
134-140	171-177	Feldspar porphyry. Gray with 30% altered Kaolin feldspar phenocrysts to 0.2". Limonite stained fractures.
140-147	177-184	Interbedded light gray dolomite and dark gray shale.
147-149	184-186	Dark gray shale.
149-153	186-190	Brown limonite-stained sandstone with clay gouge filled fractures.
153-170	190-207	Gray dolomite with thin dark shale beds. Thin limonite stained fracture zones at 197 (160) and 201. (164)
170-177	207-214	Feldspar porphyry. Light gray to brown. Highly fractured. Some limonite stain. 25% kaolinized feldspar phenocrysts.
177-182	214-219	Interbedded gray-green dolomite and dark gray shale.
182-195	219-232	Dark gray shale with few gray-green dolomite beds. Thin limonite stained fractures.
195-211	232-248	Dark gray shale with 20% white limestone pebbles. Gray to pink pebble conglomerate at 234-235 (197-198) and at 246-247. (209-210)
211-221	248-258	Dark gray shale with 10% white limestone pebbles.
221-244	258-281	Dark gray shale with 30% white limestone pebbles.
244-248	281-285	White to gray and pink calcareous dolomite.
248-257	285-294	Dark gray shale.

Hole No. IU (8378B) (continued)

	Depth	Lithology
(257-260)	294-297	Glauconitic dolomite.
(260-271)	297-308	Dark gray shale.
(271-337)	308-374	Feldspar porphyry. 50% gray to pink fresh feldspar phenocrysts to 0.5" size. Few narrow fractures with a little kaolin at 334-336. (297-299) Pyrite noted in fracture at 354. (317)
(337-347)	374-384	Dark gray shale with gray dolomite at 378-379. (341-342)
(347-367)	384-404	Interbedded gray shale and dolomite with some limestone pebbles. Reddish dolomite at 394. (357)
(367-375)	404-412	Dark gray altered vuggy dolomite. 1% fine grain disseminated pyrite. Galena noted at 405'. (368)
(375-383)	412-420	Gray to pink dolomite. Thin shale partings. Pyrite noted.
(383-402)	420-439	Gray quartzite. Less than 1% fine grain disseminated pyrite. Few narrow pyrite coated fractures.
(402-417)	439-454	Feldspar porphyry. 30% kaolinized feldspar phenocrysts to 0.1" size. Abundant vertical fractures with kaolin. Less than 1% fine grain disseminated pyrite.

END

(OME-6558 (Silver))
(Contract No. 2233)

Assay Form No. 9

Double Rainbow

Date June 10, 1967 XX Cores

ASSAY REPORT

	SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
DBl Rnbw D D 8378 B	404 - 408	367-371	Trace	NF
XX ALS	408 - 412	371-375	Tr	NF
	412 - 416	375-379	Tr	NF
	416 - 420	379-383	None Found	NF
	420 - 424	383-387	NF	NF
	424 - 428	387-391	NF	NF
	428 - 432	391-395	Trace	NF

GO 94

(OME-6558 (Silver))
(Contract No. 2233)

ASSAY FORM 8

G089

REPORT OF ANALYSIS

SAMPLE OF

DOUBLE RAINBOW ORE
8378 B XX

RECEIVED FROM _____ ON _____

Depth Referred to Upper Contact	% Pb	% Zn
404 - 408 (367-371)	0.060	0.310
408 - 412 (371-375)	0.027	0.108
412 - 416 (375-379)	0.007	0.015
428 - 432 (391-395)	0.021	0.097

DATE 6/14/67 ANALYST W.H. Taylor

FORM 60
SEP 1, 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OFFICIAL COPY
M. E.
JUN 12 1967
INITIAL CODE

Docket No. OME-6558
Contract No.
14-23-090- 2233
Contract Amount $312,180.00
Gov't. Participation % 75 $234,135.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER

For Month of May 1967

Operator's Name Double Rainbow Mines, Inc.
Address 2251 Virginia St., Berkeley, California 94709

COST CATEGORIES	FOR OPERATOR'S USE			FOR GOVERNMENT APPROVAL ONLY		
	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing						
Drifting						
Crosscutting						
Surface Drilling BX @ $6.50/ft.	4,361.50	5,856.50	10,218.00			
BX @ $6.00/ft.	0	2,766.00	2,766.00			
(2) Personal Services:						
Supervision & Technical						
Outside Consultants	115.88	38.63	154.51			
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
Consultant's per diem	16.00	4.00	20.00			
Consultant's travel expense	11.52	10.80	22.32			
TOTALS	4,504.90	8,675.93	13,180.83			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date June 12, 1967 *Payee Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ 3,376.14 14X0804

Signature John
(Authorized Certifying Officer)

Date JUN 26 1967 Vou. No. 10051

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that, to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2233

Signature J. William Hasler Title Field Officer Date June 14, 1967

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date June 14, 1967

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

JUN 27 1968 9:14 AM '68
INT. DOC. 9 6 6 8 9

MME FORM 61
SEPT. 1959

HK 6/21/67

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of May 1967 Docket No. OME-6558

Operator's Name Double Rainbow Mines, Inc. Contract No. 14-23-090-2233

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting							
Crosscutting							
Raising							
Shafts							
Winzes							
Other Underground							
Surface BX @ $6.50/ft. Drilling, Core-Diamond	ft.	671	1,572	10,218.00	671	1,572	10,218.00
BX @ $6.00/ft. Rotary	ft.	0	461	2,766.00	0	461	2,766.00
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous							
Outside Consultant	Day	1½	2	196.83	1½	2	192.32
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE (per MME Form 60)				13,180.83			13,176.32

REMARKS

(Continue on back)

REMARKS Suspended $3.38, S.D. State Sales Tax, consulting geologist. Possible amendment pending.

(Continue on back)

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date June 12, 1967 Operator Double Rainbow Mines, Inc.

Per Edward L. Tuller Title Agent

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Thaler

Title Field Office Government Representative

Date June 14, 1967

(INSTRUCTIONS ON REVERSE)

REMARKS *(Cont.)*

REMARKS *(Cont.)*

INSTRUCTIONS FOR PREPARING OPERATOR'S PROGRESS REPORT, MME FORM 61

This report is the second of the three parts of the Operator's Monthly Report. Submit the original and four copies.

The cost for each operation should be the total of all claimed costs attributable to that type of work with two exceptions, namely—operating equipment purchased and analytical work which are stated separately. For example, drifting costs should be the total of all costs chargeable to drifting including supervision, technical services, timbering (if any), etc. Similarly, drilling costs should include the cost of cementing, reaming, core boxes, etc. This procedure of distribution holds whether the contract was written on an actual cost or a unit cost basis, or some combination of the two. Distribute the cost of such general items as supervision, equipment rented, etc. according to relative footages or on some other conventional basis. The item "Initial Rehabilitation and Repairs" covers all rehabilitation and/or repairs other than the rehabilitation of mine workings.

The item titled "Drilling, Non-core Percussion" includes all drilling performed with wagon, jack-hammer, stoper and mounted drills. The several items labelled "Other" are provided to take care of particular exploration operations not specified on this form.

JUN 22 7 58 AM '57

INT.DUP.,D.C.59- 27162

589956

OPERATOR'S NARRATIVE REPORT - MAY 1967

OME - 6558 (SILVER)
DOUBLE RAINBOW MINES, INC.
DOUBLE RAINBOW MINE
LAWRENCE COUNTY, SOUTH DAKOTA
CONTRACT NO. 2233

SURFACE DIAMOND DRILLING

Drilling ceased with the completion of the third hole at the end of April because of unfavorable weather. Drilling of the fourth surface hole, No. 1S, was resumed on May 19 and was finished in May. This hole is about 900 feet west of the Richmond workings. Total depth was 671 feet with 29 feet of Precambrian cored.

A three-foot sample of fractured quartzite, separated from the lower ore horizon by a thick porphyry sill, assayed 4.56 ozs. of silver, 1.04% lead, and 1.49% zinc. Pyrite and galena were noted in the core. Six and one-half feet of quartzite below this averaged 0.40 ozs. silver, 0.54% lead, and 0.59% zinc. Scattered galena, sphalerite and pyrite was noted in the feldspar porphyry below the quartzite over a distance of 60 feet. The best assay in the porphyry is 1.24 ozs. silver, 0.68% lead, and 3.56% zinc.

Total drilling in the four surface holes is 1,973 feet. This is 662 feet less than the allotted footage in the OME contract. Disappearance and thinning of the porphyry sills accounts for the decrease in footage.

SHAFT SINKING

A concrete shaft collar was constructed to a depth of 16 feet. The collar is effectively sealing out the majority of the alluvial water flow. Sinking operations have been resumed, and the shaft reached a depth of 25 feet at the end of May. Permanent hoisting and air compressor equipment is being installed, and work has commenced on the concrete foundations for the headframe.

UPPER CONTACT PORTAL REHABILITATION

The Richmond portal was enlarged and re-timbered for a distance of 36 feet through fractured and altered rock. The portal area is being secured in preparation for underground drift repair work in more competent rock.

No attempt was made to explore the mineralized rock west of the portal, which was uncovered in April.

H. A. Kelly
Project Engineer

HAK/g

Orig. & 4 copies - OME

EDWARD L. TULLIS
Consulting Geologist

223 St. Charles Street
Rapid City, South Dakota
57701

S T A T E M E N T

Double Rainbow Mines, Inc. May 29, 1967

May 24-25, 1967	Professional Services, 1-1/2 days	$112.50
	S. D. State Service tax @ 3%	3.38 delete
	Per diem, 7 p.m. 5-24 to 4:25 p.m. 5-25	16.00
	Mileage, 96 @ 12¢/mile	11.52
	TOTAL	$143.40

Edward L. Tullis

OK for Payment

RJD

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Double Rainbow Mines, Inc.
2251 Virginia St.
Berkeley, California 94709

Amount Claimed:	Differences (Explained Below)	Amount Approved
$4,504.90	$3.38	$4,501.52 $3,376.14 Government Participation
Bill Voucher No.	Payee's Invoice No.	Period
	Docket # 6558 Contract # 2233	May 1967

EXPLANATION

Disallowed $3.38 South Dakota State Service tax (Consulting Geologist), not included in contract, possible amendment pending to allow payment.

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

J. D. McAlister

Branch of Budget and Finance

Standard Form No. 65
November 1961
General Services Administration
FPMR (41 CFR) 101-11.6

U.S. Government Messenger Envelope

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[illegible] Rm 1520	STOP	Mr. J. H. Kilgard IGS-D Rm 4208 GSA Bldg	STOP
OFFICE OF INFORMATION ROOM: 7213 [illegible]	STOP	Kirkemo 4450 Int.	STOP
[illegible]	STOP		STOP
E. I. Malinhock Rm 1-16 GSA Bldg			STOP
Catherine Clark Rm 6240 GSA Bldg			STOP
	STOP		STOP
~~H. D. Gauer~~ ~~Rm 4238 GSA~~	STOP		STOP
~~Frank Himaldi~~ Navy Yard ~~Annex~~ Bldg 213	STOP		STOP
Arlene Berry 4221 GSA	STOP		STOP
Budget [illegible] 5408 [illegible]	STOP		STOP

Use other side

Use STOP only when messenger service between Government buildings in Washington, D.C., is required or wherever a STOP system is used. Your mail room has STOP information.

65-107

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2. Identify Agency of Addressee
3. Write Clearly
4. Send Surplus Envelopes to Supply Room for Reissue

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	STOP		STOP
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	STOP		STOP

Use other side first

☆ U. S. GOVERNMENT PRINTING OFFICE:1965—O-761-547

ORM 60
1959

OFFICIAL COPY
O. M. E.
RECEIVED
JUN 9 1967
INITIALS CODE 210

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. OME - 6558
Contract No.
14-23-090- 2233
Contract Amount $312,180.00
Gov't. Participation %75 $234,135.00
Mineral(s) Silver

OPERATOR'S MONTHLY VOUCHER For Month of April 1967

Operator's Name Double Rainbow Mines, Inc.
Address 2251 Virginia St., Berkeley, California 94709

COST CATEGORIES	FOR OPERATOR'S USE			FOR GOVERNMENT APPROVAL ONLY		
	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing						
Drifting						
Crosscutting						
Surface Drilling BX @ $6.50/ft.	$5856.50	0	$5,856.50			
BX @ $6.00/ft.	2766.00	0	2,766.00			
(2) Personal Services:						
Supervision & Technical						
Outside Consultants	38.63	0	38.63			
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
Consultant's per diem	4.00	0	4.00			
Consultant's travel expenses	10.80	0	10.80			
TOTALS	$8675.93	0	$8,675.93			

I certify that the above bill is correct and just and that payment therefor has not been received.

Date May 9, 1967 *Payee Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

False statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18,

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$6,506.10 14X0804

Signature JDM
(Authorized Certifying Officer)

Date JUN 8 1967 Vou. No. 95528

(SEE OTHER SIDE)

MME FORM 60
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

Docket No. _____
Contract No. 14-23-090-_____
Contract Amount $ _____
Gov't. Participation % _____ $ _____
Mineral(s) _____

OPERATOR'S MONTHLY VOUCHER

For Month of _____

Operator's Name _____
Address _____

COST CATEGORIES	FOR OPERATOR'S USE			FOR GOVERNMENT APPROVAL ONLY		
	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE	MONTHLY TOTAL	PREVIOUSLY REPORTED	TOTALS TO DATE
Fixed Unit Costs and						
(1) Independent Contracts:						
Bulldozing						
Drifting						
Crosscutting						
Drilling						
(2) Personal Services:						
Supervision & Technical						
Outside Consultants						
Labor						
(3) Operating Mat'l. & Supplies:						
Timber						
Explosives						
Pipe						
Rail						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehab. & Repairs:						
Buildings, Fixtures, etc.						
Operating Equipment						
(6) New Buildings, Fixtures, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Analytical Work						
Payroll Taxes						
Employee's Liability Ins.						
TOTALS						

I certify that the above bill is correct and just and that payment therefor has not been received.

Date _____ *Payee _____

Per _____ Title _____

* When a voucher is signed or receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary," or "Treasurer," as the case may be.

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18,

(INSTRUCTIONS ON REVERSE)

Pursuant to authority vested in me, I certify that this account is correct and proper for payment in the amount of:

$ _____

Signature _____
(Authorized Certifying Officer)

Date _____ Vou. No. _____

(SEE OTHER SIDE)

Certification by Government Representative:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating an exploration project in accordance with the terms of Contract No. 2233

Signature J. William Hasler Title Field Officer Date 5/16/67

Approved by OME Executive Officer or Alternate:

Signature J. William Hasler Title Field Officer Date 5/16/67

OPERATOR'S MONTHLY REPORT

The Operator, under an Office of Minerals Exploration contract, is required to report monthly to the Government. The report consists of three parts.

FIRST, the Operator's Monthly Voucher on MME Form 60 listing the project costs incurred and claimed by the Operator is the voucher basis for payment of the Government's share of the cost.

SECOND, the Operator's Progress Report on MME Form 61 is a statistical report of the units and cost of of work performed under the contract.

THIRD, the Operator's Narrative Report is a concise description of the work performed, results accomplished, and any unusual situations encountered, illustrated and supported by engineering-geological maps or sketches, drill hole logs, assay reports, etc., as pertinent.

The Operator submits the original and four copies of each of the three sections of this report to the OME regional Executive Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, MME FORM 60

After all applicable spaces are filled in, the Operator or his agent must sign the certification in the lower left corner. Categories (2) through (7) apply to "Actual Cost" contracts only.

Under "Fixed Unit Costs" and Category (1) report, (a) the total fixed unit costs of work performed under contract provisions for contribution by the Government on a basis of "fixed unit costs"; and (b) the claimed costs of work performed on a unit-price basis by independent contractors.

Under Category (2) include the claimed costs of all payrolled and invoiced supervisory, technical, and labor personnel, except the costs for services applicable to Categories (5) and (6).

Under Category (3) include the claimed costs of all project materials and supplies other than those used for work under Categories (5) and (6).

Under Category (4) report claimed rentals on equipment belonging to a third party, claimed payments or obligations for payments on the Operator's purchase of equipment, and claimed depreciation for the use of Operator-owned equipment.

Under Categories (5) and (6) include all claimed costs of labor, supervision, technical services, operating materials and supplies, and all other items used in (5) the initial rehabilitation and repairs of existing buildings, fixtures, installations (exclusive of mine workings), and operating equipment; and (6) the installation or construction of new buildings, fixtures, and fixed improvements (exclusive of mine workings). Do not report these costs under Categories (2), (3), (4), and (7).

Under Category (7) include all miscellaneous claimed costs such as repairs (other than initial) and maintenance of equipment, sampling and analysis, travel, communication, accounting, office expenses, and the Operator's share of payroll taxes and insurance.

Except for amounts claimed under "fixed unit costs" provisions of the contract, all costs claimed in this voucher must be supported by documentary evidence consisting of: (a) certified copies or transcripts of payrolls which list each employee, wage rate, period of employment, gross earnings, itemized deductions, and net earnings; (b) original or certified copies of invoices, statements of accounts, or purchase orders which indicate items of materials or services, quantities, unit prices, total charges, and payment terms; and (c) certified memoranda of the Operator for such items as depreciation of Operator-owned equipment, unemployment taxes, and employee's liability insurance. The certification may be stated thus, "Certified True Copy (or Transcript)", followed by the signature of the Operator or his agent. One copy of each document should accompany the original of this voucher.

The requirement for submitting documentary evidence of claimed costs may be waived by the OME regional Executive Officer if he determines that it is impracticable for an Operator to submit this material. In any case of waiver of this requirement an "on-site" audit by an OME auditor is mandatory prior to payment of the final Operator's Monthly Voucher.

OME FORM 61
SEPT. 1959

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION

OPERATOR'S PROGRESS REPORT For Month of April 1967 Docket No. OME - 6558

Operator's Name Double Rainbow Mines, Inc. Contract No. 14-23-090- 2233

OPERATION	UNITS	FOR OPERATOR'S USE: UNITS THIS MONTH	UNITS TO DATE	COSTS TO DATE	FOR GOVERNMENT USE: APPROVED UNITS THIS MONTH	APPROVED UNITS TO DATE	APPROVED COSTS TO DATE
Drifting							
Crosscutting							
Raising							
Shafts							
Winzes							
Other Underground							
Surface Drilling, Core-Diamond BX @ $6.50/ft.	Ft.	901	901	$5,856.50	901	901	5,856.50
Rotary BX @ $6.00/ft.	Ft.	461	461	2,766.00	461	461	2 766.00
Drilling, Non-core-Diamond							
Rotary							
Churn							
Percussion							
Miscellaneous							
Outside Consultant	Day	½	½	53.43	½ day	½ day	53.43 1/
Roads and Trails							
Stripping							
Trenching							
Test Pitting							
Other Surface Work							
Initial Rehabilitation and Repairs							
Rehabilitation of Mine Workings							
New Buildings, Fixtures, etc.							
Operating Equipment Purchases							
Analytical Work							
TOTAL TO DATE (per MME Form 60)				$8,675.93			8,675.93

REMARKS

(Continue on back)

REMARKS

1/ See memorandum dated May 31, 1967 to Chief, Budget & Finance from Chief, OME, regarding S. Dakota State Service Tax of 3% which totals 1.13 on this voucher.
H. Kirkemo
5/31/67

(Continue on back)

The undersigned company, and the official executing this certification on its behalf, hereby certify that the information contained in this report is correct and complete to the best of their knowledge and belief.

Date May 8, 1967 Operator Double Rainbow Mines, Inc.

Per Edward L. Tullis Title Agent

A willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction is a criminal offense. (U.S. Code, Title 18, Sec. 1001.)

I certify that the information above is complete and accurate to the best of my knowledge and belief.

Signature J. William Hasler

Title Field Officer
Government Representative

Date May 16, 1967

(INSTRUCTIONS ON REVERSE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
U. S. Geological Survey
Branch of Budget and Finance
Washington, D. C. 20242

ADMINISTRATIVE SUSPENSION STATEMENT

Name and Address of Payee: Double Rainbow Mines, Inc.
2251 Virginia St.
Berkeley, California 94709

Amount Claimed:	Differences (Explained Below)	Amount Approved
$8,675.93	$1.13	$8,674.80 $6,506.10 Government Participation
U. S. Voucher No.	Payee's Invoice No.	Period
	Docket # 6358 Contract # 2233	April 1967

EXPLANATION

Disallowed $1.13 South Dakota State Service Tax until clarification can be made.

Any reclaim for items deducted must be supported by the original of this statement and submitted to the office shown above.

J. D. McAlister
Branch of Budget and Finance

IN REPLY REFER TO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
FEDERAL CENTER DENVER COLORADO 80225

OPERATOR'S NARRATIVE REPORT - APRIL 1967

OME - 6558 (SILVER)
DOUBLE RAINBOW MINES, INC.
DOUBLE RAINBOW MINE
LAWRENCE COUNTY, SOUTH DAKOTA
CONTRACT NO. 2233

SURFACE DIAMOND DRILLING

Vertical BX holes 2S, 3S, and 4S were completed at depths of 461, 450, and 451 feet, respectively, at the locations shown on the attached map. Holes 3S and 4S were drilled into Precambrian rock without incident, and both core samples and sludge samples were retained from suspected ore horizons. Total loss of drill water circulation occurred at a depth of 50 feet in hole 2S. Bentonite was added in an unsuccessful attempt to seal the hole, while drilling proceeded to a depth of 110 feet. At this point 82 gallons of cement were poured into the hole and allowed to set for 40 hours. Approximately 75 gallons of the cement entered the rock formation at the 50-foot depth, but drill water circulation was not restored. A final attempt to seal the hole with sawdust and oatmeal also proved unsuccessful. Drilling was continued, and the hole was terminated below the lower contact.

The inablility to obtain sludge samples from the lower contact in hole 2S was not detrimental, since core recovery was 100% in the potential ore horizon, and no significant mineralization was noted in the core. Assay values from the split core were negligible.

The most evident mineralization was encountered in hole 4S in the Deadwood quartzite below the lower contact. Visible galena was noted in the core, and the highest assay values in this horizon were 0.202% Pb and 0.46 oz./ton Ag. Location map, drill hole logs, sections, and assay reports for the three completed holes are attached.

SHAFT SINKING

The shaft has been excavated to a depth of 23 feet and preparations are being made to form a concrete shaft collar with footings at the 16-foot level. Water flow in the shaft is estimated at five gallons per minute, which is emanating from the shaft walls about nine feet below ground level. The concrete collar is expected to seal out this source of water.

UPPER CONTACT PORTAL REHABILITATION

Excavation of overburden around the main portal uncovered a mineralized area adjacent to the portal on the west. The extent of this mineralization is unknown to date, but rock removed from this sector will be stockpiled. Assay reports on surface samples of this mineralized rock are attached.

H A Kelly

H. A. Kelly
Project Engineer

Orig. & 4 copies - OME

JWH

EDWARD L.TULLIS
Consulting Geologist

223 St. Charles Street
Rapid City, South Dakota
57701

STATEMENT

Double Rainbow Mines, Inc. April 30, 1967

April 6, 1967 Professional Services, ½ day	$37.50
S.D. State Service tax @ 3%	1.13
Perdiem, 6 hrs. @ $16/day	4.00
Mileage, 90 @ 12¢/mile	10.80
Total	$53.43

Edward L. Tullis

(OME-6558 (Silver))
(Contract No. 2233)

DOUBLE RAINBOW PROJECT

Diamond Drill Log

Hole No. 2S (8325B). Completed April 28, 1967. Log by G.C.M.

Location: S. 136.97', W. 956.06'. West of Richmond Shaft.

Collar elevation: 5083.73' Vertical angle -90°.

Cored 20'-461' Recovery 436/441

Depth	Lithology
0- 20	Cased. Half overburden and half soft bedrock.
20- 45	Tan to brown slightly sandy calcareous dolomite, olive tan shale 33-34. 0.1" calcite veinlets 24-26 and 40-44.
45- 47	Dark brown limy dolomite.
47- 50	Tan sandy calcareous dolomite. Few thin gray shale beds. Lost circulation at 50 feet.
50- 63	Tan to gray sandstone cemented with calcite.
63- 73	Dark brown vuggy sandstone with calcareous cement. 5 feet recovered.
73-108	Gray, tan, and brown sandstone with calcareous cement. 2" green glauconitic sandstone at 87' and 105'.
108-115	Feldspar porphyry. Gray to brown with 25° to altered white clayey feldspars. Size ranges to 0.1".
115-140	Brown to tan sandstone with calcareous cement. 8" gray shale between 121' & 122'. Gray and red oxide stained shale 123-124.
140-145	Dark brown sandstone with light gray limy spots.
145-150	Buff sandstone with limy cement.
150-154	Tan to brown sandy dolomite with limestone pebbles.
154-160	Gray to tan dolomite with limestone pebbles.
160-163	Buff sandy dolomite.
163-180	Light gray dolomite with white limestone pebbles, and irregular limestone beds.
180-195	Gray-green dolomite with white limestone beds and pebbles.
195-197	Gray dolomite with dark gray shale bands.
197-199	Light gray dolomitic limestone.
199-209	Feldspar porphyry. Gray, with 10% white altered feldspar phenocrysts about 0.1" size. A little green ferromagnesium content noted.
209-221	Gray-green dolomite with white limestone pebbles and thin limestone bands.
221-245	Gray-green calcareous dolomite with few narrow gray shale bands. Thickest shale 3" at 239'.
245-261	Dark gray shale with 20% light gray to pink limestone pebbles.
261-263	Gray to pink limestone conglomerate.
263-269	Dark gray shale with 10% limestone pebbles.
269-271	Gray limestone conglomerate, part dolomitic.
271-281	Dark gray shale with less than 10% light gray to white limestone pebbles.
281-305	Dark gray shale with 25% light gray, pink, and white limestone pebbles.
305-308	Gray to pink limestone.

Hole No. 2S (continued)

Depth	Lithology
308-332	Medium gray to dark gray shale. Hard calcareous shale at 319-321. Hard light gray pyritic shale at 331-332.
332-378	Feldspar porphyry. Gray, with 40% gray to pink 0.3" feldspar phenocrysts. Part altered and rounded. Less than 1% ferromagnesium content.
378-386	Gray shale.
386-407	Gray shale with 40% light gray to white limestone pebbles and gray dolomitic beds.
407-418	Gray dolomite with abundant white limestone pebbles and bands.
418-428	Gray dolomite. Vuggy at 424'.
428-446	Light gray quartzite. About 1% fine grained disseminated pyrite.
446-461	Feldspar porphyry. Gray-green with 25% gray stubby feldspar phenocrysts to 0.5". 10% green ferromagnesium(augite ?).

End

(OME-6558 (Silver))
(Contract No. 2233)

Date April 21, 1967 Double Rainbow Project ASSAY REPORT
Diamond Drill Sludge

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $40.67
Dbl. Rnbow DDH 2S (8325B)	20 - 25	.22	NF
	25 - 30	Trace	NF
	30 - 35	Trace	NF
	35 - 40	Trace	NF
	40 - 45	Trace	NF
	45 - 50	Trace	NF

GO 94

(OME-6558 (Silver))
(Contract No. 2233)

Assay Form No. 9

Double Rainbow Project

Date May 1, 1967 XX DD Cores ASSAY REPORT

SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rbo Proj - D D Cores 8325 B	20 - 25	NF	NF
GCM	40 - 45	NF	NF
	45 - 50	NF	NF
	418 - 423	NF	NF
	423 - 428	NF	NF
	428 - 432	NF	NF
	432 - 436	NF	NF
	436 - 441	NF	NF
	441 - 446	NF	NF

NF = None Found

GO 94

(OME-6558 (Silver))
(Contract No. 2233)

Assay Form No. 9

Double Rainbow Project

Date April 24, 1967 DD Hole Casing Cuttings ASSAY REPORT

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dble Rbo Proj Casing Hole 8325 B 0 - 5	NF	NF
5 - 10	NF	NF
10 - 15	NF	NF
15 - 20	NF	NF
NF = None Found		

CO 94

(OME-655[illegible] Silver)
(Contract No. 2233)

Assay Form No. 9

Date May 5, 1967 Double Rainbow Project XX

ASSAY REPORT

SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl. Rnbo Proj. D D 8325 B	50 - 55 GCM	Tr	N F
	55 - 59	.08	N F
	59 - 63	Tr	N F
	63 - 66	.06	N F
	71 - 73	.15	N F
	73 - 76	Tr	N F
	76 - 79	.06	N F

N F - None Found

GO 94

(CME-6558 (Silver))
(Contract No. 2233)

DOUBLE RAINBOW PROJECT

Diamond Drill Log

Hole No. 3S (8302B). Completed April 7, 1967. Log by G.C.M. & A.L.S.

Location: N. 84.18',E528.54'. South side of Bear Butte Creek

Collar elevation: 4723.91' Vertical Angle 90°

Cored 17-450' Recovery 428/433

Depth	Lithology
0- 17	Cased. Hard bed 9-10. Water and mud 15-17.
17- 19	Brown sandy calcareous dolomite.
19- 29	Yellow and green-gray sandy dolomite with few thin gray shale beds and a few hard limestone lenses.
29- 33	Interbedded brown sandy dolomite and dark gray shale.
33- 38	Interbedded gray dolomitic limestone and thin shale partings. Hard fine grained limestone flat lenses and pebbles.
38- 51	Gray to green-gray dolomitic limestone with minor shaly beds and hard, white limestone lenses.
51- 59	Light gray shale, several gray limey beds.
59- 71	Hard, light gray limestone beds separated by thin gray shale partings.
71- 85	Gray shale with several thin beds of limestone pebble conglomerate. Red and gray pebbles.
85- 86	Light gray limestone flat-pebble conglomerate.
86- 88	Gray shale.
88- 90	White hard limestone. Flat pebbles in part.
90- 95	Feldspar porphyry. Light gray with about 10% partly altered feldspar phenocrysts about 0.1" long. About 1% disseminated fine-grained pyrite.
95-112	Dark gray shale with less than 10% flat limestone pebbles. Most of pebbles are light gray.
112-131	Medium gray shale containing about 30% light gray to pink flat limestone pebbles.
131-206	Feldspar porphyry. Gray to reddish brown. Abundant (about 50%) red brown stubby feldspars between 0.1" -0.5" long in gray matrix. About 2% green ferromagnesium(augite?) 0.1" long. Feldspars are partly altered 183-206.
206-215	Gray to brown limestone conglomerate beds separated by about 10% gray shale partings.
215-217	Dark gray shale.
217-219	Feldspar porphyry. Light gray altered stubby feldspar phenocrysts up to 0.7" long.
219-224	Gray shale.
224-226	Gray-green sandy dolomite and dark gray shale
226-229	Gray green (glauconitic?) sandy dolomite. Gray shale, 0.5' thick at 229'.
229-233	Feldspar porphyry, gray, with about 10% augite(?).
233-234	Gray shale parting 0.5' thick.
234-238	Feldspar porphyry, gray, with about 10% augite(?).

Hole No. 3S (continued)

Depth	Lithology
238-240	Dark gray shale.
240-244	Feldspar augite(?) porphyry. Partly altered feldspars.
244-247	Dark gray shale.
247-252	Feldspar augite(?) porphyry, gray, altered feldspars.
252-254	Dark gray shale.
254-258	Feldspar augite(?) porphyry, gray-green.
258-260	Dark gray shale.
260-271	Feldspar augite(?) porphyry, gray-green stubby feldspars to 0.7". Narrow calcite veinlets, few dark gray inclusions to 1" size.
271-276	Dark gray shale.
276-278	Feldspar augite(?) porphyry, gray-green.
278-290	Dark gray shale with white limestone pebbles. Several narrow dolomite beds with few limestone pebbles.
290-306	Gray-green dolomite enclosing white, elongate, irregular-shaped limestone pebbles.
306-315	Gray-green dolomite with fewer limestone pebbles.
315-319	Gray dolomite with very few limestone pebbles. Some fine-grained disseminated pyrite becoming abundant (over 50%) at 318-319.
319-335	Quartzite, well cemented grains, medium gray. Scarce (less than 1%) fine grained pyrite. Disseminated and in small blebs and thin veinlets.
335-356	Mottled dark gray porous quartzite (sandstone). Not as well cemented as above. Fine grained pyrite, disseminated and in blebs, up to 5% at 345' and 353'-356'. Green glauconite(?) grains (10%) at 346'-355'. Abundant 1/4" black mollusc fossils at 348'-350'.
356-392	Feldspar porphyry, white, with rounded phenocrysts. Very little ferromagnesium minerals.
392-395	Quartzite; white, finegrained pyrite(about 5%) in veinlets and disseminated.
395-396	Reddish conglomerate. White milky quartz and quartzite pebbles.
396-450	Precambrian. Reddish brown mica schist with white mica flakes up to 0.2". Schistosity 45° to 60° from core axis. Several narrow quartz stringers. Quartz breccia and mica schist at 449½-450'.

End.

(OME-6558 (Silver))
(Contract No. 2233)

ASSAY FORM 8

G089

REPORT OF ANALYSIS (LEAD)

SAMPLE OF

DOUBLE RAINBOW ORE

RECEIVED FROM Mathisrud ON SPLIT D. DRILL CORE

Perkin-Elmer Atomic Absorption method.		% Pb
3 S.- 8302 B	306' - 310'	0.0049
"	310' - 315	0.0055
"	315' - 319'	0.077
"	319' - 324'	0.047
"	324' - 329'	0.010
"	329' - 334'	0.024
"	334' - 339'	0.020
"	339' - 344'	0.026
"	344' - 348'	0.004
"	348' - 352'	0.0032
"	352 - 356'	0.004
"	392' - 396'	0.003

DATE 4/13/67 ANALYST W.H. Taylor

(OME-6558 (Silver))
(Contract No. 2233)

Date April 5, 1967 Double Rainbow Project ASSAY REPORT

Diamond Drill Sludge

	SAMPLE	Silver oz. per ton	GOLD Dollars per Ton at $20.67
8302 B	236 - 240	.04	None Found
	240 - 245	None Found	None Found
	245 - 250	.04	None Found

GO 94

(OME-6558 (Silver))
(Contract No. 2233)

Date April 6, 1967 Double Rainbow Projec ASSAY REPORT

Diamond Drill Sludge

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbw 8302 E (?)	250 - 255	None Found	None Found
~~8303~~	265 - 270	NF	NF
	255 - 260	NF	NF
	260 - 265	NF	NF
	270 - 275	NF	NF
~~8205~~	275 - 280	NF	NF
	280 - 285	NF	NF
	285 - 290	NF	NF
	290 - 295	NF	NF
	295 - 300	NF	NF
	300 - 305	NF	NF
	305 - 310	NF	NF

CO 94

(OME-6558 (Silver))
(Contract No. 2233)

Date April 7, 1967 Double Rainbow Proje ASSAY REPORT
Diamond Drill Sludge

	SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbw ~~8205~~	310 - 315	.06	None Found
Zlot.	315 - 320	None Found	NF
	320 - 325	NF	NF
	325 - 330	.08	NF
	330 - 335	NF	NF
	335 - 340	.14	NF
	340 - 345	.16	NF
	345 - 350	.10	NF
	350 - 355	.08	NF
	355 - 360	.08	NF
	360 - 365	.08	NF
	365 - 370	.08	NF
	370 - 375	NF	NF

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(OME-6558 (Silver))
(Contract No. 2233)

Date April 8, 1967 Double Rainbow Project ASSAY REPORT
Diamond Drill Sludge

	SAMPLE	Silver oz/ per ton	Gold oz/ per ton
Dbl Rnbw ~~8203~~ 8302	375 - 380	None Found	None Found
	380 - 385	NF	NF
	385 - 390	NF	NF
	390 - 395	NF	NF
	395 - 400	NF	NF
	400 - 405	NF	NF
	405 - 410	NF	NF
	410 - 415	NF	NF
	415 - 420	NF	NF
	420 - 425	.10	NF
	425 - 430	NF	NF
	430 - 435	NF	NF
	435 - 440	NF	NF
	440 - 445	NF	NF
	445 - 450	NF	NF

CO 94

(OME-6558 (Silver))
(Contract No. 2233)

Date April 10, 1967 Diamond Drill Core ASSAY REPORT
XX Double Rainbow Projects

SAMPLE		Silver Oz. Per Ton	Gold Dollars per Ton @ $35.00
Dbl. Rnbo. D D Core 6302 E.	305 - 310	NP	NP
(S 3)	310 - 315	NP	NP
Split core samples	315 - 319	NP	NP
	319 - 324	NP	NP
	324 - 329	NP	NP
	329 - 334	Trace	NP
	334 - 339	Trace	NP
	339 - 344	Trace	NP
	344 - 348	NP	NP
	348 - 352	NP	NP
	352 - 356	NP	NP
	392 - 396	NP	NP

GO-94

(OME-6558 (Silver))
(Contract No. 2233)

DOUBLE RAINBOW PROJECT

Diamond Drill Log

Hole No. 4S (8316B). Completed April 15, 1967. Log by G.C.M.

Location: S. 72.0', E. 1109.8'. Near Barton Tunnel

Collar elevation: 4705.54'. Vertical Angle -90°.

Cored 5'-451' Recovery 446/446

Depth	Lithology
0- 5	Cased. Buff sandy overburden with water.
5- 7	Gray dolomite, vuggy, part calcareous.
7- 21	Sandy calcareous dolomite. Buff with light gray limey spots.
21- 42	Sandstone with calcareous cement. Buff to brown sand grading to white where cemented best. Few 0.1" calcite stringers. MnO_2 stain 30-33.
42- 65	Sandstone with calcareous cement. Brown to reddish brown(limonite stain). Few MnO_2 stained spots. Light gray to buff 45-49. Narrow (3") silicified band at 58'.
65- 89	Gray to buff sandstone with calcite cement. Narrow calcite stringers at 76'.
89-103	Hard fine grained sandstone(quartzite) with silica? cement. Mottled gray with white calcareous spots.
103-119	Medium grained dark brown sandstone(quartzite) with a few limestone pebbles. Brown fine grained sandstone with a few pebbles at 116'-118'.
119-123	Conglomerate. White limestone pebbles in brown sandy dolomite matrix.
123-134	Medium grained gray-green dolomite with a few limy spots.
134-145	Fine grained gray dolomite with abundant flat limestone pebbles. Few narrow shale beds.
145-167	Interbedded gray-green dolomite and gray shale. Part contains few limy pebbles.
167-169	Gray shale alternating with calcareous dolomite.
169-204	Interbedded gray-green dolomite and thin gray shale beds. Few limy pebbles. Bedding deformed to 60° at 189-191.
204-219	Gray shale with about 10% white to pink limestone pebbles.
219-224	Feldspar porphyry. Gray, with about 20% altered white, 0.1" feldspar phenocrysts. About 10% green 0.1" ferromagnesium phenocrysts.
224-240	Gray shale with light gray limestone pebbles and a few 0.5' limestone conglomerate beds.
240-247	Dark gray shale with only 10% white, light gray flat limestone pebbles.
247-259	Dark gray shale with abundant(40%) light gray and white flat limestone pebbles.
259-266	Dark gray shale with only 10% light gray and white limestone pebbles.
266-268	Gray-green(glauconitic ?) sandy dolomite and shale.
268-271	Gray shale with light gray limestone pebbles.
271-276	Gray-green sandy dolomite with limestone pebbles alternating with shale.
276-283	Dark gray shale.
283-287	Gray-green(glauconitic)sandy dolomite with several thin gray shale beds.
287-308	Gray shale. 0.2' light gray dolomite bed at 303'.

Hole No. 4S (continued)

Depth	Lithology
308-316	Light gray calcareous dolomite interbedded with medium gray shale.
316-328	Dark gray shale with white limestone pebbles. Few narrow dolomite beds with limy pebbles.
328-336	Gray-green dolomite with 30% limestone.
336-349	Gray-green dolomite with water under 10% limestone. 2" brown oxidized band at 346'.
349-370	Gray quartzite. 0.1" calcite, galena, sphalerite veinlet at 356', 0.1" calcite, galena veinlet at 367'. 25% pyrite disseminated at 349-350, 10% at 350-353, 2% at 360-367.
370-375	Dark gray porous quartzite(sandstone). Mottled 370-372.
375-395	Feldspar porphyry. Light gray to white, 25% altered feldspar phenocrysts. No visible quartz or ferromagnesium minerals.
395-411	Medium to dark gray quartzite. Black 1/4" mollusc zone 401-404. Pyrite noted at 408-411. Several narrow shale partings.
411-424	Light gray partly cemented sandstone(quartzite). Light green altered clay(?) with abundant pyrite at 422'-423'. Pyrite blebs and disseminated throughout. Visible scattered galena at 411'-418'. Brecciated quartzite at 423-424.
424-437	Precambrian. Soft dark gray-brown phyllite and schist. Schistosity 70° - 80° from core axis.
437-439	Precambrian quartz mica schist. Hard gray-green to tan.
439-451	Precambrian. Soft chloritic phyllite and schist. Dark gray to greenish.

End.

(CME-6558 (Silver))
(Contract No. 2233)

Date April 22, 1967 Double Rainbow Project ASSAY REPORT
XX Diamond Drill Sludge

SAMPLE		Silver Oz. Per Ton	GOLD Dollars per Ton at $35.00
Dbl. R'Bow 8335 B Sludge	CDM 0 - 5	Trace	NF
	5 - 10	.14	NF
	10 - 15	.3	NF
	15 - 20	.2	NF
	20 - 25	.12	NF
	25 - 30	Trace	NF
	30 - 35	Trace	NF
	35 - 40	Trace	NF
	40 - 45	Trace	NF

NF = None Found

GO 94

(OME-6558 (Silver))
(Contract No. 2233)

Date April 17, 1967 Double Rainbow Project ASSAY REPORT

Diamond Drill Sludge

SAMPLE	Silver Oz. Per Ton	Gold Dollars per Ton at $20.67
Dbl. Rnb. D D 8316 B 235 - 240	Trace	None Found
240 - 245	Tr	NF
245 - 250	Tr	NF
250 - 255	Tr	NF
255 - 260	Tr	NF
360 - 365	None Found	NF
365 - 370	Tr	NF
370 - 375	NF	NF
375 - 380	Tr	NF
380 - 385	Tr	NF
390 - 395	NF	NF
395 - 400	NF	NF
400 - 405	Tr	NF
405 - 410	NF	NF
410 - 415	NF	NF
415 - 420	Tr	NF
420 - 424	Tr	NF
424 - 429	Tr	NF

0/0 00

(CME-6558 (Silver))
(Contract No. 2233)

Date April 14, 1967 Double Rainbow Project ASSAY REPORT
Diamond Drill Core

SAMPLE		Silver Oz. Per Ton	GOLD Dollar Per Ton at $35.07
Dlb. Rnbow D D Coros 8316 B GCM	5 - 10	Trace	None Found
	10 - 15	.15	NF
	15 - 20	Trace	NF
	20 - 25	Trace	NF

GO 94

(GME-6558 (Silver))
(Contract No. 2233)

Date April 18, 1962. Double Rainbow Project ASSAY REPORT
Diamond Drill Cores

SAMPLE		SILVER Oz. per Ton	GOLD Dollars per Ton at $40.00
D D 8376 B - GCM	336-340	NF	NF
	340-345	NF	NF
	345-349	NF	NF
	349-352	NF	NF
	352-355	NF	NF
	355-360	.16	NF
	360-365	Trace	NF
	365-370	Trace	NF
	370-375	.21	NF
	395-400	Trace	NF
	400-405	NF	NF
	405-409	NF	NF
	409-412	.12	NF
	412-415	NF	NF
	415-418	.44	NF
	418-421	Trace	NF
	421-424	Trace	NF

CO 94

(OME-6558 (Silver))
(Contract No. 2233)

ASSAY FORM 8

6089

REPORT OF ANALYSIS LEAD

SAMPLE OF

DOUBLE RAINBOW CORES
A.A. Spectro Analysis

RECEIVED FROM G. Mathisrud ON SPLIT CORE

DDH 45. (8316B)	% Pb
355 - 360	0.076
370 - 375	0.060
409 - 412	0.202
412 - 415	0.095
415 - 418	0.201

DATE 4/20/ 1967 ANALYST W.H. Taylor

(OME-655 (Silver)
(Contract No. 2233)

Assay Form No. 9

Double Rainbow Grabs

Date April 28, 1967

ASSAY REPORT

SAMPLE	Silver Oz Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnbo Grabs-10'W of Main Portal HAK	11.8	None Found

GO 94

(OME-655[illegible] Silver)
(Contract No. 2233)

Assay Form No. 9

Double Rainbow Project

Date May 2, 1967

ASSAY REPORT

SAMPLE	Silver Oz. Per Ton	GOLD Dollars per Ton at $20.67
Dbl Rnb Pk W Sd of Main Portal 0 - 20'	11.15	8.20

GO 94

(OME-655 Silver)
(Contract No. 2233)

ASSAY FORM 8 G089

REPORT OF ANALYSIS

SAMPLE OF

DOUBLE RAINBOW ORES

RECEIVED FROM _____ ON _____

	% Pb	% Zn
Grab sample 10' West of main portal	0.798	1.06
Pick sample, West side of main portal 0' - 20'	2.160	1.22

(A.A. Spectrophotomic Analysis)

DATE May 4, 1967 ANALYST W.H. Taylor

Standard Form No. 65
November 1961
General Services Administration
General Regulation No. 27

U.S. Government Messenger Envelope

65-106

NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM		NAME (OR TITLE) OF ADDRESSEE, AGENCY, ORGANIZATIONAL UNIT, ADDRESS, AND ROOM	
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Mrs Bert J. FAHO Room 3A310 The Pentagon	STOP		STOP
	STOP		STOP
OFFICE, MILITARY HISTORY ATTN: MR. HENRY FOLTZ ROOM 2013, Tempo C	STOP		STOP
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~~C.G., Army Map Service~~ ~~Washington, D.C.~~	STOP		STOP
	STOP		STOP

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	STOP		STOP
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GEOLOGICAL SURVEY
FEDERAL CENTER, DENVER, COLORADO 80225
Office of Minerals Exploration

October 7, 1966

OFFICIAL
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~~110~~
120

Memorandum

To: Chief, OME

From: Field Officer, Region III gwff

Subject: OME-6558 (Silver)
The Double Rainbow Mine
(Richmond-Sitting Bull)
Lawrence County, South Dakota

The following footages are estimated total depths of surface and underground diamond drilling proposed under the subject application. The accompanying illustration shows the hole number. The holes will not necessarily be drilled in the sequence as numbered.

Surface Drilling Hole No.	Estimated depth in feet
1	500 ft.
2	650 ft.
3	400 ft.
4	450 ft.
Total estimated footage	2,000 ft.

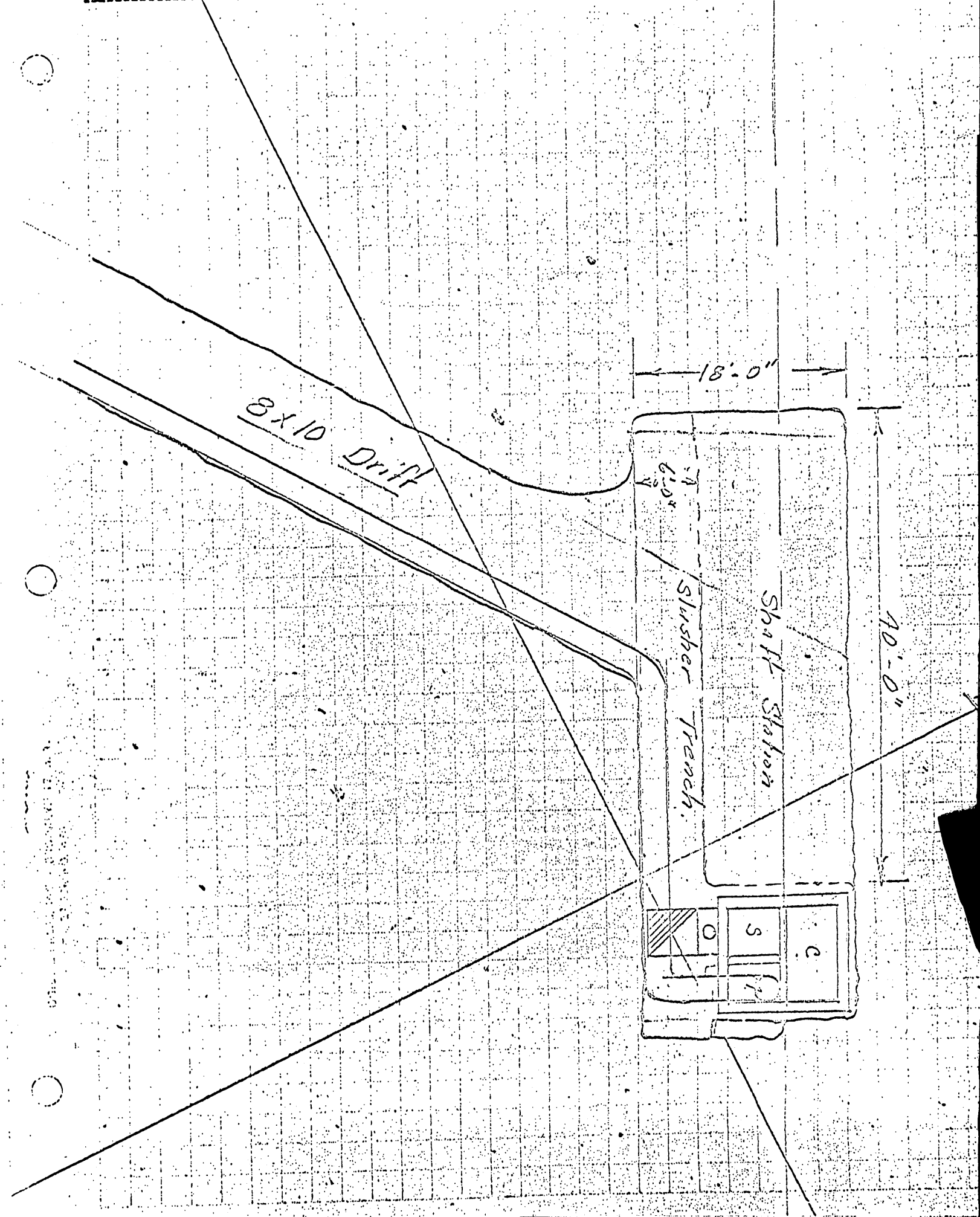
Underground Drilling Hole No.	Estimated depth in feet
1	350 ft.
2	340 ft.
3	355 ft.
4	350 ft.
5	355 ft.
6	355 ft.
7	360 ft.
8	369 ft.
9	375 ft.
Total estimated footage	3,209 ft.

The footage figure for underground diamond drilling in the subject report of examination is a rounded figure.

BY: DTD DATE: 12-1 SUBJECT: Station Layout SHEET NO. 1 OF 2

CHKD. BY: DATE: Double Team Advance Project JOB NO. 0-VI-5-1

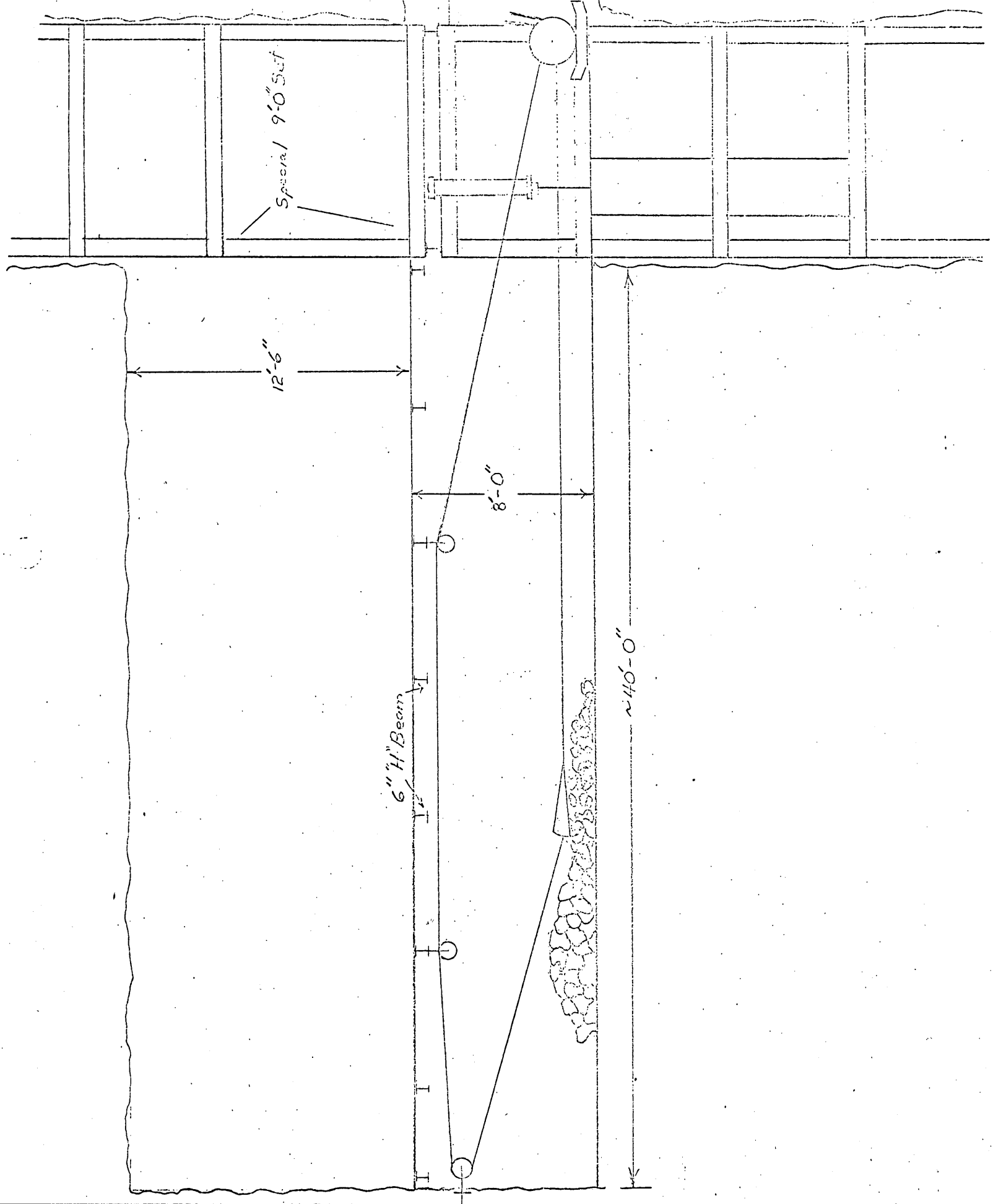
Scale 1" = 10 ft.



BY Connally DATE 7/13/66 SUBJECT Longitudinal Section SHEET NO. ___ OF ___

CHKD. BY ___ DATE ___ Through Shaft Section JOB NO. ___

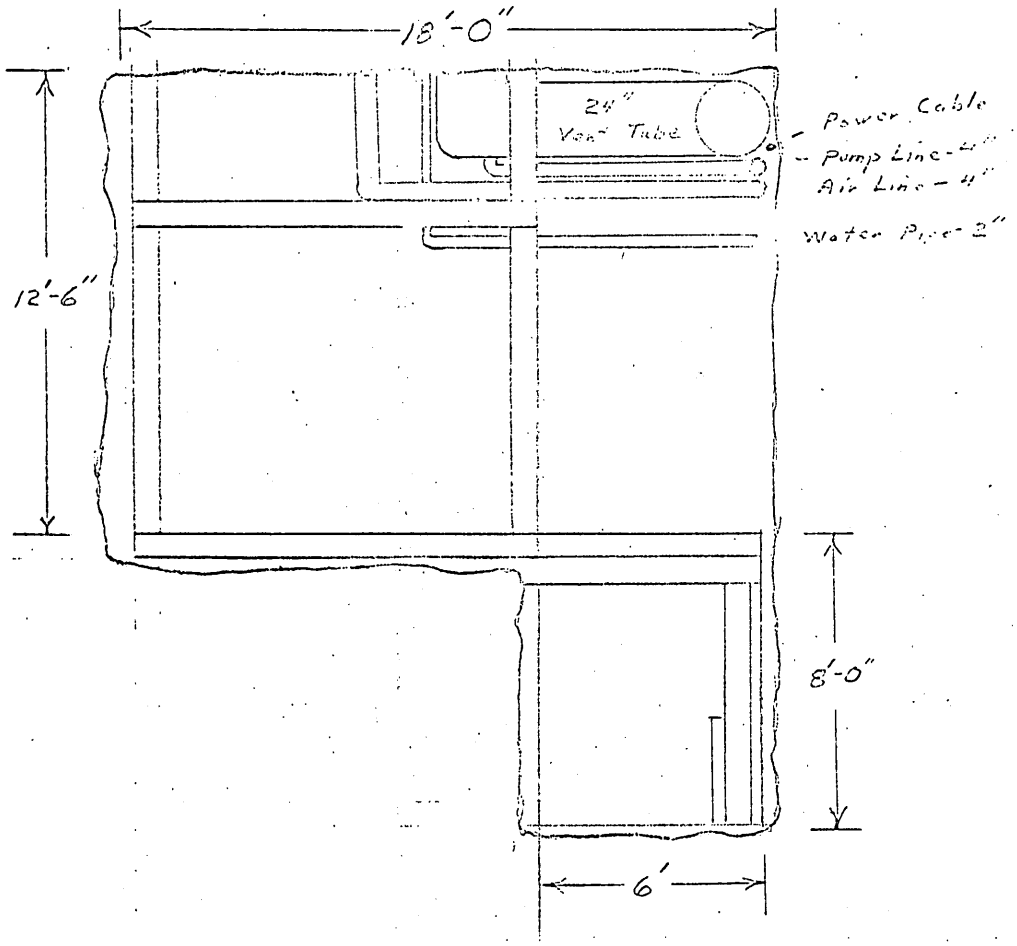
Scale 3/16" = 1' Double Racobow



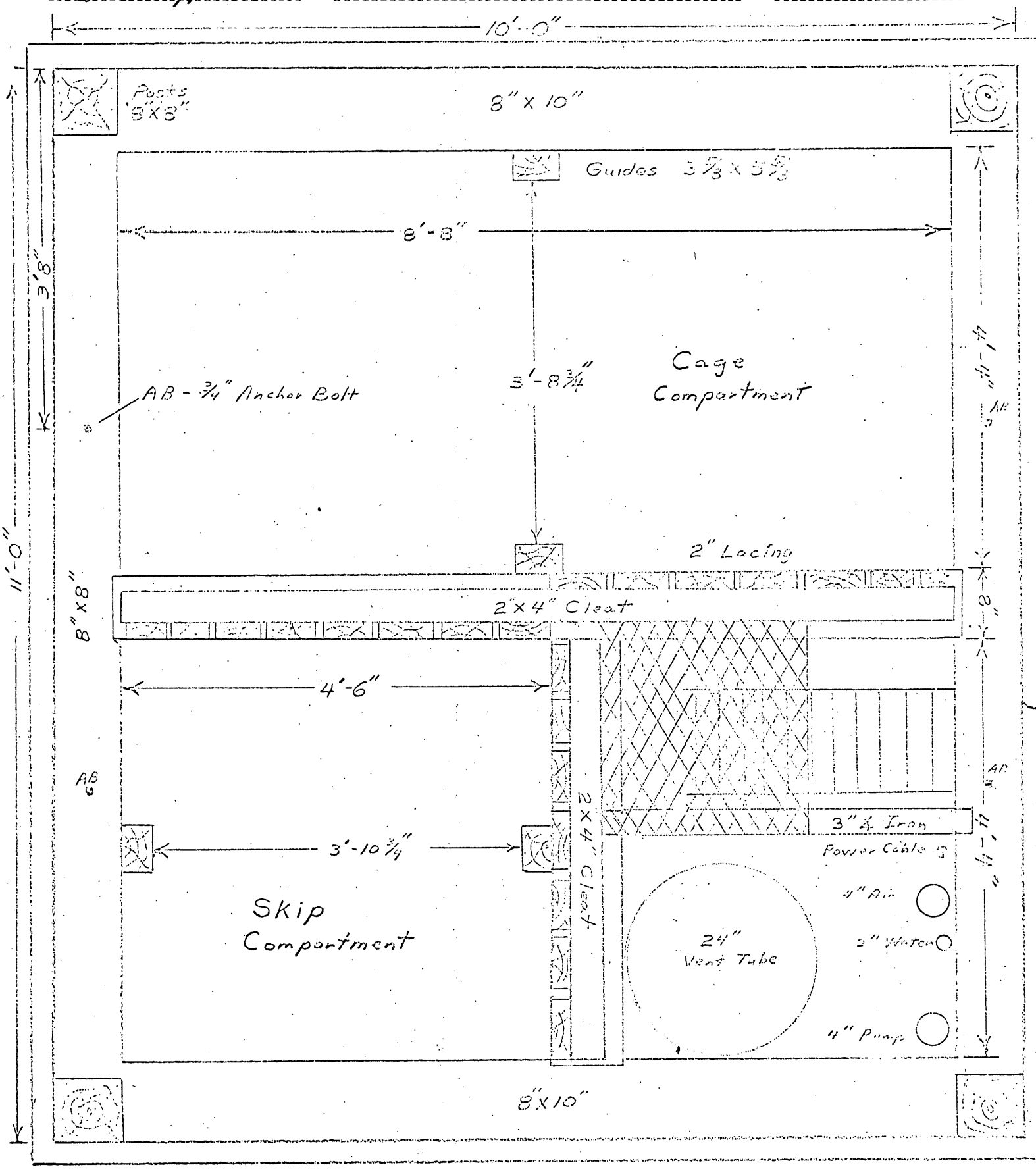
BY Connally DATE 7/2/66 SUBJECT Cross Section Through Shaft Station — Double Elbow SHEET NO. 3 OF 8

CHKD. BY DATE JOB NO.

Scale 3/16" = 1'



BY Connally DATE 7/8/66 SUBJECT Proposed Shaft Layout SHEET NO. 4 OF 8
CHKD. BY DATE For Double Rainbows JOB NO.
Scale: 3/4" = 1'



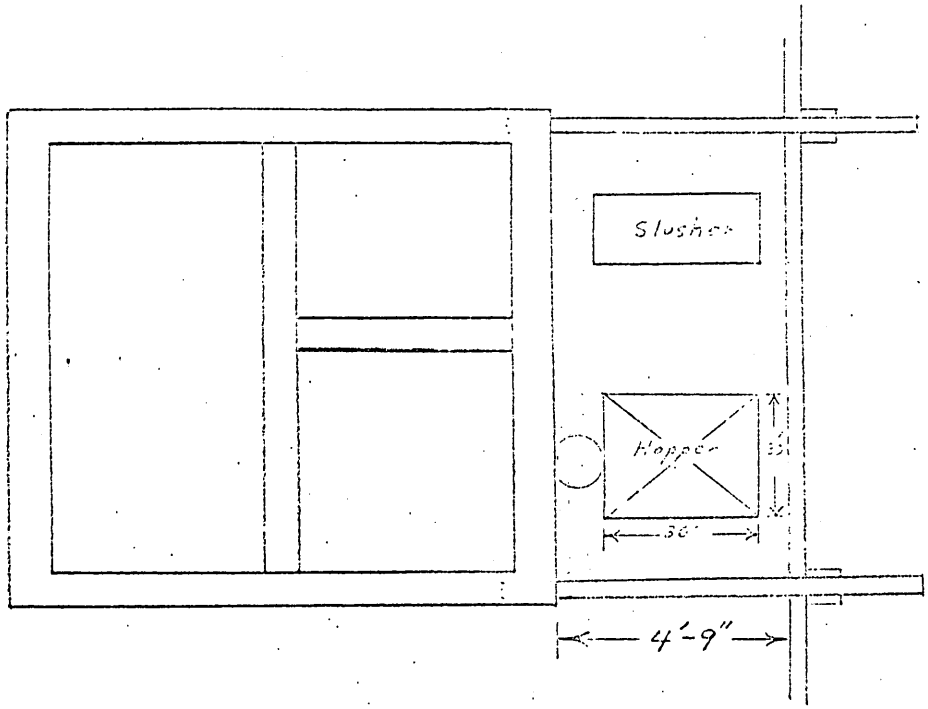
Notes:

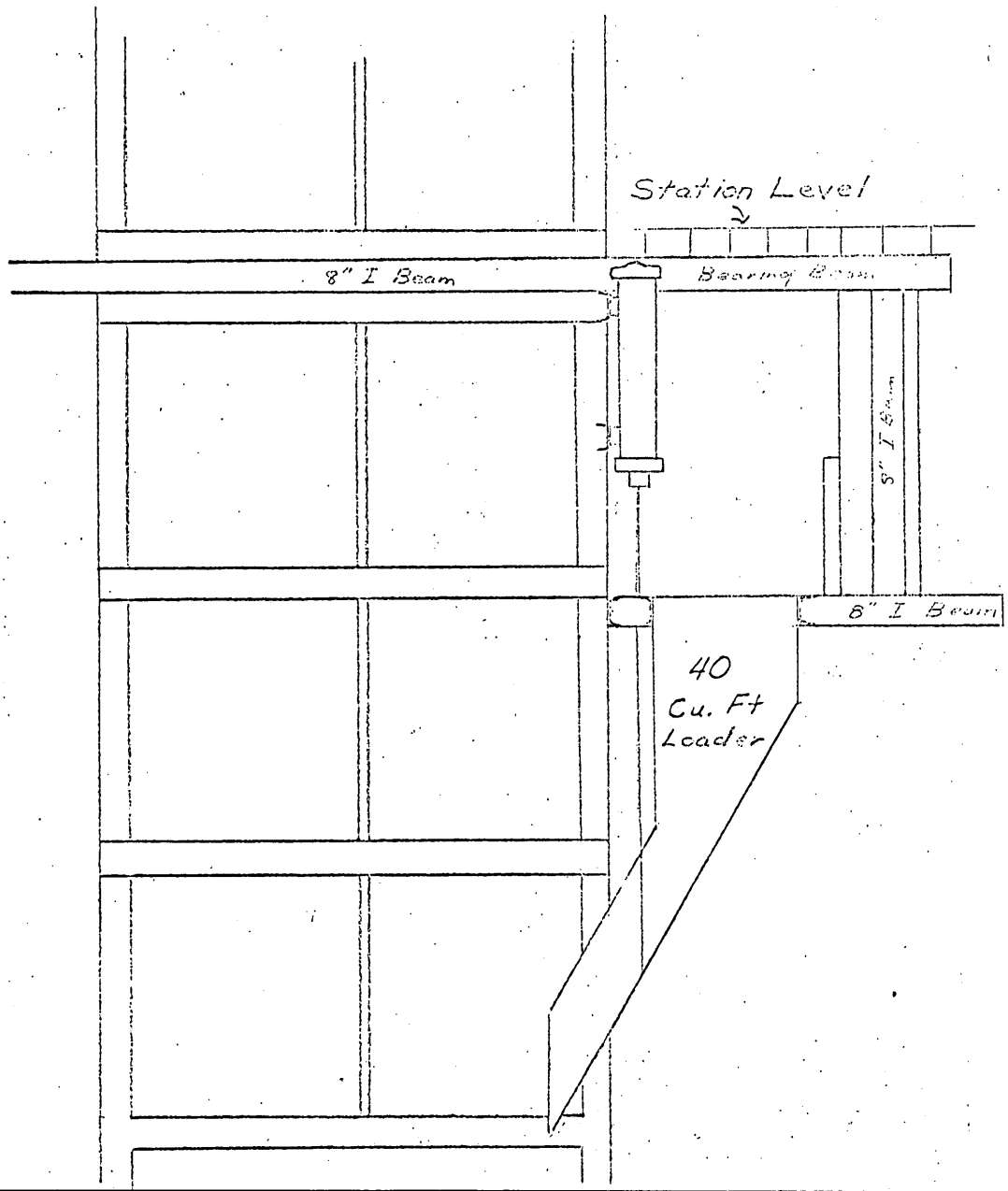
1. Perimeter Lacing Not Shown
2. Manway Landings Every 18 Feet
3. All Timber Ponderosa Pine

BY Conway DATE 7/9/86 SUBJECT Proposed Skip Loading Pocket SHEET NO. 5 OF 8

CHKD. BY _____ DATE _____ Double Rainbow JOB NO. _____

Scale 1/4" = 1'



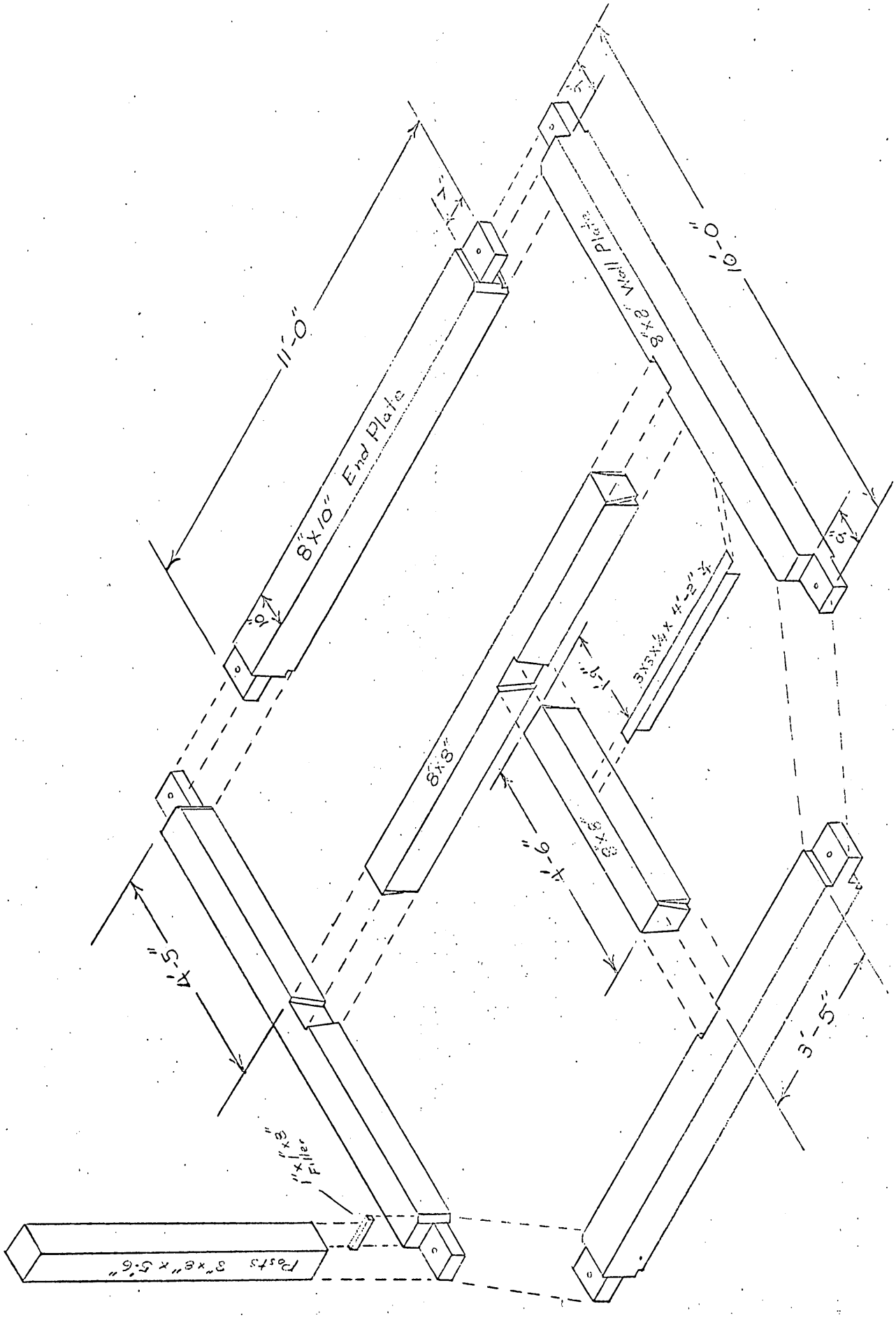


8" Air Cylinder
Mech Dept Drawing
1190-23-75

BY Conally DATE 7/12/66 SUBJECT Timber Assembly SHEET NO. 6 OF 8

CHKD. BY DATE Double Rainbow: Shaft JOB NO.

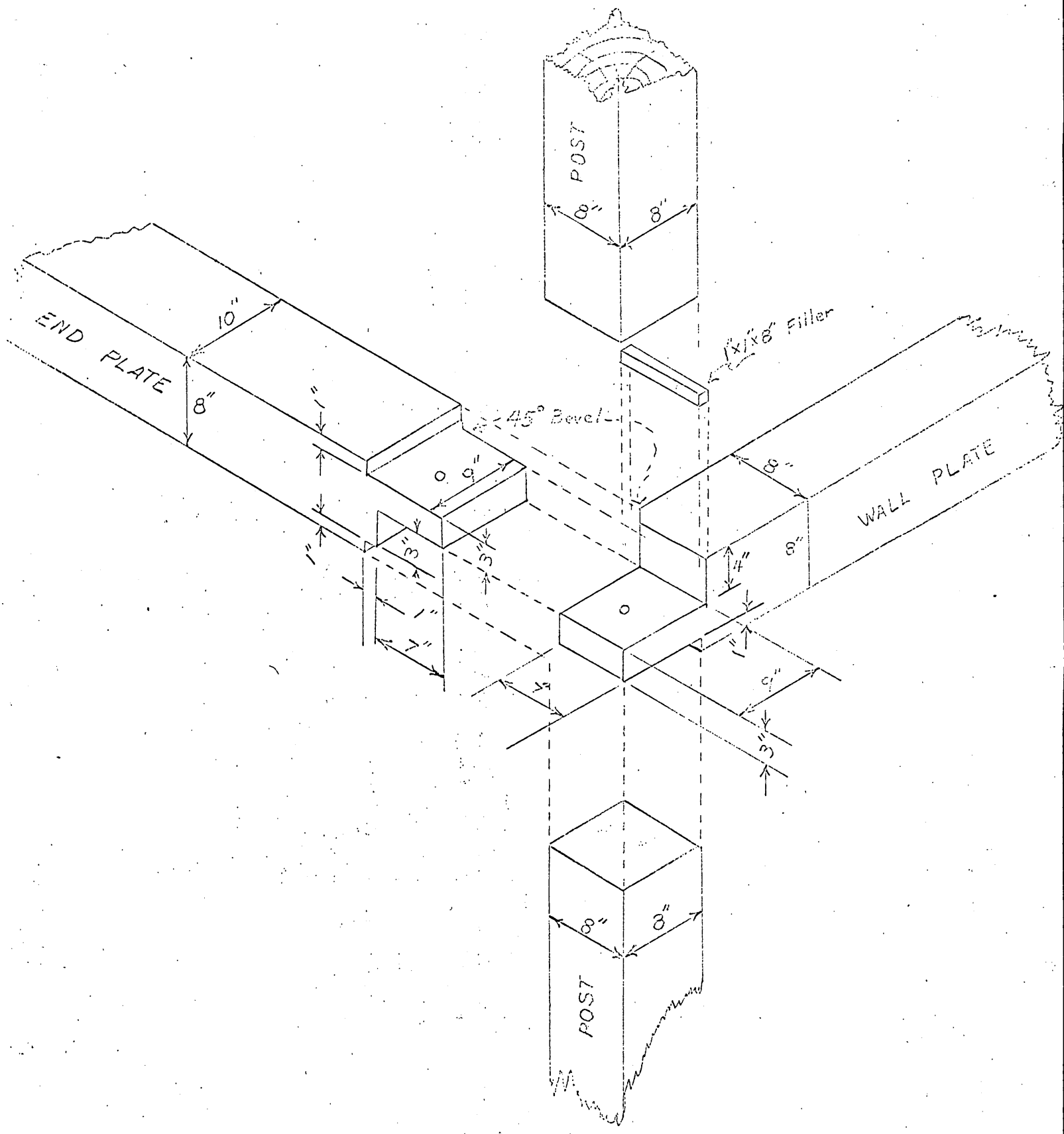
Scale 3/8" = 1'



BY [illegible] DATE 7/11/66 SUBJECT Corner Framing Detail SHEET NO. 7 OF 8

CHKD. BY _____ DATE _____ Double Rainbow Shaft JOB NO. _____

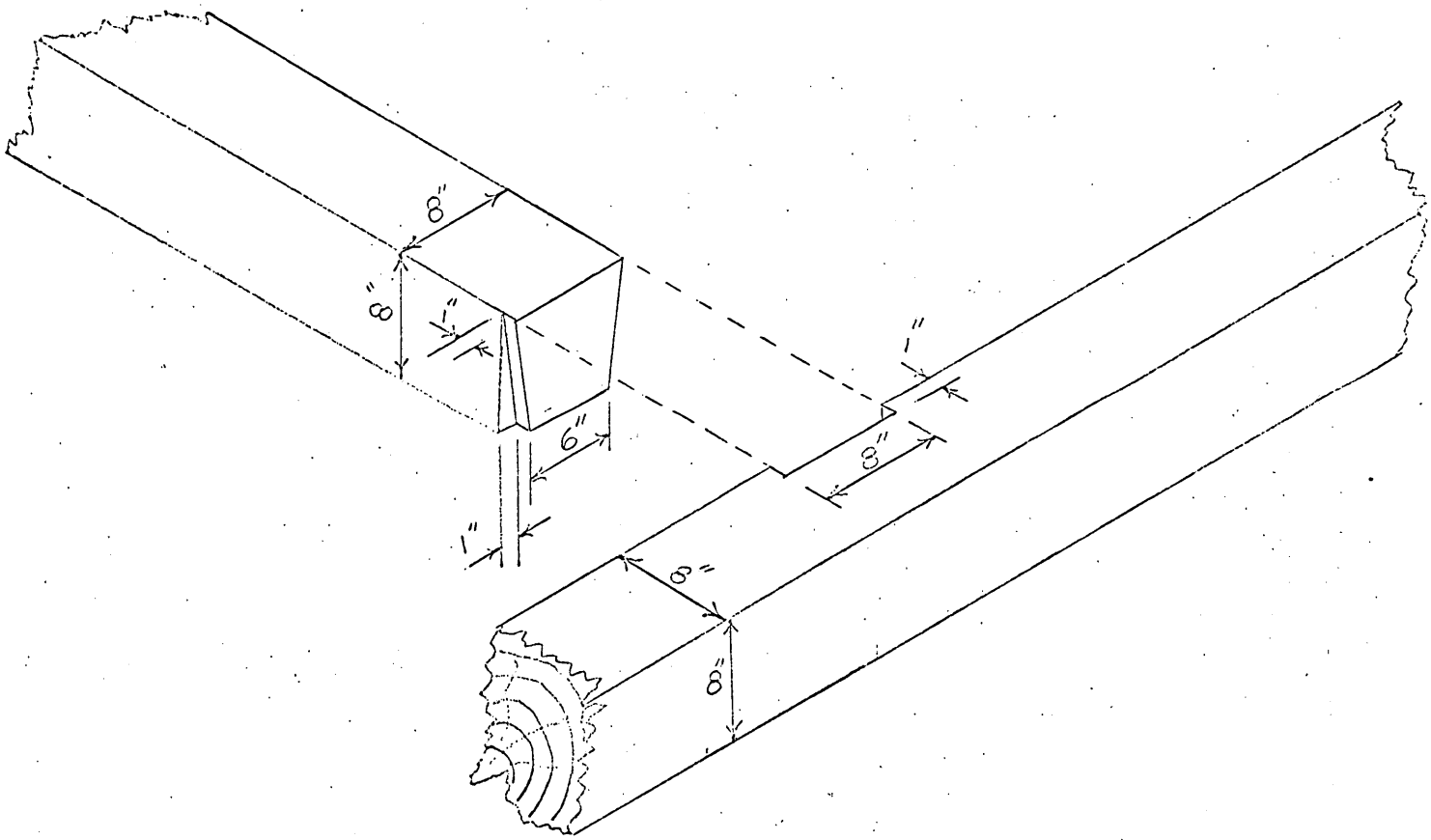
Scale 1" = 1'

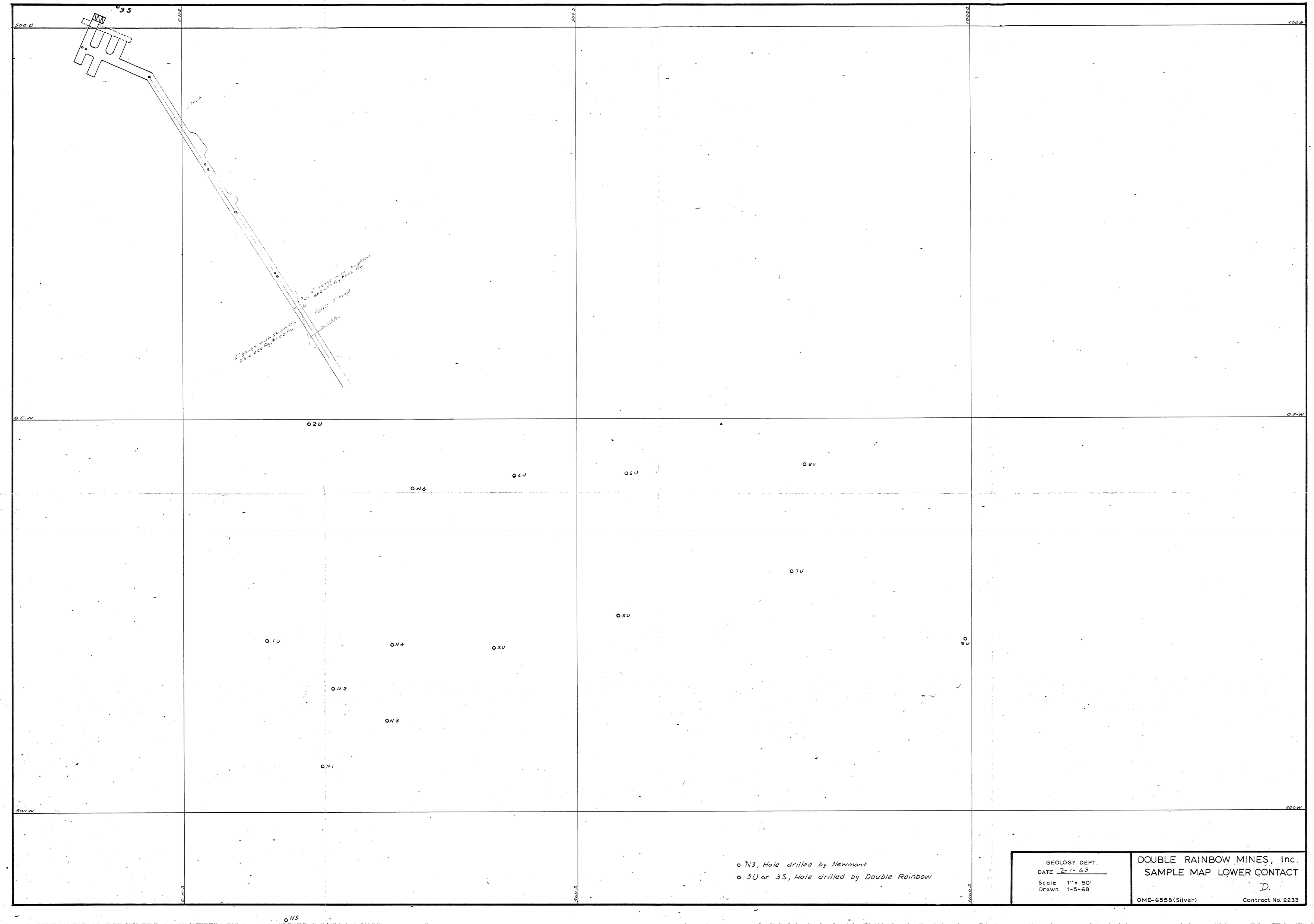


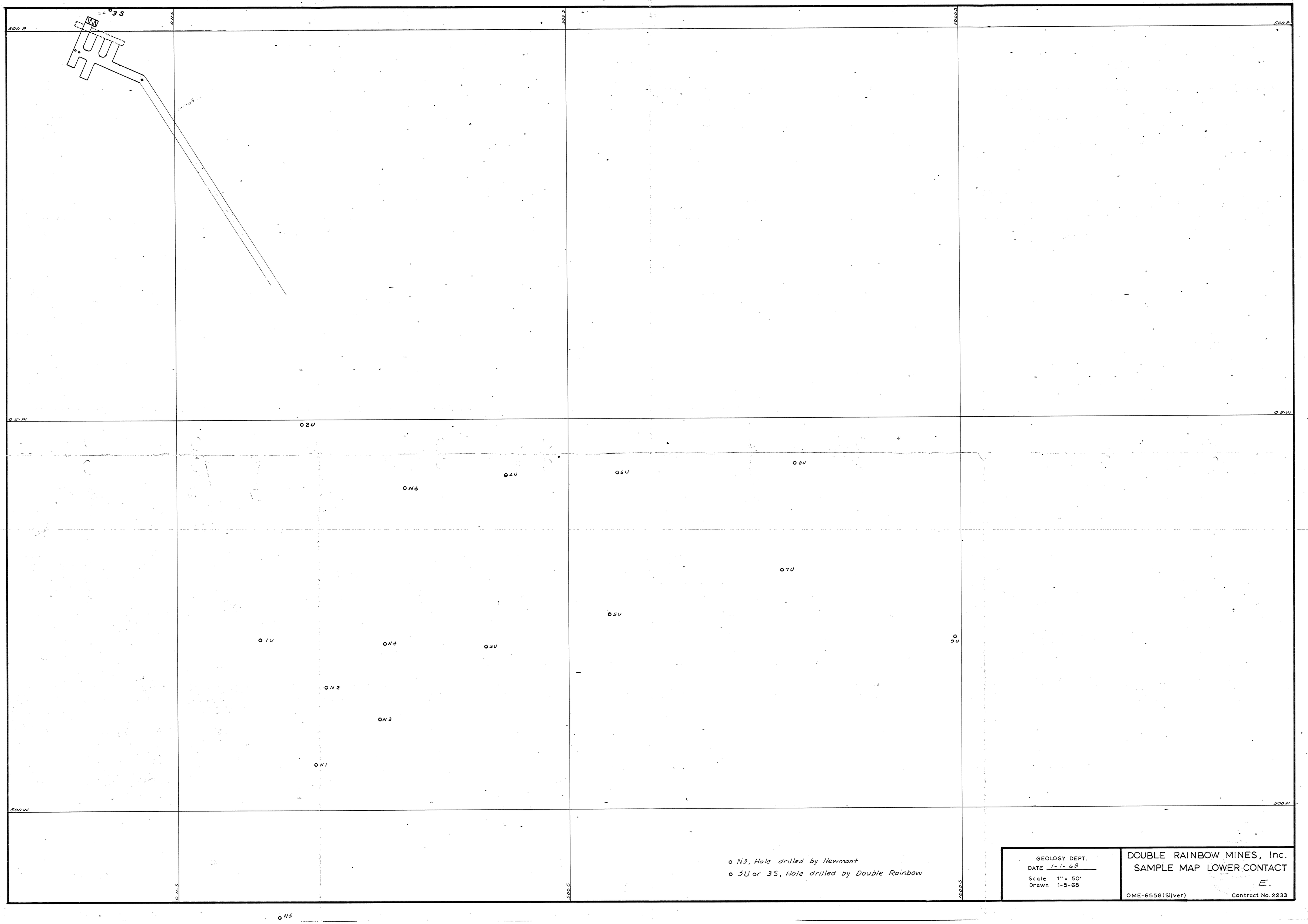
BY Connally DATE 7/11/66 SUBJECT Divider Framing Detail SHEET NO. ____ OF ____

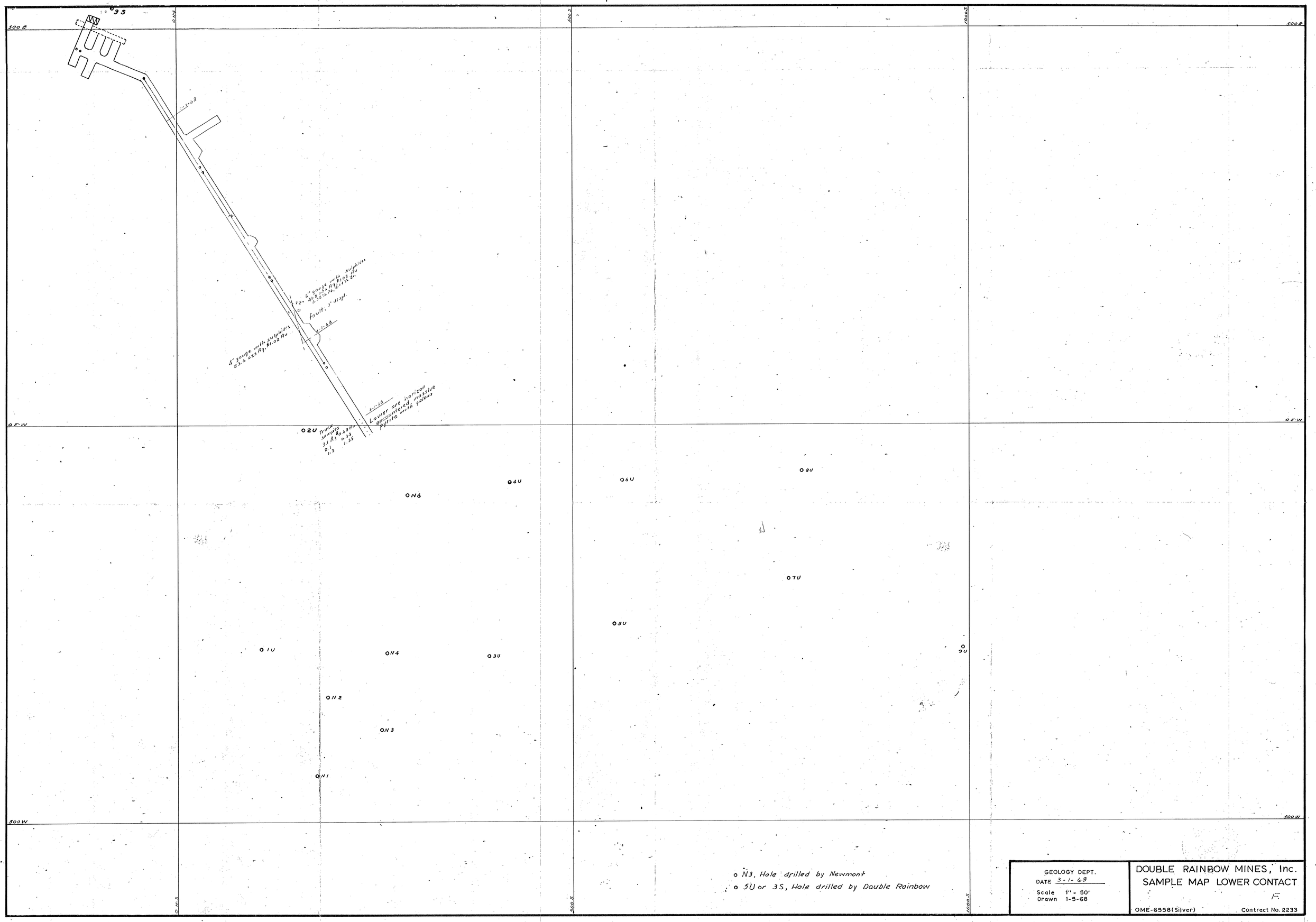
CHKD. BY ____ DATE ____ Double Rainbow Shaft JOB NO. ____

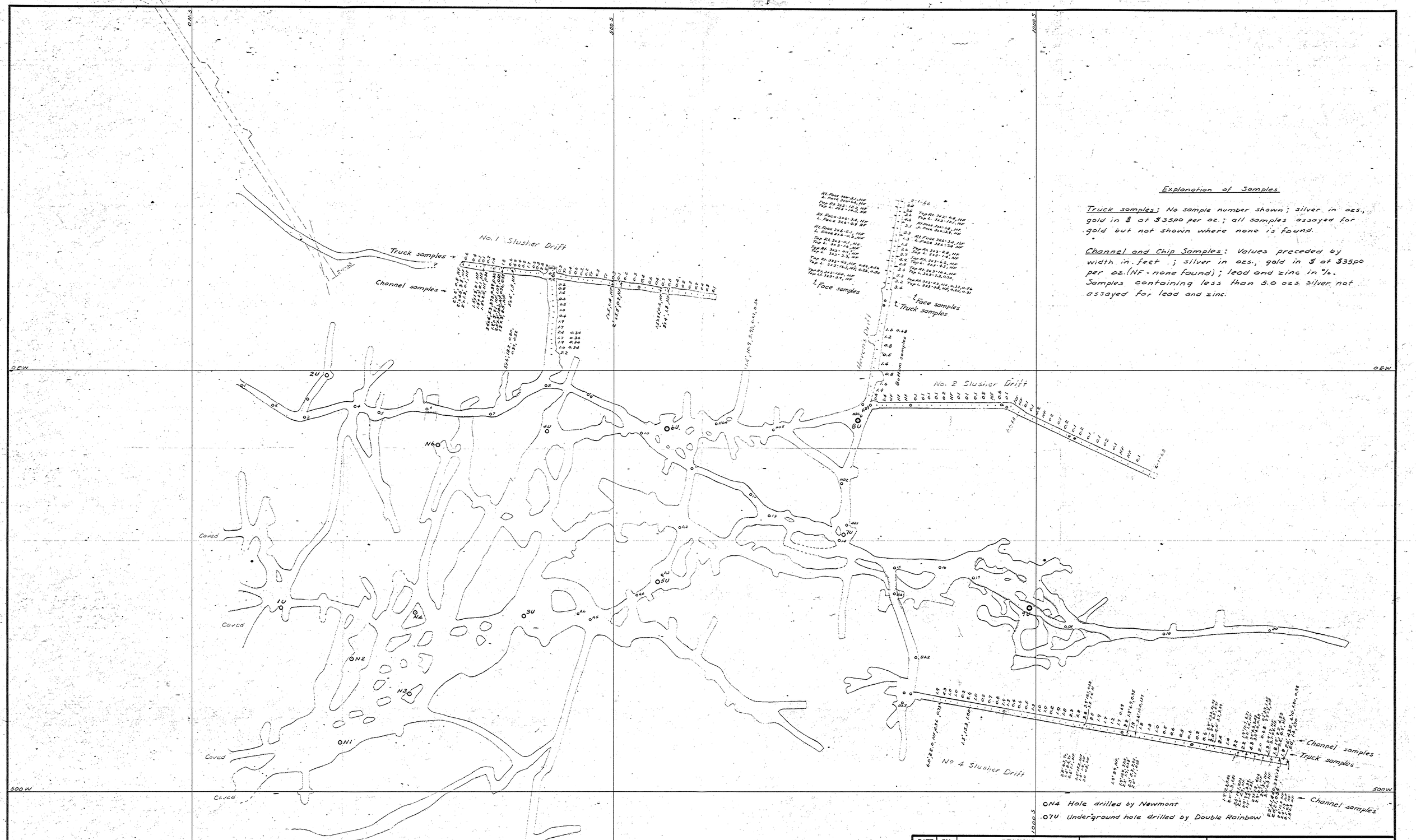
Scale 1" = 1'




500 E
0 N-S
500 S
1000 S
500 E
0 E-W
0 E-W
3S
2U
6U
N6
6U
8U
7U
5U
1U
N4
3U
9U
N2
N3
N1
500 W
500 W
0 N-S
500 S
1000 S
N5
N3, Hole drilled by Newmont
5U or 3S, Hole drilled by Double Rainbow
GEOLOGY DEPT.
DATE 7-1-68
Scale 1" = 50'
Drawn 1-5-68
DOUBLE RAINBOW MINES, Inc.
SAMPLE MAP LOWER CONTACT
D.
OME-6558(Silver)
Contract No. 2233


500 E
0 N-S
500 S
1000 S
500 E
0 E-W
0 E-W
3S
2U
4U
N6
6U
8U
7U
5U
1U
N4
3U
N2
N3
N1
5U
500 W
500 W
N5
o N3, Hole drilled by Newmont
o 5U or 3S, Hole drilled by Double Rainbow
GEOLOGY DEPT.
DATE 1-1-68
Scale 1" = 50'
Drawn 1-5-68
DOUBLE RAINBOW MINES, Inc.
SAMPLE MAP LOWER CONTACT
E.
OME-6558(Silver)
Contract No. 2233


500 E
500 E
0 E-W
0 E-W
500 W
500 W
0 N-S
500 S
1000 S
3S
1-1-68
Fault, 3' displ.
4" gouge with sulphides
23.0 0.23 Ag. 1.02 Au
Lower ore horizon
encountered massive
pyrite with galena
02U
4U
N6
6U
8U
7U
5U
1U
N4
3U
9U
N2
N3
N1
N5
o N3, Hole drilled by Newmont
o 5U or 3S, Hole drilled by Double Rainbow
GEOLOGY DEPT.
DATE 3-1-68
Scale 1" = 50'
Drawn 1-5-68
DOUBLE RAINBOW MINES, Inc.
SAMPLE MAP LOWER CONTACT
OME-6558(Silver)
Contract No. 2233



Explanation of Samples

Truck samples: No sample number shown; silver in ozs., gold in $ at $35.00 per oz.; all samples assayed for gold but not shown where none is found.

Channel and Chip Samples: Values preceded by width in feet; silver in ozs., gold in $ at $35.00 per oz. (NF = none found); lead and zinc in %. Samples containing less than 5.0 ozs. silver not assayed for lead and zinc.

DATE	BY	REVISIONS

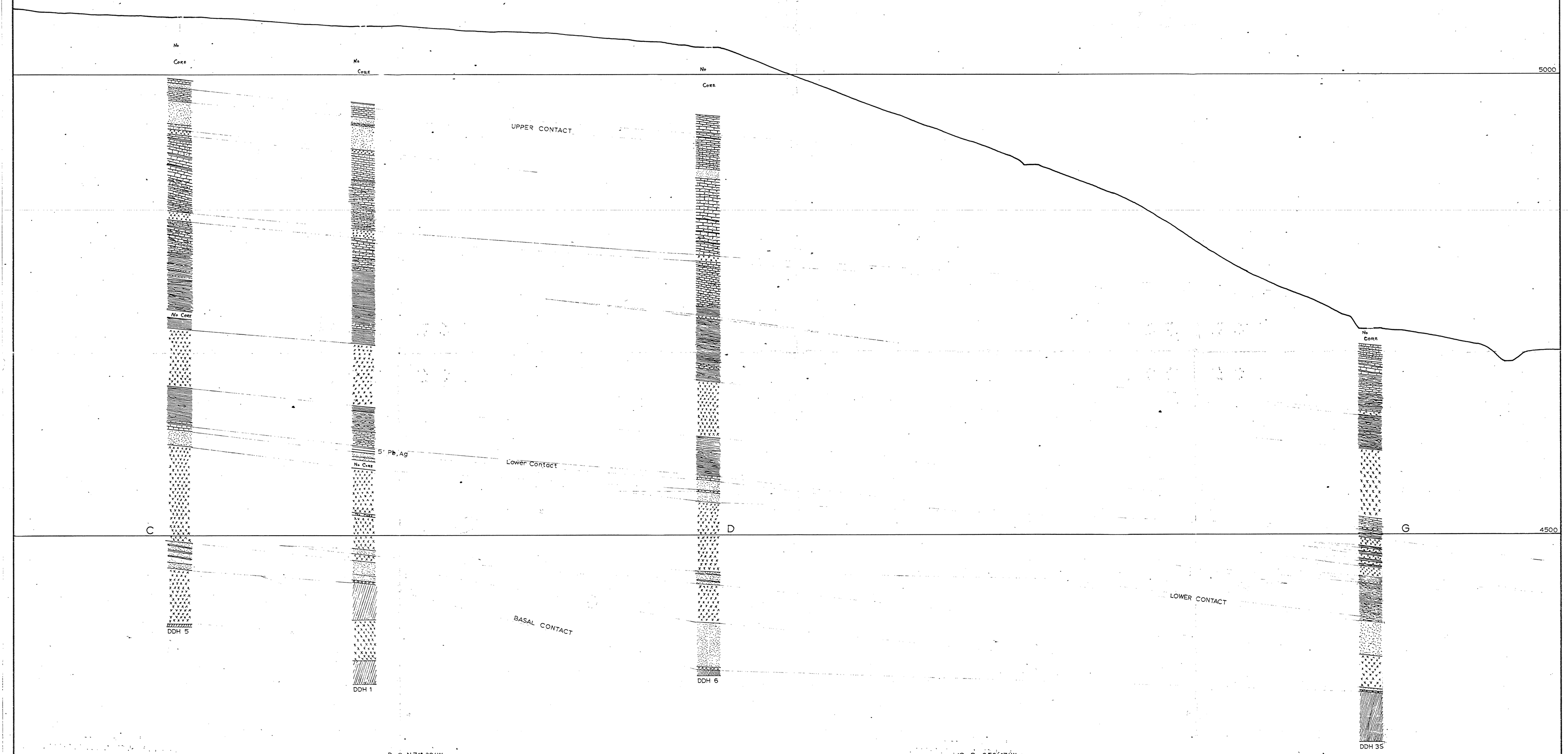
2-1-68

DRAWN BY _____ APPROVED _____
TRACED _____ SCALE 1" = 50'
CHECKED _____ DATE 10 - 5 - 67

DOUBLE RAINBOW MINES, Inc.
RICHMOND - SITTING BULL MINE
OME - 6558 (Silver) Contract No. 2233

SAMPLE MAP
UPPER CONTACT

B.



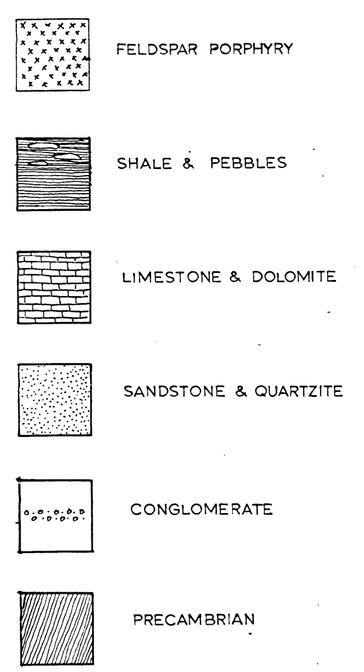
DATE	BY	REVISIONS

HOMESTAKE MINING CO.
LEAD, SO. DAK.
GEOLOGY DEPARTMENT

DRAWN BY GCM APPROVED
TRACED SCALE 1" = 50'
CHECKED DATE

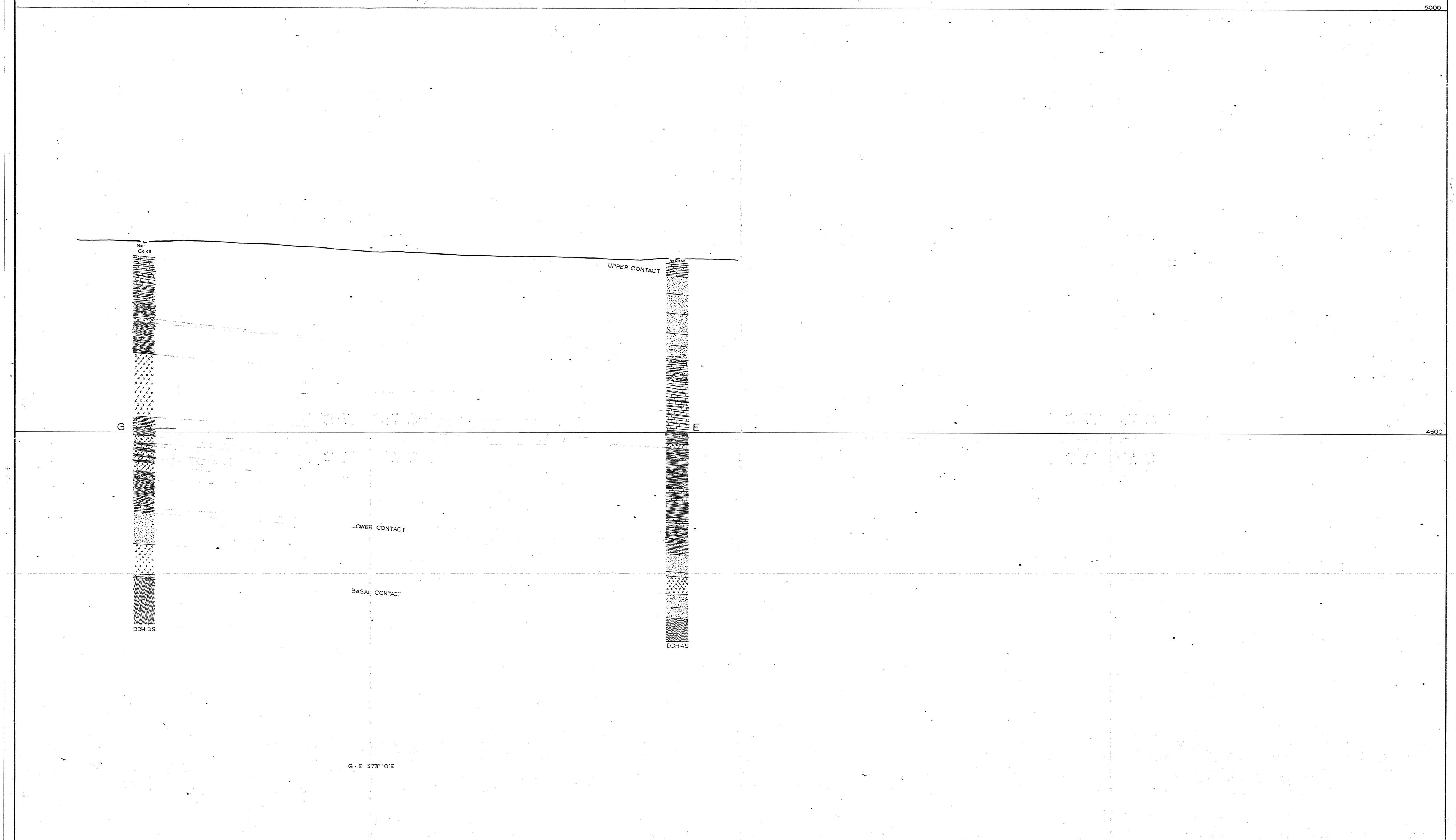
DOUBLE RAINBOW MINE
SECTION C D G
(OME - 6558(Silver) Contract 2233)

DWG. NO.



DOUBLE RAINBOW MINE
LEGEND

DWG. NO.



DATE	BY	REVISIONS

HOMESTAKE MINING CO.
LEAD, SO. DAK.
GEOLOGY DEPARTMENT

DRAWN BY GCM APPROVED
TRACED SCALE 1" = 50'
CHECKED DATE

DOUBLE RAINBOW MINE
SECTION G E
(OME - 6558(Silver), Contract 2233)

DWG. NO.

FELDSPAR PORPHYRY

SHALE & PEBBLES

LIMESTONE & DOLOMITE

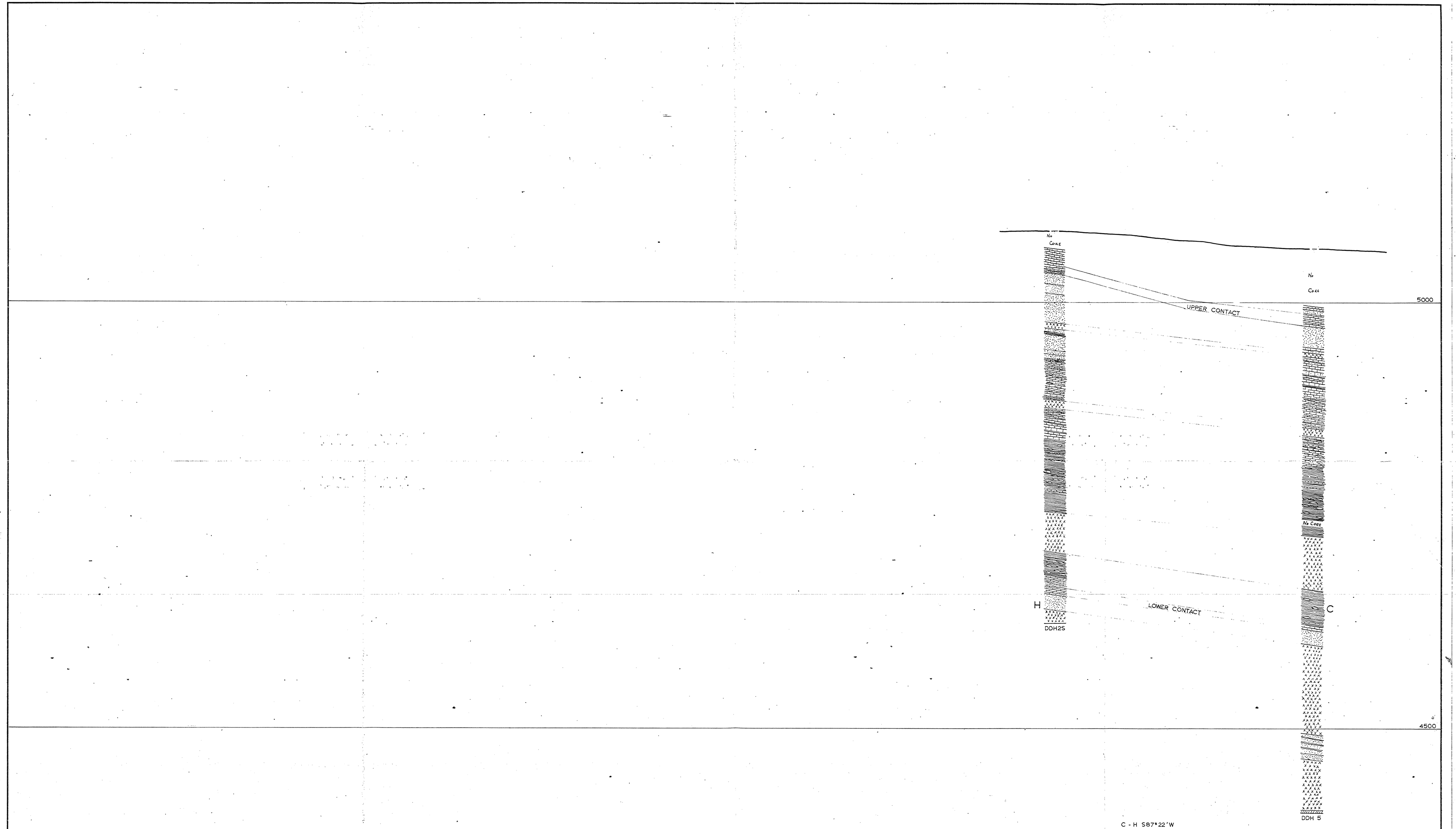
SANDSTONE & QUARTZITE

CONGLOMERATE

PRECAMBRIAN

DOUBLE RAINBOW MINE
LEGEND

DWG. NO.



DATE	BY	REVISIONS

HOMESTAKE MINING CO.
LEAD, SO. DAK.
GEOLOGY DEPARTMENT

DRAWN BY GCM APPROVED
TRACED SCALE 1" = 50'
CHECKED DATE

DOUBLE RAINBOW MINE
SECTION CH
(OME - 6558(Silver) Contract 2233)

DWG. NO.

FELDSPAR PORPHYRY

SHALE & PEBBLES

LIMESTONE & DOLOMITE

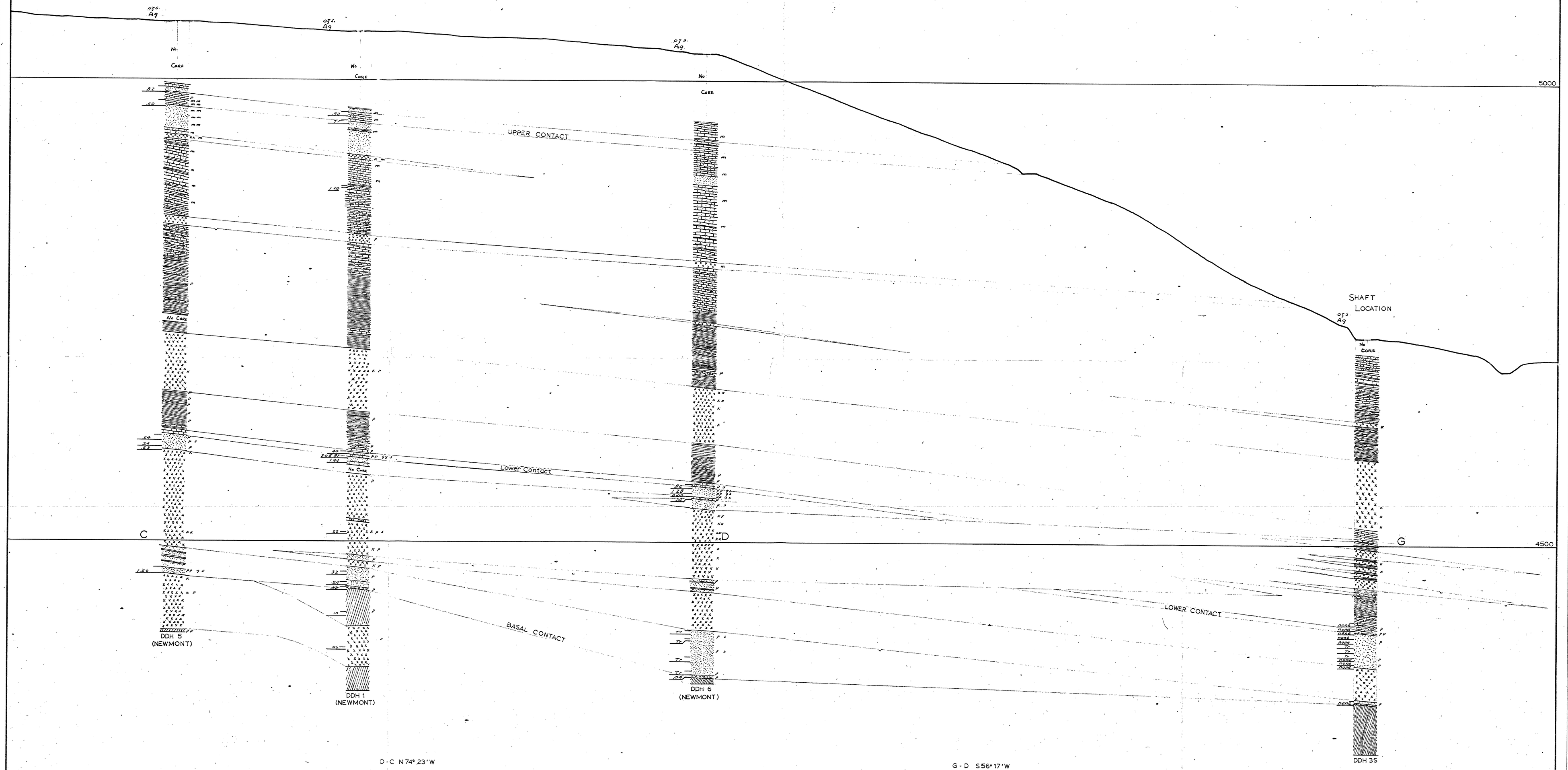
SANDSTONE & QUARTZITE

CONGLOMERATE

PRECAMBRIAN

DOUBLE RAINBOW MINE
LEGEND

DWG. NO.



DATE	BY	REVISIONS

DRAWN BY GCM APPROVED
TRACED SCALE 1"=50'
CHECKED DATE June 1, 1967

DOUBLE RAINBOW MINE
SECTION CDG
(OME - 6558 (Silver) Contract 2233)

DWG. NO.

MINERALIZATION

p PYRITE

g GALENA

s SPHALERITE

m MANGANESE

k KAOLINIZATION

NOTE: Single letters (as p) denote weak or disseminated mineralization or alteration. Double letters (as pp) denote modgerate to strong mineralization or alteration.

LITHOLOGY

FELDSPAR PORPHYRY

SHALE & PEBBLES

LIMESTONE & DOLOMITE

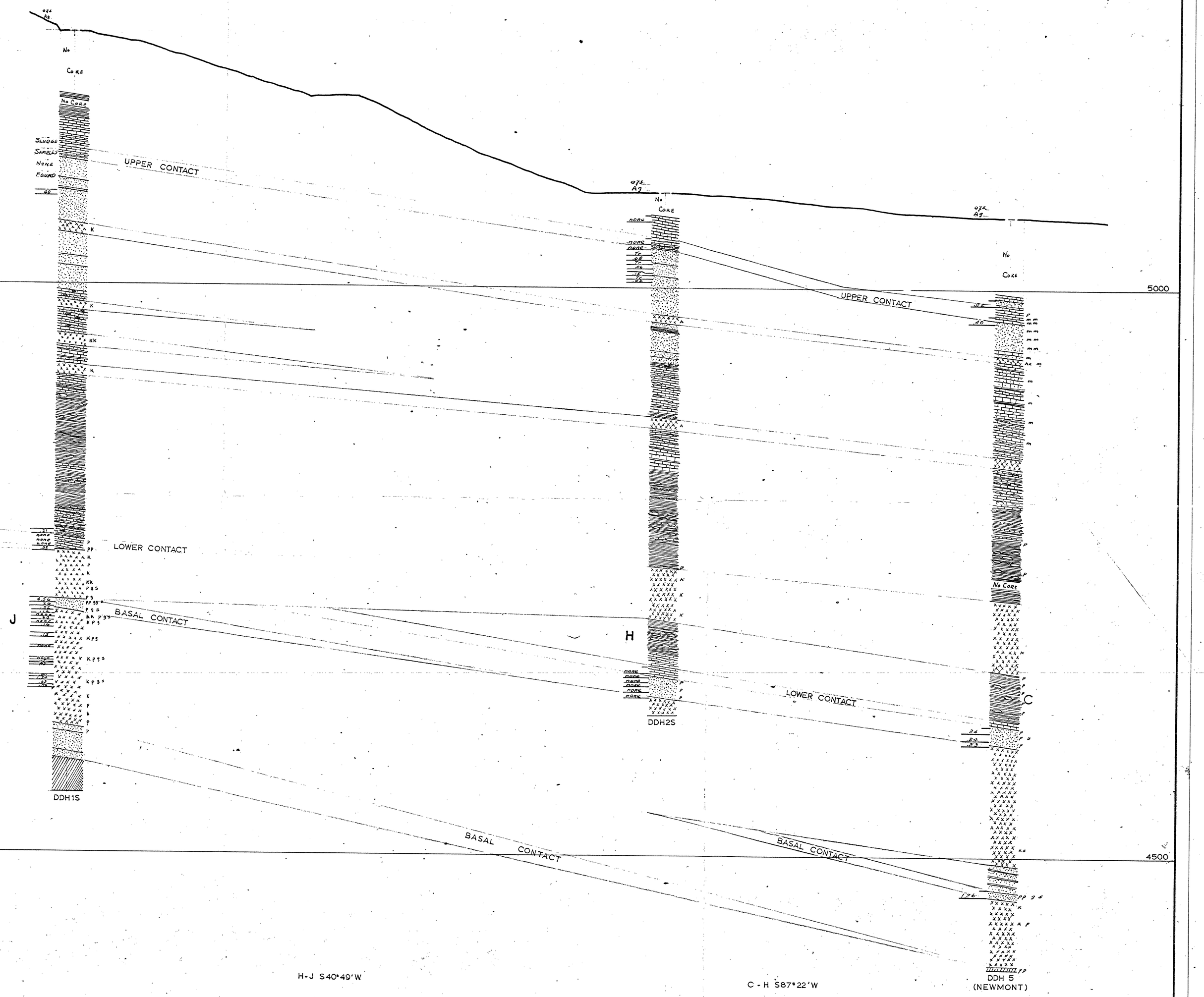
SANDSTONE & QUARTZITE

CONGLOMERATE

PRECAMBRIAN

DOUBLE RAINBOW MINE
LEGEND

DWG. NO.



DATE	BY	REVISIONS

DRAWN BY GCM APPROVED
TRACED SCALE 1" = 50'
CHECKED DATE June 1, 1967

DOUBLE RAINBOW MINE
SECTION CHJ
(OME - 6558(Silver) Contract 2233)

DWG. NO.

MINERALIZATION

p PYRITE

g GALENA

s SPHALERITE

m MANGANESE

k KAOLINIZATION

NOTE: Single letters (as p) denote weak or disseminated mineralization or alteration. Double letters (as pp) denote moderate to strong mineralization or alteration.

LITHOLOGY

FELDSPAR PORPHYRY

SHALE & PEBBLES

LIMESTONE & DOLOMITE

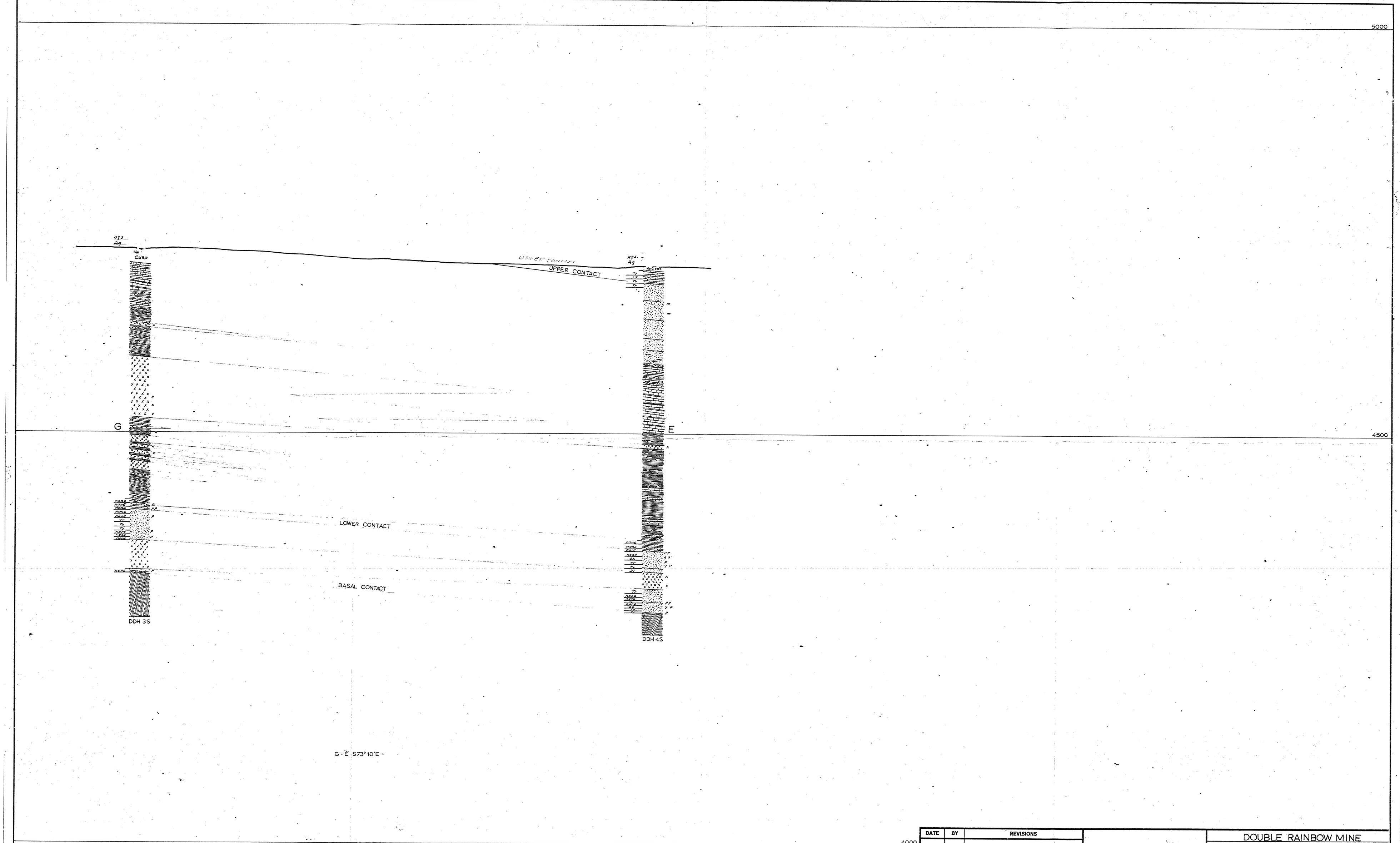
SANDSTONE & QUARTZITE

CONGLOMERATE

PRECAMBRIAN

DOUBLE RAINBOW MINE
LEGEND

DWG. NO.



DATE	BY	REVISIONS

DRAWN BY GCM APPROVED
TRACED SCALE 1" = 50'
CHECKED DATE June 1, 1967

DOUBLE RAINBOW MINE
SECTION GE
(OME - 6558(Silver), Contract 2233)

DWG. NO.

MINERALIZATION

p PYRITE

g GALENA

s SPHALERITE

m MANGANESE

k KAOLINIZATION

NOTE: Single letters (as p) denote weak or disseminated mineralization or alteration. Double letters (as pp) denote moderate to strong mineralization or alteration.

LITHOLOGY

FELDSPAR PORPHYRY

SHALE & PEBBLES

LIMESTONE & DOLOMITE

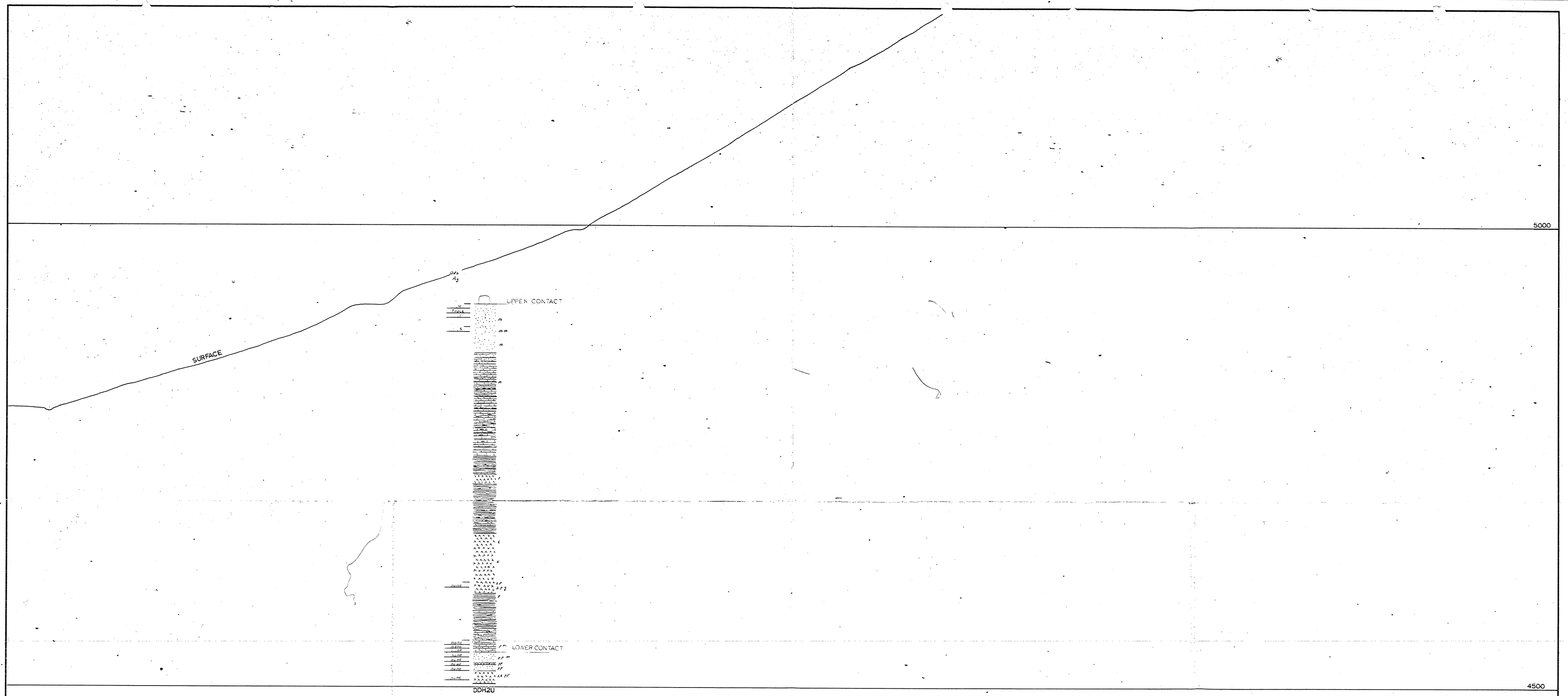
SANDSTONE & QUARTZITE

CONGLOMERATE

PRECAMBRIAN

DOUBLE RAINBOW MINE
LEGEND

DWG. NO.



DATE	BY	REVISIONS
—		

HOMESTAKE MINING CO.
LEAD, SO. DAK.
DEPARTMENT

DRAWN BY J.M.W. APPROVED
TRACED SCALE 1" = 50'
CHECKED DATE 9 26 - 1967

DOUBLE RAINBOW MINE

(OME - 6558 (Silver) Contract 2233)

DWG. NO. F.

MINERALIZATION

p PYRITE

g GALENA

s SPHALERITE

m MANGANESE

k KAOLINIZATION

NOTE: Single letters (as p) denote weak or disseminated mineralization or alteration. Double letters (as pp) denote moderate to strong mineralization or alteration.

LITHOLOGY

FELDSPAR PORPHYRY

SHALE & PEBBLES

LIMESTONE & DOLOMITE

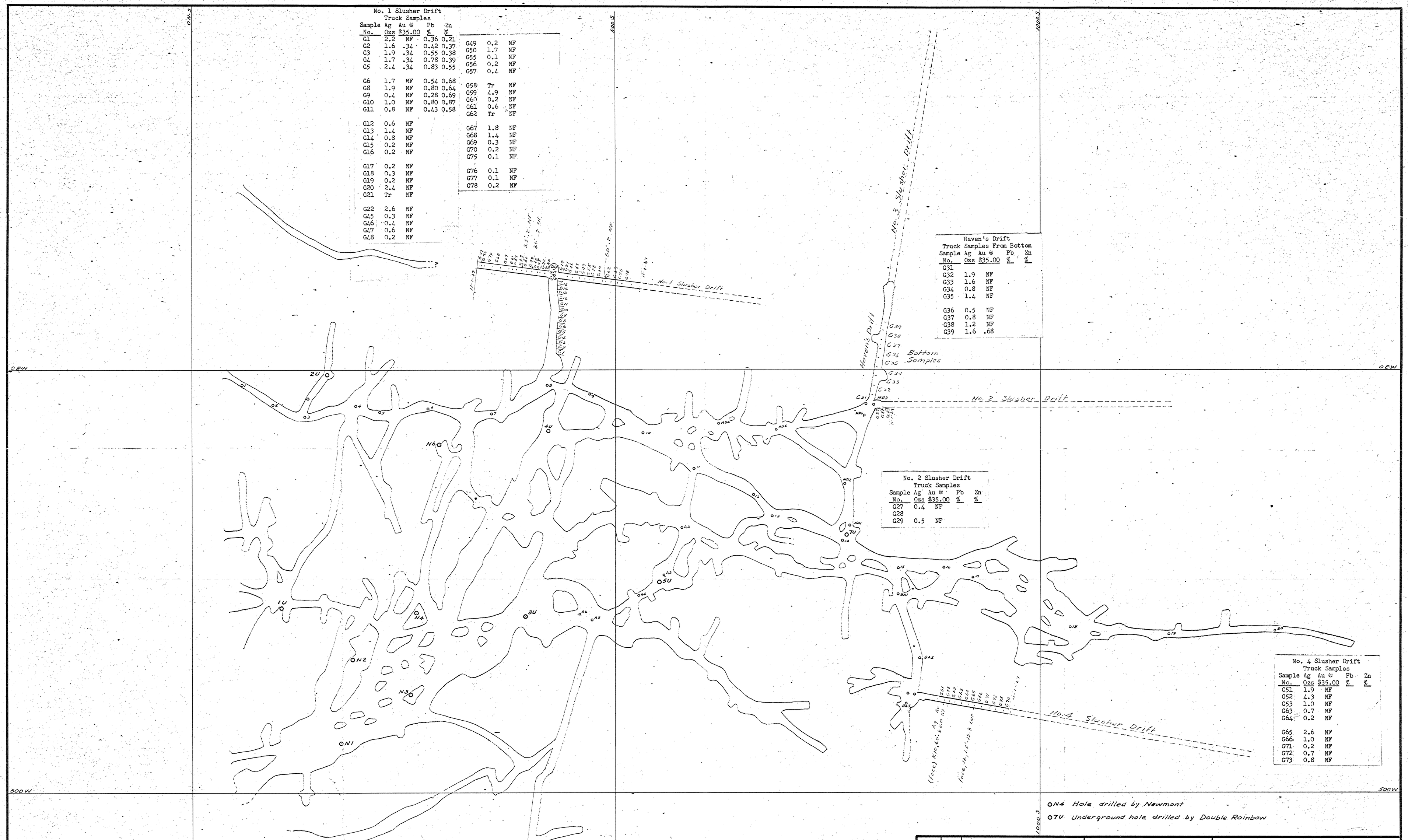
SANDSTONE & QUARTZITE

CONGLOMERATE

PRECAMBRIAN

DOUBLE RAINBOW MINE
LEGEND

DWG. NO.



No. 1 Slusher Drift
Truck Samples

Sample No.	Ag Ozs	Au @ $35.00	Pb %	Zn %
G1	2.2	NF	0.36	0.21
G2	1.6	.34	0.42	0.37
G3	1.9	.34	0.55	0.38
G4	1.7	.34	0.78	0.39
G5	2.4	.34	0.83	0.55
G6	1.7	NF	0.54	0.68
G8	1.9	NF	0.80	0.64
G9	0.4	NF	0.28	0.69
G10	1.0	NF	0.80	0.87
G11	0.8	NF	0.43	0.58
G12	0.6	NF		
G13	1.4	NF		
G14	0.8	NF		
G15	0.2	NF		
G16	0.2	NF		
G17	0.2	NF		
G18	0.3	NF		
G19	0.2	NF		
G20	2.4	NF		
G21	Tr	NF		
G22	2.6	NF		
G45	0.3	NF		
G46	0.4	NF		
G47	0.6	NF		
G48	0.2	NF		
G49	0.2	NF		
G50	1.7	NF		
G55	0.1	NF		
G56	0.2	NF		
G57	0.4	NF		
G58	Tr	NF		
G59	4.9	NF		
G60	0.2	NF		
G61	0.6	NF		
G62	Tr	NF		
G67	1.8	NF		
G68	1.4	NF		
G69	0.3	NF		
G70	0.2	NF		
G75	0.1	NF		
G76	0.1	NF		
G77	0.1	NF		
G78	0.2	NF		

Haven's Drift
Truck Samples From Bottom

Sample No.	Ag Ozs	Au @ $35.00	Pb %	Zn %
G31				
G32	1.9	NF		
G33	1.6	NF		
G34	0.8	NF		
G35	1.4	NF		
G36	0.5	NF		
G37	0.8	NF		
G38	1.2	NF		
G39	1.6	.68		

No. 2 Slusher Drift
Truck Samples

Sample No.	Ag Ozs	Au @ $35.00	Pb %	Zn %
G27	0.4	NF		
G28				
G29	0.5	NF		

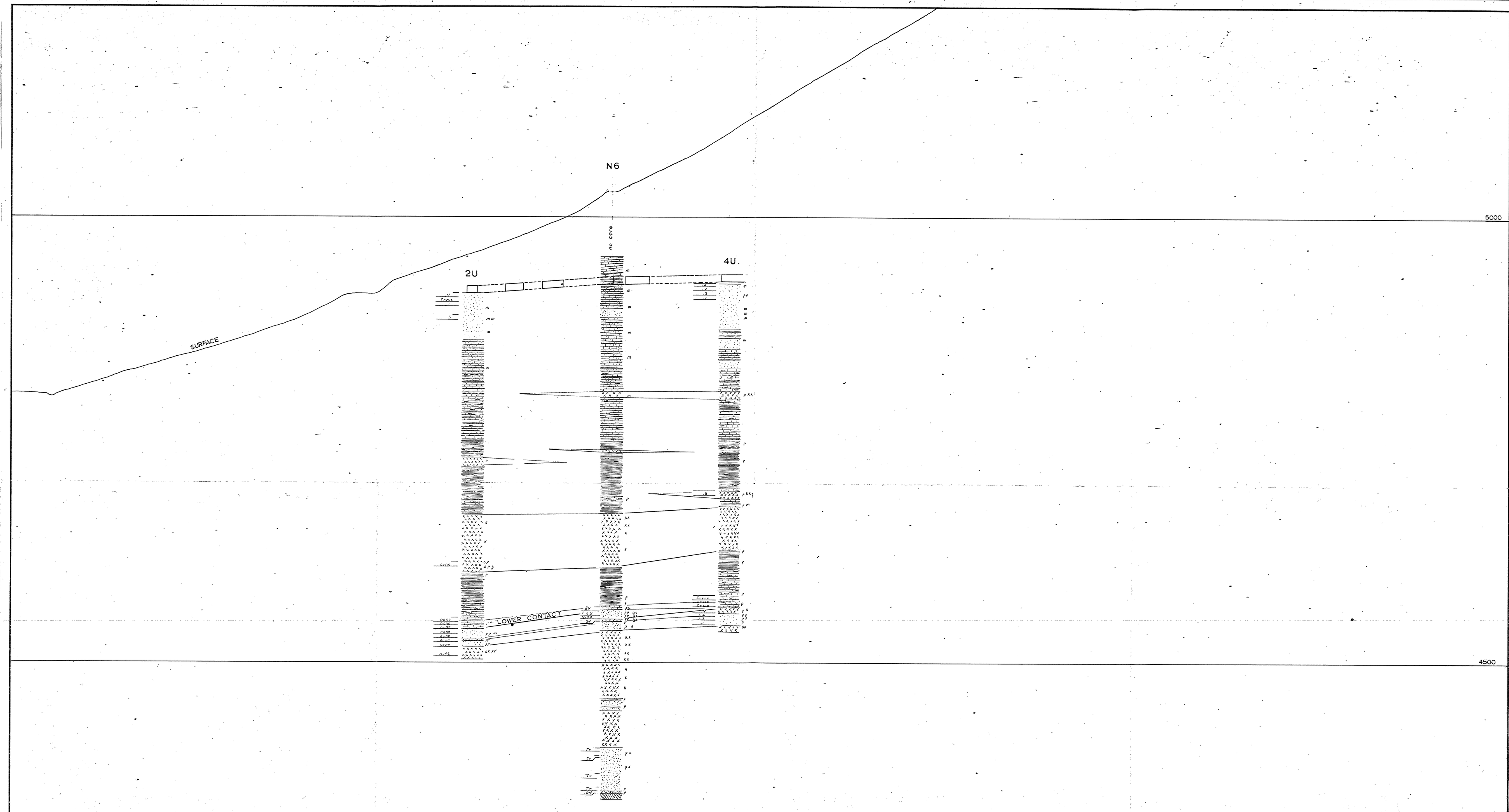
No. 4 Slusher Drift
Truck Samples

Sample No.	Ag Ozs	Au @ $35.00	Pb %	Zn %
G51	1.9	NF		
G52	4.3	NF		
G53	1.0	NF		
G63	0.7	NF		
G64	0.2	NF		
G65	2.6	NF		
G66	1.0	NF		
G71	0.2	NF		
G72	0.7	NF		
G73	0.8	NF		

DATE	BY	REVISIONS

DRAWN BY ____ APPROVED ____
TRACED ____ SCALE 1" = 50'
CHECKED ____ DATE 10 - 5 - 67

DOUBLE RAINBOW MINES, Inc.
RICHMOND - SITTING BULL MINE
OME - 6558 (Silver) Contract No. 2233
DWG. NO. 11-1-67 F.



MINERALIZATION

p PYRITE

g GALENA

s SPHALERITE

m MANGANESE

k KAOLINIZATION

NOTE: Single letters (as m) denote weak or disseminated mineralization or alteration. Double letters (as pp) denote moderate to strong mineralization or alteration.

Assays shown are ounces of silver.

LITHOLOGY

FELDSPAR PORPHYRY

SHALE & PEBBLES

LIMESTONE & DOLOMITE

SANDSTONE & QUARTZITE

CONGLOMERATE

PRECAMBRIAN

11-1-67
8U & 6U not yet drilled

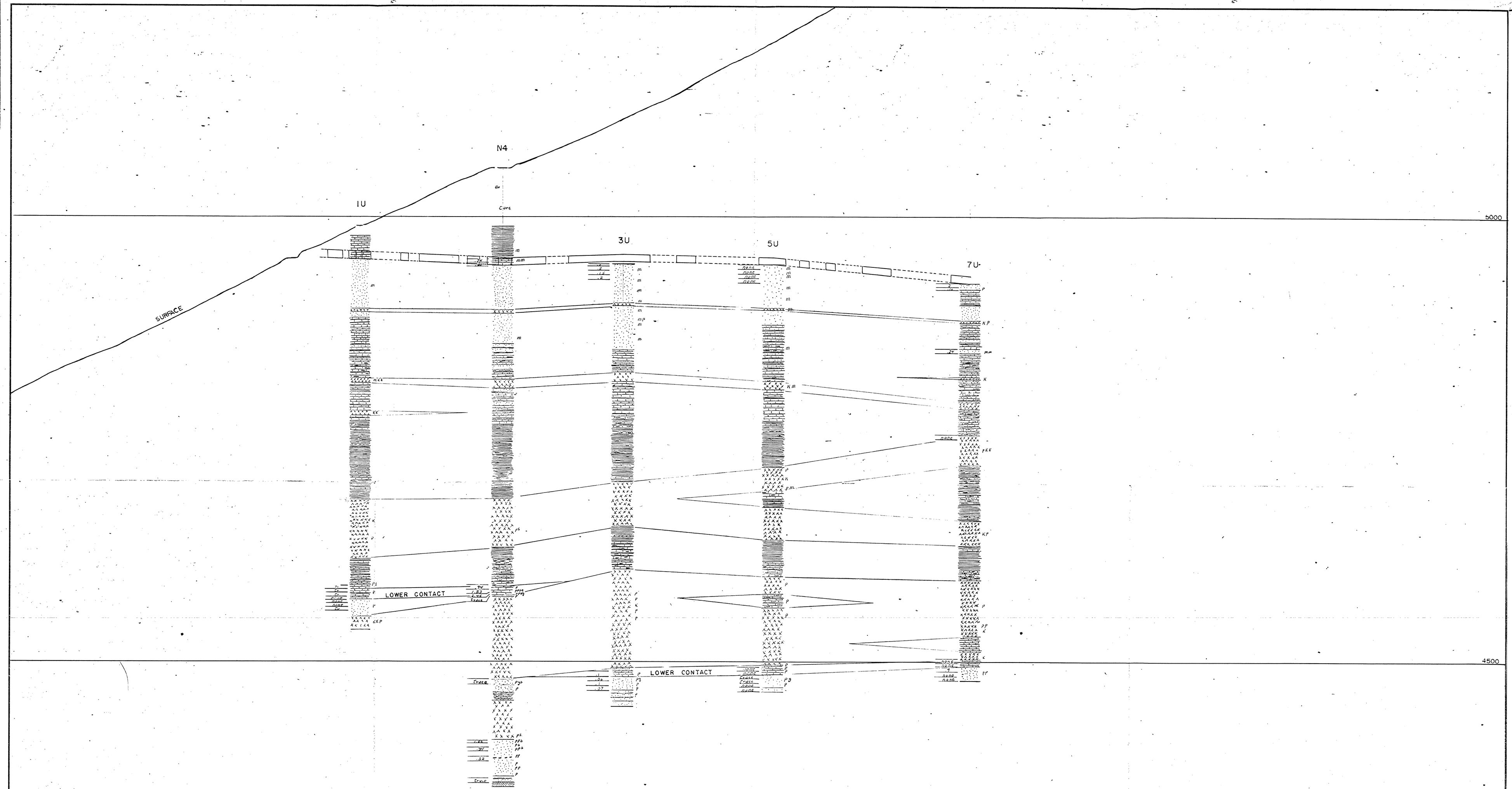
DATE	BY	REVISIONS

HOMESTAKE MINING CO.
LEAD, SO. DAK.
DEPARTMENT

DRAWN BY J.M.W. APPROVED
TRACED SCALE 1" 50'
CHECKED DATE 9-26-1967

DOUBLE RAINBOW MINE
SECTION THROUGH DRILL HOLES
8U, 6U, 4U, N6, & 2U - FACING EAST
OME-6558(Silver) Contract 2233

DOUBLE RAINBOW MINE
LEGEND



MINERALIZATION

p PYRITE

g GALENA

s SPHALERITE

m MANGANESE

k KAOLINIZATION

NOTE; Single letters (p) denote weak or disseminated mineralization or alteration. Double letters (as pp) denote moderate to strong mineralization or alteration.

Assays shown are ounces of silver.

LITHOLOGY

FELDSPAR PORPHYRY

SHALE & PEBBLES

LIMESTONE & DOLOMITE

SANDSTONE & QUARTZITE

CONGLOMERATE

PRECAMBRIAN

DATE	BY	REVISIONS

HOMESTAKE MINING CO.
LEAD, SO. DAK.
DEPARTMENT

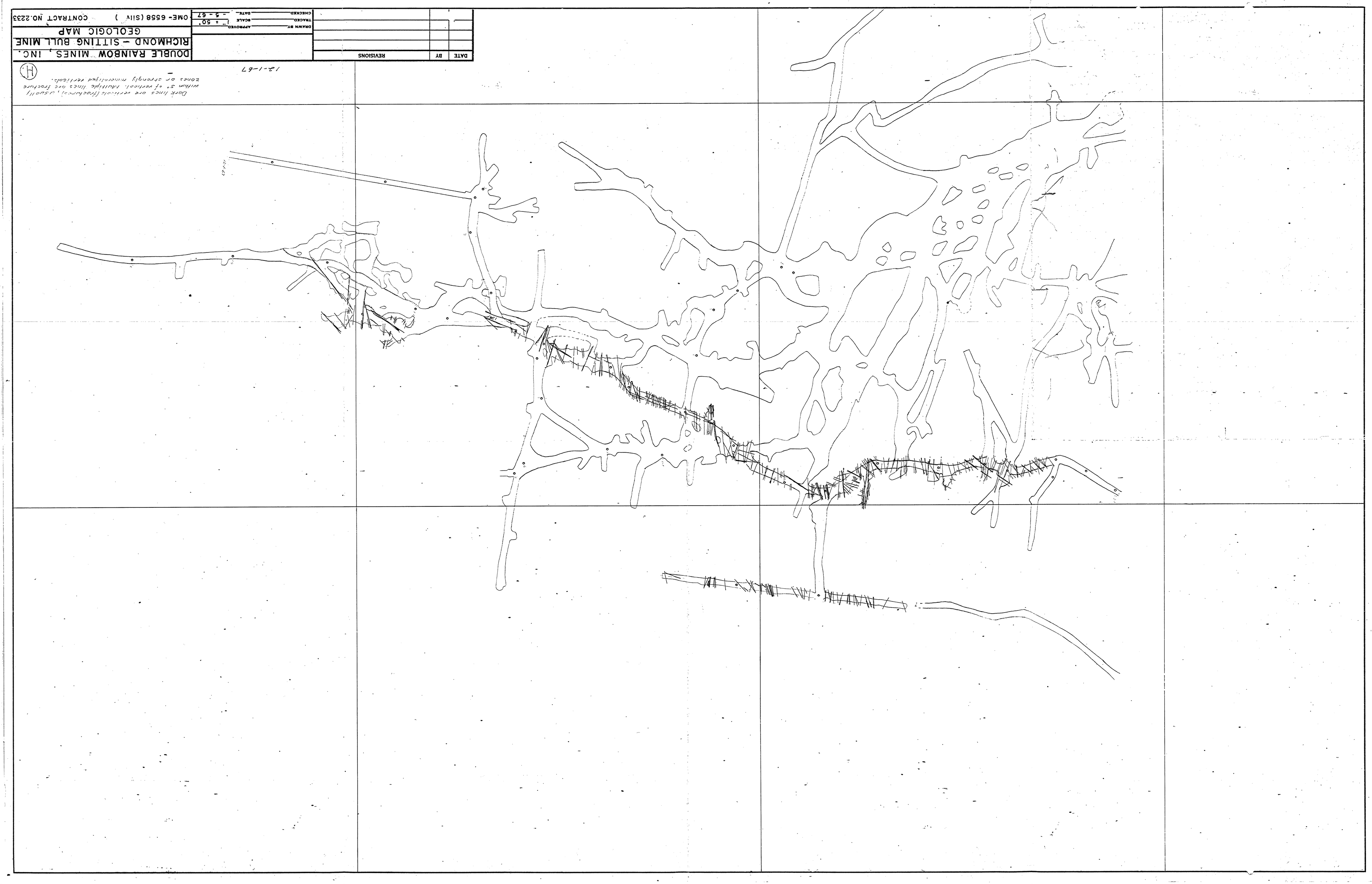
DRAWN BY J MW APPROVED
TRACED SCALE 1" = 50'
CHECKED DATE 9 - 22 - 1967

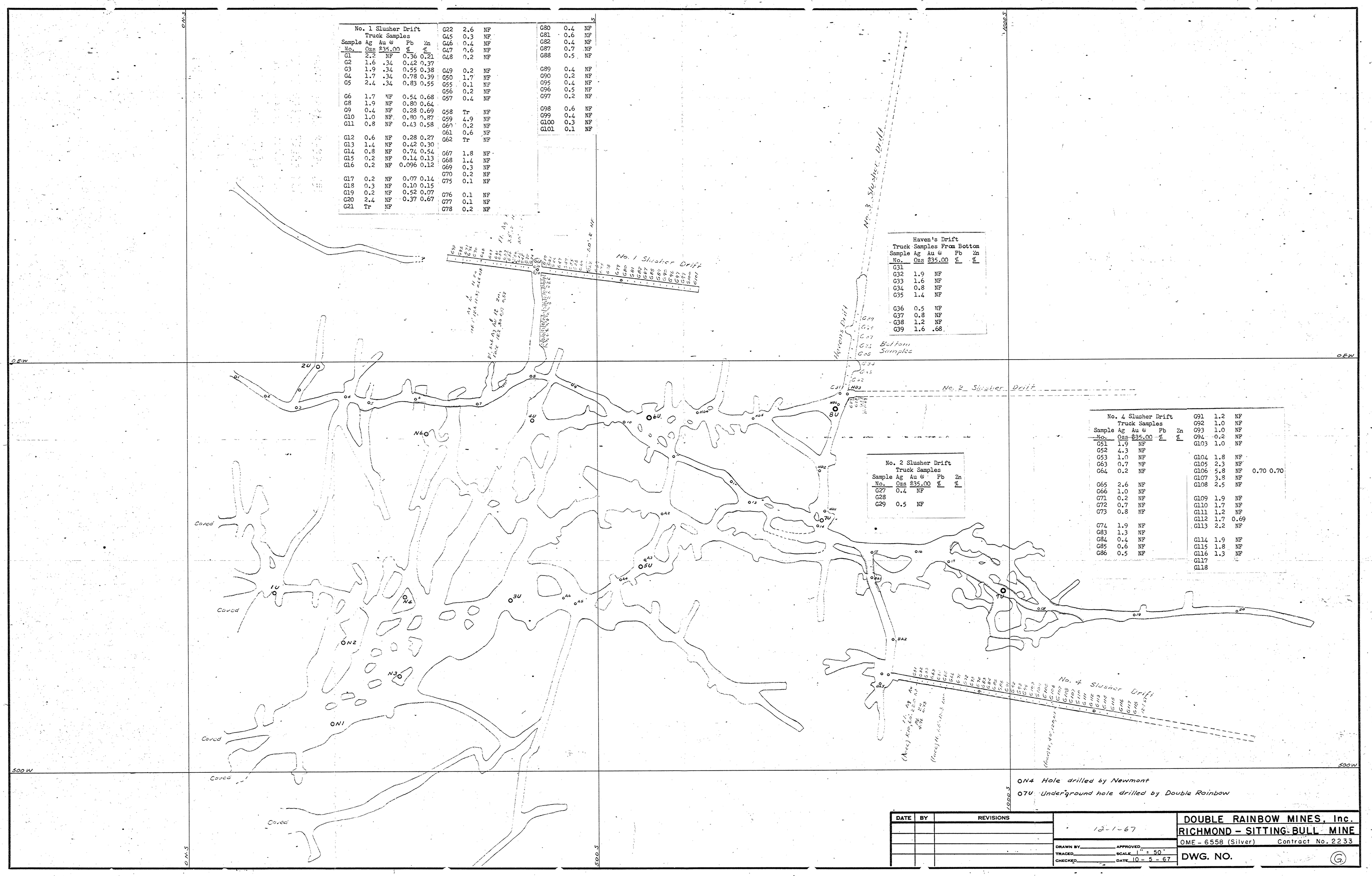
11-1-67

DOUBLE RAINBOW MINE
SECTION THROUGH DRILL HOLES
9U, 7U, 5U, 3U, N4, 1U FACING EAST

OME - 6558 (Silver) Contract 2233

DOUBLE RAINBOW MINE
LEGEND


Dark lines are veinlets (fracture), usually within 5" of vertical. Multiple lines are fracture zones or strongly mineralized veinlets.
12-1-67
H
DOUBLE RAINBOW MINES, INC.
RICHMOND - SITTING BULL MINE
GEOLOGIC MAP
DATE
BY
REVISIONS
DRAWN BY
APPROVED
TRACED
SCALE
1" = 50'
CHECKED
DATE
5 - 67
OME- 6558 (SIIV)
CONTRACT NO. 2233



No. 1 Slusher Drift Truck Samples				
Sample No.	Ag Ozs	Au @ $35.00	Pb %	Zn %
G1	2.2	NF	0.36	0.21
G2	1.6	.34	0.42	0.37
G3	1.9	.34	0.55	0.38
G4	1.7	.34	0.78	0.39
G5	2.4	.34	0.83	0.55
G6	1.7	NF	0.54	0.68
G8	1.9	NF	0.80	0.64
G9	0.4	NF	0.28	0.69
G10	1.0	NF	0.80	0.87
G11	0.8	NF	0.43	0.58
G12	0.6	NF	0.28	0.27
G13	1.4	NF	0.42	0.30
G14	0.8	NF	0.74	0.54
G15	0.2	NF	0.14	0.13
G16	0.2	NF	0.096	0.12
G17	0.2	NF	0.07	0.14
G18	0.3	NF	0.10	0.15
G19	0.2	NF	0.52	0.07
G20	2.4	NF	0.37	0.67
G21	Tr	NF		
G22	2.6	NF		
G45	0.3	NF		
G46	0.4	NF		
G47	0.6	NF		
G48	0.2	NF		
G49	0.2	NF		
G50	1.7	NF		
G55	0.1	NF		
G56	0.2	NF		
G57	0.4	NF		
G58	Tr	NF		
G59	4.9	NF		
G60	0.2	NF		
G61	0.6	NF		
G62	Tr	NF		
G67	1.8	NF		
G68	1.4	NF		
G69	0.3	NF		
G70	0.2	NF		
G75	0.1	NF		
G76	0.1	NF		
G77	0.1	NF		
G78	0.2	NF		
G80	0.4	NF		
G81	0.6	NF		
G82	0.4	NF		
G87	0.7	NF		
G88	0.5	NF		
G89	0.4	NF		
G90	0.2	NF		
G95	0.4	NF		
G96	0.5	NF		
G97	0.2	NF		
G98	0.6	NF		
G99	0.4	NF		
G100	0.3	NF		
G101	0.1	NF		

Haven's Drift Truck Samples From Bottom				
Sample No.	Ag Ozs	Au @ $35.00	Pb %	Zn %
G31				
G32	1.9	NF		
G33	1.6	NF		
G34	0.8	NF		
G35	1.4	NF		
G36	0.5	NF		
G37	0.8	NF		
G38	1.2	NF		
G39	1.6	.68		

No. 2 Slusher Drift Truck Samples				
Sample No.	Ag Ozs	Au @ $35.00	Pb %	Zn %
G27	0.4	NF		
G28				
G29	0.5	NF		

No. 4 Slusher Drift Truck Samples				
Sample No.	Ag Ozs	Au @ $35.00	Pb %	Zn %
G51	1.9	NF		
G52	4.3	NF		
G53	1.0	NF		
G63	0.7	NF		
G64	0.2	NF		
G65	2.6	NF		
G66	1.0	NF		
G71	0.2	NF		
G72	0.7	NF		
G73	0.8	NF		
G74	1.9	NF		
G83	1.3	NF		
G84	0.4	NF		
G85	0.6	NF		
G86	0.5	NF		
G91	1.2	NF		
G92	1.0	NF		
G93	1.0	NF		
G94	0.2	NF		
G103	1.0	NF		
G104	1.8	NF		
G105	2.3	NF		
G106	5.8	NF	0.70	0.70
G107	3.8	NF		
G108	2.5	NF		
G109	1.9	NF		
G110	1.7	NF		
G111	1.2	NF		
G112	1.7	0.69		
G113	2.2	NF		
G114	1.9	NF		
G115	1.8	NF		
G116	1.3	NF		
G117				
G118				

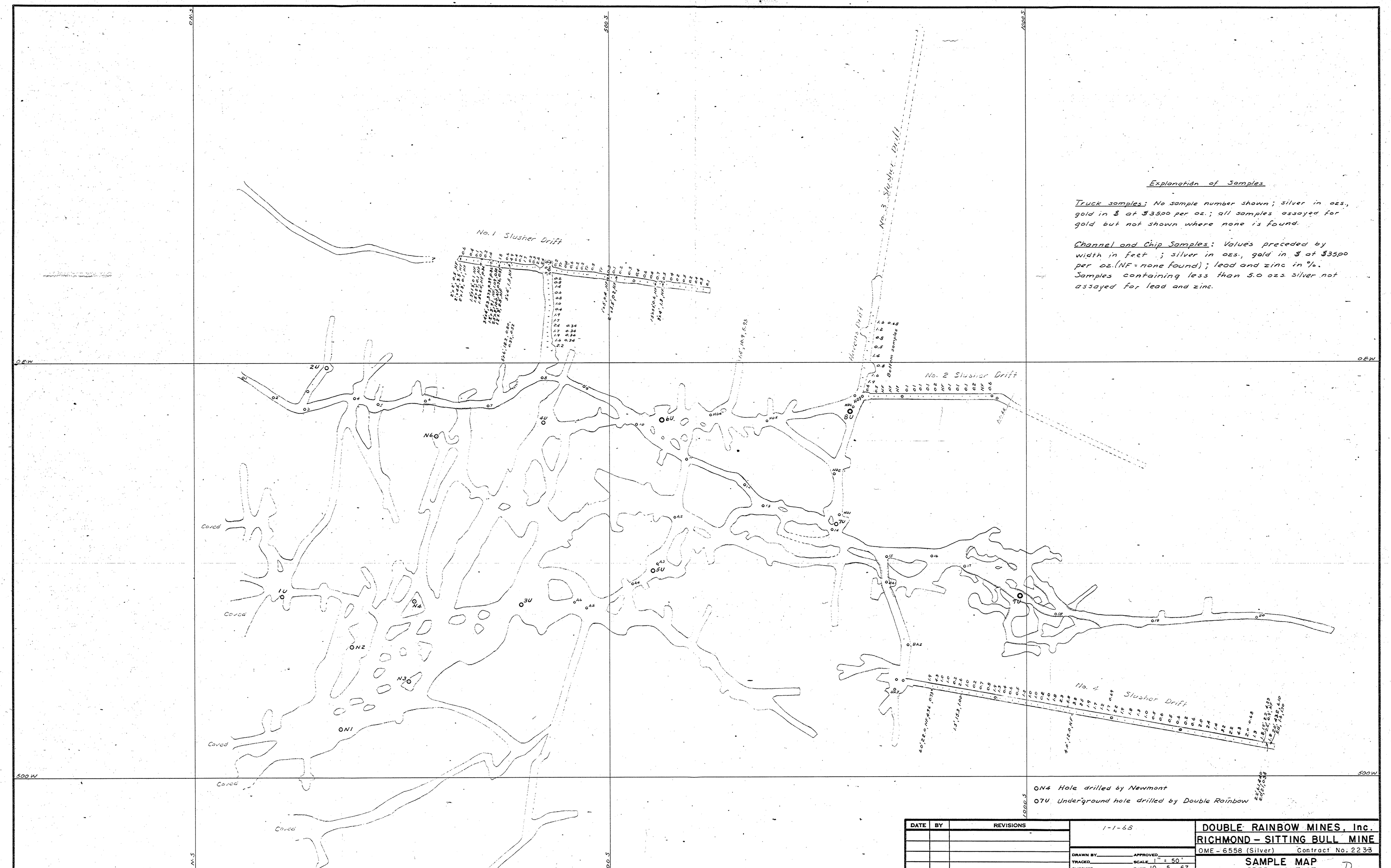
DATE	BY	REVISIONS

12-1-67

DRAWN BY ____ APPROVED ____
TRACED ____ SCALE 1" = 50'
CHECKED ____ DATE 10 - 5 - 67

DOUBLE RAINBOW MINES, Inc.
RICHMOND – SITTING BULL MINE
OME – 6558 (Silver) Contract No. 2233

DWG. NO. G



Explanation of Samples

Truck samples: No sample number shown; silver in ozs., gold in $ at $35.00 per oz.; all samples assayed for gold but not shown where none is found.

Channel and Chip Samples: Values preceded by width in feet; silver in ozs., gold in $ at $35.00 per oz. (NF = none found); lead and zinc in %. Samples containing less than 5.0 ozs. silver not assayed for lead and zinc.

DATE	BY	REVISIONS

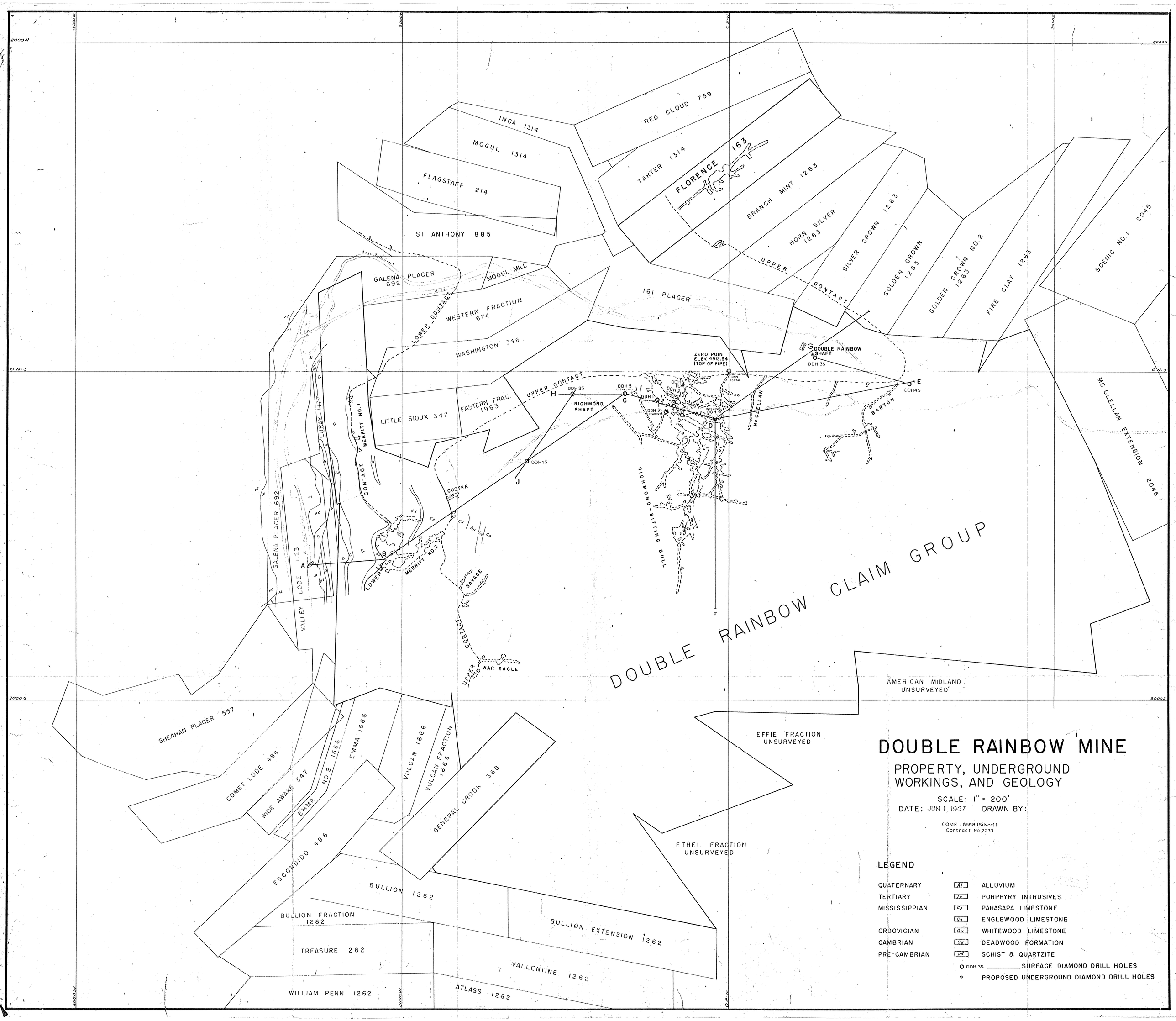
1-1-68

DRAWN BY ____ APPROVED ____
TRACED ____ SCALE 1" = 50'
CHECKED ____ DATE 10 - 5 - 67

DOUBLE RAINBOW MINES, Inc.
RICHMOND - SITTING BULL MINE
OME - 6558 (Silver) Contract No. 2233

SAMPLE MAP
UPPER CONTACT

D.



DOUBLE RAINBOW MINE

PROPERTY, UNDERGROUND WORKINGS, AND GEOLOGY

SCALE: 1" = 200'

DATE: JUN 1, 1967 DRAWN BY:

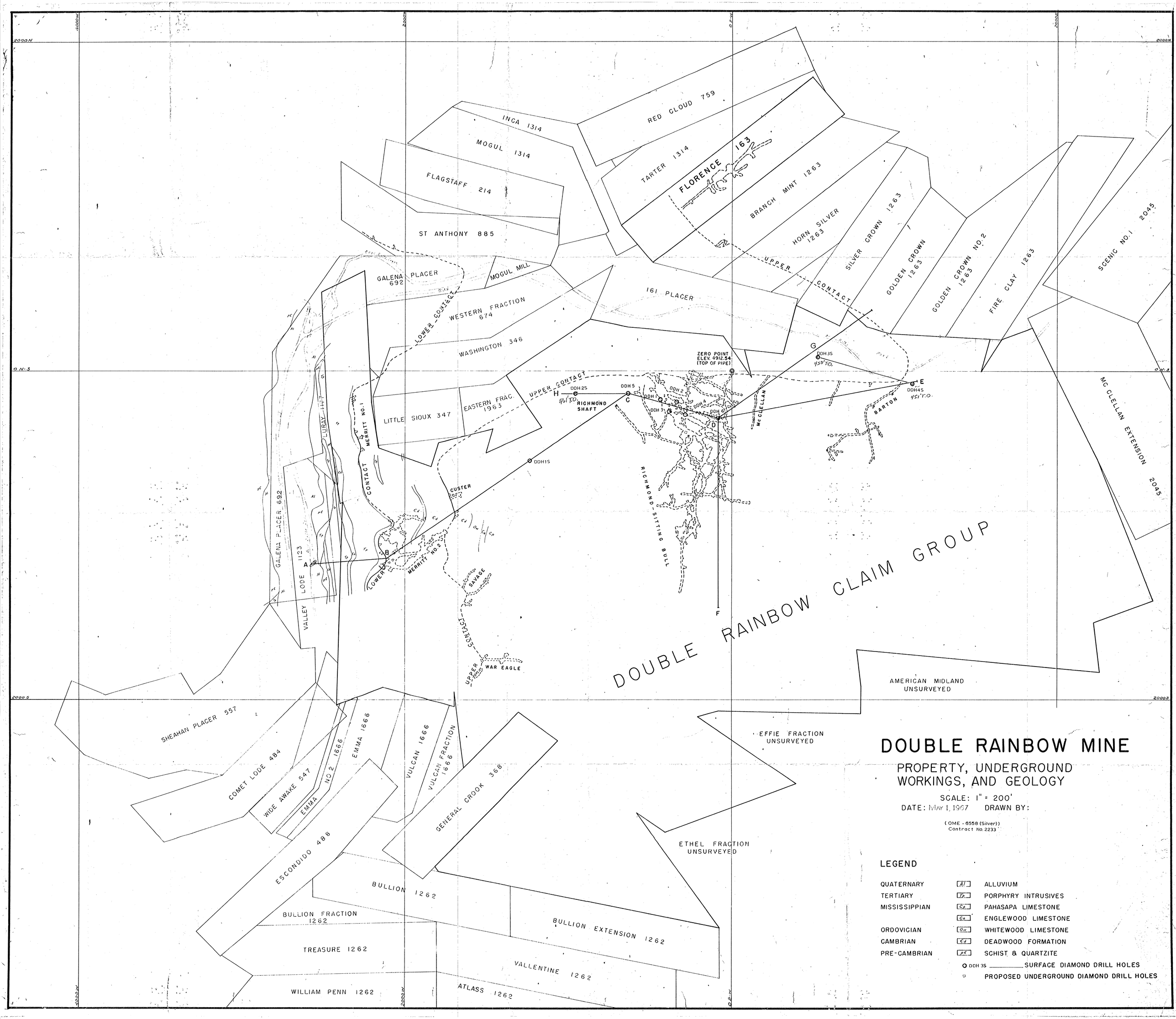
(OME - 6558 (Silver))
Contract No.2233

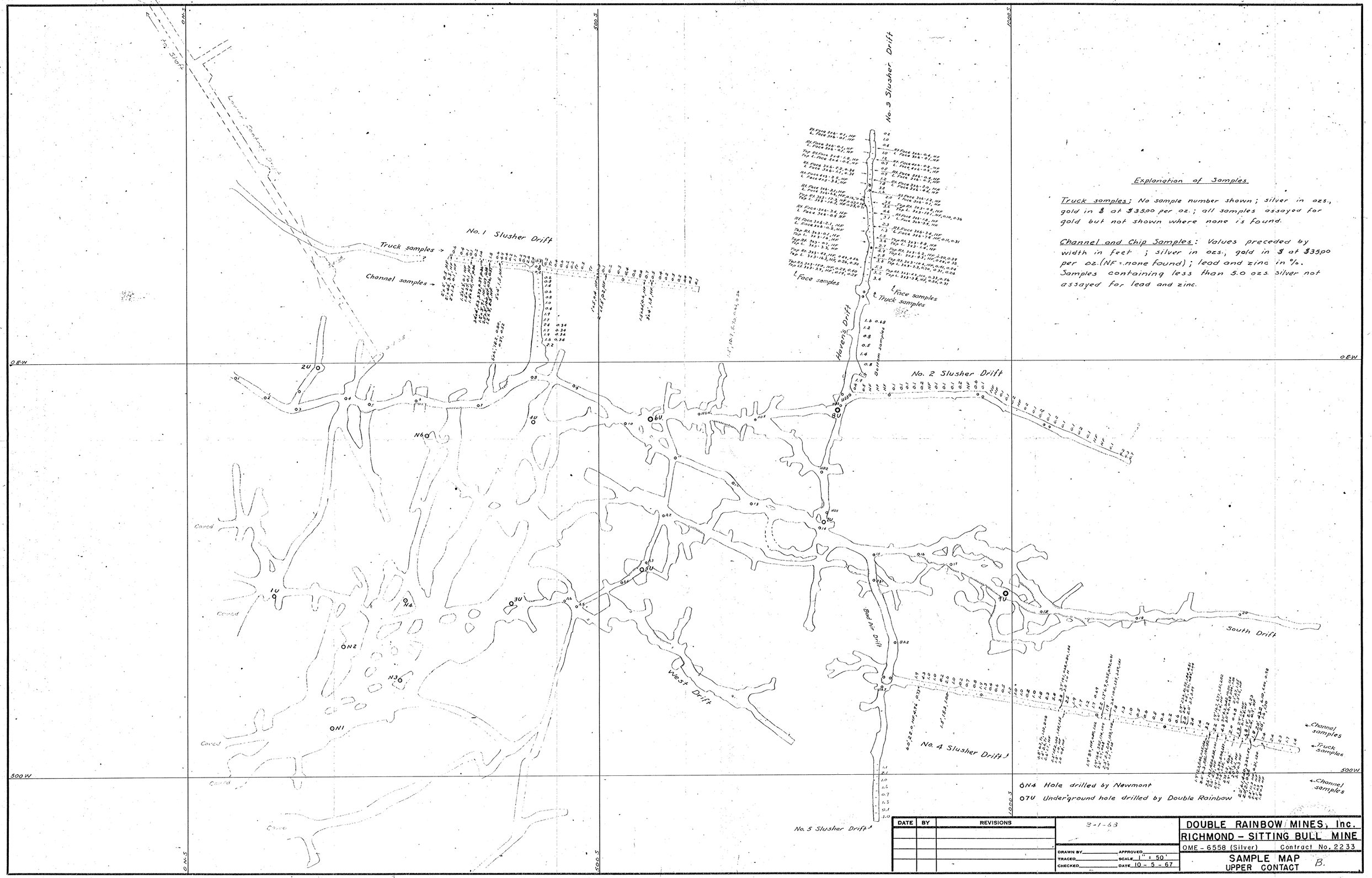
LEGEND

QUATERNARY	Al	ALLUVIUM
TERTIARY	Tp	PORPHYRY INTRUSIVES
MISSISSIPPIAN	Cp	PAHASAPA LIMESTONE
	Ce	ENGLEWOOD LIMESTONE
ORDOVICIAN	Ow	WHITEWOOD LIMESTONE
CAMBRIAN	Cd	DEADWOOD FORMATION
PRE-CAMBRIAN	p€	SCHIST & QUARTZITE

O DDH 3S _____ SURFACE DIAMOND DRILL HOLES

PROPOSED UNDERGROUND DIAMOND DRILL HOLES


DOUBLE RAINBOW MINE
PROPERTY, UNDERGROUND WORKINGS, AND GEOLOGY
SCALE: 1" = 200'
DATE: May 1, 1967
DRAWN BY:
(OME - 6558 (Silver))
Contract No. 2233
LEGEND
QUATERNARY Al ALLUVIUM
TERTIARY Tp PORPHYRY INTRUSIVES
MISSISSIPPIAN Ꞓ2 PAHASAPA LIMESTONE
Ꞓe ENGLEWOOD LIMESTONE
ORDOVICIAN Ow WHITEWOOD LIMESTONE
CAMBRIAN Ꞓd DEADWOOD FORMATION
PRE-CAMBRIAN p€ SCHIST & QUARTZITE
DDH 3S SURFACE DIAMOND DRILL HOLES
PROPOSED UNDERGROUND DIAMOND DRILL HOLES
DOUBLE RAINBOW CLAIM GROUP
INCA 1314
MOGUL 1314
FLAGSTAFF 214
ST ANTHONY 885
RED CLOUD 759
TARTER 1314
FLORENCE 163
BRANCH MINT 1263
HORN SILVER 1263
SILVER CROWN 1263
GOLDEN CROWN 1263
GOLDEN CROWN NO. 2 1263
FIRE CLAY 1263
SCENIC NO. 1 2045
GALENA PLACER 692
MOGUL MILL
161 PLACER
WESTERN FRACTION 674
WASHINGTON 346
LITTLE SIOUX 347
EASTERN FRAC. 1963
UPPER CONTACT
LOWER CONTACT
ZERO POINT ELEV. 4912.54 (TOP OF PIPE)
DDH 1S
DDH 2S
DDH 3S
DDH 4S
DDH 5
DDH 6
RICHMOND SHAFT
MERRITT NO. 1
MERRITT NO. 2
CUSTER
LURAY
GALENA PLACER 692
VALLEY LODE 1123
SAVAGE
GRIZZLY
UPPER WAR EAGLE
RICHMOND SITTING BULL
McCLELLAN
BARTON
McCLELLAN EXTENSION 2045
AMERICAN MIDLAND UNSURVEYED
EFFIE FRACTION UNSURVEYED
ETHEL FRACTION UNSURVEYED
SHEAHAN PLACER 557
COMET LODE 484
WIDE AWAKE 547
EMMA NO 2 1666
EMMA 1666
VULCAN 1666
VULCAN FRACTION 1666
GENERAL CROOK 368
ESCONDIDO 488
BULLION 1262
BULLION FRACTION 1262
BULLION EXTENSION 1262
TREASURE 1262
VALLENTINE 1262
WILLIAM PENN 1262
ATLASS 1262

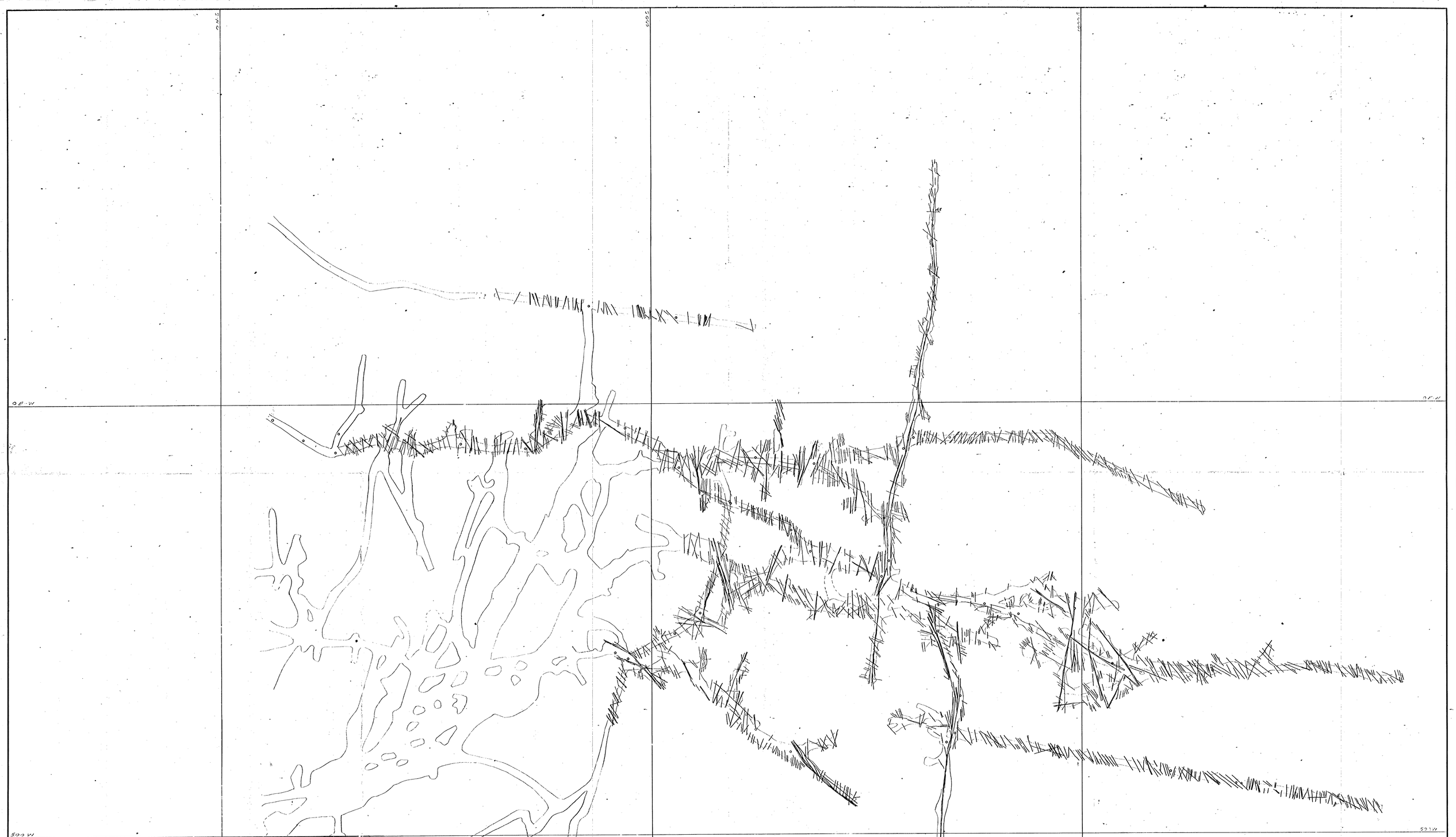


Explanation of Samples

Truck samples: No sample number shown; silver in ozs., gold in $ at $35.00 per oz.; all samples assayed for gold but not shown where none is found.

Channel and Chip Samples: Values preceded by width in feet; silver in ozs., gold in $ at $35.00 per oz. (NF = none found); lead and zinc in %. Samples containing less than 5.0 ozs. silver not assayed for lead and zinc.

ON5



Dark lines are verticals (fractures), usually within 5° of vertical. Multiple lines are fracture zones or strongly mineralized verticals.

DATE	BY	REVISIONS

3-1-68

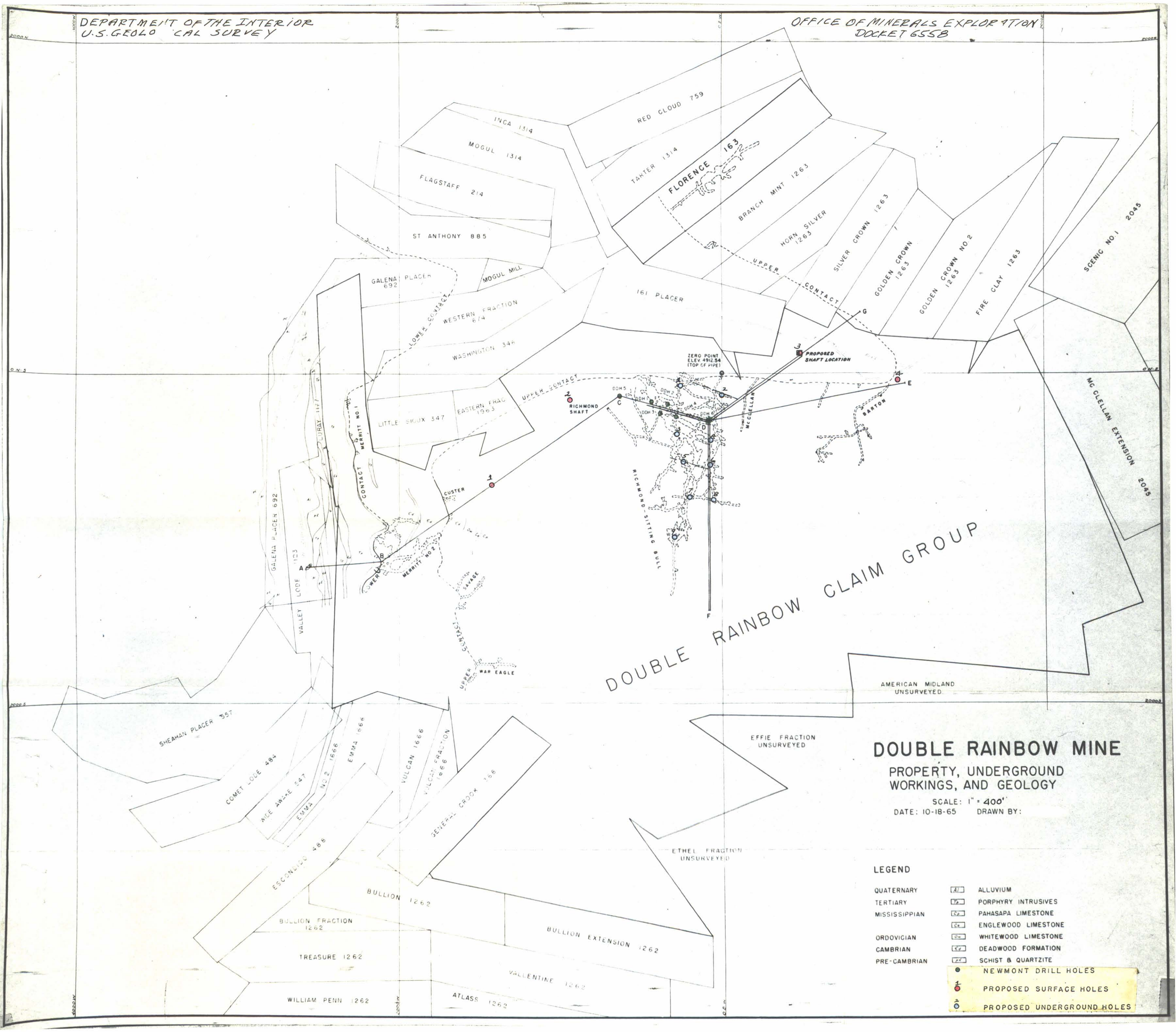
DRAWN BY _____ APPROVED _____
TRACED _____ SCALE 1" = 50'
CHECKED _____ DATE 12-5-67

DOUBLE RAINBOW MINES, INC.
RICHMOND – SITTING BULL MINE
GEOLOGIC MAP C.

OME- 6558 (Silver) CONTRACT NO. 2233

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OFFICE OF MINERALS EXPLORATION
DOCKET 6558



DOUBLE RAINBOW MINE

PROPERTY, UNDERGROUND WORKINGS, AND GEOLOGY

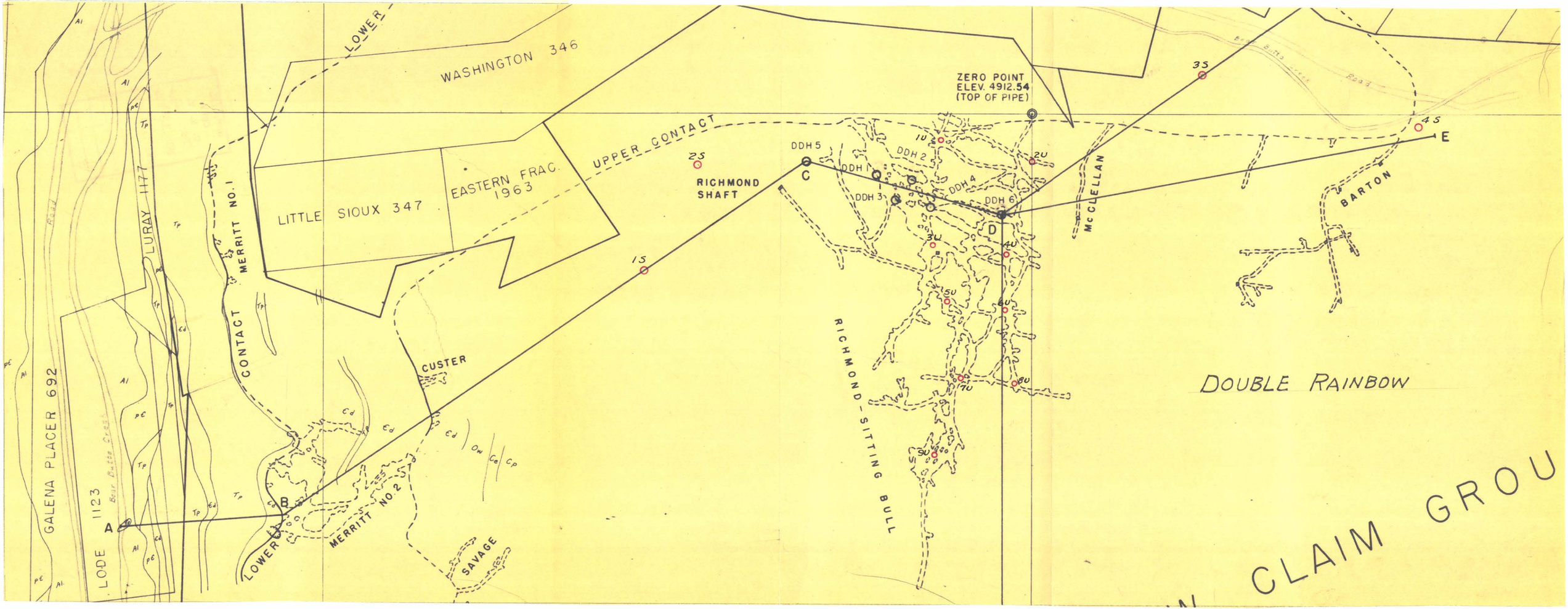
SCALE: 1" = 400'
DATE: 10-18-65 DRAWN BY:

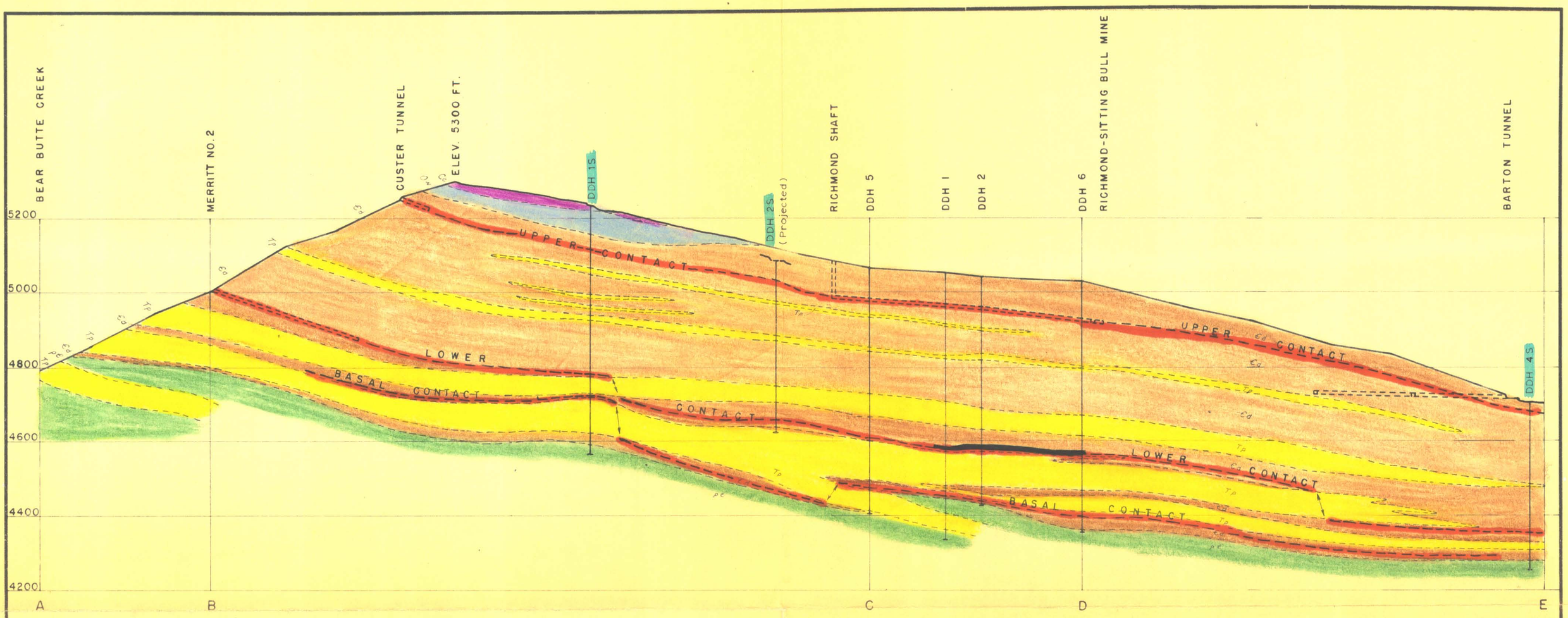
LEGEND

QUATERNARY	Al	ALLUVIUM
TERTIARY	Tp	PORPHYRY INTRUSIVES
MISSISSIPPIAN	Cp	PAHASAPA LIMESTONE
	Ce	ENGLEWOOD LIMESTONE
ORDOVICIAN	Ow	WHITEWOOD LIMESTONE
CAMBRIAN	Cd	DEADWOOD FORMATION
PRE-CAMBRIAN	pЄ	SCHIST & QUARTZITE

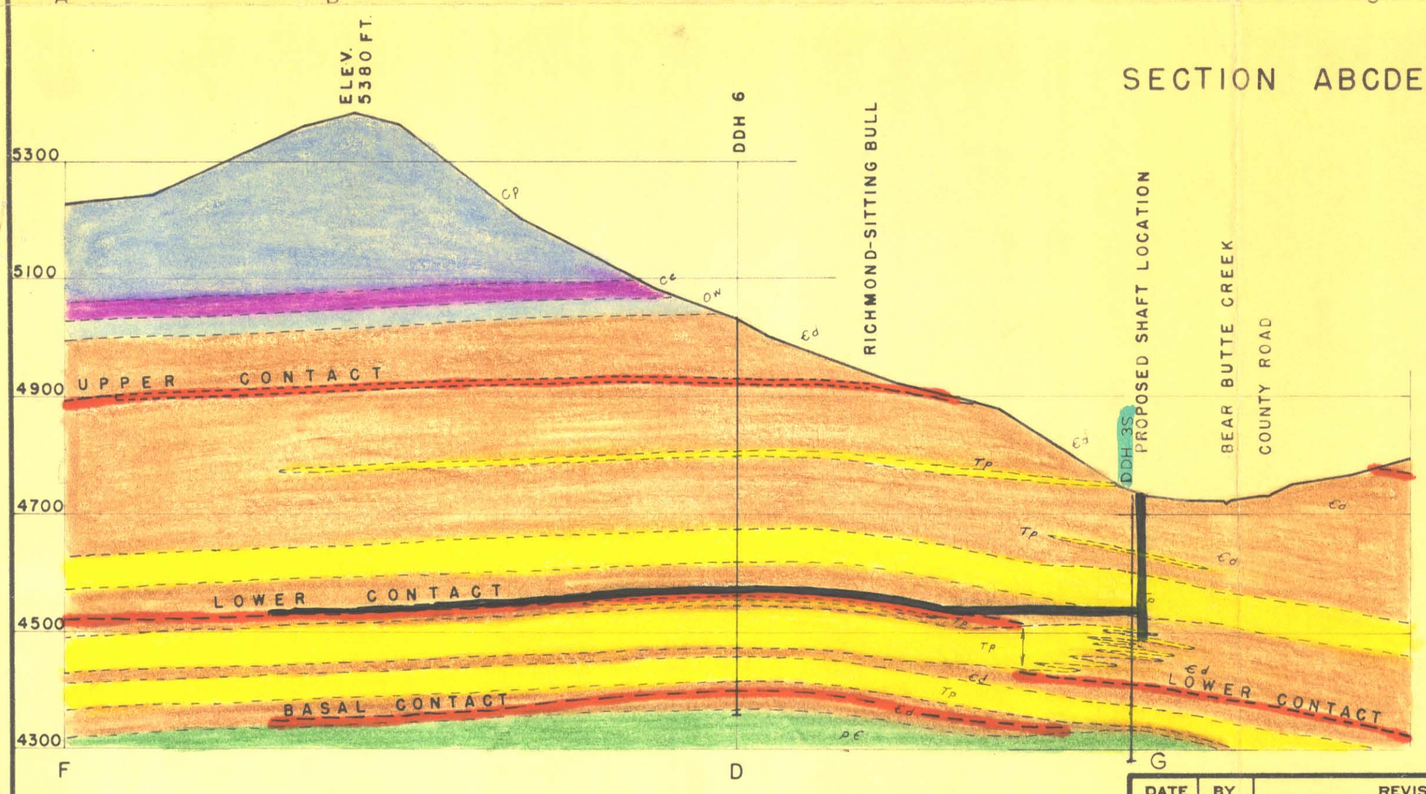
- NEWMONT DRILL HOLES
- 1 PROPOSED SURFACE HOLES
- 2 PROPOSED UNDERGROUND HOLES

SURFACE DRILLING			UNDERGROUND DRILLING		
Hole No.	Estimated Depth (Feet)		Hole No.	Estimated Depth (Feet)	
			1	350	
1	500	700	2	340	
			3	355	
2	650	650	4	350	
			5	355	
3	400	485	6	355	
			7	360	
4	450	650	8	369	
			9	375	590
Total Est. Depth.	2,000 Ft	2485		3,209	50
		150			
		2635			


WASHINGTON 346
LOWER
UPPER CONTACT
LITTLE SIOUX 347
EASTERN FRAC. 1963
LURAY 1177
MERRITT NO. 1
CONTACT
CUSTER
GALENA PLACER 692
LODE 1123
Bear Butte Creek
Road
A
B
C
D
E
LOWER
MERRITT NO. 2
SAVAGE
RICHMOND SHAFT
DDH 5
DDH 1
DDH 2
DDH 3
DDH 4
DDH 6
ZERO POINT
ELEV. 4912.54
(TOP OF PIPE)
RICHMOND-SITTING BULL
McCLELLAN
BARTON
DOUBLE RAINBOW
CLAIM GROU



SECTION ABCDE



SECTION FDG

EXPLANATION

EXISTING MINE WORKINGS

PROPOSED UNDERGROUND EXPLORATION WORK

TERTIARY	Tp	PORPHYRY INTRUSIVES
MISSISSIPPIAN	Cp	PAHASAPA LIMESTONE
	Ce	ENGLEWOOD LIMESTONE
ORDOVICIAN	Ow	WHITEWOOD LIMESTONE
CAMBRIAN	Ed	DEADWOOD FORMATION
PRE-CAMBRIAN	pЄ	SCHIST AND QUARTZITE

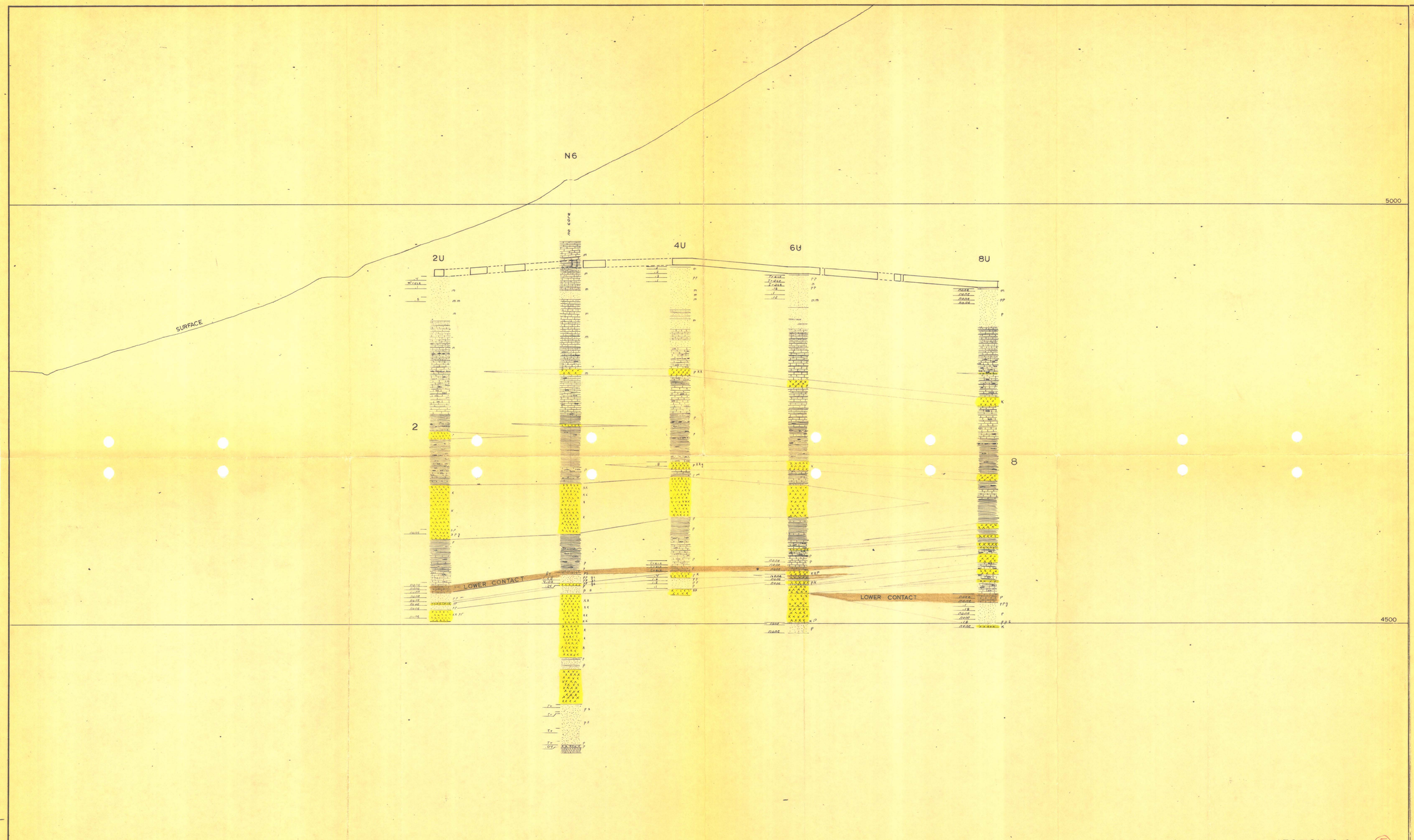
(OME 6558 (Silver), Contract 2233)

DATE	BY	REVISIONS
6-1-67	GCM	DDH's 1S, 2S, 3S, 4S.

DRAWN BY _____ APPROVED _____
TRACED _____ SCALE 1" = 200'
CHECKED _____ DATE 10-27-65

DOUBLE RAINBOW MINE
SECTION ABCDE AND FDG
THROUGH CUSTER HILL

DWG. NO.



MINERALIZATION

p PYRITE

g GALENA

s SPHALERITE

m MANGANESE

k KAOLINIZATION

NOTE: Single letters (as denote weak or disseminated mineralization or alteration. Double letters (as pp) denote moderate to strong mineralization or alteration.

Assays shown are ounces of silver.

LITHOLOGY

FELDSPAR PORPHYRY

SHALE & PEBBLES

LIMESTONE & DOLOMITE

SANDSTONE & QUARTZITE

CONGLOMERATE

PRECAMBRIAN

SECTION 8-2 (F)

DATE	BY	REVISIONS

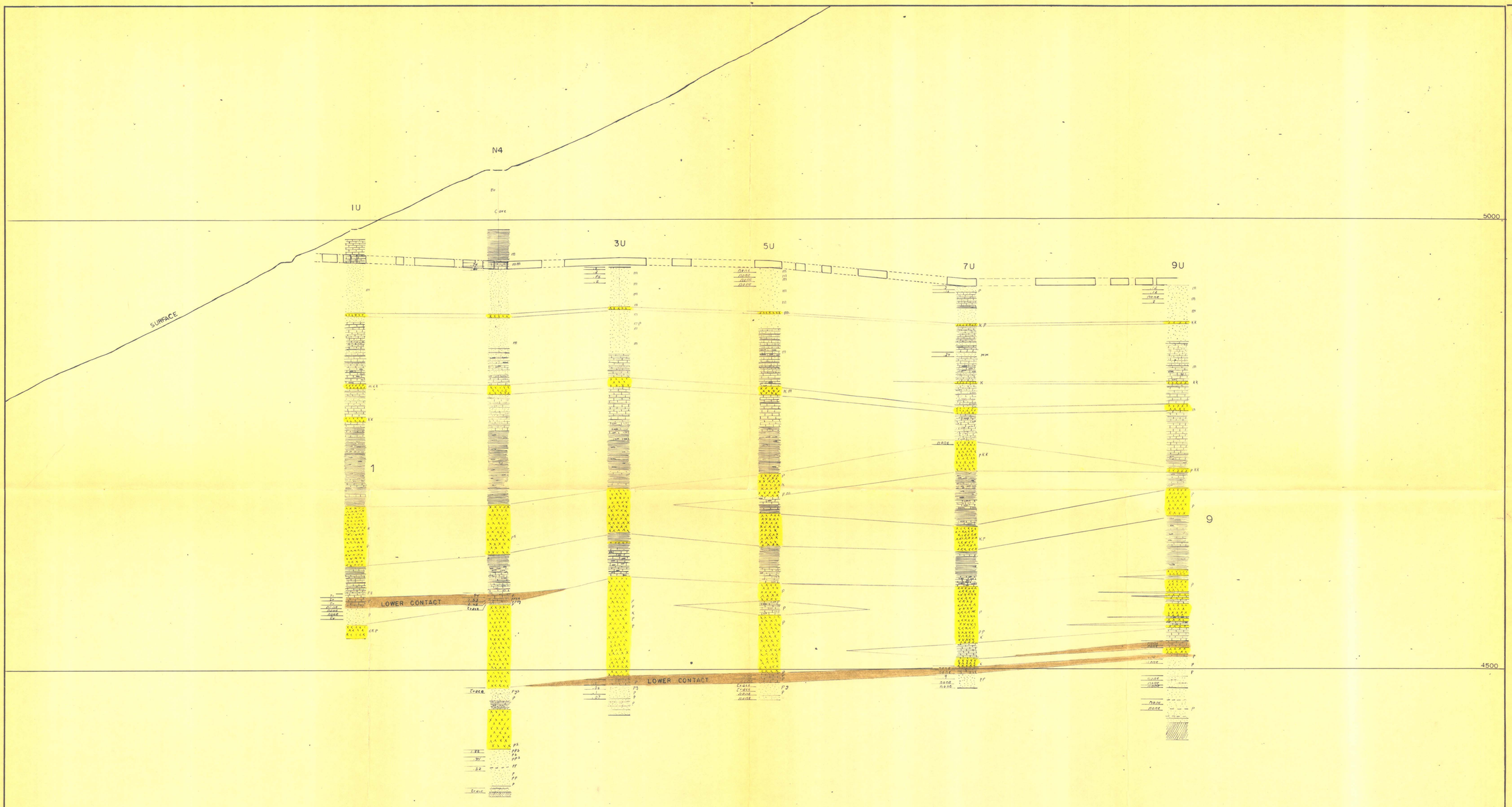
HOMESTAKE MINING CO.
LEAD, SO. DAK.
DEPARTMENT

DRAWN BY J.M.W. APPROVED
TRACED SCALE 1" 50'
CHECKED DATE 9-26-1967

DOUBLE RAINBOW MINE
SECTION THROUGH DRILL HOLES
8U, 6U, 4U, N6, & 2U - FACING EAST

OME-6558(Silver) Contract 2233

DOUBLE RAINBOW MINE
LEGEND



MINERALIZATION

p PYRITE

g GALENA

s SPHALERITE

m MANGANESE

k KAOLINIZATION

NOTE; Single letters (as p) denote weak or disseminated mineralization or alteration. Double letters (as pp) denote moderate to strong mineralization or alteration.

Assays shown are ounces of silver.

LITHOLOGY

FELDSPAR PORPHYRY

SHALE & PEBBLES

LIMESTONE & DOLOMITE

SANDSTONE & QUARTZITE

CONGLOMERATE

PRECAMBRIAN

SECTION 9-1 C

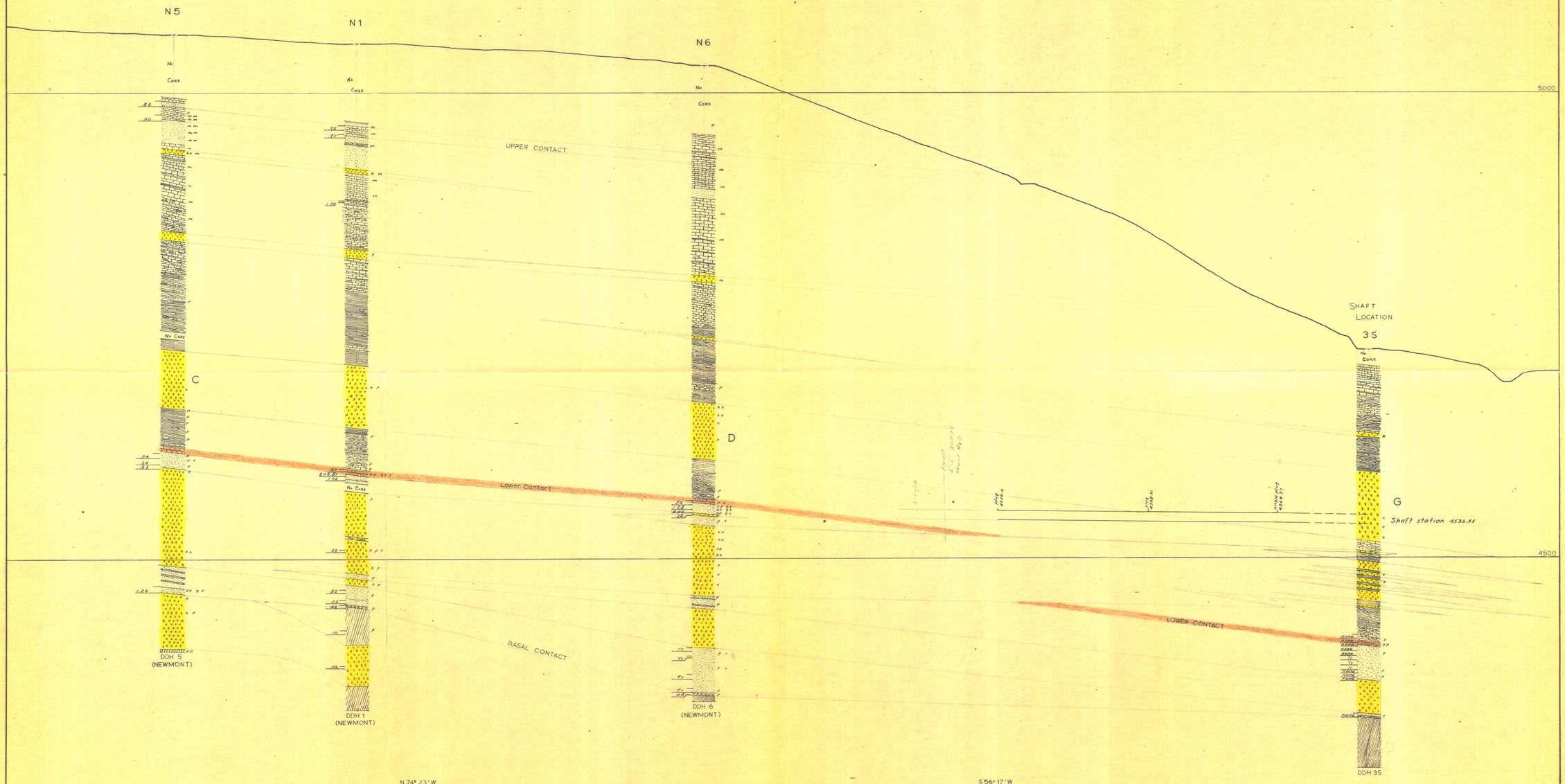
DATE	BY	REVISIONS

HOMESTAKE MINING CO.
LEAD, SO. DAK.
DEPARTMENT

DRAWN BY J.M.W. APPROVED
TRACED SCALE 1" = 50'
CHECKED DATE 9 - 22 - 1967

DOUBLE RAINBOW MINE
SECTION THROUGH DRILL HOLES
9U, 7U, 5U, 3U, N4, 1U FACING EAST
OME - 6558 (Silver) Contract 2233

DOUBLE RAINBOW MINE
- LEGEND



SECTION GDC C.

MINERALIZATION

- p PYRITE
- g GALENA
- s SPHALERITE
- m MANGANESE
- k KAOLINIZATION

NOTE; Single letters (as p) denote weak or disseminated mineralization or alteration. Double letters (as pp) denote moderate to strong mineralization or alteration.

Assays shown are ounces of silver.

LITHOLOGY

- FELDSPAR PORPHYRY
- SHALE & PEBBLES
- LIMESTONE & DOLOMITE
- SANDSTONE & QUARTZITE
- CONGLOMERATE
- PRECAMBRIAN

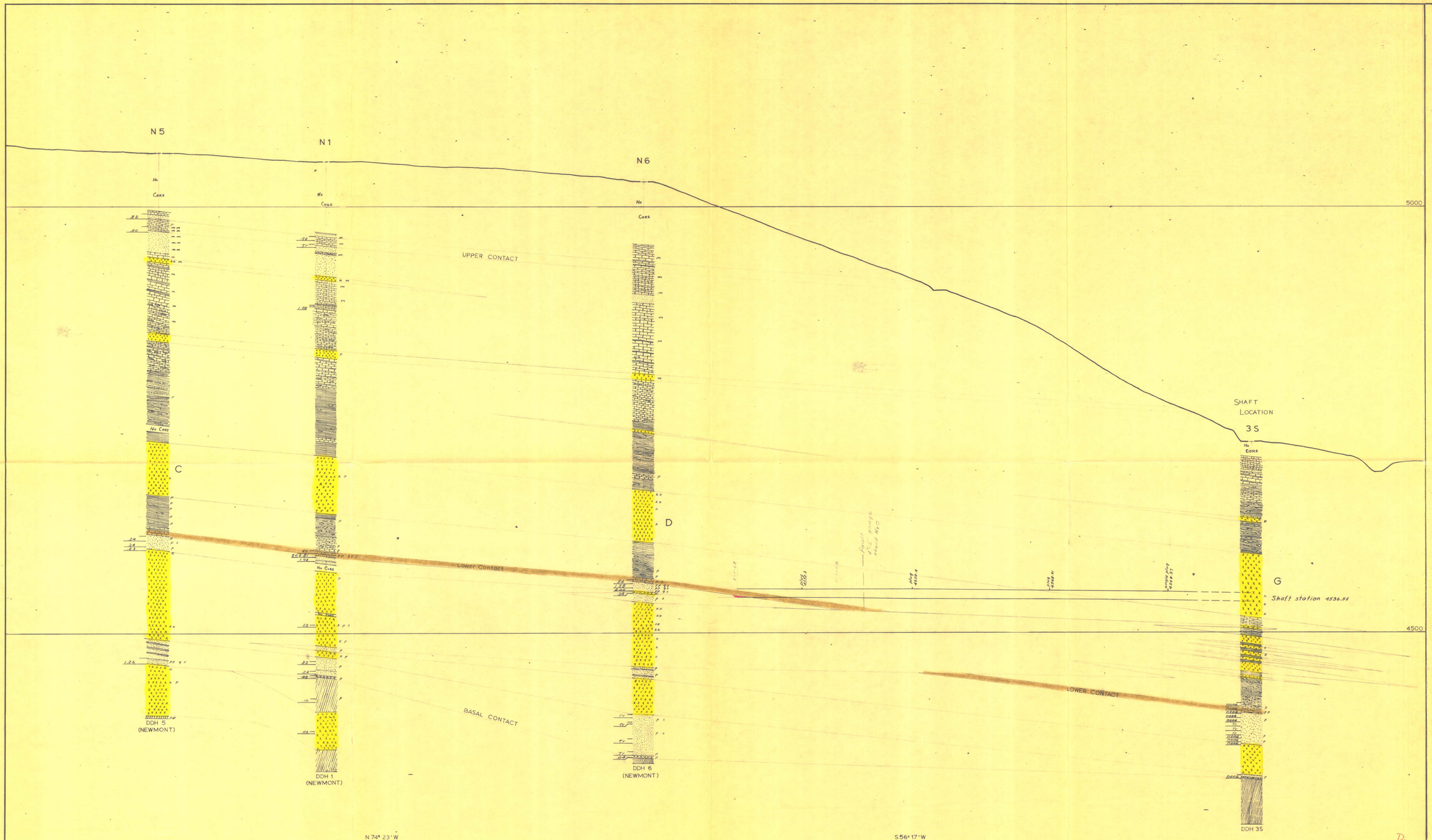
DATE	BY	REVISIONS

2-1-68

DRAWN BY GCM APPROVED
TRACED SCALE 1"=50'
CHECKED DATE

DOUBLE RAINBOW MINE
SECTION THROUGH DRILL HOLES
3S, N6, N1, N5, FACING NORTH
OME 6558(Silver) Contract 2233

DOUBLE RAINBOW MINE
LEGEND



MINERALIZATION

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m MANGANESE

k KAOLINIZATION

NOTE: Single letters (as p) denote weak or disseminated mineralization or alteration. Double letters (as pp) denote moderate to strong mineralization or alteration.

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LITHOLOGY

FELDSPAR PORPHYRY

SHALE & PEBBLES

LIMESTONE & DOLOMITE

SANDSTONE & QUARTZITE

CONGLOMERATE

PRECAMBRIAN

D.

SECTION GDC

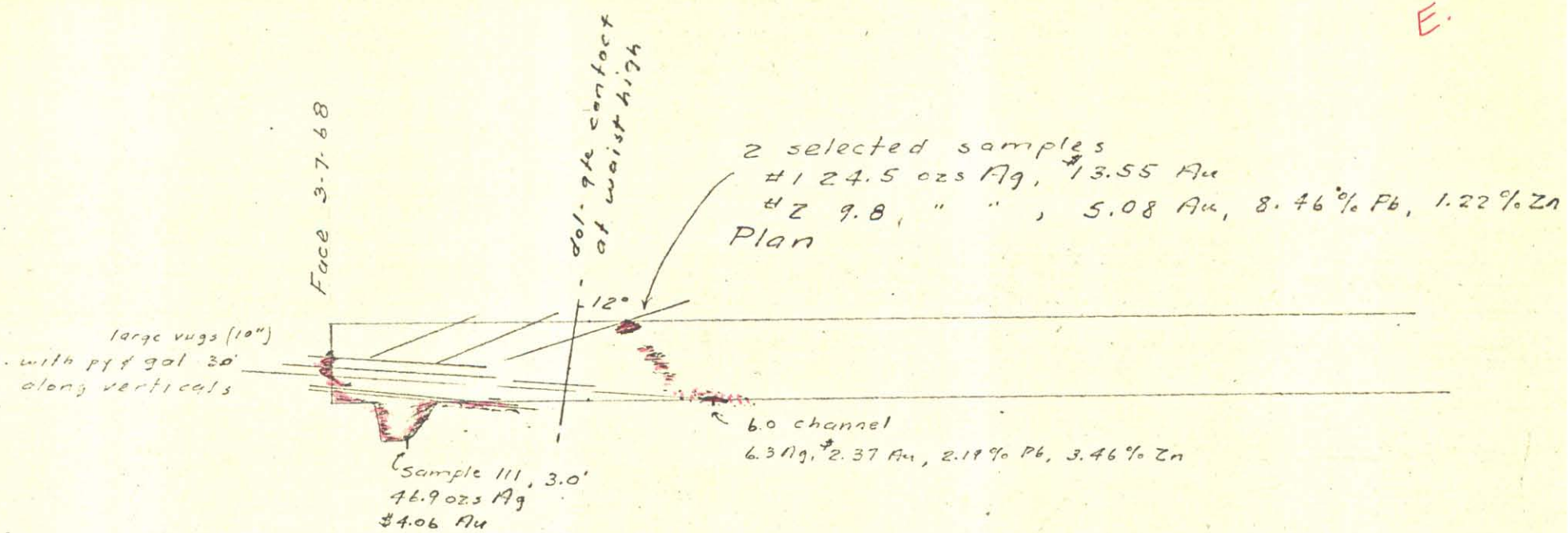
DATE	BY	REVISIONS

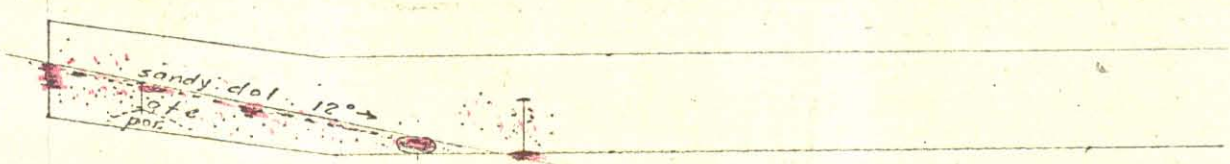
DRAWN BY GCM APPROVED
TRACED SCALE 1"=50'
CHECKED DATE

DOUBLE RAINBOW MINE
SECTION THROUGH DRILL HOLES
3S, N6, N1, N5, FACING NORTH
OME 6558(Silver) Contract 2233

DOUBLE RAINBOW MINE
LEGEND

E.





pods of massive py
with galena in qtz
at contact
much dissem py in qtz
some py in dol
some dissem gal in
qtz & dol

Lower Contact Drift

1" = 20' 3-7-68