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

U.S. Government Messenger Envelope

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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.

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UNITED STATES
DEPARTMENT OF THE INTERIOR

Office of Survey and Review

Audit Operations

Report of Review-Contract No. 2285
Docket No. OME-6646 (Gold-Silver-Copper)
Western States Minerals, Inc.
Riverton, Wyoming

Washington, D.C.
March 1973

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SECRETARY
OFFICE OF SURVEY AND REVIEW
Audit Operations, Region I
801 19th Street, N.W., Room 1115
Washington, D.C. 20240

April 3, 1973

Memorandum

To: Director, Geological Survey

From: Regional Director, Region I
Audit Operations, Office of Survey and Review

Subject: Review of Contract No. 2285
Docket No. OME-6646 (Gold-Silver-Copper)
Western States Minerals, Inc.
Riverton, Wyoming

As requested by the Chief, Office of Minerals Exploration, we made a cost review of contract No. 2285. The results of our review are shown in the attached report.

Frank V. Tassitch

Attachment

We have reviewed (1) the contract files of the Office of Minerals Exploration (OME) pertaining to Minerals Exploration Contract No. 2285 with Western States Minerals, Inc., (Operator) made under Public Law 85-701 (The Act) and (2) the related disbursement records in the Branch of Financial Management, Administrative Division, Geological Survey. The review was made during March 1973, at Washington, D.C.

Summary of Contract Costs and Federal Funds Contributed

	Contract Costs			
	Amount Authorized	Paid by Contractor	Approved By Audit	Government Contribution
Stage I	$176,360	$176,360	$176,360	$ 44,090 a/
Stage II	61,870	61,791	61,791	30,896 b/
Stage III	88,328	87,953	87,953	43,976 b/
Total	$326,558	$326,104	$326,104	$118,962

a/ 25 percent participation
b/ 50 percent participation

The contract was awarded on July 10, 1969, and subsequently amended four times. Work was to begin on or before August 1, 1969, and to be completed within 38 months from the date of the contract, or by September 10, 1972. The maximum allowable contract cost is $326,558. OME's participation in Stage I is on a 25-percent basis, and in Stages II and III on a 50-percent basis, but limited to a total participation of $119,189.

The amended contract provided for repayment of Federal funds contributed plus simple interest (8½ percent on Stages I and II Federal contributions and 8 percent on Stage III Federal contributions), on the basis of established royalties on all minerals and metals produced from the land during exploratory operation, and for a period of 11 years from the date of the contract, should a Certification of Possible Production be made by OME.

The purpose of this contract was to explore for silver-copper-gold replacement ore bodies in channels, breccia zones, or dikes north of the Sioux-Ajax fault zone in the Bluebell Dolomite Formation of Devonian age and other formations of Paleozoic age.

The work was to be performed by shaft sinking, drifting, and diamond core drilling from underground stations.

The work was divided into three stages with Stage I consisting mainly of shaft sinking, and Stages II and III consisting of drifting, crosscutting, raising and sinking and diamond core drilling.

The four amendments made certain changes in the description of the contract work and the location of drill sites, crosscutting, drifting, and diamond core drilling operations. The amendments also added Stage III to the contract objectives, redistributed the fixed unit costs of Stages II and III, extended the original contract period, increased the allowable contract costs and contributed Federal share, and amended the royalty requirements.

A final field inspection report was made by the OME Region III Field Officer in April 1972, and 28 vouchers were submitted by the Operator.

According to the Field Officer's report, the exploratory work completed under the contract did not result in the discovery of silver-copper-gold replacement ore bodies. However, under terms of a Special Agreement Concerning Royalty in Amendment No. 3, royalty shall be paid to the Government on any production regardless of where it is produced, which is transported through any of the workings developed under the Contract for the duration of the royalty period, or until the Government's participation is repaid in full with interest, whichever occurs first.

Operator's Records and Accounts

The Operator's support for costs incurred on the Contract consisted of monthly vouchers approved by the OME Region III Field Officer. The recording and accounting for contract expenses incurred is a responsibility of the Operator.

The units of work authorized and paid under contract No. 2285 are summarized in Exhibit I.

As of November 2, 1972, OME had paid the Operator a total of $118,962.25. The costs, identified as approved by audit on Exhibit I, are eligible for OME participation in conformity with the provisions of the Act and the Contract.

Summary of Contract Terms and Costs

	Authorized Amount	Paid Costs	Approved By Audit	Unexpended Balance
Stage I				
Fixed Unit Costs:				
Shaft Sinking, 1300 ft. @ $135.50/ft.	$176,150	$176,150	$176,150	$
Consultant, 2 days @ $75/day	150	150	150	
Consultant-per diem, 2 days @ $16/day	32	32	32	
Consultant-travel, 233 mi. @ $.12/mi.	28	28	28	
	176,360	176,360	176,360	
Stage II (as revised in Amendment #2)				
Fixed Unit Costs:				
Crosscutting, etc., 1370 ft. @ $37.95/ft.	51,985	51,985	51,985	(6)
Consultant, 9 days @ $75/day	675	675	675	
Consultant-per diem, 9 days @ $16/day	144	144	144	
Consultant-travel, 633 mi. @ $.12/mi.	76	76	76	
	52,880	52,886	52,886	(6)
Drilling				
Mobilization and demobilization 1 unit @ $200	200	200	200	
Collar pipe, 40 ft. @ $7.40/ft.	296	296	296	
Drilling, 1100 ft. @ various prices	7,013	7,013	7,013	
Lost casing, 175 ft. @ $2 to $3/ft.	525	525	525	
Cementing, redrilling, 25 hrs. @ $13.50/hr.	337	337	337	
Reaming, installing casing, 31 hrs. @ $12/hr.	372	372	372	
Standby time, 12 hrs. @ $13.50/hr.	162	162	162	
Cardboard core boxes, 85 @ $1/ea.	85			85
	61,870	61,791	61,791	79

Summary of Contract Terms and Costs

	Authorized Amount	Paid Costs	Approved By Audit	Unexpended Balance
Stage III (established in Amendment #3, modified in Amendment #4)				
Fixed Unit Costs:				
Drifting, etc., 300 ft. @ $62.68/ft.	$ 18,804	$ 18,804	$ 18,804	$
Consultant, 11 days @ $100/day	1,100	1,100	1,100	
Consultant-per diem, 11 days @ $20/day	220	220	220	
Consultant-travel, 866 mi. @ $.12/mi.	104	104	104	
	20,228	20,228	20,228	
Diamond drilling, 3164 ft. NX @ $21.50/ft. BX @ $20.70/ft.	66,650	66,650	66,650	
Cardboard core boxes, 200 @ $1/ea.	200	200	200	
Assaying, 250 @ $5/ea.	1,250	875	875	375
	88,328	87,953	87,953	375
Grand Total, Stages I, II & III	$326,558	$326,104	$326,104	$454
Government Participation at 25 percent in Stage I and 50 percent in Stages II and III	$119,189	$118,962	$118,962	$227

I-C-DC-OME-(0)-73

Returned copy to Audit 3/20/73

UNITED STATES
DEPARTMENT OF THE INTERIOR

Office of Survey and Review

Audit Operations

Report of Review-Contract No. 2285
Docket No. OME-6646 (Gold-Silver-Copper)
Western States Minerals, Inc.
Riverton, Wyoming

Washington, D.C.
March 1973

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SECRETARY
OFFICE OF SURVEY AND REVIEW
Audit Operations, Region I
801 19th Street, N.W., Room 1115
Washington, D.C. 20240

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From: Regional Director, Region I
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Transferred to 2nd paragraph page 3.

The purpose of this ~~project~~ Contract was to explore for silver-copper-gold replacement ore bodies in channels, breccia zones, or dikes north of the Sioux-Ajax fault zone in the Bluebell Dolomite Formation of Devonian age and other formations of Paleozoic age.

The work was to be performed by shaft sinking, drifting, and diamond core drilling from underground stations.

The work was divided into three stages with Stage I consisting mainly of shaft sinking, and Stages II and III consisting of drifting, crosscutting, raising and sinking and diamond core drilling.

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A final field inspection report was made by the OME Region III Field Officer in ~~January 1973~~ April 1972, and 28 vouchers were submitted by the Operator.

According to the Field Officer's report, the exploratory work completed under the contract did not result in the discovery of silver-copper-gold replacement ore bodies. Insert sentence from 1st FD pg. 2. ~~in channels, breccia zones, or dikes north of the Sioux-Ajax fault zone in the Bluebell Dolomite of Devonian age.~~

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Fixed Unit Costs				
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Consultant-travel, 233 mi. @ $.12/mi.	28	28	28	
Total Stage I	$176,360	$176,360	$176,360	
Stage II (as revised in Amendment #2)				
Fixed Unit Costs				
Crosscutting, etc., 1370 ft. @ $37.95/ft.	$51,985	$51,985 91	$51,985 91	$ (6)
Consultant, 9 days @ $75/day	675	675	675	
Consultant-per diem, 9 days @ $16/day	144	144	144	
Consultant-travel, 633 mi. @ $.12/mi.	76	76	76	
Subtotal	52,880	52,886	52,886	(6)
Actual Costs				
Drilling				
Mobilization and demobilization 1 unit @ $200	200	200	200	
Collar pipe, 40 ft. @ $7.40/ft.	296	296	296	
Drilling, 1100 ft. @ various prices	7,013	7,013	7,013	
Lost casing, 175 ft. @ $2~~0~~3/ft.	525	525	525	
Cementing, redrilling, 25 hrs. @ $13.50/hr.	337	337	337	
Reaming, installing casing, 31 hrs. @ $12/hr.	372	372	372	
Standby time, 12 hrs. @ $13.50/hr.	162	162	162	
Cardboard core boxes, 85 @ $1/ea.	85			85
Total Stage II	$61,870	$61,791	$61,791	$ 79

Summary of Contract Terms and Costs

Actual Costs	Authorized Amount	Paid Costs	Approved By Audit	Unexpended Balance
Stage III (established in Amendment #3, modified in Amendment #4)				
Fixed Unit Costs				
Drifting, etc., 300 ft. @ $62.68/ft.	$ 18,804	$ 18,804	$ 18,804	$
Consultant, 11 days @ $100/day	1,100	1,100	1,100	
Consultant-per diem, 11 days @ $20/day	220	220	220	
Consultant-travel, 866 mi. @ $.12/mi.	104	104	104	
Subtotal	20,228	20,228	20,228	
Actual Costs				
Diamond drilling, 3164 ft.	66,650	66,650	66,650	
NX @ $21.50/ft.				
BX @ $20.70/ft.				
Cardboard core boxes, 200 @ $1/ea.	200	200	200	
Assaying, 250 @ $5/ea.	1,250	875	875	375
Total Stage III	88,328	87,953	87,953	375
Grand Total, Stages I, II & III	326,558	326,104	326,104	454
Government Participation at 25 percent in stage I and 50 percent in stages II and III	*119,189	*118,962	*118,962	*227

WESTERN
STATES MINING INCORPORATED
418 S 7 E RIVERTON WYOMING

TELEPHONE 856 9271

March 24, 1972

Mr. William J. Hasler
Field Officer, Region III
Office of Minerals Exploration
Department of Interior
Federal Center Room 28
Denver, Colorado 80220

Dear Mr. Hasler:

Enclosed you will find a copy of annual reports for Century Nuclear, Inc., Western States Mining, Incorporated and Vipont. Investments in the Crown Point project are underlined in red in these certified reports. A summary of monies spend on this project are as follows:

1969	Western States Mining	58,269.00
1970	Western States Mining	139,424.00
1971	Western States Mining	105,556.00
1969,1970,1971	Century Nuclear, Inc.	120,000.00
1969,1970,1971	Vipont Mining	40,000.00
Total expenditure by Western States Minerals to Sept. 30, 1971		$463,249.00
	November 1971	31,984.36
	December 1971	43,228.64
	January 1972	13,115.00
Gross expenditures as of Feb. 1, 1972		$551,577.00
Total O.M.E. participation assuming we get paid the total amount of Stage III		119,189.80
Per cent government participation (actual)		21%

As you can see the government participation of 21% is considerably less than the inferred 50%. A large part of this difference was due to underestimating phase II drilling portion, not taking into consideration expenses, such as general mine operational costs, hoistman, supervisor, utilities, equipment rental, transportation to and from work for employees, etc. In Stage III we attempted to compensate for these other areas of expenses, by inserting costs on a cost

per foot basis. This, of course was at the approval of the O.M.E. We detailed the cost to be 21.50/ft. drilling, which included everything.

We have attempted with numerous telephone conversations and visits to the Denver office to comply as closely as possible to the necessary information for billing. There seems to be a constant change in material requested, but in any event we are happy to comply because this money that has been spent is borrowed from the bank at a rate of 7½% and its getting quite expensive.

Enclosed with the Operators monthly voucher are copies of documentary evidence for most of the major charges listed on this voucher. We constructed this billing with the hope that receipts that would be impracticable to get, would be waived.

We hope the material furnished with this voucher is what you requested. We regret that our vouchers were submitted as they were, however we were of the opinion that the drilling part of the contract was under "Fixed Cost", as a result, receipts or other evidence wasn't included.

We would appreciate any prompt attention you can give this voucher so payment can be made without any lengthly delay.

Thank you.

Sincerely,

Kenneth Webber

Kenneth Webber
Secretary-Treasurer

KW/sl

Enclosures

P.S. Enclosed are four copies of the voucher and one complete set of receipts. Jack mentioned that you were going to make the additional copies.

WESTERN
STATES MINING INCORPORATED
418 S 7 E RIVERTON WYOMING

TELEPHONE 856 9271

Western States Minerals
Box 1366
Provo, Utah 84601

STATEMENT

The following is a statement for the drilling program only.
Station construction began in October. Drilling ended in January, 1972

Description	Months Used	Cost per month	Total Cost
Equipment Rental:			
Hoist	4	$450.00	$ 1800.00
Compressor #1	4	550.00	2200.00
Compressor #2	4	550.00	2200.00
Manche Motor Battery	4	250.00	1000.00
Fans	4	100.00	400.00
Pumps	4	450.00	1800.00
Cage & Skip	4	160.00	640.00
4 x 4 Pickup	4	150.00	600.00
4 x 4 Jeep Crew Car	4	150.00	600.00
TD 18 Tractor (Road Main.)	4	250.00	1000.00
Mine Car (2 Stations)	2	50.00	100.00
Rockdrill (2 Stations)	2	125.00	250.00
Mucking Machine (2 Stations)	2	200.00	400.00
Dump Truck (2 Stations)	2	200.00	400.00
Dry (Change House	4	100.00	400.00
Office Equip. & Storage	4	200.00	800.00
John Larsen - Management	4	1500.00	6000.00
Travel Expenses	4		400.00
Kenneth Webber - Survey & drafting Instruments			1300.00
Travel Expenses			218.15
Glen Larsen - Supervision	4	1500.00	6000.00
Secretarial Services	4	275.00	1100.00
Telephone		30%	229.90
Welding Machine	4	200.00	800.00
Tools, hand tools, etc.	4	150.00	600.00
16 Battery mine lights	4	50.00	200.00
Pipe & Fittings			500.00
Rubber clothes (Suppling wet suits)	4	100.00	400.00
HD 5 Loader	4	350.00	1400.00
Battery Charger	4	50.00	200.00
Headframe	4	300.00	1200.00
Cable	4	100.00	400.00
TOTAL			$ 35,538.05

CERTIFIED TRUE COPY

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER For Month of January 1972
Completed Stage III

Docket No. OME- 6646 (Silver)
Contract 14-08-0001 2285
Contract Amount $ 88,328.00
Gov't. Participation % 50 $ 44,164.00

Operator's Name Western States Minerals, Inc.
Address 418 S. 7th E. Riverton, Wyo. 82501

FOR OPERATOR'S USE					FOR GOVERNMENT USE ONLY			
COST ITEMS (FROM EXHIBIT A)	THIS MONTH		TO DATE		THIS MONTH		TO DATE	
	UNITS	COSTS	UNITS	COSTS	UNITS	COSTS	UNITS	COSTS
Stage III Drifting		$		$		$		$
Drifting			300	18,804.00			300	18,804.00
Consultant	1 da.	100.00	11	1,100.00	1	100.00	11	1,100.00
Per Diem (Consul.)	1 da.	20.00	11	220.00	1	20.00	11	220.00
Transportation	83	10.00	866	104.00	83	10.00	866	104.00
Stage III Drilling		23601.80				23,601.80		23,601.80
Equipment Rental				35,538.00				
Labor				7,922.16				
Miners Travel Exp.				835.50				
Accountant				430.00				
Insurance				663.81				
Taxes				859.33				
Telephone				479.98				
Assays				1,155.15			236	1,250.00
Boxes				200.00			200	200.00
Geol. Consultant				450.00				35.00
Plane Rental				441.37				
McPhearson-Drlg.				27,672.17			3,934	27,672.17
Utah Power & Lt.				1,378.67				
Gas & Oil				579.23				
Utah Timber				111.43				
TOTALS		$23,731.80		$98,944.80		$23,731.80		$72,986.97

Superseded

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

Date 3-24-72 *Payee Western States Minerals

Per John L. Larson Title President

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)

Approved as noted, subject to field examination and audit

Signature J. William Hooker 4/4/72
OME Field Officer Date

Approved for: $
(SUBJECT TO AUDIT)

Signature

Date Vou. No.
(SEE OTHER SIDE)

FOR OPERATOR'S USE	FOR GOVERNMENT USE
REMARKS	REMARKS 1) Allow $220.00 upon receipt of statement for Consultants per diem. JWH. 2) allow $104.00 upon receipt of Consultants mileage. 3) Assay results for Stage III total $1,250.00 allow bills costs. 4) allow $200.00 upon receipt of bill for Core boxes. 5). Check for Consultants prof. services total $1,135.00. allow $35.00 here JWH Withhold $200.00 pending receipt of operators final geologic and engineering report. JWH

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 two parts.

FIRST, the Operator's Monthly Voucher on Form 9-1648 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 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 three copies of each of the two sections of this report to the OME regional Field Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, FORM 9-1648

In the left hand column list the items for which costs were incurred during the month, and also the items for which costs were previously reported. For items previously reported, show only UNITS TO DATE and COSTS TO DATE. Items listed should conform to Exhibit A of the contract (Estimated Costs of the Work). The total of COSTS THIS MONTH followed by the Operator's signature constitutes a claim for payment of the Government's share of the costs. The Operator or his agent must sign the certification in the lower left corner.

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, 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 unemployment taxes, employee's liability insurance, and depreciation of Operator-owned equipment. The certification may be stated thus, "Certified True Copy", 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 Field 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.

CORE DRILLING FOUNDATION TESTING SOIL SAMPLING, ETC.

MacPherson Drilling Co., Inc.

MONTROSE, COLORADO 81401

TELEPHONE 249-3501 P. O. BOX 1167

FOR CUSTOMER USE ONLY
Register No. Voucher No.
Terms Approved Mgr. Approval
Calculations Checked
Footage Checked
Adjustments
Accounting Distributions
Audited Mgr. Approval

INVOICE DATE: January 4, 1972 - 12-1 thru 12-31-71 Drilling
INVOICE NUMBER: 2
CONTRACT: Western States Minerals
TERMS: Contract - Underground
LOCATION: Eureka, Utah

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
8	311	326	15 NXWL Core	7.40	111.00
	326	400	74 BXWL Core	6.60	488.40
UP HOLE # 9	0	63	63 NXWL Core	7.40	466.20
	63	368	305 BXWL Core	7.60	2,318.00
	Moving and setting up - 25 man hours		@	6.50	162.50
10	0	60	60 NXWL Core	7.40	444.00
	60	316	256 BXWL Core	7.60	1,945.60
	Moving and setting up - 16 man hours		@	6.50	104.00
11	0	4	4 NXWL Core	7.40	29.60
	4	291	287 BXWL Core	7.60	2,181.20
	Moving and setting up - 26 man hours		@	6.50	169.00
12	Moving and setting up (thru 12-31-71) 20 man hours		@	6.50	130.00
			TO BALANCE		$8,549.50

CERTIFIED TRUE COPY

18,804.00	
1,100.00	
220.00	
104.00	
23,601.80	
1,250.00	
200.00	
35.00	
27,672.17	
72,986.97 *	

Equip R-	35,538.00
Labor	7,922.16
Miners Rent	835.50
accountant	430.00
Insurance	663.81
Taxes	859.33
Telephone	479.98
Mail Postage	441.37
Utilities	1,378.67
Gas & Oil	579.23
Utah Timber	111.43
	49,239.48 *

Items included under 3/. Drilling - all other items whatsoever -- Some of these items are not allowable such as plane rental.

10000	
2000	
1000	
2360180	
23,731.80 *	

CORE DRILLING FOUNDATION TESTING SOIL SAMPLING, ETC.

MacPherson Drilling Co., Inc.

MONTROSE, COLORADO 81401

TELEPHONE 249-3501 P. O. BOX 1167

FOR CUSTOMER'S USE ONLY	
Register No.	Voucher No.
Terms Approved	Rate Approved
Calculations Checked	
Footage Checked	
Adjustments	
Accounting Distributions	
Audited	Final Approval

INVOICE DATE: December 3, 1971 - 11/1 thru 11/30/71 Drilling
INVOICE NUMBER: 1
CONTRACT: Western States Minerals
TERMS: Contract - Underground
LOCATION: Eureka, Utah

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
MOBILIZATION AND DEMOBILIZATION - Lump Sum					350.00
Hole # 5	0	211	211 NXWL Core	7.40	1,561.40
	211	297	86 BXWL Core	6.60	567.60
stage 3	Moving underground & setting up - 32 hours 26.00			@ 6.50	208.00
	Delay time - compressor trouble - 58½ hours			@ 5.00	292.50
	Overtime requested by G. Larsen on 11/14/71 16 hours			@ 7.50	120.00
Hole # 6	0	293	293 NXWL Core	7.40	2,168.20
	Moving & setting up - 8 hours			@ 6.50	52.00
	Delay time - 7 hours (2 hrs. - hoistman was late) (5 hrs. - compressor trouble)			@ 5.00	35.00
Hole # 7	0	400	400 NXWL Core 68.00	7.40	2,960.00
	Delay time - 23 hours (4 hrs. - fuses kept blowing) (19 hrs. - working on hoist & pumps)			@ 5.00	115.00
Hole # 8	0	311	311 NXWL Core	7.40	2,301.40
	Moving & setting up - 8 hours			@ 6.50	520.00
	Jim Cooper's expenses to get rods requested by Larsen: (Wages - 15 hours @ 4.25 = 63.75) (Payroll burden @ 12.9% = 8.22) (Gas - round trip = 10.52) 82.49				82.49
SUPPLIES - COST PLUS 10%					
2 Sacks	Q-Broxin			@ 16.26	32.52
2 "	Quik-Gel			@ 3.05	6.10
2 "	Quik -Trol			@ 4.00	8.00
		10% on above list of supplies			4.66
					51.28
CERTIFIED TRUE COPY		TO BALANCE			$10,916.87

	9000
	12000
	2925
	8775
	2600
	23985
	21060
	20150
1,250	14950
allowable costs for assay	
	115,445 *
Page III	3000 *
	1,45445 *
	*

AMERICAN EXPLORATION & MINING CO.

February 16, 1972

U.S. Region
RECEIVED
FEB 24 1972
JWA
Denver, Colorado

Mr. J. W. Hasler
US Geological Survey
Office of Mineral Exploration
Room 28, Building 53
Denver Federal Center
Denver, Colorado 80225

Dear Bill:

Below are listed the assay samples which I have taken. Jack and Glen probably took others. These would be since September 1, 1971, on the last drilling and drifting program.

Date 1971-72	Samples	Cost	Lab
Sept. 13	9	$ 90.00	Phillips
Sept. 20	12	120.00	Phillips
Oct. 24	5	29.25	CMS
Nov. 14	15	87.75	CMS # 2292
Nov. 27	4	26.00	CMS # 2309
Dec. 2	41	239.85	CMS # 2318
Dec. 20	36	210.60	CMS # 2330
Jan. 15	31	201.50	CMS # 2351
Jan. 29	23	149.50	CMS — No. 2370
TOTALS	176	$1155.15	
Cost per sample $6.56		1,154.45 corrected total JWA	

If you don't have copies of these determinations let me know and I'll send you a copy.

Between February 9, 1971 to August 17, 1971, 98 samples were taken which cost $980 or $10/sample.

Sincerely,

Roger

Roger C. Banghart

RCB:ijf

cc: Jack Larsen

Region 3
MAR 22 1972
Denver, Colo.

AMERICAN EXPLORATION & MINING CO.

March 20, 1972

Mr. William Hasler
Field Officer, Region 3
Office of Mineral Exploration
Room 28, Building 53
Denver Federal Center
Denver, Colorado 80225

Dear Bill:

Enclosed are the two assay sheets you requested.

I've been pretty busy lately but as soon as possible I will get a final report out to you.

Sincerely,

Roger

Roger C. Banghart

RCB:ijf

Enclosure

Glenn Judy 2 [illegible]

CMSI

CHEMICAL & MINERALOGICAL SERVICES 3435 SOUTH STATE STREET, SALT LAKE CITY, UTAH 84115 (801) 266-8228

ANALYTICAL REPORT FOR:

American Exploration & Mining Company	OUR NUMBER 2253
One California Bldg. Room 2500	DATE Oct 24, 1972
San Francisco, California 94111	CUSTOMER'S ORDER NO. Series B Exploration

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
15788	3.0 (.09 g/T	.05	50	45	80	Pebble dike
15789	2.0	.08	180 .018%	65	50	2nd West drift
15790	3.7 (.11 g/T	.05	25	35	60	Opohonga - #17 zone
15791	2.7	.05	30	35	60	Sioux Ajax
15792	~~3.0~~ 5	.05	12	35	55	

Ray Broadhead

PHILLIPS PETROLEUM COMPANY

ELY, NEVADA

ASSAYED BY John Pierucci

HOLE NUMBER AMEX DISTRICT Lassen DATE Sept. 20-1971

SAMPLE INTERVAL	ASSAYS						PRODUCTS				
	Au	Ag	Pb	Zn	Cu		Ag	Pb	Zn	Cu	
B8829	TR	TR	.75	TR	.162						
B8830	TR	TR	TR	TR	.025						
B8831	TR	TR	TR	TR	.042						
B8832	TR	TR	TR	TR	.050						
B8833	TR	TR	TR	TR	.075						
B8834	TR	TR	TR	TR	.11						
B8835	TR	TR	.27	TR	.16						
B8836	TR	TR	TR	TR	.175						
B8837	TR	TR	TR	TR	.162						
B8838	TR	TR	.38	TR	.10						
B8839	TR	TR	TR	TR	.162						
B8840	TR	TR	TR	TR	.10						

WE
JWH

AMERICAN EXPLORATION & MINING CO.

February 4, 1972

OME Region IV
RECEIVED
FEB 7 - 1972

Mr. J. W. Hasler
U.S. Geological Survey
Office of Mineral Exploration
Room 28, Building 53
Denver Federal Center
Denver, Colorado 80225

Ref: OME 6646-Larsen

Dear Bill:

Enclosed are three copies of the descriptive logs and assays of the last hole drilled on the Larsen Lease DDH-14. This was drilled in N30°E direction, + 15° angle for 343 feet and was collared East of the Roundy Shaft.

As noted on the descriptive log the hole penetrated Bluebell dolomite with massive clay beds for 52 feet. From 52 feet to 208 feet a dike with jasperoid, clay, and dolomite inclusions was penetrated. From 208 feet to 343 feet the hole penetrated the Fishaven dolomite.

The dike encountered in DDH-14 may correlate with the igneous rock penetrated in the flat hole to the East.

As soon as I complete DDH-13 I will mail the logs to you.

Sincerely,

Roger C. Banghart

Roger C. Banghart

RCB:ijf

Enclosures

A subsidiary of placer development limited
687 LYONS AVENUE • P. O. BOX 769 • ELY, NEVADA 89301 • (702) 289-3929

CMS
395 WEST 2700 SOUTH
CHEMICAL & MINERALOGICAL SERVICES [redacted], SALT LAKE CITY, UTAH 84115 (801) [redacted] 485-0711

ANALYTICAL REPORT FOR:

American Exploration Company	OUR NUMBER 2370
P. O. Box 769	DATE Jan 29, 1972
Ely, Nevada Larsen	CUSTOMER'S ORDER NO.

DDH # 14 +15° N30°E From East End of Shaft Station

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
8864	.7	.05	25	15	18	86-90
8865	1.0	.07	20	15	15	80-86
8866	.7	.06	18	35	10	76-80
8867	.7	.08	20	40	12	72-76
8868	.3	.07	18	45	9	68-72
8869	.5	.06	10	25	8	65-68
8870	.7	.11	20	25	10	61-65
8871	.3	.10	20	13	10	57-61
8872	1.7	.06	8	25	25	41-43
8873	1.4	.05	12	30	20	47-48
8874	.7	.07	20	14	8	53-57
8875	1.7	.04	18	35	100	28-29
8876	1.4	.10	25	90	60	33-33½
8877	1.4	.03	6	25	11	8-11
8878	.3	.10	10	14	13	82-85
8879	.7	.08	25	16	35	95-100
8880	1.4	.08	18	30	160	200-200
8881	.3	.07	15	13	25	104-108
8882	.7	.05	10	17	80	108-128

19

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
8883	1.4	.04	9	25	130	293 - 297
8884	1.4	.05	6	25	45	316 - 333
8885	1.7	.07	10	45	115	297 - 313
8886	3.0	.06	8	50	700	313 - 313½

Roy Broadhead

MINE Crown Pt

LEVEL 1280 PLACE Stope

DATE

BY RCB SCALE 40

DDH - 14
+15° 343'
N30°E

				1053						
			8	1604						
	6	Lowry Pepper	1	1596						
	6	Whitmore Oxygen	181	1552						
	7	B-H Machinery	2	180250					180250	
	7	B-H Machinery	3	2575					2575	
	8	Randles Service	185	3017				3017		
	8	Ralphs Dist. Service	6	10000						
	9	Rodger Peterson	7	1400			1400			
	9	Walter Calloway	8	1400			1400			
	19	Pit Stop	9	3439						
	20	Hundley Garage (caddy repair)	190	5319						
May	7	Wayne Terry	191	500						
	8	Brehton Tire	2	261						
	15	Rio Grande Motorway	3	1190						
19	21	Roger Banghart	4	10000						
	24	Whitmore Oxygen	5	794						
	25	Lucille's Cafe	6	962						
	28	Storehouse Mkt.	7	183						
June	2	Provo Plumbing	8	5188						
	3	Utah Power & Light	9	82061						
	12	Conoco	200	18000				18000		
Feb	26	Roger Banghart	229	5000	Consulting Geologist					
Mar	4	Wayne Terry advance	230	10000	Labor	(10000)				
	7	Roger Banghart	1	7500	Consulting Geologist					
	20	Calders	2	2500	Travel			2500		
June	8	Calders	3	40000				40000		
		Kirk	5	500						
		[illegible]	6	[illegible]						
		[illegible]	7	100 00						
		[illegible]	8	[illegible]						
		[illegible]	9	[illegible]						
				83[illegible]			[illegible]	[illegible]		

Accountant's Ledger Sheet

CERTIFIED TRUE COPY

John L. Lowe

Accountant's Ledger Sheet

		25 Roger Bangham	4	15000						
	July	6 White Service	5	4925				4925		
7		9 Whitmore Oxygen	6	1004						
8		12 Wescoff	7	70000						
9		12 Other Copes	8	14546						
10	Jan	28 P. E. Ashton	251	2279						
11		29 Motor Merc	2	523						
12		29 Allander Hardware	3	258						
13		29 Conoco	4	51266				51266		
14		29 Leland Sanderson	5	6600						
15		29 Sears	6	1047						
16		28 Utah Power + Light	7	112358						
17	Feb.	1 Allanders	8	797	Supplies					
18		3 Allanders	9	955	Supplies					
19		3 Crew Sheet Metal	260	2300	Supplies				2300	
20		4 Max Larsen	1	10000	Services					
21		4 Collins	2	5000	Travel					
22		8 Randle Service	3	19786	Oil & Gas			19786		
23		13 Roger Bangham	6	11000	Consulting Geologist					
24		17 Mtn. Bell	9	18808	Telephone					
25		17 Provo Plumbing	270	2302	Supplies					
26		17 Cash	1	1505	Supplies					
27		22 John Painter Advance	2	3000	Labor	(3000)				
28		23 MacPherson Drilling Co.	3	90000	Drill Rental					
		25 White Service	4	770	Oil & Gas			770		
30	Mar.	11 Dussy R.E.O.	5	1134						
31	Apr.	13 American Fence	6	26538						
		14 Wycoff Co.	7	30423						
		15 Oil & Gas Mining Co.	8	7450						
		15 Mtn. Bell	9	[illegible]						
		[illegible]	330	[illegible]						
				[illegible]		(3000)		[illegible]	2300	[illegible]

CERTIFIED TRUE COPY

John L. Lowe

	Date 1971	Payee	Ck. No.	Bank	FICA	W. H. Tax Fed.	State	Misc. Ded.	Wages	Glen Larsen	Gas & Oil	Equip.	Travel	Union
1	Mar 13	Calders	101	5000	Travel								5000	
2	16	LeRoy McCombs Wages	102	10000	Labor			(10000)						
3	16	Edward Seaggs	103	10000	Services									
4	20	Roger Banghart	104	10000	Consulting Geologist									
5	20	Lucille's Cafe Ora	105	1000	Travel									
6	22	Robt Fields	106	10000	Repairs									
7	23	Motor Merc	107	2247	Repairs									
8	23	Lerner Pepper Co.	108	1097	Repairs									
9	23	Ahlander Hardware Sup. shovels	109	1756	Supplies									
10	23	Calders return drill to Co. goods	110	2500	Travel									
11	24	McPherson Drilling Co. lost drill pipe	111	30000	LOST DRILL PIPE									
12	26	Tubular Service	112	37620	Supplies									
13	26	Provo Mach + Machine	113	112500										
14	29	Ross Cowan	114	100000	Services									
15	29	Ahlanders	115	1585	Oil & Gas									
16	29	Utah Power + Light	116	106550	UTILITIES									
17	29	Whitmore Oxygen	117	794	Supplies									
18	30	Clark Engineering	118	4535	Repairs									
19	30	Robt Fields	119	7500	Repairs									
20	31	White Service	120	1630	Oil & Gas						1630			
21	Apr 1	Mar and Lb	121	271 83	Oil & Gas						271.83			
22	1	[illegible]	122	53600										
23	1	PBC	123	1000										
24	1	[illegible]	124	2305										
25	1	[illegible]	125	8000										
26	1	[illegible]	126	[illegible]										

Accountant's Ledger Sheet
Accountant - Delance Squire - Provo, Utah

CERTIFIED TRUE COPY

John L Larsen

	Jan	18 Roger Peterson	1012	26383	1619	2620	524		31136
2		18 Walter Calloway	1013	26373	1619	2620	524		31136
3		18 Gary Long	1014	30116	2040	4230	846	2000	39232
4		18 Pat Branagan	1015	30748	2040	5370	1074		39232
5		18 Paul Hansen	1016	16578	1086	2680	536		20880
6		18 Wayne Terry	1017	23986	1358	640	128		26112
7		18 John Painter	1018	18202	998				19200
8		30 Internal Revenue Service	1019	16472					
9		30 State Tax Comm.	1020	48798					
10		30 Kansas State Bank	1021	223902					
11		30 Dept. of Emp. Security	1022	19520					
12		30 State Insurance Fund	1023	3294 13 / 8104 97					
13	Feb.	2 John Painter	1024	22749	1934	2170	347	10000	37200
14		2 Pat Branagan	1025	61760	4174	12350	1976		80260
15		2 Gary Long	1026	47890	4174	11220	1976	15000	80260
16		2 Roger Peterson	1027	62890	4174	11220	1976		80260
17		2 Walter Calloway	1028	62890	4174	11220	1976		80260
18		2 Paul Hansen	1029	32072	2108	5490	878		40548
19		2 Wayne Terry	1030	29759	2085	2810	450	5000	40104
20		25 Paul Hansen	1031	24815	1684	4950	1939	~~434~~	32388
21		25 Roger Peterson	1032	30005	1837	2930	564		35336
22		25 Walter Calloway	1033	30005	1837	2930	564		35336
23		25 Wayne Terry	1034	31521	1887	2450	430		36288
24		25 Gary Long	1035	33224	2059	3570	739		39592
25		25 Pat Branagan	1036	32163	2059	4370	1000		39592
26				5017 43 / 13122 24	44946	95840	17437	32000	864352
27									

Accountant's Ledger Sheet: Accountant: Delanc Squire, Provo, Utah

CERTIFIED TRUE COPY

John L. Lowe

43

Accountant's Ledger Sheet
Accountant: Delanc Squire
Provo, Utah

DATE 1971		CK #	AMOUNT	FICA	WITHHOLDING FED	WITHHOLDING STATE	MISC DED	WAGES	GLEN LARSEN	GAS & OIL	EQUIPT
MAR 5	Pat Branigan	1037	156 26	9 35	12 20	1 95		179 76			
2	Gary Long	38	156 26	9 35	12 20	1 95		179 76			
3	Wayne Terry	39	191 72	10 51				202 23			
	Paul Hansen	40	188 82	12 02	26 10	4 18		231 12			
5	Walter Calloway	41	209 70	12 02	8 10	1 30		231 12			
6	Roger Peterson	42	209 70	12 02	8 10	1 30		231 12			
	James Cooper	43	153 77	4 68				90 05			
8	Edward Scoggs	44	105 27	3 09				59 50			
9	LeRoy McCombs	45	150 02	4 68				90 05			
10	Kanes State Bank	46	1438 93								
11	Gardner Square & Gilbert	47	120 00								
12	18 LeRoy McCombs	48	350 10	22 62	39 90	6 38	100 00 ~~60 00~~	435 00			
13	Edward Scoggs	49	375 44	24 44	30 30	4 85	100 00	470 00			
14	James Cooper	50	258 34	12 59	9 80	1 57		243 20			
15	15 Walter R. Calloway	51	320 61	19 60	30 30	6 49		377 00			
16	John Painter	52	85 03	4 91	3 40	1 16		94 50			
17	Paul Hansen	53	263 31	17 86	52 00	10 30		343 47			
18	Gary Long	54	330 73	20 38	33 50	7 39		392 00			
	Pat Branigan	55	319 42	20 38	42 20	10 00		392 00			
20	Roger Peterson 61.46	56	334 07	20 57	33 50	7 39		395 53 ~~334 07~~			
21	Wayne Terry	57	306 65	18 03	18 40	3 60		346 68			
22	31 State Tax Fund	58	241 04								
23	31 Roger K Peterson	9	191 70	10 78	3 60	1 17		207 25			
24	31 Walter K Calloway	1060	191 70	10 78	3 60	1 17		207 25			
25	31 Gary Long	1	232 94	13 47	8 10	3 39		257 00			
26	31 Wayne Terry	2	223 32	12 35	20	67		237 54			
27	31 Paul Hansen	3	132 41	8 01	11 00	2 62		153 08			
28	31 Pat Branigan Sept. 06	4	232 78	13 47	20 50	4 45		257 00			
29	31 [illegible]	5	371 01	22 42	36 20	5 87		412 00			

CERTIFIED TRUE COPY

John L. [illegible]

1907

DATE 2-22 19 71

EMP. NAME Sheila Hubbard

BAL. FOR'D			REG. PAY		
			OVER-TIME		
DEPOSITS					
			TOTAL EARN.	237	50
			F. I. C. A.	12	35
			FED. WITH. TAX	24	80
			STATE WITH. TAX		
			Loss	6	67
TOTAL					
THIS CHECK	193	68	TOTAL DED.	43	82
BALANCE			NET PAY	193	68

1886

DATE 2-8 19 71

EMP. NAME Sheila Hubbard

BAL. FOR'D			REG. PAY		
			OVER-TIME		
DEPOSITS					
			TOTAL EARN.	237	50
			F. I. C. A.	12	35
			FED. WITH. TAX	24	80
			STATE WITH. TAX		
TOTAL					
THIS CHECK	200	35	TOTAL DED.	37	15
BALANCE			NET PAY	200	35

1926

DATE 3-8 19 71

EMP. NAME Sheila Hubbard

BAL. FOR'D			REG. PAY		
			OVER-TIME		
DEPOSITS					
			TOTAL EARN.	237	50
			F. I. C. A.	12	35
			FED. WITH. TAX	24	80
			STATE WITH. TAX		
TOTAL					
THIS CHECK	200	35	TOTAL DED.	37	15
BALANCE			NET PAY	200	35

1945

DATE 3-22 19 71

EMP. NAME Sheila Hubbard

BAL. FOR'D			REG. PAY		
			OVER-TIME		
DEPOSITS					
			TOTAL EARN.	237	50
			F. I. C. A.	12	35
			FED. WITH. TAX	24	80
			STATE WITH. TAX		
			Loss	6	67
TOTAL					
THIS CHECK	193	68	TOTAL DED.	43	82
BALANCE			NET PAY	193	68

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

1907

99-192
1063

71 2-22 1971

PAY TO THE ORDER OF Sheila Hubbard $ 193.68

193 DOLS 68 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

⑆1063⑈0192⑆ 530⑈244⑈3⑊

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

1886

99-192
1063

2-8 1971

PAY TO THE ORDER OF Sheila Hubbard $ 200.35

200 DOLS 35 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

⑆1063⑈0192⑆ 530⑈244⑈3⑊ ⑈00000200 35⑈

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

1926

99-192
1063

71 3-8 1971

PAY TO THE ORDER OF Sheila Hubbard $ 200.35

200 DOLS 35 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

⑆1063⑈0192⑆ 530⑈244⑈3⑊ ⑈00000200 35⑈

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

1945

99-192
1063

3-22 1971

PAY TO THE ORDER OF Sheila Hubbard $ 193.68

193 DOLS 68 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

⑆1063⑈0192⑆ 530⑈244⑈3⑊ ⑈00000 19368⑈

CERTIFIED TRUE COPY

John L Larson

1920

DATE 3-8-71 19 71

EMP. NAME [illegible]

BAL. FOR'D			REG. PAY		
DEPOSITS			OVER-TIME		
			TOTAL EARN	750	—
			F. I. C. A.	39	—
			FED. WITH. TAX	125	—
			STATE WITH. TAX		
				101	31
TOTAL					
THIS CHECK	481	69	TOTAL DED.		
BALANCE			NET PAY		

906

1939

DATE 3-22 19 71

EMP. NAME Glen L Larson

BAL FOR'D			REG. PAY		
DEPOSITS			OVER-TIME		
			TOTAL EARN.	750	—
			F. I. C. A.	39	—
			FED. WITH. TAX	128	—
			STATE WITH TAX		
TOTAL					
THIS CHECK	583	—	TOTAL DED.	167	—
BALANCE			NET PAY	583	—

1901

DATE 2-22 19 71

EMP. NAME Glen Larson

BAL. FOR'D			REG. PAY.		
DEPOSITS			OVER-TIME		
			TOTAL EARN.	750	—
			F. I. C. A.	39	—
			FED. WITH. TAX	128	—
			STATE WITH. TAX		
TOTAL					
THIS CHECK	583		TOTAL DED.	167	—
BALANCE			NET PAY	583	—

1880

DATE 2-8 19 71

EMP. NAME Glen Larson

BAL. FOR'D			REG. PAY		
DEPOSITS			OVER-TIME		
			TOTAL EARN.	750	—
			F. I. C. A.	39	—
			FED. WITH. TAX	128	—
			STATE WITH. TAX		
TOTAL					
THIS CHECK	583	—	TOTAL DED.	167	—
BALANCE			NET PAY	583	—

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

1920

99-192
1063

2-8 1971

PAY TO THE ORDER OF Glen L Larsen $ 481.69

FOUR HUNDRED EIGHTY ONE DOLS 69 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

John L Larsen

⑆1063⑈0192⑆ 530⑈244⑈3⑈ ⑈0000048169⑈

PF

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

1939

99-192
1063

3-22 1971

PAY TO THE ORDER OF Glen L Larsen $ 583.00

FIVE HUNDRED EIGHTY THREE DOLS 00 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

Floyd Larsen

⑆1063⑈0192⑆ 530⑈244⑈3⑈ ⑈0000058300⑈

PF

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

1901

99-192
1063

2-22 1971

PAY TO THE ORDER OF Glen L Larsen $ 583.00

FIVE HUNDRED EIGHTY THREE DOLS 00 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

Floyd Larsen

⑆1063⑈0192⑆ 530⑈244⑈3⑈ ⑈0000058300⑈

PF

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

1880

99-192
1063

2-8 1971

PAY TO THE ORDER OF Glen L Larsen $ 583.00

FIVE HUNDRED EIGHTY THREE DOLS 00 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

Floyd Larsen

⑆1063⑈0192⑆ 530⑈244⑈3⑈ ⑈0000058300⑈

PF

CERTIFIED TRUE COPY

John L. Larsen

1921

DATE 3- 8 1971

EMP. NAME John L Larson

BAL. FOR'D			REG. PAY		
			OVER-TIME		
DEPOSITS					
			TOTAL EARN.	750	—
			F. I. C. A.	39	—
			FED. WITH. TAX	93	90
			STATE WITH. TAX		
TOTAL					
THIS CHECK	617	10	TOTAL DED.	132	90
BALANCE			NET PAY	617	10

1940

DATE 3-22 1971

EMP. NAME John L Larson

BAL. FOR'D			REG. PAY		
			OVER-TIME		
DEPOSITS					
			TOTAL EARN.	750	—
			F. I. C. A.	39	—
			FED. WITH. TAX	93	90
			STATE WITH. TAX		
TOTAL					
THIS CHECK	617	10	TOTAL DED.	132	90
BALANCE			NET PAY	617	10

1902

DATE 2-22 1971

EMP. NAME John Larson

BAL. FOR'D			REG. PAY		
			OVER-TIME		
DEPOSITS					
			TOTAL EARN.	750	—
			F. I. C. A.	39	—
			FED. WITH. TAX	93	90
			STATE WITH. TAX		
TOTAL					
THIS CHECK	617	10	TOTAL DED.	132	90
BALANCE			NET PAY	617	10

1881

DATE 2- 8 1971

EMP. NAME John L Larson

BAL. FOR'D			REG. PAY		
			OVER-TIME		
DEPOSITS					
			TOTAL EARN.	750	—
			F. I. C. A.	39	—
			FED. WITH. TAX	93	90
			STATE WITH. TAX		
TOTAL					
THIS CHECK	617	10	TOTAL DED.	132	90
BALANCE			NET PAY	617	10

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

1921

99-192
1063

3-2 1971

PAY TO THE ORDER OF John L Larsen $ 617 10

617 DOLLS 10 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

John L Larsen

⑆1063⑈0192⑆ 530⑈244⑈3⑈ ⑈0000061710⑈

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

1940

99-192
1063

3-22 1971

PAY TO THE ORDER OF John L Larsen $ 617 10

617 DOLLS 10 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

⑆1063⑈0192⑆ 530⑈244⑈3⑈ ⑈0000061710⑈

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

1902

99-192
1063

2-22 1971

PAY TO THE ORDER OF John L Larsen $ 617 10

617 DOLLS 10 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

⑆1063⑈0192⑆ 530⑈244⑈3⑈

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

1881

99-192
1063

2-8 1971

PAY TO THE ORDER OF John L Larsen $ 617 10

617 DOLLS 10 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

⑆1063⑈0192⑆ 530⑈244⑈3⑈ ⑈0000061710⑈

CERTIFIED TRUE COPY

John L Larsen

Mountain Bell

Pd 3-19-71
Ck 2789

PAYMENT DUE UPON RECEIPT OF BILL. PLEASE RETURN ENCLOSED PAYMENT CARD WITH YOUR PAYMENT.

WESTERN STATES
MINING INC
418 S 7TH ST E
RIVERTON WY 82501
TOP FLR

TELEPHONE NUMBER
307 856-9271 852
RVT 7
3-16-71 B

TELEPHONE BUSINESS OFFICE
505 E WASHINGTON
RIVERTON WYOMING
856-9431

	*STATE-LOCAL TAXES	FEDERAL TAX	TOTAL INCLUDING TAXES
LOCAL SERVICE AND EQUIPMENT	1.46	4.47	54.58
LONG DISTANCE CALLS. Statement Enclosed	.89	14.51	160.47
OTHER CHARGES AND CREDITS. Explanation Enclosed			
DIRECTORY CHARGES	.00		3.90
ADDITIONAL LOCAL CALLS OR MSG UNITS ( )			
BALANCE FROM LAST BILL. If Paid, Please Deduct.			
*INCLUDES SPECIAL MUNICIPAL OR STATE ASSESSMENTS IF APPLICABLE	0416	TOTAL ▷	218.95

B
6 T

THANK YOU! IT HAS BEEN A PLEASURE SERVING YOU.
PLEASE RETURN ENCLOSED CARD WITH PAYMENT

852 856-9271

Mountain Bell

Pd 3-19-71
Ck 2772

PAYMENT DUE UPON RECEIPT OF BILL. PLEASE RETURN ENCLOSED PAYMENT CARD WITH YOUR PAYMENT.

WESTERN STATES
MINING INC
418 S 7TH ST E
RIVERTON WY 82501

TELEPHONE NUMBER
307 159-6693 896
CHY 7
3-10-71 B

TELEPHONE BUSINESS OFFICE
2020 CAPITOL AVE
CHEYENNE WYOMING
634-2792

	*STATE-LOCAL TAXES	FEDERAL TAX	TOTAL INCLUDING TAXES
LOCAL SERVICE AND EQUIPMENT			
LONG DISTANCE CALLS. Statement Enclosed	.21	5.93	65.70
OTHER CHARGES AND CREDITS. Explanation Enclosed			
DIRECTORY CHARGES			
ADDITIONAL LOCAL CALLS OR MSG UNITS ( )			
BALANCE FROM LAST BILL. If Paid, Please Deduct.			
*INCLUDES SPECIAL MUNICIPAL OR STATE ASSESSMENTS IF APPLICABLE	0410	TOTAL ▷	65.70

B
3 T

THANK YOU! IT HAS BEEN A PLEASURE SERVING YOU.
PLEASE RETURN ENCLOSED CARD WITH PAYMENT

896 159-6693

CERTIFIED TRUE COPY

John T. Lamm

Mountain Bell

Pd 2-26-71
CL 2743

PAYMENT DUE UPON RECEIPT OF BILL. PLEASE RETURN ENCLOSED PAYMENT CARD WITH YOUR PAYMENT.

WESTERN STATES
MINING INC
418 S 7TH ST E
RIVERTON WY 82501
TOP FLR

TELEPHONE NUMBER: 307 856-9271 852
2-16-71 B

PHONE BUSINESS OFFICE
5 E WASHINGTON
RVT VERTON WYOMING
6-9431

	*STATE-LOCAL TAXES	FEDERAL TAX	TOTAL INCLUDING TAXES
LOCAL SERVICE AND EQUIPMENT	1.46	4.47	54.58
LONG DISTANCE CALLS. Statement Enclosed	.84	14.43	159.52
OTHER CHARGES AND CREDITS. Explanation Enclosed	.00	.00	.24CR
DIRECTORY CHARGES	.00		3.90
ADDITIONAL LOCAL CALLS OR MSG UNITS ( )			
BALANCE FROM LAST BILL. If Paid, Please Deduct.			
TOTAL ▷			217.76

B
5 T

THANK YOU! IT HAS BEEN A PLEASURE SERVING YOU.
PLEASE RETURN ENCLOSED CARD WITH PAYMENT

*INCLUDES SPECIAL MUNICIPAL OR STATE ASSESSMENTS IF APPLICABLE

0316

021 457-2380

Mountain Bell

Pd 4-26-71
Ck # 2816

PAYMENT DUE UPON RECEIPT OF BILL. PLEASE RETURN ENCLOSED PAYMENT CARD WITH YOUR PAYMENT.

WESTERN STATES
MINING INC
418 S 7TH ST E
RIVERTON WY 82501

TELEPHONE NUMBER: 307 159-6693 896
CHY 7
4-10-71 B

TELEPHONE BUSINESS OFFICE
2020 CAPITOL AVE
CHEYENNE WYOMING
634-2792

	*STATE-LOCAL TAXES	FEDERAL TAX	TOTAL INCLUDING TAXES
LOCAL SERVICE AND EQUIPMENT			
LONG DISTANCE CALLS. Statement Enclosed	.18	4.39	48.76
OTHER CHARGES AND CREDITS. Explanation Enclosed			
DIRECTORY CHARGES			
ADDITIONAL LOCAL CALLS OR MSG UNITS ( )			
BALANCE FROM LAST BILL. If Paid, Please Deduct.			
TOTAL ▷			48.76

B
2 T

THANK YOU! IT HAS BEEN A PLEASURE SERVING YOU.
PLEASE RETURN ENCLOSED CARD WITH PAYMENT

*INCLUDES SPECIAL MUNICIPAL OR STATE ASSESSMENTS IF APPLICABLE

0510

896 159-6693

CERTIFIED TRUE COPY
John L Lam

WESTERN
STATES MINING INCORPORATED
418 S 7 E RIVERTON WYOMING

TELEPHONE 856 9271

March 24, 1972

Mr. William J. Hasler
Field Officer, Region III
Office of Minerals Exploration
Department of Interior
Federal Center Room 28
Denver, Colorado 80220

Dear Mr. Hasler:

Enclosed you will find a copy of annual reports for Century Nuclear, Inc., Western States Mining, Incorporated and Vipont. Investments in the Crown Point project are underlined in red in these certified reports. A summary of monies spend on this project are as follows:

1969	Western States Mining	58,269.00
1970	Western States Mining	139,424.00
1971	Western States Mining	105,556.00
1969,1970,1971	Century Nuclear, Inc.	120,000.00
1969,1970,1971	Vipont Mining	40,000.00
Total expenditure by Western States Minerals to Sept. 30, 1971		$463,249.00
	November 1971	31,984.36
	December 1971	43,228.64
	January 1972	13,115.00
Gross expenditures as of Feb. 1, 1972		$551,577.00
Total O.M.E. participation assuming we get paid the total amount of Stage III		119,189.80
Per cent government participation (actual)		21%

As you can see the government participation of 21% is considerably less than the inferred 50%. A large part of this difference was due to underestimating phase II drilling portion, not taking into consideration expenses, such as general mine operational costs, hoistman, supervisor, utilities, equipment rental, transportation to and from work for employees, etc. In Stage III we attempted to compensate for these other areas of expenses, by inserting costs on a cost

per foot basis. This, of course was at the approval of the O.M.E. We detailed the cost to be 21.50/ft. drilling, which included everything.

We have attempted with numerous telephone conversations and visits to the Denver office to comply as closely as possible to the necessary information for billing. There seems to be a constant change in material requested, but in any event we are happy to comply because this money that has been spent is borrowed from the bank at a rate of 7½% and its getting quite expensive.

Enclosed with the Operators monthly voucher are copies of documentary evidence for most of the major charges listed on this voucher. We constructed this billing with the hope that receipts that would be impracticable to get, would be waived.

We hope the material furnished with this voucher is what you requested. We regret that our vouchers were submitted as they were, however we were of the opinion that the drilling part of the contract was under "Fixed Cost", as a result, receipts or other evidence wasn't included.

We would appreciate any prompt attention you can give this voucher so payment can be made without any lengthly delay.

Thank you.

Sincerely,

Kenneth Webber

Kenneth Webber
Secretary-Treasurer

KW/sl

Enclosures

P.S. Enclosed are four copies of the voucher and one complete set of receipts. Jack mentioned that you were going to make the additional copies.

WESTERN
STATES MINING INCORPORATED
418 S 7 E RIVERTON WYOMING

TELEPHONE 856 9271

Western States Minerals
Box 1366
Provo, Utah 84601

STATEMENT

The following is a statement for the drilling program only.
Station construction began in October. Drilling ended in January, 1972

Description	Months Used	Cost per month	Total Cost
Equipment Rental:			
Hoist	4	$450.00	$ 1800.00
Compressor #1	4	550.00	2200.00
Compressor #2	4	550.00	2200.00
Manche Motor Battery	4	250.00	1000.00
Fans	4	100.00	400.00
Pumps	4	450.00	1800.00
Cage & Skip	4	160.00	640.00
4 x 4 Pickup	4	150.00	600.00
4 x 4 Jeep Crew Car	4	150.00	600.00
TD 18 Tractor (Road Main.)	4	250.00	1000.00
Mine Car (2 Stations)	2	50.00	100.00
Rockdrill (2 Stations)	2	125.00	250.00
Mucking Machine (2 Stations)	2	200.00	400.00
Dump Truck (2 Stations)	2	200.00	400.00
Dry (Change House	4	100.00	400.00
Office Equip. & Storage	4	200.00	800.00
John Larsen - Management	4	1500.00	6000.00
Travel Expenses	4		400.00
Kenneth Webber - Survey & drafting Instruments			1300.00
Travel Expenses			218.15
Glen Larsen - Supervision	4	1500.00	6000.00
Secretarial Services	4	275.00	1100.00
Telephone		30%	229.90
Welding Machine	4	200.00	800.00
Tools, hand tools, etc.	4	150.00	600.00
16 Battery mine lights	4	50.00	200.00
Pipe & Fittings			500.00
Rubber clothes (Suppling wet suits)	4	100.00	400.00
HD 5 Loader	4	350.00	1400.00
Battery Charger	4	50.00	200.00
Headframe	4	300.00	1200.00
Cable	4	100.00	400.00
TOTAL			$ 35,538.05

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

For Month of January 1972
Completed Stage III

Docket No. OME- 6646 (Silver)
Contract 14-08-0001 2285
Contract Amount $ 88,328.00
Gov't. Participation % 50 $44,164.00

Operator's Name Western States Minerals, Inc.
Address 418 S. 7th E. Riverton, Wyo. 82501

FOR OPERATOR'S USE					FOR GOVERNMENT USE ONLY			
COST ITEMS (FROM EXHIBIT A)	THIS MONTH		TO DATE		THIS MONTH		TO DATE	
	UNITS	COSTS	UNITS	COSTS	UNITS	COSTS	UNITS	COSTS
Stage III Drifting		$		$		$		$
Drifting			300	18,804.00			300	18,804.00
Consultant	1 da.	100.00	11	1,100.00	1	100.00	11	1,100.00
Per Diem (Consul.)	1 da.	20.00	11	220.00	1	20.00	11	220.00
Transportation	83	10.00	866	104.00	83	10.00	866	104.00
Stage III Drilling		23601.80				23,601.80		23,601.80
Equipment Rental				35,538.00				
Labor				7,922.16				
Miners Travel Exp.				835.50				
Accountant				430.00				
Insurance				663.81				
Taxes				859.33				
Telephone				479.98				
Assays				1,155.15			236	1,250.00
Boxes				200.00				200.00
Geol. Consultant				450.00				35.00
Plane Rental				441.37				
McPhearson-Drlg.				27,672.17			3,334	27,672.17
Utah Power & Lt.				1,378.67				
Gas & Oil				579.23				
Utah Timber				111.43				
TOTALS		$23,731.80		$98,944.80		$23,731.80		$72,986.97

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

Date 3-24-72 *Payee Western States Minerals

Per [signature] Title President

*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)

Approved as noted, subject to field examination and audit.

Signature J. William Hasler OME Field Officer 4/4/72 Date

Approved for: $
(SUBJECT TO AUDIT)

Signature

Date Vou. No.
(SEE OTHER SIDE)

FOR OPERATOR'S USE	FOR GOVERNMENT USE
REMARKS	REMARKS 1) Allow $220.00 upon receipt of statement for consultants per diem. 2) Allow $104.00 upon receipt of statement for consultants mileage. 3) Assay results for Stage III total $1,250.00 allowable costs. 4) Allow 200.00 upon receipt of statement for core boxes. 5) Checks for prof. services + cons. geologist total $1,135.00 allow $35.00 here. JMA Withhold $200.00 pending receipt of final geologic and engineering reports. JMA

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 two parts.

FIRST, the Operator's Monthly Voucher on Form 9-1648 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 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 three copies of each of the two sections of this report to the OME regional Field Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, FORM 9-1648

In the left hand column list the items for which costs were incurred during the month, and also the items for which costs were previously reported. For items previously reported, show only UNITS TO DATE and COSTS TO DATE. Items listed should conform to Exhibit A of the contract (Estimated Costs of the Work). The total of COSTS THIS MONTH followed by the Operator's signature constitutes a claim for payment of the Government's share of the costs. The Operator or his agent must sign the certification in the lower left corner.

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, 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 unemployment taxes, employee's liability insurance, and depreciation of Operator-owned equipment. The certification may be stated thus, "Certified True Copy", 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 Field 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.

FOUNDATION TECTING SOIL SAMPLING, INC.

Mile High Drilling Co., Inc.

MONTROSE, COLORADO 81401

TELEPHONE 249-3581 P. O. BOX 1167

FOR CUSTOMER'S USE ONLY	
Register No.	Voucher No.
Terms Approved	Final Approval
Calculations Checked	
Footage Checked	
Adjustments	
Accounting Distribution	
Audited	Final Approval

INVOICE DATE: January 24, 1972 - 1/1 thru 1/19/72 Drilling
INVOICE NUMBER: 3
CONTRACT: Western States Minerals
TERMS: Contract - Underground
LOCATION: Eureka, Utah 84628

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
12	0	81	81 NXWL Core	7.40	599.40
	81	361	280 BXWL Core	7.60	2,128.00
	Moving and setting up - 12 man hours		@	6.50	78.00
13	0	2	2 NXWL Core	7.40	14.80
	2	265	263 BXWL Core	7.60	1,993.80
	Moving and setting up - 38 man hours		@	6.50	247.00
14	0	343	343 BXWL Core	7.60	2,606.80
	Moving and setting up - 34 man hours		@	6.50	221.00
	Final tearing down equipment and returning it to the surface - 48 man hours		@	6.50	312.00
		TO BALANCE			$8,205.80

CERTIFIED TRUE COPY

8,205.80
8,549.50
10,916.87
27,672.17

CORE DRILLING FOUNDATION TESTING SOIL SAMPLING, ETC.

MacPherson Drilling Co., Inc.

MONTROSE, COLORADO 81401

TELEPHONE 249-3501 P. O. BOX 1167

FOR CUSTOMER'S USE ONLY	
Register No.	Voucher No.
Terms Approved	Rate Approved
Calculations Checked	
Footage Checked	
Adjustments	
Accounting Distributions	
Audited	Final Approval

INVOICE DATE: December 3, 1971 - 11/1 thru 11/30/71 Drilling
INVOICE NUMBER: 1
CONTRACT: Western States Minerals
TERMS: Contract - Underground
LOCATION: Eureka, Utah

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
MOBILIZATION AND DEMOBILIZATION - Lump Sum					350.00
Hole # 5	0	211	211 NXWL Core	7.40	1,561.40
	211	297	86 BXWL Core	6.60	567.60
3	Moving underground & setting up - 32 hours		26.00	@ 6.50	208.00
	Delay time - compressor trouble - 58½ hours			@ 5.00	292.50
	Overtime requested by G. Larsen on 11/14/71 16 hours			@ 7.50	120.00
Hole # 6	0	293	293 NXWL Core	7.40	2,168.20
	Moving & setting up - 8 hours			@ 6.50	52.00
	Delay time - 7 hours (2 hrs. - hoistman was late) (5 hrs. - compressor trouble)			@ 5.00	35.00
Hole # 7	0	400	400 NXWL Core	7.40	2,960.00
	Delay time - 23 hours (4 hrs. - fuses kept blowing) (19 hrs. - working on hoist & pumps)			@ 5.00	115.00
Hole # 8	0	311	311 NXWL Core	7.40	2,301.40
	Moving & setting up - 8 hours			@ 6.50	520.00
	Jim Cooper's expenses to get rods requested by Larsen: (Wages - 15 hours @ 4.25 = 63.75) (Payroll burden @ 12.9% = 8.22) (Gas - round trip = 10.52) 82.49				82.49
SUPPLIES - COST PLUS 10%					
2 Sacks	Q-Broxin			@ 16.26	32.52
2 "	Quik-Gel			@ 3.05	6.10
2 "	Quik -Trol			@ 4.00	51.28 8.00
		10% on above list of supplies			4.66
		TO BALANCE			$10,916.87

CERTIFIED TRUE COPY

CORE DRILLING FOUNDATION TESTING SOIL SAMPLING, ETC.

MacPherson Drilling Co., Inc.

MONTROSE, COLORADO 81401

TELEPHONE 249-3501 P. O. BOX 1167

FOR CUSTOMER USE ONLY	
Register No.	Voucher
Terms Approved	Final Approval
Calculations Checked	
Footage Checked	
Adjustments	
Accounting Distributions	
Audited	Final Approval

INVOICE DATE: January 4, 1972 - 12-1 thru 12-31-71 Drilling
INVOICE NUMBER: 2
CONTRACT: Western States Minerals
TERMS: Contract - Underground
LOCATION: Eureka, Utah

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
8	311	326	15 NXWL Core	7.40	111.00
	326	400	74 BXWL Core	6.60	488.40
UP HOLE # 9	0	63	63 NXWL Core	7.40	466.20
	63	368	305 BXWL Core	7.60	2,318.00
	Moving and setting up - 25 man hours		@	6.50	162.50
10	0	60	60 NXWL Core	7.40	444.00
	60	316	256 BXWL Core	7.60	1,945.60
	Moving and setting up - 16 man hours		@	6.50	104.00
11	0	4	4 NXWL Core	7.40	29.60
	4	291	287 BXWL Core	7.60	2,181.20
	Moving and setting up - 26 man hours		@	6.50	169.00
12	Moving and setting up (thru 12-31-71) 20 man hours		@	6.50	130.00
			TO BALANCE		$8,549.50

CERTIFIED TRUE COPY

John Johnson

CORE DRILLING FOUNDATION TESTING SOIL SAMPLING, ETC.

The Thomson Drilling Co., Inc.

MONTROSE, COLORADO 81401

TELEPHONE 249-8301 P. O. BOX 1167

FOR CUSTOMER USE ONLY	
Register No.	Date of No.
Terms Approved	Date Approved
Calculations Checked	
Footage Checked	
Adjustments	
Accounting Distribution	
Audited	Final Approval

INVOICE DATE: January 24, 1972 - 1/1 thru 1/19/72 Drilling
INVOICE NUMBER: 3
CONTRACT: Western States Minerals
TERMS: Contract - Underground
LOCATION: Eureka, Utah 84628

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
12	0	81	81 NXWL Core	7.40	599.40
	81	361	280 BXWL Core	7.60	2,128.00
	Moving and setting up - 12 man hours		@	6.50	78.00
13	0	2	2 NXWL Core	7.40	14.80
	2	265	263 BXWL Core	7.60	1,993.80
	Moving and setting up - 38 man hours		@	6.50	247.00
14	0	343	343 BXWL Core	7.60	2,606.80
	Moving and setting up - 34 man hours		@	6.50	221.00
	Final tearing down equipment and returning it to the surface - 48 man hours		@	6.50	312.00
			TO BALANCE		$8,205.80

CERTIFIED TRUE COPY

John L. Lan

AMERICAN EXPLORATION & MINING CO.

February 16, 1972

U.S. Region 6
RECEIVED
FEB 24 1972
JLH
Denver, Colorado

Mr. J. W. Hasler
US Geological Survey
Office of Mineral Exploration
Room 28, Building 53
Denver Federal Center
Denver, Colorado 80225

Dear Bill:

Below are listed the assay samples which I have taken. Jack and Glen probably took others. These would be since September 1, 1971, on the last drilling and drifting program.

Date 1971-72	Samples	Cost	Lab
Sept. 13	9	$ 90.00	Phillips
Sept. 20	12	120.00	Phillips
Oct. 24	5	29.25	CMS
Nov. 14	15	87.75	CMS # 2292
Nov. 27	4	26.00	CMS # 2309
Dec. 2	41	239.85	CMS # 2318
Dec. 20	36	210.60	CMS # 2330
Jan. 15	31	201.50	CMS # 2351
Jan. 29	23	149.50	CMS — No. 2370
TOTALS	176	$1155.15	
Cost per sample $6.56		1154.45 corrected total JLH	

If you don't have copies of these determinations let me know and I'll send you a copy.

Between February 9, 1971 to August 17, 1971, 98 samples were taken which cost $980 or $10/sample.

Sincerely,

Roger

Roger C. Banghart

RCB:ijf

cc: Jack Larsen

Glen & Sunset [illegible]

CMSI

CHEMICAL & MINERALOGICAL SERVICES 3435 SOUTH STATE STREET, SALT LAKE CITY, UTAH 84115 (801) 266-8228

ANALYTICAL REPORT FOR:

American Exploration & Mining Company	OUR NUMBER 2053
One California Bldg. Room 2500	DATE Oct 24, 1972
San Francisco, California 94111	CUSTOMER'S ORDER NO. Series B R.D. Larson

Sample #	As ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
15788	3.0 (.09g/T	.05	50	45	80	Pebble dike 2nd West drift
15789	2.0	.08	180 .018%	65	50	
15790	3.7 (.11g/T	.05	25	35	60	Opohonga - 517 zone Sioux Ajax
15791	2.7	.05	30	35	60	
15792	~~3.0~~ 5	.05	12	35	55	

Ray Broadhead

ASSAY RESULTS

PHILLIPS PETROLEUM COMPANY

ELY, NEVADA

ASSAYED BY John Fiorucci

HOLE NUMBER AMEX DISTRICT Larson DATE Sept. 30-1971

SAMPLE INTERVAL	ASSAYS						PRODUCTS				
	Au	Ag	Pb	Zn	Cu		Ag	Pb	Zn	Cu	
827	TR	TR	.75	TR	.062						
830	TR	TR	TR	TR	.025						
831	TR	TR	TR	TR	.062						
832	TR	TR	TR	TR	.050						
833	TR	TR	TR	TR	.075						
834	TR	TR	TR	TR	.11						
835	TR	TR	.27	TR	.16						
36	TR	TR	TR	TR	.075						
37	TR	TR	TR	TR	.062						
38	TR	TR	.38	TR	.10						
39	TR	TR	TR	TR	.062						
840	TR	TR	TR	TR	.10						

WE
JWH

AMERICAN EXPLORATION & MINING CO.

February 4, 1972

OME Region III
RECEIVED
FEB 7 - 1972
Denver, Colorado

Mr. J. W. Hasler
U.S. Geological Survey
Office of Mineral Exploration
Room 28, Building 53
Denver Federal Center
Denver, Colorado 80225

Ref: OME 6646-Larsen

Dear Bill:

Enclosed are three copies of the descriptive logs and assays of the last hole drilled on the Larsen Lease DDH-14. This was drilled in N30°E direction, + 15° angle for 343 feet and was collared East of the Roundy Shaft.

As noted on the descriptive log the hole penetrated Bluebell dolomite with massive clay beds for 52 feet. From 52 feet to 208 feet a dike with jasperoid, clay, and dolomite inclusions was penetrated. From 208 feet to 343 feet the hole penetrated the Fishaven dolomite.

The dike encountered in DDH-14 may correlate with the igneous rock penetrated in the flat hole to the East.

As soon as I complete DDH-13 I will mail the logs to you.

Sincerely,

Roger C. Banghart

Roger C. Banghart

RCB:ijf

Enclosures

A subsidiary of placer development limited
687 LYONS AVENUE • P. O. BOX 769 • ELY, NEVADA 89301 • (702) 289-3929

CMS
CHEMICAL & MINERALOGICAL SERVICES 395 WEST 2700 SOUTH [redacted] SALT LAKE CITY, UTAH 84115 (801) 485-0711

ANALYTICAL REPORT FOR:

American Exploration Company	OUR NUMBER 2370
P. O. Box 769	DATE Jan 29, 1972
Ely, Nevada Larsen	CUSTOMER'S ORDER NO.

DDH # 14 +15° N30°E From East End of Shaft Station

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
8864	.7	.05	25	15	18	86-90
8865	1.0	.07	20	15	15	80-86
8866	.7	.06	18	35	10	76-80
8867	.7	.08	20	40	12	72-76
8868	.3	.07	18	45	9	68-72
8869	.5	.06	10	25	8	65-68
8870	.7	.11	20	25	10	61-65
8871	.3	.10	20	13	10	57-61
8872	1.7	.06	8	25	25	41-43
8873	1.4	.05	12	30	20	47-48
8874	.7	.07	20	14	8	53-57
8875	1.7	.04	18	35	100	28-29
8876	1.4	.10	25	90	60	33-33½
8877	1.4	.03	6	25	11	8-11
8878	.3	.10	10	14	13	92-95
8879	.7	.08	25	16	35	95-100
8880	1.4	.08	18	30	160	200-208
8881	.3	.07	15	13	25	104-108
8882	.7	.05	10	17	80	108-128

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
8883	1.4	.04	9	25	130	293 - 297 ~~316 - 333~~
8884	1.4	.05	6	25	45	316 - 333 ~~297 - 313~~
8885	1.7	.07	10	45	115	297 - 313
8886	3.0	.06	8	50	700	313 - 313½

Roy Brookhart

DDH - 14
+15° 343'
N30°E

LEVEL 1280 PLACE Sho
DATE
BY RCB SCALE 40

WESTERN
STATES MINING INCORPORATED
418 S 7 E RIVERTON WYOMING

TELEPHONE 856 9271

March 24, 1972

Mr. William J. Hasler
Field Officer, Region III
Office of Minerals Exploration
Department of Interior
Federal Center Room 28
Denver, Colorado 80220

Dear Mr. Hasler:

Enclosed you will find a copy of annual reports for Century Nuclear, Inc., Western States Mining, Incorporated and Vipont. Investments in the Crown Point project are underlined in red in these certified reports. A summary of monies spend on this project are as follows:

1969	Western States Mining	58,269.00
1970	Western States Mining	139,424.00
1971	Western States Mining	105,556.00
1969,1970,1971	Century Nuclear, Inc.	120,000.00
1969,1970,1971	Vipont Mining	40,000.00
Total expenditure by Western States Minerals to Sept. 30, 1971		$463,249.00
	November 1971	31,984.36
	December 1971	43,228.64
	January 1972	13,115.00
Gross expenditures as of Feb. 1, 1972		$551,577.00
Total O.M.E. participation assuming we get paid the total amount of Stage III		119,189.80
Per cent government participation (actual)		21%

As you can see the government participation of 21% is considerably less than the inferred 50%. A large part of this difference was due to underestimating phase II drilling portion, not taking into consideration expenses, such as general mine operational costs, hoistman, supervisor, utilities, equipment rental, transportation to and from work for employees, etc. In Stage III we attempted to compensate for these other areas of expenses, by inserting costs on a cost

per foot basis. This, of course was at the approval of the O.M.E. We detailed the cost to be 21.50/ft. drilling, which included everything.

We have attempted with numerous telephone conversations and visits to the Denver office to comply as closely as possible to the necessary information for billing. There seems to be a constant change in material requested, but in any event we are happy to comply because this money that has been spent is borrowed from the bank at a rate of 7½% and its getting quite expensive.

Enclosed with the Operators monthly voucher are copies of documentary evidence for most of the major charges listed on this voucher. We constructed this billing with the hope that receipts that would be impracticable to get, would be waived.

We hope the material furnished with this voucher is what you requested. We regret that our vouchers were submitted as they were, however we were of the opinion that the drilling part of the contract was under "Fixed Cost", as a result, receipts or other evidence wasn't included.

We would appreciate any prompt attention you can give this voucher so payment can be made without any lengthly delay.

Thank you.

Sincerely,

Kenneth Webber

Kenneth Webber
Secretary-Treasurer

KW/sl

Enclosures

P.S. Enclosed are four copies of the voucher and one complete set of receipts. Jack mentioned that you were going to make the additional copies.

WESTERN
STATES MINING INCORPORATED
418 S 7 E RIVERTON WYOMING

TELEPHONE 856 9271

Western States Minerals
Box 1366
Provo, Utah 84601

STATEMENT

The following is a statement for the drilling program only.
Station construction began in October. Drilling ended in January,1972

Description	Months Used	Cost per month	Total Cost
Equipment Rental:			
Hoist	4	$450.00	$ 1800.00
Compressor #1	4	550.00	2200.00
Compressor #2	4	550.00	2200.00
Manche Motor Battery	4	250.00	1000.00
Fans	4	100.00	400.00
Pumps	4	450.00	1800.00
Cage & Skip	4	160.00	640.00
4 x 4 Pickup	4	150.00	600.00
4 x 4 Jeep Crew Car	4	150.00	600.00
TD 18 Tractor (Road Main.)	4	250.00	1000.00
Mine Car (2 Stations)	2	50.00	100.00
Rockdrill (2 Stations)	2	125.00	250.00
Mucking Machine (2 Stations)	2	200.00	400.00
Dump Truck (2 Stations)	2	200.00	400.00
Dry (Change House	4	100.00	400.00
Office Equip. & Storage	4	200.00	800.00
John Larsen - Management	4	1500.00	6000.00
Travel Expenses	4		400.00
Kenneth Webber - Survey & drafting Instruments			1300.00
Travel Expenses			218.15
Glen Larsen - Supervision	4	1500.00	6000.00
Secretarial Services	4	275.00	1100.00
Telephone		30%	229.90
Welding Machine	4	200.00	800.00
Tools, hand tools, etc.	4	150.00	600.00
16 Battery mine lights	4	50.00	200.00
Pipe & Fittings			500.00
Rubber clothes (Suppling wet suits)	4	100.00	400.00
HD 5 Loader	4	350.00	1400.00
Battery Charger	4	50.00	200.00
Headframe	4	300.00	1200.00
Cable	4	100.00	400.00
TOTAL			$ 35,538.05

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

For Month of January 1972
Completed Stage III

Docket No. OME- 6646 (Silver)
Contract 14-08-0001 2285
Contract Amount $ 88,328.00
Gov't. Participation % 50 $44,164.00

Operator's Name Western States Minerals, Inc.
Address 418 S. 7th E. Riverton, Wyo. 82501

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
Stage III Drifting		$		$		$		$
Drifting			300	18,804.00			300	18,804.00
Consultant	1 da.	100.00	11	1,100.00	1	100.00	11	1,100.00
Per Diem (Consul.)	1 da.	20.00	11	220.00	1	20.00	11	220.00 2/
Transportation	83	10.00	866	104.00	83	10.00	866	104.00 2/
Stage III Drilling		23601.80				23,601.80		23,601.80
Equipment Rental				35,538.00				
Labor				7,922.16				
Miners Travel Exp.				835.50				
Accountant				430.00				
Insurance				663.81				
Taxes				859.33				
Telephone				479.98				
Assays				1,155.15			236	1,250.00 3/
Boxes				200.00				200.00 4/
Geol. Consultant				450.00				35.00 5/
Plane Rental				441.37				
McPhearson-Drlg.				27,672.17			3,334	27,672.17
Utah Power & Lt.				1,378.67				
Gas & Oil				579.23				
Utah Timber				111.43				
TOTALS		$23,731.80		$98,944.80		$23,731.80		$72,986.97

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

Date 3-24-72 *Payee Western States Minerals

Per John L. Lowe Title President

*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)

Approved as noted, subject to field examination and audit.

Signature J. William Hasler OME Field Officer Date 4/4/72

Approved for: $
(SUBJECT TO AUDIT)

Signature

Date Vou. No.
(SEE OTHER SIDE)

FOR OPERATOR'S USE	FOR GOVERNMENT USE
REMARKS	REMARKS 1) allow $220.00 upon receipt of statement for Consultants per diem. 2) Allow $104.00 upon receipt of Consultants statement for mileage. 3) Assay results for Stage III total $1,250.00 of allowable costs. 4) allow $200.00 upon bill for core boxes. 5) checks for prof. services & geol. Consultant totals $1,135.00. Allow only 35.00 here. JWA Withheld $200.00 pending receipt of final geologic and engineering report. JWA

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 two parts.

FIRST, the Operator's Monthly Voucher on Form 9-1648 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 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 three copies of each of the two sections of this report to the OME regional Field Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, FORM 9-1648

In the left hand column list the items for which costs were incurred during the month, and also the items for which costs were previously reported. For items previously reported, show only UNITS TO DATE and COSTS TO DATE. Items listed should conform to Exhibit A of the contract (Estimated Costs of the Work). The total of COSTS THIS MONTH followed by the Operator's signature constitutes a claim for payment of the Government's share of the costs. The Operator or his agent must sign the certification in the lower left corner.

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, 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 unemployment taxes, employee's liability insurance, and depreciation of Operator-owned equipment. The certification may be stated thus, "Certified True Copy", 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 Field 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.

CORE DRILLING FOUNDATION TESTING SOIL SAMPLING, ETC.

MacPherson Drilling Co., Inc.

MONTROSE, COLORADO 81401

TELEPHONE 249-3501 P. O. BOX 1167

FOR CUSTOMER'S USE ONLY	
Register No.	Voucher No.
Terms Approved	Rate Approved
Calculations Checked	
Footage Checked	
Adjustments	
Accounting Distributions	
Audited	Final Approval

INVOICE DATE: December 3, 1971 - 11/1 thru 11/30/71 Drilling
INVOICE NUMBER: 1
CONTRACT: Western States Minerals
TERMS: Contract - Underground
LOCATION: Eureka, Utah

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
MOBILIZATION AND DEMOBILIZATION - Lump Sum					350.00
Hole # 5	0	211	211 NXWL Core	7.40	1,561.40
	211	297	86 BXWL Core	6.60	567.60
3	Moving underground & setting up - 32 hours		2600	@ 6.50	208.00
	Delay time - compressor trouble - 58½ hours			@ 5.00	292.50
	Overtime requested by G. Larsen on 11/14/71 16 hours			@ 7.50	120.00
Hole # 6	0	293	293 NXWL Core	7.40	2,168.20
	Moving & setting up - 8 hours			@ 6.50	52.00
	Delay time - 7 hours (2 hrs. - hoistman was late) (5 hrs. - compressor trouble)			@ 5.00	35.00
Hole # 7	0	400	365 - 68.00 400 NXWL Core	7.40	2,960.00
	Delay time - 23 hours (4 hrs. - fuses kept blowing) (19 hrs. - working on hoist & pumps)			@ 5.00	115.00
Hole # 8	0	311	311 NXWL Core	7.40	2,301.40
	Moving & setting up - 8 hours			@ 6.50	520.00
	Jim Cooper's expenses to get rods requested by Larsen: (Wages - 15 hours @ 4.25 = 63.75) (Payroll burden @ 12.9% = 8.22) (Gas - round trip = 10.52) 82.49				82.49
SUPPLIES - COST PLUS 10%					
2 Sacks	Q-Broxin			@ 16.26	32.52
2 "	Quik-Gel			@ 3.05	6.10
2 "	Quik -Trol			@ 4.00	8.00
		10% on above list of supplies			4.66
					51.28
CERTIFIED TRUE COPY					
		TO BALANCE			$10,916.87

CORE DRILLING FOUNDATION TESTING SOIL SAMPLING, ETC.

MacPherson Drilling Co., Inc.

MONTROSE, COLORADO 81401

TELEPHONE 249-3501 P. O. BOX 1167

FOR CUSTOMER USE ONLY
Register No. Voucher
Terms Approved Final Approval
Calculations Checked
Footage Checked
Adjustments
Accounting Distributions
Audited Final Approval

INVOICE DATE: January 4, 1972 - 12-1 thru 12-31-71 Drilling
INVOICE NUMBER: 2
CONTRACT: Western States Minerals
TERMS: Contract - Underground
LOCATION: Eureka, Utah

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
8	311	326	15 NXWL Core	7.40	111.00
	326	400	74 BXWL Core	6.60	488.40
HOLE # 9	0	63	63 NXWL Core	7.40	466.20
	63	368	305 BXWL Core	7.60	2,318.00
	Moving and setting up - 25 man hours		@	6.50	162.50
10	0	60	60 NXWL Core	7.40	444.00
	60	316	256 BXWL Core	7.60	1,945.60
	Moving and setting up - 16 man hours		@	6.50	104.00
11	0	4	4 NXWL Core	7.40	29.60
	4	291	287 BXWL Core	7.60	2,181.20
	Moving and setting up - 26 man hours		@	6.50	169.00
12	Moving and setting up (thru 12-31-71) 20 man hours		@	6.50	130.00
			TO BALANCE		$8,549.50

CERTIFIED TRUE COPY

RE DRILLING FOUNDATION TESTING SOIL SAMPLING, ETC.

The Pioneer Drilling Co., Inc.

MONTROSE, COLORADO 81401

ELEPHONE 249-3501 P. O. BOX 1167

FOR CUSTOMER USE ONLY

Register No.	
Terms Approved	
Calculations Checked	
Footage Checked	
Adjustments	
Accounting Distribution	
Audited	Final Approval

INVOICE DATE: January 24, 1972 - 1/1 thru 1/19/72 Drilling
INVOICE NUMBER: 3
CONTRACT: Western States Minerals
TERMS: Contract - Underground
LOCATION: Eureka, Utah 84628

HOLE NO.	FROM	TO	FOOTAGE	RATE	TOTAL
12	0	81	81 NXWL Core	7.40	599.40
	81	361	280 BXWL Core	7.60	2,128.00
	Moving and setting up - 12 man hours		@	6.50	78.00
13	0	2	2 NXWL Core	7.40	14.80
	2	265	263 BXWL Core	7.60	1,993.80
	Moving and setting up - 38 man hours		@	6.50	247.00
14	0	343	343 BXWL Core	7.60	2,606.80
	Moving and setting up - 34 man hours		@	6.50	221.00
	Final tearing down equipment and returning it to the surface - 48 man hours		@	6.50	312.00
			TO BALANCE		$8,205.80

ERTIFIED TRUE COPY

John L. [illegible]

AMERICAN EXPLORATION & MINING CO.

February 16, 1972

U.S. Region 6
RECEIVED
FEB 24 1972
JWA
Denver, Colorado

Mr. J. W. Hasler
US Geological Survey
Office of Mineral Exploration
Room 28, Building 53
Denver Federal Center
Denver, Colorado 80225

Dear Bill:

Below are listed the assay samples which I have taken. Jack and Glen probably took others. These would be since September 1, 1971, on the last drilling and drifting program.

Date 1971-72	Samples	Cost	Lab
Sept. 13	9	$ 90.00	Phillips
Sept. 20	12	120.00	Phillips
Oct. 24	5	29.25	CMS
Nov. 14	15	87.75	CMS #2292
Nov. 27	4	26.00	CMS #2309
Dec. 2	41	239.85	CMS #2318
Dec. 20	36	210.60	CMS #2330
Jan. 15	31	201.50	CMS #2351
Jan. 29	23	149.50	CMS — No. 2370
TOTALS	176	~~$1155.15~~	
Cost per sample $6.56		1154.45 corrected total JWA	

If you don't have copies of these determinations let me know and I'll send you a copy.

Between February 9, 1971 to August 17, 1971, 98 samples were taken which cost $980 or $10/sample.

Sincerely,

Roger

Roger C. Banghart

RCB:ijf

cc: Jack Larsen

Glen Jackson

CMSI

CHEMICAL & MINERALOGICAL SERVICES 3435 SOUTH STATE STREET, SALT LAKE CITY, UTAH 84115 (801) 263-8228

ANALYTICAL REPORT FOR:

American Exploration & Mining Company	OUR NUMBER 2853
One California Bldg. Room 2500	DATE Oct 24, 1972
San Francisco, California 94111	CUSTOMER'S ORDER NO. Series B 870-Lorain

Sample #	As ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
15788	9.0 (.09g/T	.05	50	45	80	Pebble dike 2nd West drift
15789	2.0	.08	180 .018%	65	50	
15790	3.7 (.11g/T	.05	25	35	60	Opohonga - 5th zone Sioux Ajax
15791	2.7	.05	30	35	60	
15792	~~3.0~~ 5	.05	12	35	55	

Ray Broadhead

ASSAY RESULTS

PHILLIPS PETROLEUM COMPANY

ELY, NEVADA

ASSAYED BY John Pierucci

HOLE NUMBER AMEX DISTRICT Larson DATE Sept. 30-1971

SAMPLE INTERVAL	ASSAYS						PRODUCTS				
	Au	Aq	Pb	Zn	Cu		Aq	Pb	Zn	Cu	
B8829	TR	TR	.75	TR	.062						
B8830	TR	TR	TR	TR	.025						
B8831	TR	TR	TR	TR	.042						
B8832	TR	TR	TR	TR	.050						
B8833	TR	TR	TR	TR	.075						
B8834	TR	TR	TR	TR	.11						
B8835	TR	TR	.37	TR	.16						
B8836	TR	TR	TR	TR	.075						
B8837	TR	TR	TR	TR	.062						
B8838	TR	TR	.34	TR	.10						
B8839	TR	TR	TR	TR	.062						
B8840	TR	TR	TR	TR	.10						

WE
JWH

AMERICAN EXPLORATION & MINING CO.

February 4, 1972

OME Region IV
RECEIVED
FEB 7 - 1972
Denver

Mr. J. W. Hasler
U.S. Geological Survey
Office of Mineral Exploration
Room 28, Building 53
Denver Federal Center
Denver, Colorado 80225

Ref: OME 6646-Larsen

Dear Bill:

Enclosed are three copies of the descriptive logs and assays of the last hole drilled on the Larsen Lease DDH-14. This was drilled in N30°E direction, + 15° angle for 343 feet and was collared East of the Roundy Shaft.

As noted on the descriptive log the hole penetrated Bluebell dolomite with massive clay beds for 52 feet. From 52 feet to 208 feet a dike with jasperoid, clay, and dolomite inclusions was penetrated. From 208 feet to 343 feet the hole penetrated the Fishaven dolomite.

The dike encountered in DDH-14 may correlate with the igneous rock penetrated in the flat hole to the East.

As soon as I complete DDH-13 I will mail the logs to you.

Sincerely,

Roger C. Banghart

Roger C. Banghart

RCB:ijf

Enclosures

A subsidiary of placer development limited
687 LYONS AVENUE • P. O. BOX 769 • ELY, NEVADA 89301 • (702) 289-3929

CMSI
395 WEST 2700 SOUTH
CHEMICAL & MINERALOGICAL SERVICES [redacted] T, SALT LAKE CITY, UTAH 84115 (801) [redacted]

ANALYTICAL REPORT FOR:

American Exploration Company	OUR NUMBER 2370
P. O. Box 769	DATE Jan 29, 1972
Ely, Nevada	CUSTOMER'S ORDER NO.

Larsen

DDH # 14 +15° N30°E From East End of Shaft Stub

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
8864	.7	.05	25	15	18	86-90
8865	1.0	.07	20	15	15	80-86
8866	.7	.06	18	35	10	76-80
8867	.7	.08	20	40	12	72-76
8868	.3	.07	18	45	9	68-72
8869	.5	.06	10	25	8	65-68
8870	.7	.11	20	25	10	61-65
8871	.3	.10	20	13	10	57-61
8872	1.7	.06	8	25	25	41-43
8873	1.4	.05	12	30	20	47-48
8874	.7	.07	20	14	8	53-57
8875	1.7	.04	18	35	100	28-29
8876	1.4	.10	25	90	60	33-33½
8877	1.4	.03	6	25	11	8-11
8878	.3	.10	10	14	13	92-95
8879	.7	.08	25	16	35	95-100
8880	1.4	.08	18	30	160	200-208
8881	.3	.07	15	13	25	104-108
8882	.7	.05	10	17	80	108-128

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
8883	1.4	.04	9	25	130	293 - 297 ~~[illegible]~~ - ~~[illegible]~~
8884	1.4	.05	6	25	45	316 - 333 ~~[illegible]~~ - ~~[illegible]~~
8885	1.7	.07	10	45	115	297 - 313
8886	3.0	.06	8	50	700	313 - 313½

Roy Broadhead

DDH - 14
+15° 343'
N30°E

LEVEL 1280 PLACE SL
DATE
BY RCB SCALE 40

PHONE
DAY 856-2466
856-5242
NIGHT:
CECIL 856-3618
KEN 856-9569

Superior Bit Service, Inc.

[illegible]½ SO. FEDERAL BLVD.
[illegible]VERTON, WYOMING

№ [illegible]404

Order No. _____ Date Jan 10-72

Customer Western States mining

Address _____

Party No. _____ Phone _____

QUAN.	SIZE	DESCRIPTION	UNIT PRICE	AMOUNT
10		~~[illegible]~~ Core Bits	1.00	10.00
		3% Jay		.30
				10.30
		Paid Cash		
		Bill Slayton		

RECEIVED BY _____

[illegible] Clerk
FILED
APR [illegible] 1972
[illegible], Colorado

CERTIFIED TRUE COPY

[illegible]

JCPA 4/11/72

AMERICAN EXPLORATION & MINING CO.

April 6, 1972

Mr. J. W. Hasler, Field Officer
US Geological Survey
Office of Mineral Exploration
Room 28, Building 53
Denver Federal Center
Denver, Colorado 80225

Ref: OME 6646

Dear Bill:

Below is an itemized statement pertaining to geological expenses incurred on behalf of the Larsens' in exploring the Crown Point properties in the Tintic district, Utah:

MONTH	DAYS	EXPENSE
January 1971	2	$ 32.00
Feb.-March	3	48.00
June	3	48.00
July	2	32.00
August	1	16.00
November	6	120.00
December	4	80.00
January	1	20.00
	22	$396.00

TRAVEL EXPENSE

MONTH	MILES	EXPENSE
January 1971	233	$ 28.00
Feb.-March	233	27.96
June	200	24.00
July	100	12.00
August	100	12.00
November	433	51.96
December	350	42.80
January 1972	83	10.00
	1732	$208.72

TOTAL EXPENSE $604.00

Sincerely,

Roger

Roger C. Banghart

RCB:ijf
cc: Jack Larsen

A subsidiary of placer development limited
ONE CALIFORNIA BUILDING · SUITE 2500 · SAN FRANCISCO · CALIFORNIA 94111 · (415) 986-0740

JCH 4/11/72

AMERICAN EXPLORATION & MINING CO.

April 6, 1972

OFFICIAL COPY
O. M. E.
RECEIVED
APR 13 1972
INITIALS | CODE
Cal | 120 m
~~160~~
Buckles
120

Mr. J. W. Hasler, Field Officer
US Geological Survey
Office of Mineral Exploration
Room 28, Building 53
Denver Federal Center
Denver, Colorado 80225

Ref: OME 6646

Dear Bill:

Below is an itemized statement pertaining to geological expenses incurred on behalf of the Larsens' in exploring the Crown Point properties in the Tintic district, Utah:

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January 1971	2	$ 32.00
Feb.-March	3	48.00
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July	2	32.00
August	1	16.00
November	6	120.00
December	4	80.00
January	1	20.00
	22	$396.00

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January 1971	233	$ 28.00
Feb.-March	233	27.96
June	200	24.00
July	100	12.00
August	100	12.00
November	433	51.96
December	350	42.80
January 1972	83	10.00
	1732	$208.72

TOTAL EXPENSE $604.00

Sincerely,

Roger

Roger C. Banghart

RCB:ijf
cc: Jack Larsen

A subsidiary of placer development limited
ONE CALIFORNIA BUILDING · SUITE 2500 · SAN FRANCISCO · CALIFORNIA 94111 · (415) 986-0740

RCBH 4/11/72

AMERICAN EXPLORATION & MINING CO.

April 6, 1972

Mr. J. W. Hasler, Field Officer
US Geological Survey
Office of Mineral Exploration
Room 28, Building 53
Denver Federal Center
Denver, Colorado 80225

Ref: OME 6676

Dear Bill:

Below is an itemized statement pertaining to geological expenses incurred on behalf of the Larsens' in exploring the Crown Point properties in the Tintic district, Utah:

MONTH	DAYS	EXPENSE
January 1971	2	$ 32.00
Feb.-March	3	48.00
June	3	48.00
July	2	32.00
August	1	16.00
November	6	120.00
December	4	80.00
January	1	20.00
	22	$396.00

TRAVEL EXPENSE

MONTH	MILES	EXPENSE
January 1971	233	$ 28.00
Feb.-March	233	27.96
June	200	24.00
July	100	12.00
August	100	12.00
November	433	51.96
December	350	42.80
January 1972	83	10.00
	1732	$208.72

TOTAL EXPENSE $604.00

Sincerely,

Roger

Roger C. Banghart

RCB:ijf
cc: Jack Larsen

A subsidiary of placer development limited
ONE CALIFORNIA BUILDING • SUITE 2500 • SAN FRANCISCO • CALIFORNIA 94111 • (415) 986-0740

CMS
CHEMICAL & MINERALOGICAL SERVICES 395 WEST 2700 SOUTH [redacted] STATE STREET, SALT LAKE CITY, UTAH 84115 (801) [redacted] 485-0711

ANALYTICAL REPORT FOR:

American Exploration & Mining Company	OUR NUMBER 2351
P. O. Box 769	DATE Jan 15, 1972
Ely, Nevada	CUSTOMER'S ORDER NO. Larsen

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
	DDH 10	+ 45°	N 45° W	So. Drill Sta		
16274	1.7	.06	25	60	170	240½ - 241
275	2.4	.05	25	35	360	125 - 127
276	1.4	.05	16	40	75	114 - 114.5
	DDH #9	+30° N	So. Drill Sta			
16696	1.4	.04	10	25	320	327 - 332
697	1.0	.04	30	60	75	348 - 349
698	1.0	.05	15	40	65	358 - 361
699	1.2	.05	10	35	70	361 - 363
700	1.0	.03	17	40	80	364 - 368
	DDH #12	+45°	N 45° W	So Drill Station		
8841	1.2	.02	25	12	460	182 - 3
8842	1.0	.04	15	15	80	180 - 2
8843	2.0	.05	16	20	180	177 - 180
8844	2.0	.06	25	30	330	171 - 174
8845	2.0	.06	18	25	330	166 - 171
8846	1.9	.04	10	30	160	162 - 166
8847	2.4	.04	14	30	250	160 - 161
8848	2.4	.05	20	25	430	184 - 188
8849	2.4	.06	20	30	540	188 - 190
8850	2.4	.07	25	30	680	191 - 196
8851	2.7	.08	25	25	630	196 - 200

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
8852	2.4	.07	16	30	400	201 - 206
8853	2.7	.10	15	35	470	211 - 214
8854	2.2	.09	10	35	390	218 - 222
8855	2.2	.09	10	40	630	224 - 231
9956	2.4	.10	16	30	360	231 - 235
8857	1.8	.09	9	40	450	236 - 240
8858	2.1	.08	7	40	470	255 - 261
8859	2.0	~~XXX~~ .14	11	75	2200	263 - 263½
8860	2.4	.10	8	40	505	264 - 271
8861	1.7	.10	10	25	110	289 - 290
8862	2.0	.09	10	40	400	253 - 290
8863	1.9	.09	25	45	110	288

Anomalous Gold

Ray Broadhead

Nacker

CMS

CHEMICAL & MINERALOGICAL SERVICES 3435 SOUTH STATE STREET, SALT LAKE CITY, UTAH 84115 (801) 266-0[illegible]

RECEIVED DEC 27 1971 Denver, Colorado

ANALYTICAL REPORT FOR:

American Exploration & Mining Company
P. O. Box 769
Ely, Nevada 89301

OUR NUMBER 2330
DATE Dec 20, 1971
CUSTOMER'S ORDER NO.

DDH 8 -45° East

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	DDH #8
16660	1.4	.04	30	30	80	164-5
661	1.6	.03	20	30	55	230
662	1.0	.04	19	40	80	260-1
663	1.0	.04	30	80	75	249-50
664	1.7	.03	115 .015	60	40	343-4
665	2.0	.04	18	20	30	350-8
666	1.0	.02	13	35	40	392-3
667	1.7	.02	20	15	180	319-327
668	1.7	.02	20	50	275	317-319
669	.7	.03	20	30	295	312-316
670	1.0	.05	25	45	320	308-310
671	.7	.04	20	40	185	304-307
672	<.3	.04	25	30	120	301-304
673	.3	.03	20	40	160	296-301
674	1.0	.02	25	35	240	290-296
675	1.0	.02	45	30	240	281-282
676	1.7	.03	40	25	250	273-278
677	1.0	.03	20	20	130	268-273
678	1.0	.02	25	20	150	261-268
679	1.7	.02	120 .012%	30	1200 .12%	257-261
680	2.0	.03	25	25	205	252-257

DDH 9 # +30° North

Pebble Dike and Breccia Zone

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
16681	2.7	.04	25	25	255	244 - 252
682	1.4	.03	10	35	90	228 - 238
683	1.7	.02	17	25	55	206 - 214
684	2.4	.03	25	25	165	176 - 185
685	2.4	.02	30	40	190	173 - 178
686	2.0	.03	20	45	220	142 - 143
687	2.4	.02	45	35	255	135 - 137
688	1.4	.04	60	55	310	125 - 129
689	2.0	.02	90	60	1125 .11%	120 - 120.5
690	1.4	.03	40	45	310	111 - 113
691	1.7	.02	25	40	175	54 - 55
692	1.7	.04	17	40	40	65 - 67
693	1.4	.02	25	70	100	37 - 37.5
694	1.7	.03	20	35	75	15 - 20
695	2.0	.02	30	35	255	9 - 9.5

very with Stang oxidation

Ray Brookes

ASSAY RESULTS
PHILLIPS PETROLEUM COMPANY
ELY, NEVADA

ASSAYED BY John Zumos

LE NUMBER MMEX DISTRICT Larson DATE Sept 13 - 1971

SAMPLE INTERVAL	ASSAYS						PRODUCTS				
	Au	Ag	Pb	Zn	Cu		Ag	Pb	Zn	Cu	
779	TR	TR	TR	.30	.012	SA	0-6 Rt wall, bottom good dolo				
780	TR	TR	TR	TR	.037	SA	19-26 - Lt wall - high - sooted dolo				
781 Sioux Ajax	TR	TR	TR	TR	TR	SA	38-40 rt wall bottom jsp				
782 going west	TR	TR	TR	TR	TR	SA	36-38 rt wall bottom jsp				
783	TR	TR	TR	TR	TR	SA	34-36 - rt wall - hyA jsp - gouge				
784	TR	TR	TR	TR	.050	SA	32-34 - West rt wall S.A. Slt porphyry				
785	TR	.015	.159	TR	.037		Fissure 2nd Round - @ 600'				
786	TR	TR	.161	TR	.037		MnOx - only brown jsp. - Rpo				
787	TR	TR	TR	.20	.050		MnOx + FeO why, lt R Rock at Sandal stope				

where you took the picture

sampled twice before - only brown this time

you took one here also

AMERICAN EXPLORATION & MINING CO.

January 24, 1972

ORE Region III
RECEIVED
JAN 26 1972
Denver, Colorado

Mr. J. W. Hasler
U.S. Geological Survey
Office of Mineral Exploration
Room 28, Building 53
Denver Federal Center
Denver, Colorado 80225

Dear Bill:

Enclosed are three copies each of the descriptive logs for the recent diamond drilling on the Crown Point Leases.

Previously I sent to you logs on DDH 5, 6, 7, and 8 totaling 1,391 feet.

Enclosed are logs as follows:

DDH 9	368 feet
DDH 10	301 feet
DDH 11	291 feet
DDH 12	361 feet
Total	1,321 feet

Complete assays and a drill hole location map has been mailed to you previously on drill holes 9, 10, 11, 12. The 40 scale plan map sent to you also shows all completed excavations.

This weekend I have received the core on DDH 13 and 14. These will be logged and assays taken this week. As soon as these results are obtained I will send them to you.

A subsidiary of placer development limited
687 LYONS AVENUE • P. O. BOX 769 • ELY, NEVADA 89301 • (702) 289-3929

DDH 13 has been completed to a depth of 265 feet.

DDH 14 has been completed to a depth of 343 feet.

A total 9f 3,320 feet of diamond drilling has been completed on this additional OME program.

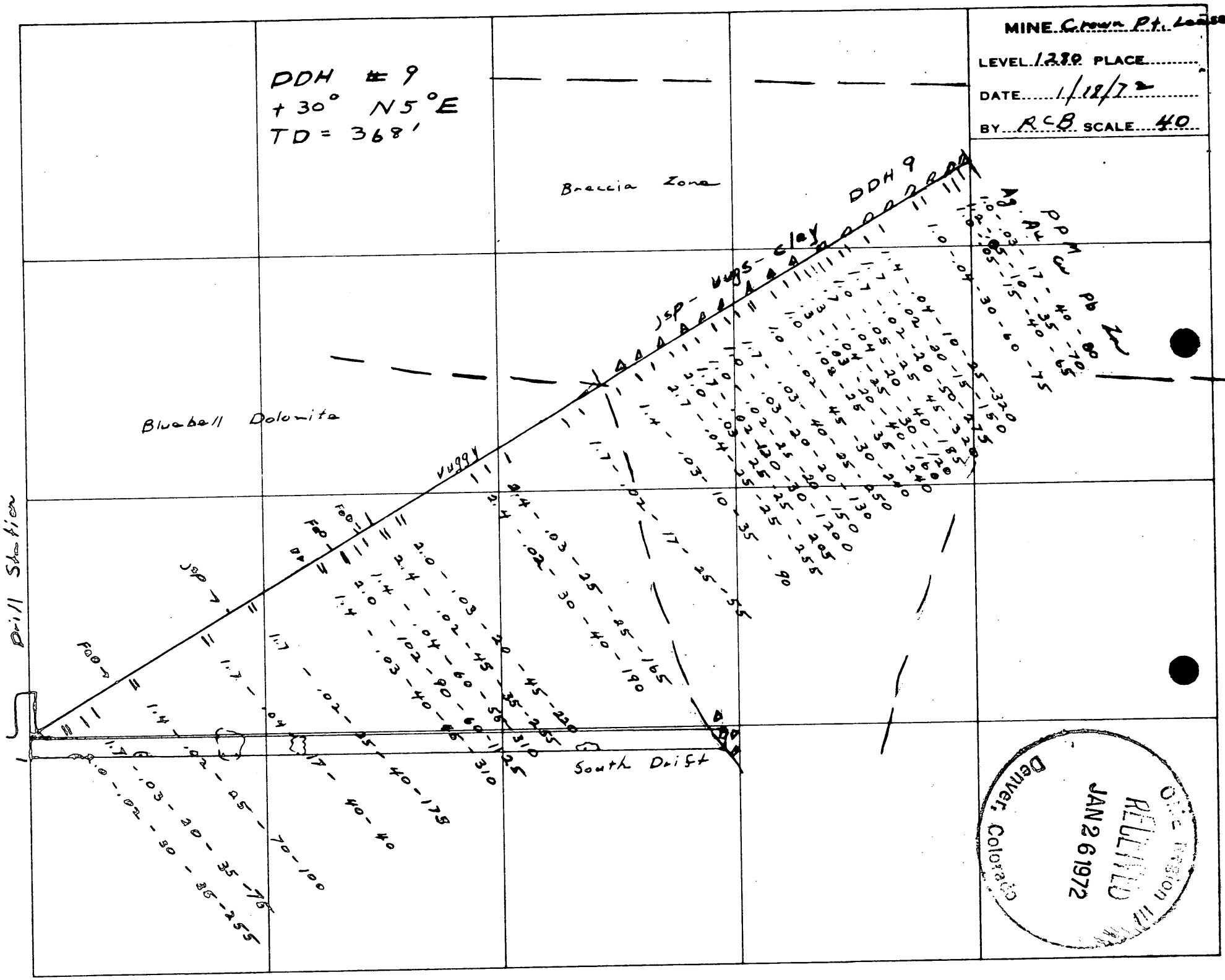
Sincerely,

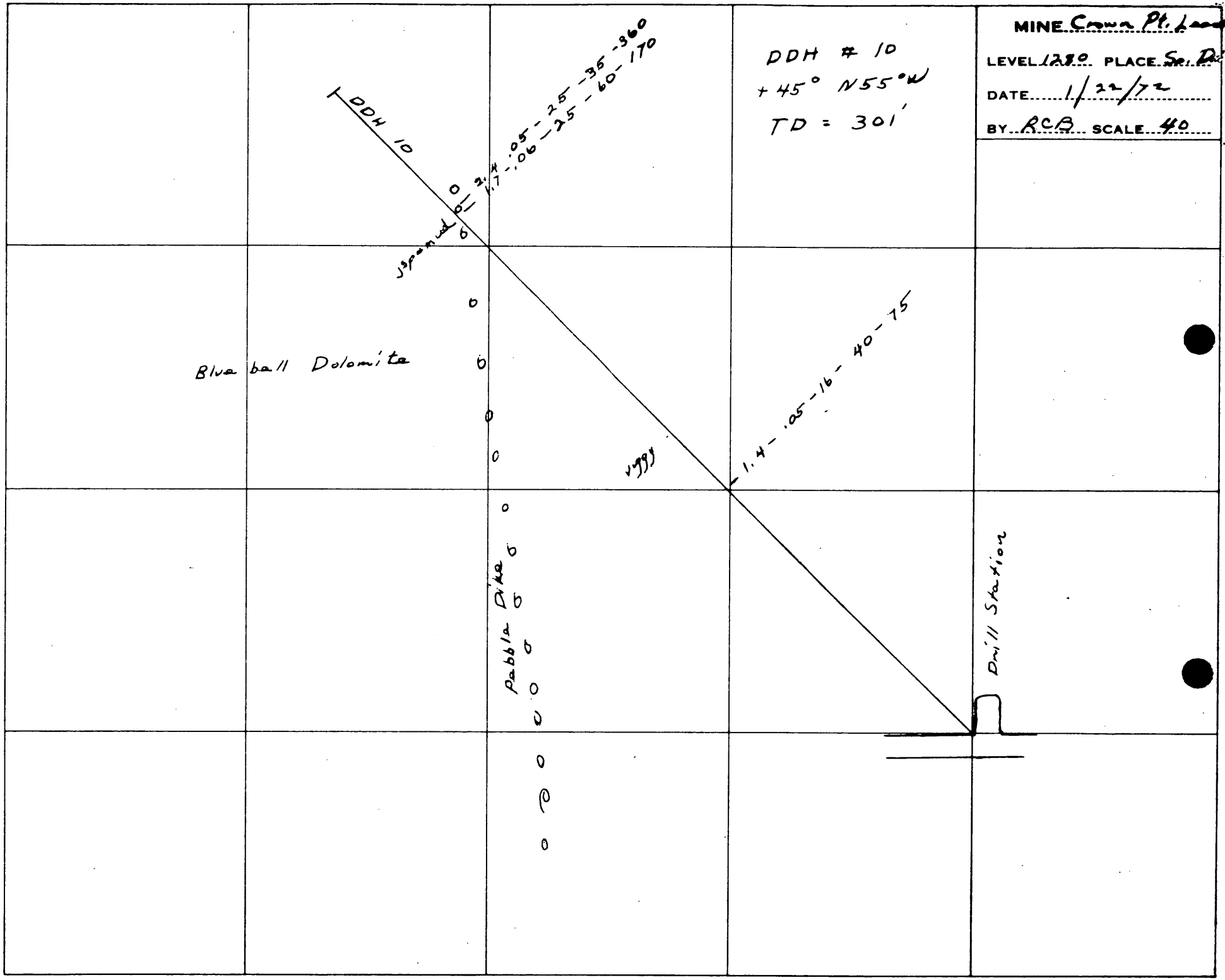
Roger C. Banghart

RCB:ijf

cc: Jack Larsen w/drill logs
Glen Larsen w/drill logs

Enclosures


MINE Crown Pt. Lease
LEVEL 1280 PLACE
DATE 1/18/72
BY RCB SCALE 40
DDH #9
+30° N5°E
TD = 368'
Breccia Zone
Bluebell Dolomite
DDH 9
Jsp - vugs - clay
vuggy
Drill Station
South Drift
Denver, Colorado
RECEIVED
JAN 26 1972

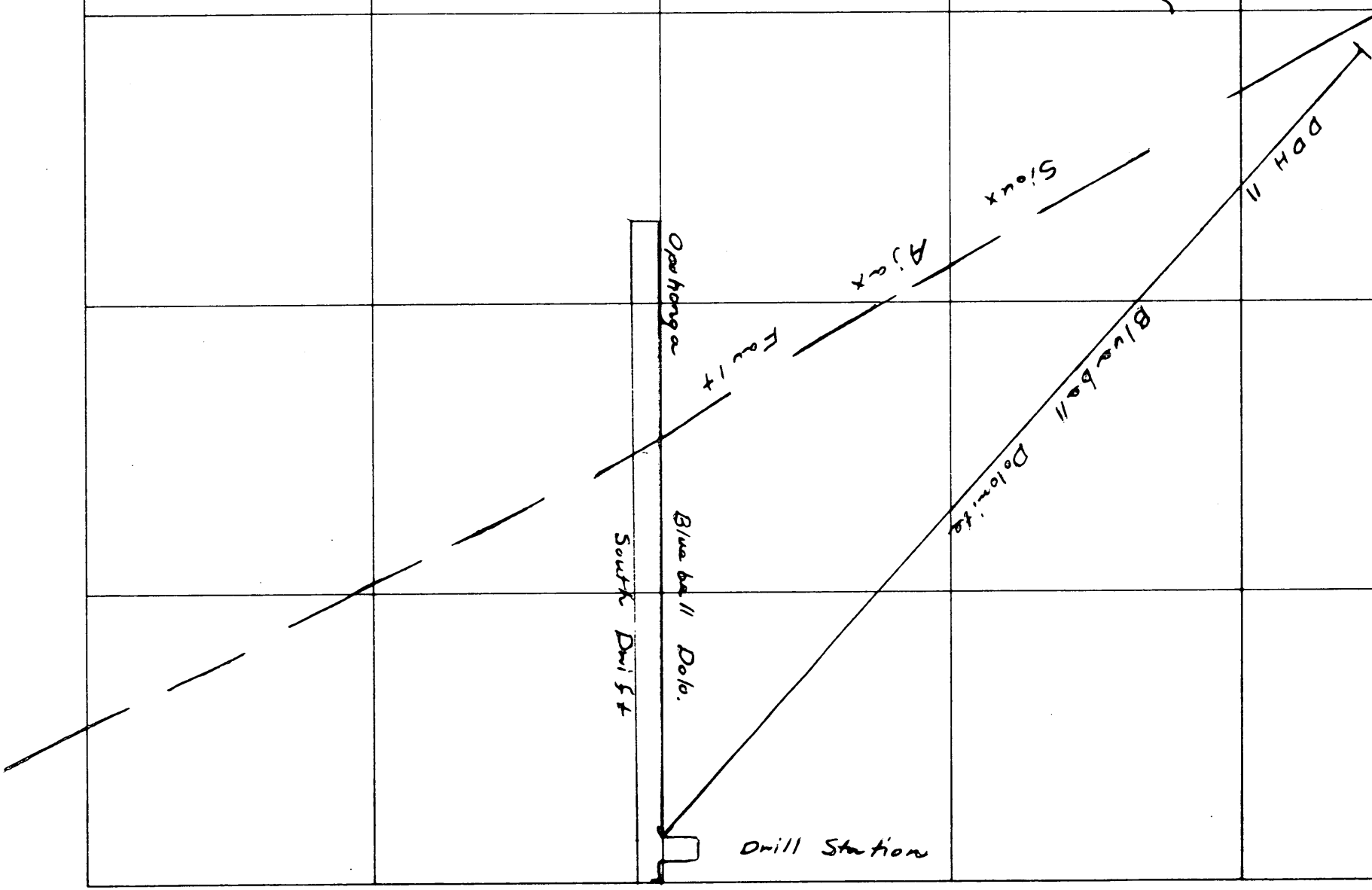

MINE Crown Pt. Lease
LEVEL 1280 PLACE So. Drift
DATE 1/22/72
BY RCB SCALE 40
DDH # 10
+45° N55°W
TD = 301'
DDH 10
2.4 .05 - 25 - 35 - 360
1.7 - .06 - 25 - 60 - 170
spanish
Blue ball Dolomite
1.4 - .05 - 16 - 40 - 75
vuggy
Pebble Dike
Drill Station

MINE Crown Pt. Lease

LEVEL 200 PLACE So. Drift

DATE 1/28/72

BY RCB SCALE 40

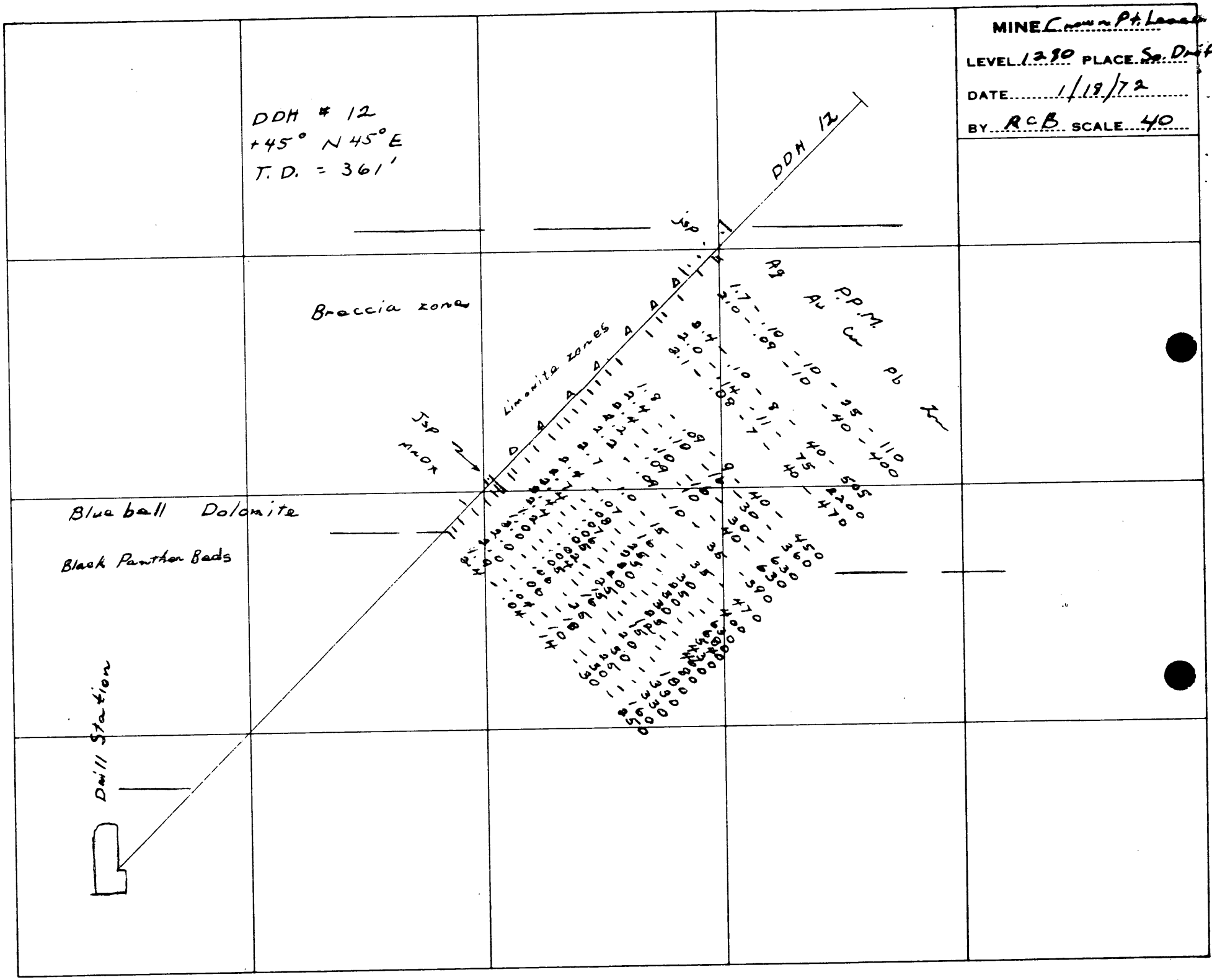


MINE Crown Pt Lease

LEVEL 1290 PLACE So. Drift

DATE 1/18/72

BY RCB SCALE 40



Master

CMSI

CHEMICAL & MINERALOGICAL SERVICES 3435 SOUTH STATE STREET, SALT LAKE CITY, UTAH 84115 (801) 265-6222

RECEIVED DEC 27 1971 Denver, Colorado

ANALYTICAL REPORT FOR:

American Exploration & Mining Company	OUR NUMBER 2330
P. O. Box 769	DATE Dec 20, 1971
Ely, Nevada 89301	CUSTOMER'S ORDER NO.

DDH 8 -45° East

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	DDH # 8
16660	1.4	.04	30	30	80	164-5
661	1.6	.03	20	30	55	230
662	1.0	.04	19	40	80	260-1
663	1.0	.04	30	80	75	249-50
664	1.7	.03	115 .015	60	40	343-4
665	2.0	.04	18	20	30	350-8
666	1.0	.02	13	35	40	392-3
			DDH 9			
667	1.7	.02	20	15	180	319-327
668	1.7	.02	20	50	275	317-319
669	.7	.03	20	30	295	312-316
670	1.0	.05	25	45	320	308-310
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673	.3	.03	20	40	160	296-301
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679	1.7	.02	120 .012%	30	1200 .12%	257-261
680	2.0	.03	25	25	205	252-257

+30° North

Pebble Dike and Breccia Zone

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
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682	1.4	.03	10	35	90	228 - 238
683	1.7	.02	17	25	55	206 - 214
684	2.4	.03	25	25	165	176 - 185
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688	1.4	.04	60	55	310	125 - 129
689	2.0	.02	90	60	1125 .11%	120 - 120.5
690	1.4	.03	40	45	310	111 - 113
691	1.7	.02	25	40	175	54 - 55
692	1.7	.04	17	40	40	65 - 67
693	1.4	.02	25	70	100	37 - 37.5
694	1.7	.03	20	35	75	15 - 20
695	2.0	.02	30	35	255	9 - 9.5

very high Sphalerite

Ray Brookhart

WE
JWH

AMERICAN EXPLORATION & MINING CO.

February 4, 1972

OME Region IV
RECEIVED
FEB 7 - 1972
Denver

Mr. J. W. Hasler
U.S. Geological Survey
Office of Mineral Exploration
Room 28, Building 53
Denver Federal Center
Denver, Colorado 80225

Ref: OME 6646-Larsen

Dear Bill:

Enclosed are three copies of the descriptive logs and assays of the last hole drilled on the Larsen Lease DDH-14. This was drilled in N30°E direction, + 15° angle for 343 feet and was collared East of the Roundy Shaft.

As noted on the descriptive log the hole penetrated Bluebell dolomite with massive clay beds for 52 feet. From 52 feet to 208 feet a dike with jasperoid, clay, and dolomite inclusions was penetrated. From 208 feet to 343 feet the hole penetrated the Fishaven dolomite.

The dike encountered in DDH-14 may correlate with the igneous rock penetrated in the flat hole to the East.

As soon as I complete DDH-13 I will mail the logs to you.

Sincerely,

Roger C. Banghart

Roger C. Banghart

RCB:ijf

Enclosures

A subsidiary of placer development limited
687 LYONS AVENUE • P. O. BOX 769 • ELY, NEVADA 89301 • (702) 289-3929

CMSI
CHEMICAL & MINERALOGICAL SERVICES 395 WEST 2700 SOUTH [redacted]T, SALT LAKE CITY, UTAH 84115 (801) [redacted]

ANALYTICAL REPORT FOR:

American Exploration Company	OUR NUMBER 2370
P. O. Box 769	DATE Jan 29, 1972
Ely, Nevada	CUSTOMER'S ORDER NO.

Larsen

DDH # 14 +15° N30°E From East End of Shaft Station

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
8864	.7	.05	25	15	18	86-90
8865	1.0	.07	20	15	15	80-86
8866	.7	.06	18	35	10	76-80
8867	.7	.08	20	40	12	72-76
8868	.3	.07	18	45	9	68-72
8869	.5	.06	10	25	8	65-68
8870	.7	.11	20	25	10	61-65
8871	.3	.10	20	13	10	57-61
8872	1.7	.06	8	25	25	41-43
8873	1.4	.05	12	30	20	47-48
8874	.7	.07	20	14	8	53-57
8875	1.7	.04	18	35	100	28-29
8876	1.4	.10	25	90	60	33-33½
8877	1.4	.03	6	25	11	8-11
8878	.3	.10	10	14	13	92-95
8879	.7	.08	25	16	35	95-100
8880	1.4	.08	18	30	160	200-[illegible]
8881	.3	.07	15	13	25	104-108
8882	.7	.05	10	17	80	108-128

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
8883	1.4	.04	9	25	130	293 - 297
8884	1.4	.05	6	25	45	316 - 333
8885	1.7	.07	10	45	115	297 - 313
8886	3.0	.06	8	50	700	313 - 313½

Roy Broadhead

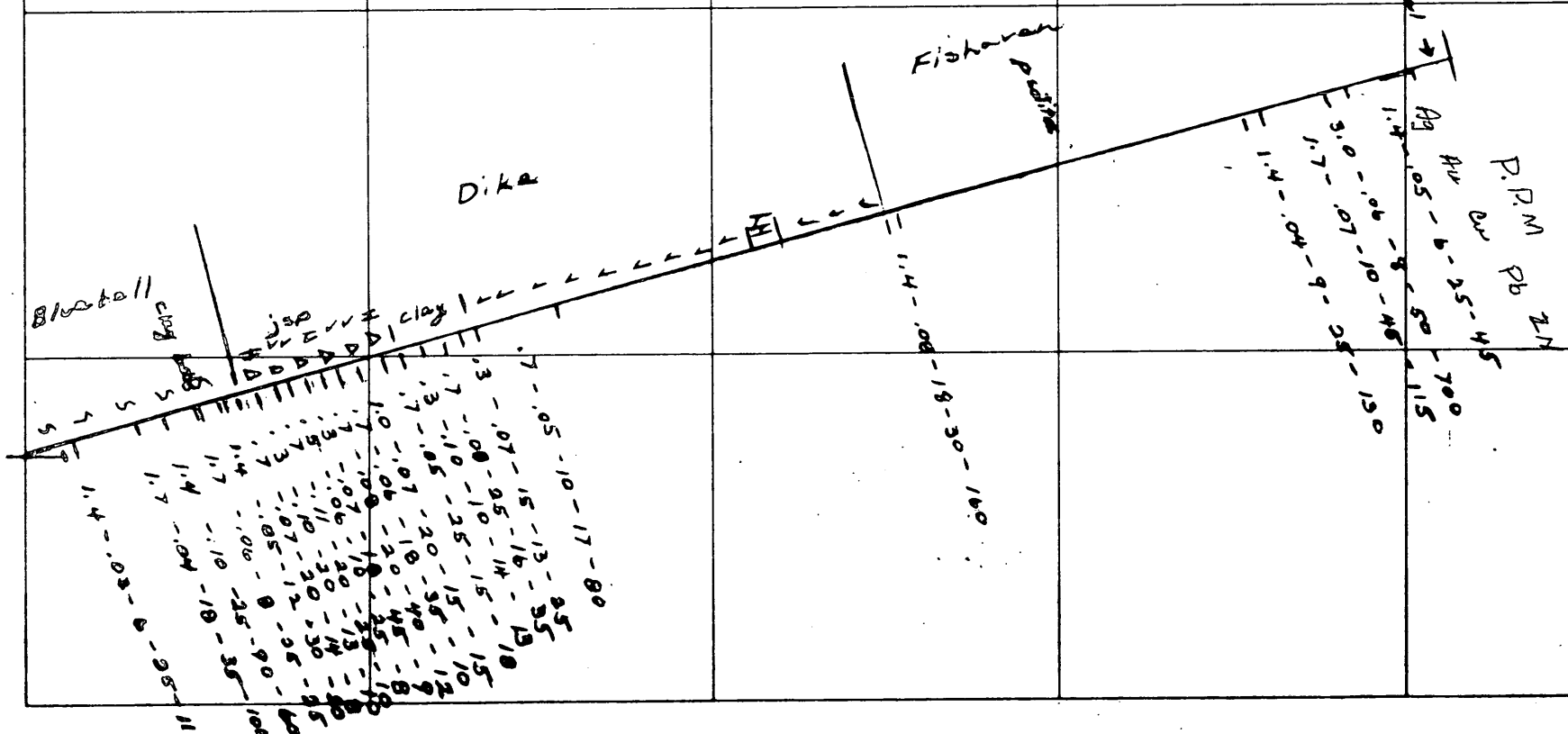
MINE Crown Pt

LEVEL 1280 PLACE SL

DATE

BY RCB SCALE 40

DDH - 14
+15° 343'
N30° E



Type for file

OME- 6646 (Silver)
Western States Minerals, Inc.

	Stage I			Stage II			
	Per voucher January 1971	Voucher Feb-March 1971	Voucher June 1971	Voucher July 1971	Total Stage I	Total Stage II	Total Stage I and II
Outside Consult	2 days - $150.00	3 days - $225.00	3 da - $225.00	2 day - $150.00	2 da - $150.00	8 da - 600.00	10 days - $750.00
Per diem Consult.	2 days - $32.00	3 days - $48.00	3 da - $48.00	2 days - $32.00	2 days - $32.00	8 da - 128.00	10 days - $160.00
Trans. Consult.	233 miles - $28.00	233 mi - $27.96	200 mi - $24.00	100 mi - $12.00	233 - $28.00	533 - 63.96	766 mi - 91.96
				$194.00	$210.00	$791.96	$1001.96

Fixed Unit Costs

Stage I Contract allows:	Stage II Contract allows	Total Stage I & Stage II
Outside Consult. - 2 days - $150.00	9 days - $675.00	11 days - $825.00
Per diem Consult. - 2 days $32.00	9 days - 144.00	11 days - $176.00
Trans. Consult. - 233 miles - $28.00	633 miles - 76.00	866 miles $104.00

Recap of Outside Consultant (per diem and transportation) ~~per diem and transportation~~ thru July 1971 voucher

Kirk:

This statement by Larsen is his "documentation" of Stage II drilling.

It, and the associated voucher dated 3-24-72 for the period Feb-March 71 purports to show expenditures of $36,000 for drilling. Close study would rule out some if not much of it - but $8,905.00 isn't unreasonable. I can pick out that much from the several items.

Why Hasler made any notations is not clear — since the voucher for Feb-March 71 had long since been paid.

It does give us a basis for giving Tavern some part of $85.00 for Core boxes which he never got — if we want to.

WESTERN
STATES MINING INCORPORATED
418 S 7 E RIVERTON WYOMING

TELEPHONE 856 9271

Western States Minerals
Box 1366
Provo, Utah 84601

STATEMENT

The following is a statement for the drilling program only. Station construction and drilling began in February, 1971. Drilling ended in March, 1971.

Description	Months Used	Cost per month	Total Cost
Equipment Rental:			
Hoist	2	$450.00	$ 900.00
Compressor #1	2	550.00	1100.00
Compressor #2	2	550.00	1100.00
Manche Motor Battery	2	250.00	500.00
Fans	2	100.00	200.00
Pumps	2	450.00	900.00
Cage & Skip	2	160.00	320.00
4 x 4 Pickup	2	150.00	300.00
4 x 4 Jeep Crew Car	2	150.00	300.00
TD 18 Tractor (Road Main.)	2	250.00	500.00
Mine Car (2 Stations)	1	50.00	50.00
Rockdrill (2 Stations)	1	125.00	125.00
Mucking Machine (2 Stations)	1	200.00	200.00
Dump Truck (2 Stations(	1	200.00	200.00
Dry (Change House)	2	100.00	200.00
Office Equip. & Storage	2	200.00	400.00
Welding Machine	2	200.00	400.00
Tools, hand tools, etc.	2	150.00	300.00
16 Battery mine lights	2	50.00	100.00
Pipe & Fittings			250.00
Rubber clothes (Suppling wet suits)	2	100.00	200.00
HD 5 Loader	2	350.00	700.00
Battery Charger	2	50.00	100.00
Headframe	2	300.00	600.00
Cable	2	100.00	200.00
John Larsen - Management	2	1500.00	3000.00
Travel Expenses	2	100.00	200.00
Glen Larsen - Supervision	2	1500.00	3000.00
Secretarial Services	2	275.00	550.00
Telephone		30%	165.35
TOTAL			$17,060.35

CERTIFIED TRUE COPY

[signature]

```
5288000
  30000
   8500
  33500
  10396

5370396
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DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

For Month of February & March 1971
Complete Stage II

Docket No. OME- 6646 (Silver)
Contract 14-08-0001 2285
Contract Amount $ Stg.II 61870.00
Gov't. Participation % 50 $ 30,935.00

Operator's Name Western States Minerals
Address 418 S. 7th E. Riverton, Wyo. 82501

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
Fixed Cost		$		$ 52,880.00		$		$ 52,880.00 1/
Actual Costs-Drlg. Only								
Equipment Rental				17,060.35				
Samples				980.00				
Drill Rental	1 mo.			900.00				
Lost Casing				300.00				300.00 2/
Core boxes				85.00				85.00 5/
Labor				10,681.51				
Taxes				1,439.93				
Accountant				130.00				
Insurance				241.04				
Consulting Geol.				335.00				335.00 3/
Utilities				1,068.50				
Supplies				640.24				
Travel				160.00				103.96 4/
Repairs				253.79				
Services				1,200.00				
Oil & Gas				493.69				
Telephone				188.03				
TOTALS		$		$ 89,037.13		$		$ 53,703.96

Superseded

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

Date 3-24-72 *Payee Western States Minerals

Per John L. Larson Title President

*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)

Approved as noted, subject to field examination and audit.

Signature J. William Hasler OME Field Officer 4/4/72 Date

Approved for: $ (SUBJECT TO AUDIT)

Signature

Date Vou. No.

(SEE OTHER SIDE)

FOR OPERATOR'S USE	FOR GOVERNMENT USE
REMARKS	REMARKS STAGE II Completed 1) Operators fixed unit costs were in excess of $52,880.00. Allow 52,880.00 JWH 2) Operators lost equipment totals $525.00, Allow $300.00 claimed. JWH 3) Consulting geologists fee total $825.00. Checks substantiate costs. Allow $335.00 claimed JWH 4) Consultants travel: 866 miles @ $0.12/mile = $103.96, Allow this amount. JWH 5) Core box lettering will be furnished allow $85.00. JWH

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 two parts.

FIRST, the Operator's Monthly Voucher on Form 9-1648 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 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 three copies of each of the two sections of this report to the OME regional Field Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, FORM 9-1648

In the left hand column list the items for which costs were incurred during the month, and also the items for which costs were previously reported. For items previously reported, show only UNITS TO DATE and COSTS TO DATE. Items listed should conform to Exhibit A of the contract (Estimated Costs of the Work). The total of COSTS THIS MONTH followed by the Operator's signature constitutes a claim for payment of the Government's share of the costs. The Operator or his agent must sign the certification in the lower left corner.

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, 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 unemployment taxes, employee's liability insurance, and depreciation of Operator-owned equipment. The certification may be stated thus, "Certified True Copy", 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 Field 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.

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

For Month of February & March 1971
Complete Stage II

Docket No. OME- 6646 (Silver)
Contract 14-08-0001 2285
Contract Amount $ Stg. II 61870.00
Gov't. Participation % 50 $ 30,935.00

Operator's Name Western States Minerals
Address 418 S. 7th E. Riverton, Wyo. 82501

FOR OPERATOR'S USE					FOR GOVERNMENT USE ONLY			
COST ITEMS (FROM EXHIBIT A)	THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
Fixed Cost		$		$ 52,880.00		$		$ 52,880.00 1/
Actual Costs-Drlg. Only								
Equipment Rental				17,060.35				
Samples				980.00				
Drill Rental	1 mo.			900.00				
Lost Casing				300.00				300.00 2/
Core boxes				85.00				85.00 5/
Labor				10,681.51				
Taxes				1,439.93				
Accountant				130.00				
Insurance				241.04				3/
Consulting Geol.				335.00				335.00
Utilities				1,068.50				
Supplies				640.24				
Travel				160.00				103.96 4/
Repairs				253.79				
Services				1,200.00				
Oil & Gas				493.69				
Telephone				188.08				
TOTALS		$		$ 89,037.13		$		$ 53,703.96

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

Date 3-24-72 *Payee Western States Minerals

Per John L. Larson Title President

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(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature J. William Hasler 4/4/72
OME Field Officer Date

Approved for: $
(SUBJECT TO AUDIT)

Signature

Date Vou. No.
(SEE OTHER SIDE)

FOR OPERATOR'S USE	FOR GOVERNMENT USE
REMARKS	REMARKS Stage II Complete 1/ Operator's fixed unit costs were in excess of $53,880.00. Allow $52,880.00 JWH 2/ Operator's lost casing totals $525.00. Allow $300.00 as claimed JWH 3/ Consulting geologists fees totalled $825.00. Check substantiates costs. Allow $335 as claimed. JWH 4/ Consultants travel 866 miles @ $0.12/mile = $103.96. Allow this amount. Billing will be terminated. JWH 5/ Core box bill will be forwarded. Allow $85.00. JWH

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

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, FORM 9-1648

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DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

For Month of February & March 1971
Complete Stage II

Docket No. OME- 6646 (Silver)
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Contract Amount $ Stg. II 61870.00
Gov't. Participation % 50 $ 30,935.00

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Address 418 S. 7th E. Riverton, Wyo. 82501

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
Fixed Cost		$		$ 52,880.00		$		$52,880.00 1)
Actual Costs-Drlg. Only								
Equipment Rental				17,060.35			—	—
Samples				980.00			—	—
Drill Rental	1 mo.			900.00			—	—
Lost Casing				300.00				300.00 3)
Core boxes				85.00				85.00 5)
Labor				10,681.51				
Taxes				1,439.93				
Accountant				130.00				
Insurance				241.04				
Consulting Geol.				335.00				335.00 3)
Utilities				1,068.50				
Supplies				640.24				
Travel				160.00				
Repairs				253.79	866 mi			103.96 4)
Services				1,200.00				
Oil & Gas				493.60				
Telephone				188.08				
TOTALS		$		$ 89,037.13		$		$53,703.96

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

Date 3-24-72 *Payee Western States Minerals

Per John L. Larsen Title President

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(INSTRUCTIONS ON REVERSE)

Approved as noted, subject to field examination and audit.

Signature J. William Hasler OME Field Officer 4/4/72 Date

Approved for: $ (SUBJECT TO AUDIT)

Signature

Date Vou. No.

(SEE OTHER SIDE)

FOR OPERATOR'S USE	FOR GOVERNMENT USE
REMARKS	REMARKS STAGE II Complete 1/ Operations fixed unit costs were in excess of $52,880.00, allow no more allowed. JWH 2/ Operator's lost casing tables $525.00. Allow $300.00 claimed. JWH 3/ Consulting geological fees totalled $825.00. Allow $335.00 checks substantiate costs. JWH 4/ Consultants' travel: 866 miles @ $0.12/mile = $103.96. Allow this amount. Billing will be forwarded 5/ Core Box statements will be forwarded. JWH.

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Mountain Bell

Pd 12-9-71
Ck 3238

WESTERN STATES MINING
MINING INC
RIVERTON WY 82501

AREA CODE	TELEPHONE NUMBER	OFFICE USE
307	856-9271	852 94 B

BILLING DATE *
11-16-71

BUSINESS OFFICE ADDRESS
505 E WASHINGTON
RIVERTON WYOMING
0103 0110

TOP FLR

	STATE-LOCAL TAXES	FEDERAL TAX	TOTAL INCLUDING TAXES
LOCAL SERVICE AND EQUIPMENT. ONE MONTH IN ADVANCE	1.59	4.85	59.39
LONG DISTANCE CALLS. Statement Enclosed	1.51	19.51	216.16
OTHER CHARGES AND CREDITS. Explanation Enclosed			
DIRECTORY CHARGES ONE MONTH IN ADVANCE	.00		3.90
ADDITIONAL LOCAL CALLS OR MSG UNITS ( )			
BALANCE FROM LAST BILL. If Paid, Please Deduct			

BUSINESS OFFICE NUMBER
856-9431

B
6
0

PLEASE RETURN ENCLOSED CARD WITH PAYMENT

* CHARGES AND CREDITS AFTER YOUR BILLING DATE MAY NOT BE REFLECTED ON THIS BILL

DUE UPON RECEIPT

TOTAL
279.45

852 856 9271

CERTIFIED TRUE COPY

John L Lee

2249

DATE 12-6 19 71

EMP. NAME Sheila Lee

BAL. FOR'D			REG. PAY		
			OVER-TIME		
DEPOSITS			TOTAL EARN.	137	50
			F. I. C. A.	7	15
			FED. WITH. TAX	18	40
			STATE WITH. TAX		
TOTAL					
THIS CHECK	111	95	TOTAL DED.	25	55
BALANCE			NET PAY	111	95

2265

DATE 12-21 19 71

EMP. NAME Sheila Lee

BAL. FOR'D			REG. PAY		
			OVER-TIME		
DEPOSITS			TOTAL EARN.	137	50
			F. I. C. A.	7	15
			FED. WITH. TAX	18	40
			STATE WITH. TAX		
			Ins	13	50
TOTAL					
THIS CHECK	98	45	TOTAL DED.	39	05
BALANCE			NET PAY	98	45

2281

DATE 1-5 19 72

EMP. NAME Sheila Lee

BAL. FOR'D			REG. PAY		
			OVER-TIME		
DEPOSITS			TOTAL EARN.	137	50
			F. I. C. A.	7	15
			FED. WITH. TAX	19	55
			STATE WITH. TAX		
TOTAL					
THIS CHECK	110	80	TOTAL DED.	26	70
BALANCE			NET PAY	110	80

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

2249

99-192
1063

DEC 13 '71 XXX

12-6 1971

PAY TO THE ORDER OF Sheila Lee $ 111 95

ONE HUNDRED ELEVEN DOLLS 95 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

⑆1063⑈0192⑆ 530⑈244⑈3⑈ ⑈0000011195⑈

P F

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

2265

99-192
1063

DEC 22 '71 XXX

12-21 1971

PAY TO THE ORDER OF Sheila Lee $ 98 45

NINETY EIGHT DOLLS 45 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

⑆1063⑈0192⑆ 530⑈244⑈3⑈ ⑈0000009845⑈

P F

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

2281

99-192
1023

JAN 10 '72 XXX

1-5 1972

PAY TO THE ORDER OF Sheila Lee $ 110 80

ONE HUNDRED TEN DOLLS 80 CTS DOLLARS

WESTERN STATES MINING, INC.

FIRST NATIONAL BANK
RIVERTON, WYOMING 82501

⑆1023⑈0192⑆ 530⑈244⑈3⑈ ⑈0000011080⑈

P F

CERTIFIED TRUE COPY

2205

DATE 10-21 1971

EMP. NAME Shirley Lee

BAL. FOR'D			REG. PAY		
DEPOSITS			OVER-TIME		
			TOTAL EARN.	137	50
			F. I. C. A.	7	15
			FED. WITH. TAX	18	40
			STATE WITH. TAX		
			Ins	13	50
TOTAL					
THIS CHECK			TOTAL DED.	39	05
BALANCE			NET PAY	98	45

2213

DATE 11-5 1971

EMP. NAME Shirley Lee

BAL. FOR'D			REG. PAY		
DEPOSITS			OVER-TIME		
			TOTAL EARN.	137	50
			F. I. C. A.	7	15
			FED. WITH. TAX	18	40
			STATE WITH. TAX		
TOTAL					
THIS CHECK	111	95	TOTAL DED.	25	55
BALANCE			NET PAY	111	95

2234

DATE 11-22 1971

EMP. NAME Shirley Lee

BAL. FOR'D			REG. PAY		
DEPOSITS			OVER-TIME		
			TOTAL EARN.	137	50
			F. I. C. A.	7	15
			FED. WITH. TAX	18	40
			STATE WITH. TAX		
			Ins	13	50
TOTAL					
THIS CHECK	98	45	TOTAL DED.	39	05
BALANCE			NET PAY	98	45

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

2205

99-192
1063

OCT 22 '71 XXX

10-21 1971

PAY TO THE ORDER OF THE FIRST NATIONAL BANK $ 98 45

RIVERTON, WYOMING

NINETY-EIGHT DOLLS 45 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

⑆1063⑈0192⑆ 530⑈244⑈3⑈ ⑈0000009845⑈

PF

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

2213

99-192
1063

NOV '71 XXX

11-5 1971

PAY TO THE ORDER OF THE FIRST NATIONAL BANK RIVERTON, WYOMING $ 111 95

ONE HUNDRED ELEVEN DOLLS 95 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

⑆1063⑈0192⑆ 530⑈244⑈3⑈ ⑈0000011195⑈

PF

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

2234

99-192
1063

NOV 29 '71 XXX

11-22 1971

PAY TO THE ORDER OF THE FIRST NATIONAL BANK RIVERTON, WYOMING $ 98 45

NINETY-EIGHT DOLLS 45 CTS DOLLARS

WESTERN STATES MINING, INC.

The FIRST NATIONAL BANK of RIVERTON, WYOMING

⑆1063⑈0192⑆ 530⑈244⑈3⑈ ⑈0000009845⑈

PF

CERTIFIED TRUE COPY

2301

DATE 1-21 19 72

EMP. NAME Sheila Lee

BAL. FOR'D			REG. PAY		
			OVER-TIME		
DEPOSITS					
			TOTAL EARN.	137	50
			F. I. C. A.	7	15
			FED. WITH. TAX	19	55
			STATE WITH. TAX		
			Ins	13	50
TOTAL					
THIS CHECK	97	30			
			TOTAL DED.	40	20
BALANCE			NET PAY	97	30

2318

DATE 2-8 19 72

EMP. NAME Sheila Lee

BAL. FOR'D			REG. PAY		
			OVER-TIME		
DEPOSITS					
			TOTAL EARN.	137	50
			F. I. C. A.	7	15
			FED. WITH. TAX	19	55
			STATE WITH. TAX		
TOTAL					
THIS CHECK					
			TOTAL DED.	26	70
BALANCE			NET PAY	110	80

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

2301

99-192
1023

JAN 25 '72 XXX

1-21 1972

PAY TO THE ORDER OF Sheila Lee $ 97 30

NINETY SEVEN DOLLS 30 CTS DOLLARS

FIRST NATIONAL BANK
RIVERTON, WYOMING 82501

WESTERN STATES MINING, INC.

John L Lam

⑆1023⑈0192⑆ 530⑈244⑈3⑈ 81⑈0000009730⑈

P F

BY ENDORSEMENT THIS CHECK WHEN PAID IS ACCEPTED IN FULL PAYMENT OF THE FOLLOWING ACCOUNT

DATE		AMOUNT	
	TOTAL		
	DISCOUNT		
	AMOUNT OF CHECK		

WESTERN STATES MINING, INC.
418 SOUTH 7TH E
RIVERTON, WYOMING 82501

2318

99-192
1023

FEB -9 '72 XXX

2-8 1972

PAY TO THE ORDER OF Sheila Lee $ 110 80

ONE HUNDRED TEN DOLS 80 CTS DOLLARS

FIRST NATIONAL BANK
RIVERTON, WYOMING 82501

WESTERN STATES MINING, INC.

John L Lam

⑆1023⑈0192⑆ 530⑈244⑈3⑈ ⑈0000011080⑈

P F

CERTIFIED TRUE COPY

John L Lam

1370

DATE 11-15 1971

FOR WAGES TO AND INCLUDING ABOVE DATE

ISSUED TO Kenneth Webber

BAL. FOR'D			REGULAR WAGES		
			OVERTIME WAGES		
DEPOSITS			TOTAL WAGES	700	—
			F.I.C.A.	36	40
			FED. WITH. TAX	96	90
			STATE WITH. TAX		
TOTAL					
AMT. THIS CHECK	566	70	TOT. DED.	133	30
BAL.			AMT THIS CHECK	566	70

CHECK	235	39	TOT. DED.	55	11
BAL.			AMT THIS CHECK	235	39

1372

DATE 11-30 1971

FOR WAGES TO AND INCLUDING ABOVE DATE

ISSUED TO Kenneth Webber

BAL. FOR'D			REGULAR WAGES		
			OVERTIME WAGES		
DEPOSITS			TOTAL WAGES	600	00
			F.I.C.A.	31	20
			FED. WITH. TAX	77	50
			STATE WITH. TAX		
TOTAL					
AMT. THIS CHECK	491	30	TOT. DED.	108	70
BAL.			AMT THIS CHECK	491	30

CERTIFIED TRUE COPY

CENTURY NUCLEAR, INC.
RIVERTON, WYOMING 82501

1370

99-192
1063

PAID
NOV 26 '71 XXX
99-192

11-19 1971

PAY TO THE ORDER OF Kenneth Wheeler $ 566 70

FIVE HUNDRED SIXTY SIX DOLS 70 CTS DOLLARS

The FIRST NATIONAL BANK of RIVERTON, WYOMING

CENTURY NUCLEAR, INC.

Emery Tomlinson

⑆1063⑈0192⑆ 504⑈496⑈ 61⑈ ⑈0000056670⑈

ROCKY MT. BANK NOTE CO. P. R.

CENTURY NUCLEAR, INC.
RIVERTON, WYOMING 82501

1372

99-192
1063

PAID
DEC 14 '71 XXX
99-192

12-6 1971

PAY TO THE ORDER OF Kenneth Wheeler $ 491 30

FOUR HUNDRED NINETY ONE DOLS 30 CTS DOLLARS

The FIRST NATIONAL BANK of RIVERTON, WYOMING

CENTURY NUCLEAR, INC.

J. C. L. Lam

⑆1063⑈0192⑆ 504⑈496⑈ 61⑈ ⑈0000049130⑈

ROCKY MT. BANK NOTE CO. P. R.

AMERICAN EXPLORATION & MINING CO.

February 16, 1972

Mr. J. W. Hadlor
US Geological Survey
Office of Mineral Exploration
Room 28, Building 53
Denver Federal Center
Denver, Colorado 80225

Dear Bill:

Below are listed the assay samples which I have taken. Jack and Glen probably took others. These would be since September 1, 1971, on the last drilling and drifting program.

Date 1971-72	Samples	Cost	Lab
Sept. 13	9	$ 90.00	Phillips
Sept. 20	12	120.00	Phillips
Oct. 24	5	29.25	CMS
Nov. 14	15	87.75	CMS
Nov. 27	4	26.00	CMS
Dec. 2	41	239.85	CMS
Dec. 20	36	210.60	CMS
Jan. 15	31	201.50	CMS
Jan. 29	23	149.50	CMS
3/30/72 oc TOTALS	176	$1155.15	
Cost per sample $6.56			

If you don't have copies of these determinations let me know and I'll send you a copy.

Between February 9, 1971 to August 17, 1971, 98 samples were taken which cost $980 or $10/sample.

Sincerely,

Roger

Roger C. Banghart

CERTIFIED TRUE COPY

Jack Larson

cc: Jack Larson

A subsidiary of placer development limited

687 LYONS AVENUE • P. O. BOX 769 • ELY, NEVADA 89301 • (702) [illegible]

Admiral Nuclear

Date 2-17 1972

To Western States Mining

Address

City

11.5	hrs @ 45.00			517	50	
(4 trips - Crown Point)						
Credit - Less paid						
	chg WSM			76	13	
	Due			441	37	
	Pd 2-17-72					
	3413					
	Ck					

Rediform 8K 882

STATEMENT

CERTIFIED TRUE COPY

J. C. Lam

[redacted] OF THE INTERIOR
[redacted]OGICAL SURVEY
OFFICE OF MINERALS EXPLORATION

OPERATOR'S MONTHLY VOUCHER

For Month of January 1972 Stage I, II, III

Docket No. OME- 6646 (Silver)
Contract 14-08-0001 2285
Contract Amount $ 326,558.00
Gov't. Participation 25% ~~[illegible]~~ 50% $119,189.00

Operator's Name Western States Minerals, Inc.
Address 418 S. 7th E.
Riverton, Wyoming 82501

COST ITEMS (FROM EXHIBIT A)	FOR OPERATOR'S USE: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS	FOR GOVERNMENT USE ONLY: THIS MONTH UNITS	THIS MONTH COSTS	TO DATE UNITS	TO DATE COSTS
		$		$		$		$
Stage I								
Shaft 7'x14'			1300	176,150.00	--	--	1300	176,150.00
Stage II								
Crosscutting 5'x7'			1370	51,991.50			1370	51,991.50
Drilling			1099	7,012.50			1099	7,012.50
Mobilization & demob.			unit	200.00			unit	200.00
Collar pipe			40	296.00			40	296.00
Redrilling			25	337.50			25	337.50
Reaming			31	372.00			31	372.00
Standby time			12	162.00			12	162.00
Lost casing in hole (not left in hole at operator's request)			175	525.00			175	525.00
Stage III								
Drilling 3/Amend. 3 Actual Costs								
Cat. 1 Ind. Contracts	834	12 900.00	3334	66,650.00	834	12 900.00	3334	66,650.00
Crosscutting	0	0	300	18,804.00	0	0	300	18,804.00
1-Outside consultant	1	100.00	22	1,935.00	1	100.00	22	1,935.00
Stage I,II & III Consultant's per diem	1	20.00	22	396.00	1	20.00	22	396.00
Consultant's mile.	83	10.00	1722	209.22	83	10.00	1722	209.22
Core boxes	10	10.00	200	200.00	10	10.00	200	200.00
Assaying (samples)	39	195.00	[236]	~~1,250.00~~	39	195.0	[236]	1,250.00
			176	~~1,155.15~~			176	875.00
				875.00				
		13 234.96		115.72				115.72
TOTALS		$140.00		$326,~~490~~.72		$13,235.00		$326,~~490~~.72

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

Date 4-12-72 *Payee Western States Minerals

Per [signature] Title President

*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)

Approved as noted, subject to field examination and audit.

Signature J. William Hasler OME Field Officer Date 4/19/72

Approved for: $ (SUBJECT TO AUDIT)

Signature VOID

Date Vou. No. (SEE OTHER SIDE)

FOR OPERATOR'S USE	FOR GOVERNMENT USE
REMARKS	REMARKS

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 two parts.

FIRST, the Operator's Monthly Voucher on Form 9-1648 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 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 three copies of each of the two sections of this report to the OME regional Field Officer at the end of each month during the life of the contract.

PREPARATION OF OPERATOR'S MONTHLY VOUCHER, FORM 9-1648

In the left hand column list the items for which costs were incurred during the month, and also the items for which costs were previously reported. For items previously reported, show only UNITS TO DATE and COSTS TO DATE. Items listed should conform to Exhibit A of the contract (Estimated Costs of the Work). The total of COSTS THIS MONTH followed by the Operator's signature constitutes a claim for payment of the Government's share of the costs. The Operator or his agent must sign the certification in the lower left corner.

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, 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 unemployment taxes, employee's liability insurance, and depreciation of Operator-owned equipment. The certification may be stated thus, "Certified True Copy", 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 Field 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.

CROWN POINT AND EAST CROWN POINT CLAIMS
TINTIC MINING DISTRICT
UTAH COUNTY, UTAH

FINAL REPORT - MARCH 1972
OME 6646 - LARSEN
COPPER-SILVER-GOLD

SUBMITTED TO:

John Larsen, President
Western States Mining and Contracting Co.
Riverton, Wyoming

William Hasler, Field Officer, Region III
USGS - OME
Denver, Colorado

Jack Bush, Manager of Exploration
American Exploration & Mining Company
San Francisco, California

SUBMITTED BY:

Roger C. Banghart, District Geologist
American Exploration & Mining Company
Ely, Nevada

OPERATOR'S
FINAL REPORT

Roger Banghart

CONTENTS

SUMMARY

CONCLUSIONS AND RECOMMENDATIONS

GEOLOGY

Alteration and Mineralization
- Pyritization
- Sanding
- Manganese
- Jasperoid

Structure
- Sioux Ajax Fault
- Pebble Dike Zones
- Folding
- Faulting
- Breccia Zones

Stratigraphy
- Bluebell Formation
- Fish Haven Formation
- Opohonga Formation

MAPS

1. Revised Engineering Map - 1" = 300'
2. Geology Map of Crown Point No. 3 Shaft and 680 Level 1" = 300'
3. Geology Map of Roundy Shaft 1280 Level - OME 6646 1" = 40'
4. Geology Cross Section Roundy Shaft 1" = 40'

APPENDIX

1. Diamond Drill Logs - OME 6646 DDH 1-14
2. Complete Assays - OME 6646
3. OME 6646 Report April 1967 by Roger Banghart
   With Logs CP 1
   With Crown Point Report - G. W. Crane, 1928

SUMMARY

This report summarizes the work performed under the U. S. Geological Survey's, Office of Minerals Exploration 6646 contract exploring for gold, silver, and copper mineralization on the Crown Point and East Crown Point claims, Tintic Mining District, Eureka, Utah. Western States Mining and Contracting Company has leased the properties and is the operator.

During September, 1967 a geologic report (appendix 3) was submitted to the Denver office of the Office of Minerals Exploration requesting a program to explore for blind ore bodies beneath a pyritized Tertiary volcanic capping. This capping covered the east-west striking Sioux Ajax fault with intersecting north-south mineralized structures in the Bluebell Formation.

Beginning in the summer of 1970 and concluding in February 1972 the following physical exploration work was accomplished:

1. Shaft sinking-Roundy Shaft 1300 feet
2. Drifting and crosscutting 1685 feet
3. Diamond drilling

   Stage 1 - 1105 feet
   Stage 2 - 3320 feet
   Total 14 holes 4425 feet

4. Assaying: gold, silver, lead, zinc, copper
   Total samples 239
   Total determinations 1195

The following geologic features were determined and mapped during the life of this program:

1. Sioux Ajax fault was located.
2. The Bluebell-Fish Haven contact was located.
3. Two north-northeast pebble dike zones were discovered.
4. Massive Bluebell breccia bed containing anomalous gold values was discovered. This bed contained up to 20 cents in gold.

5. Base of the volcanic flows in the shaft were located at 980 feet.

6. Manganese-limonite zones containing anomalous values in gold, silver, lead, zinc, and copper were discovered. Values of .5% Pb, .4% Zn and .4% Cu were obtained.

CONCLUSIONS AND RECOMMENDATIONS

It is concluded that the physical exploration program thus far completed has been successful in locating mineralized structures and bedding horizons which have the possibility with a more detail exploration program of locating an ore zone. The recently completed program has discovered mineralized zones on the 1280 level and in the drill holes penetrating above the level. These areas bear further deliniation through diamond drilling, long-holing, raising, and crosscutting.

It is recommended that the walls of the south drift leading toward the Sioux Ajax fault, which contains pockets of manganese and iron mineralization and assayed as high as .5% lead, .4% copper, and .4% zinc, need to be further explored by long-holing. Diamond drilling should be undertaken to explore the breccia zones located 100 feet above the south drift. These breccia zones contain anomalous values in gold up to 20 cents. Also a flat hole should be extended from the west end of the west crosscut to explore through the shaly beds which contain anomalous values in copper. An uphold in this area to the west would be valuable in exploring this anomalous copper area.

Money should be allocated for raising and crosscutting to further explore the breccia zone located approximately 100 feet above the 1280 level.

GEOLOGY

The concepts for exploring the Crown Point and East Crown Point properties are based upon geologic features which are ore bearing parameters in the Main Tintic and East Tintic mining districts. These parameters have lead to the discovery of significant ore bodies in this district and may be categorized as alteration features, structural features, and stratigraphic features.

ALTERATION AND MINERALIZATION

PYRITIZATION

Geological mapping of the surface in the southern portion of the Crown Point properties indicated a Tertiary volcanic cover which contained strong and moderate amounts of pyrite and limonite. In sinking the Roundy Shaft to 1300 feet, volcanics were encountered from the surface down to 980 feet at which point the rubble zone occurred. The volcanics through this 980 foot interval were pyritized and limonite stained. The intensity of pyritization usually depended upon the amount of fracturing which was present.

This pyritization of volcanics has been classified as the latest pre-ore stage of mineralization as defined by Dr. Lovering in his Economic Geology Monograph on this district. These pyritized volcanics gain significence in the district by being the capping above blind ore bodies such as the North Lily, Burgin, Trixie, and Iron Blossom mines.

In the sediments pyrtization is very prominent throughout the Bluebell Formation on the 1280 level of the Roundy Shaft. This pyritization occurs as finely disseminated microcrystaline pyrite and as coarse pyrite bleds and has flooded the entire Bluebell Formation within the project area.

SANDING

Sanding of the dolomite is a common occurrence in the Burgin mine and forms the footwall of the ore zones. This sanding is considered a hydrothermal feature and occurs in varying degrees on intensity within the project area on the 1280 level. In the Main Tintic district this sanding is not as prominent.

MANGANESE

The development of manganese oxides is much more prominent in the East Tintic district and occurs as massive zones within the ore bodies in the Burgin Mine. In the south end of the Main Tintic district manganese is not present, whereas, at the north end of the main district manganese becomes a part of the ore. Thus manganese is a feature of temperature zoning in the Tintic district and occur prominently on the 1280 level of the Roundy Shaft. The workings from the Roundy Shaft are probably in a transition zone between the gold-silver-copper mineralization of the main district and the manganese lead-zinc mineralization of the East Tintic district. Manganese with lead and zinc is prominent as large pockets in the south drift leading toward the Sioux Ajax fault. The manganese would contain up to a half a percent each of lead and zinc.

JASPEROID

Jasperoid is an alteration feature of significance in the Tintic district. It occurs as gossan outcrops on the surface at the Tintic Standard Mine and it occurs throughout the ore bodies in the Burgin Mine. In the Roundy Shaft on the 1280 level jasperoid has been discovered along bedding horizons, within pebble dike zones, and in the bedding breccia located by diamond drilling above the level. It has been noted in the Tintic district that although many jasperoids have a close association with ore bodies, there are also jasperoids which are exceedingly deficient in mineralization. On the 1280 level of the Roundy Shaft it was noted that the productive and unproductive types of jasperoids are present. The jasperoid which occurred in the bedding breccia above the level contained anomalous values in gold, approximating 10 to 20 cents in value.

Jasperoid and manganese zones occurred on the 680 level of the Crown Point No. 3 shaft which would be north of the Roundy Shaft. These zones were instrumental in recommending this exploration program further south toward the Sioux Ajax fault. The jasperoid-manganese zones on the 680 level are in the base of the Victoria Formation and most likely represent the tops of ore channels.

STRUCTURE

The structural features which had a bearing on recommending this OME program consisted of the Sioux Ajax fault and north-northeast pebble dike zones.

SIOUX AJAX FAULT

The Sioux Ajax fault was projected beneath the pyritized Tertiary volcanics from its last known position in the Iron Blossom mine to the west. This fault has been considered a major part of the plumbing system in the Tintic district, and is associated with the ore deposits in the Mammoth, Spy, Iron Blossom, and the Trixie mines.

The Sioux Ajax fault is located about 750 feet south of the Roundy Shaft on the 1280 level. From its location on the 1280 level and from diamond drill holes it would have a strike of North 75° West and a dip 65° to 70° North. On the hanging wall side of the fault the base of the Bluebell Formation would occur 27 feet below the 1280 level. The footwall consist of the Opohonga Formation. A maximum of 1200 feet of stratigraphic displacement can be inferred across the Sioux Ajax fault.

It would appear from the work so far accomplished that no ore occurs directly in the Sioux Ajax fault zone. The best mineralization occurs within the Bluebell dolomite from 50 to 400 feet north of the fault zone. The brecciation which occurs within the Sioux Ajax fault is not anomalous in any metals, however, the Opohonga Formation contains considerable limonite staining and pyrite. Sanding is also prominent in the Opohonga Formation near the fault zone.

PEBBLE DIKES

Pebble dike zones are one of the ore parameters in the East Tintic district. They occur above the North Lily mine, Tintic Standard mine, Burgin mine, Ball Park area, and in the Trixie mine. These north-northeast pebble dikes, usually contain geochemical values. No ore has been found directly in the pebble dike zones but usually occur within close proximity to major ore bodies. These pebble dikes have a north-northeast strike and a vertical dip.

In the Roundy Shaft on the 1280 level two major pebble dike zones containing quartzite fragments and jasperroid fragments have been located. These pebble dikes have a generally north-northeast strike and are located 180 feet apart. These pebble dike zones break up into several small independent pebble dikes and also may occur as pebble zones wider than the drift. In some instances geochemical values have been obtained in these pebble dikes on the 1280 level.

FOLDING

Major folding in the Tintic district consists of a syncline to the west in the main district and an anticline to the east in the East Tintic district. The Crown Point properties occur in between on the gently westerly dipping flank of the East Tintic anticline with dips of 12° to 15° to the west.

On the 1280 level local tight folding, crumpling and brecciation occurs in the lighter gray dolomitic beds. These smaller folds give dips up to 30° and as flat as 0° with some reverse dips.

FAULTING

Faulting occurs across the north-northwest striking rhyolite dikes with minor offsets across several northwest structures. The southeast side of these faults are down dropped. The largest faulting occurs across the north-northwest dike located northeast of the shaft on the 1280 level in diamond drill hole 14. Here the Fish Haven dolomite occurs on the northeast side of the dike and the Bluebell dolomite on the southwest side. The southwest side has been down dropped approximately 180 feet across the dike zone.

Other faulting occurs as flat bedding plane slips and may indicate thrusting of small magnitude.

BRECCIAS

Breccia zones have been located in two diamond drill holes (DDH 9 and 12) and are 100 feet above the south drift within the Bluebell dolomite. These breccia zones occur above the black dolomite which contains large white dolomite eyes and blebs. This breccia zone is 75 feet thick and occurs 150 feet above the base of the Bluebell Formation. The breccia zone contains 10 to 20 cents in gold values. Diamond drill holes No. 9 and No. 12 encountered this breccia zone which would have a north-northwest strike and may be associated with a bedding horizon or a yet to be proven high angle structure. If this breccia zone occurs as a bedding breccia it would occur above the black dolomite and would be encountered within the next few feet in the west drift. The face of the west drift had changed to a black sooty shale which contained anomalous values in copper.

The two north-northeast pebble dikes would cut this bedding breccia in the lower part of the Bluebell Formation. Further exploration from the 1280 level should emphasize this breccia zone.

Other breccias occur on the 1280 level in the tightly crumbled folds in the lighter gray dolomites. These areas also show sanding of the dolomites.

STRATIGRAPHY

The stratigraphy encountered on the 1280 level of the Roundy Shaft consists of the Bluebell Formation, the underlying Fish Haven dolomite, and the underlying Opohonga Formation.

BLUEBELL FORMATION

The entire 1280 level explores the lower portion of the Bluebell Formation. At the shaft station the Bluebell Formation is 27 feet above the Fish Haven. In the drill station 700 feet south of the shaft the base of the Bluebell is also found at this depth below the level. This would give an overall strike in a north-northeast direction with minor interrupting folds. The general dip would be 12° to 15° to the northwest.

Two sedimentary units have been determined on the 1280 level. A lower light and medium gray dolomite occurs at the base of the Bluebell and is 70 feet thick. Overlying this unit is the black dolomite with a few light gray beds which is 65 feet thick. The black dolomite has large scattered white dolomite eyes. Above the black dolomite occurs a dark shaly unit which is just being penetrated in the west drift. The Bluebell Formation on the Crown Point property will have a probable total thickness of 350 feet. The total district production from the Bluebell Formation is 110 million dollars.

FISH HAVEN FORMATION

The Fish Haven dolomite underlies the Bluebell Formation and occurs 27 feet beneath the 1280 level. It has been penetrated in six diamond drill holes and the top of the formation is taken as the first good pisolite bed. The pisolites beds are 70 feet thick and contain a distinct coral marker horizon at 50 feet below the top. The

pisolites appear to be minute sand grains. A massive white chert zone occurs about 100 feet below the top of the Fish Haven Formation. This formation accounted for 10 million dollars of production in this district.

OPOHONGA FORMATION

The Opohonga Formation underlies the Fish Haven Formation and has been penetrated in the south end of the south drift across the Sioux Ajax fault. Here it is shaly oxidized beds of light gray partially sanded dolomite. The Opohonga Formation is considered a poor ore host but has accounted for nine million dollars in production.

Roger C. Bangham

APPENDIX I

DIAMOND DRILL LOGS
DDH 1-14

MINE Crown Point Lease

LEVEL 1280 PLACE Round Shaft

DATE Feb. Mar 1971

BY RCB SCALE 40

DDH 1

Bearing Due West

Inclination +5°

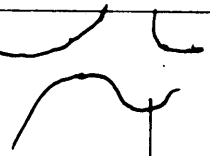
T.D. 410 ft.

Blue ball dolomite

(2)

MINE Crown Point Lease
LEVEL 1280 PLACE Roundy Shaft
DATE March 1971
BY R.C.B. SCALE 40

DDH 2
Bearing Due South
Vert. ∠ +5°
T.D. 386 ft
Blue ball dolomite



.06 Ag
.36 Pb
130 ppm Cu

py .05 Ag
.098 Pb
130 ppm Cu

130 PPM Cu

.21 Zn
250 ppm Cu
260 ppm Cu
260 ppm Cu

.14 Zn
80 ppm Cu
260 ppm Cu

280 ppm Cu

100 ppm Cu

hard dense dolo

sanded

170 ppm Cu

560 ppm Cu

MINE Crown Point Leas

LEVEL 1200 PLACE Randy Shaft

DATE March 1971

BY R.C.B. SCALE 40

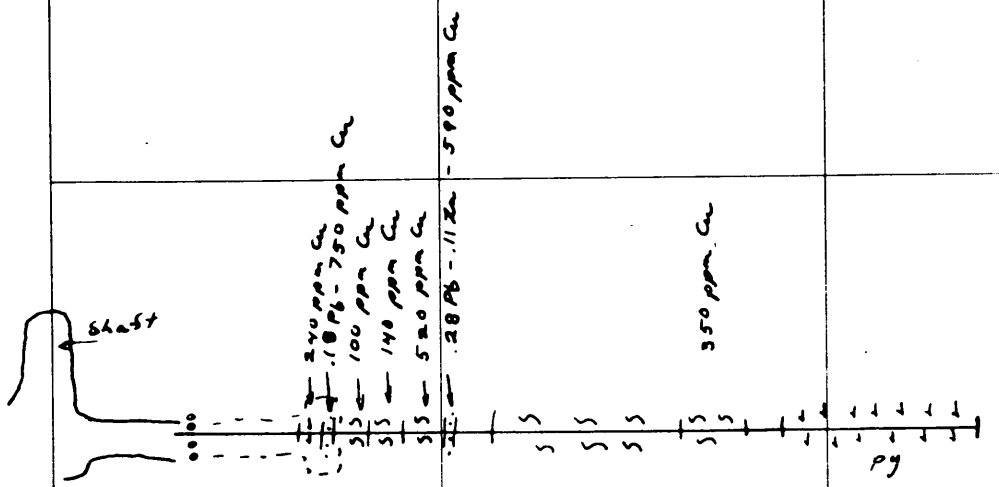
DDH 3

Bearing S 85° E

Inclination + 5°

T.D. 164 ft

Blue ball dolomite



MINE Crown Point Lead

LEVEL 1280 PLACE Round shaft

DATE March 1971

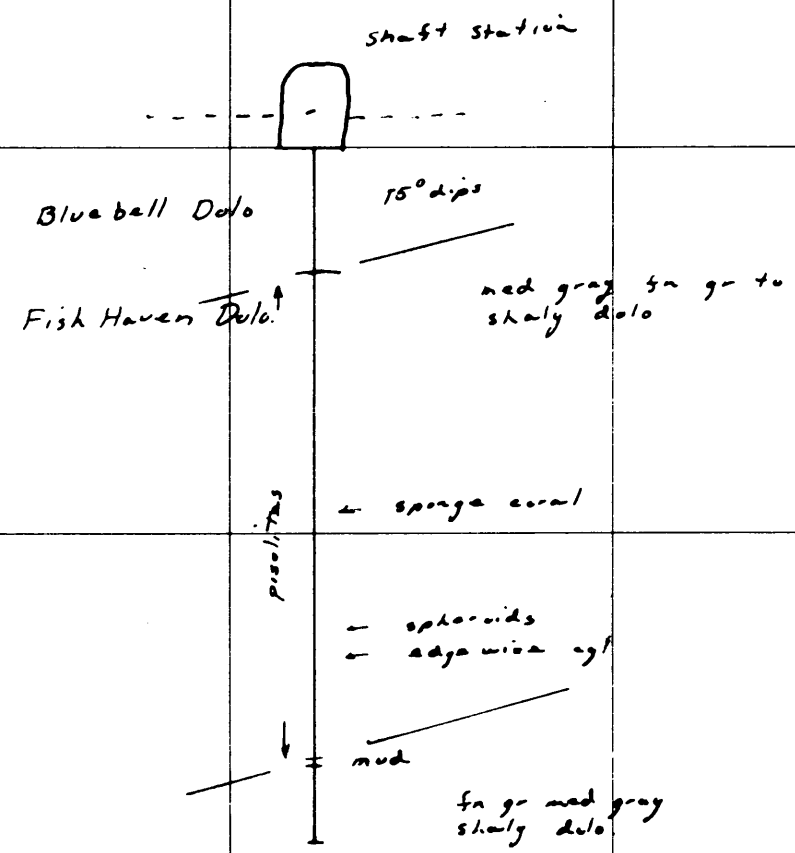
BY R.C.B SCALE 40

D.D.H. 4

Bearing - -90°

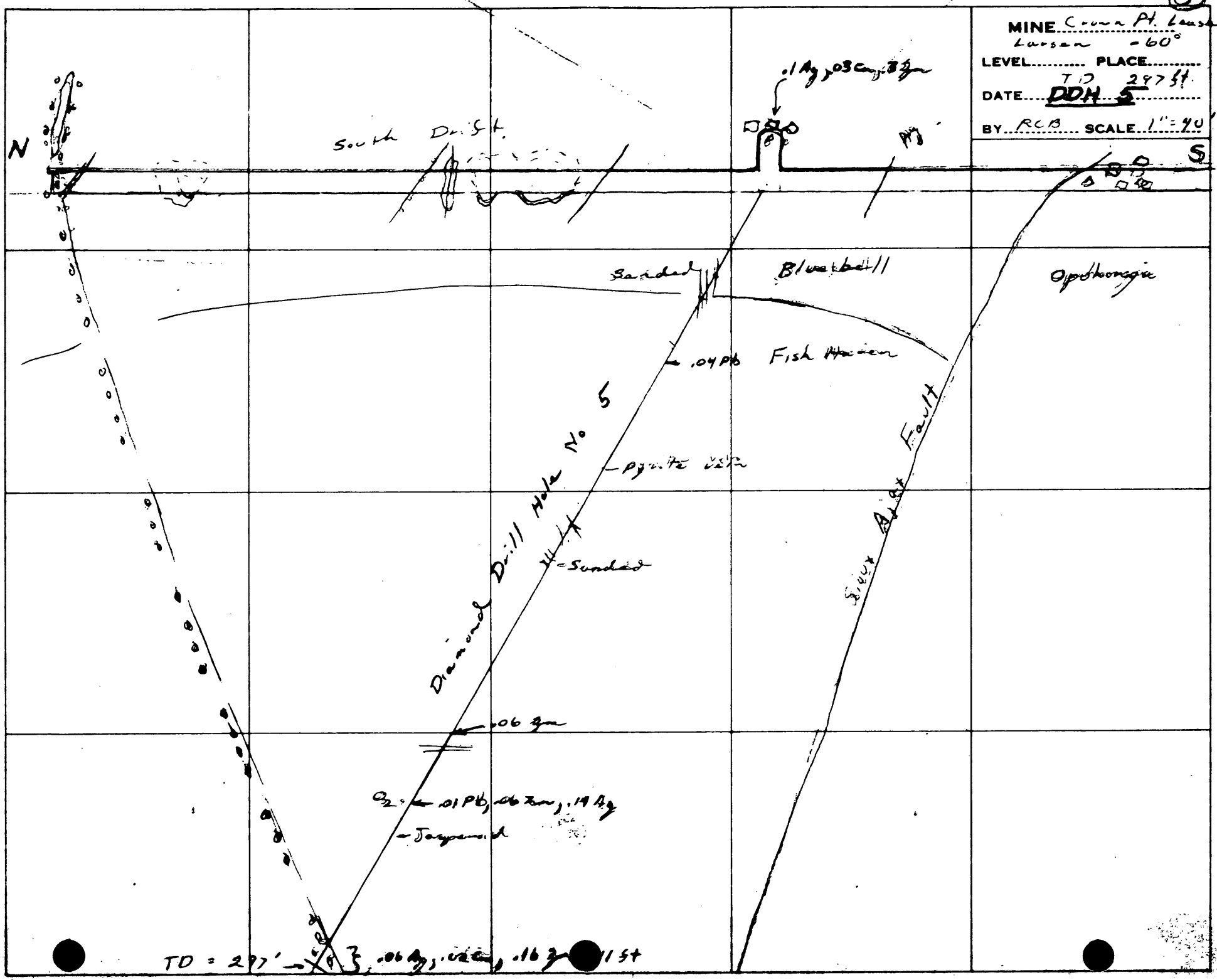
Inclination - -90°

T.D. 145 ft



(5)

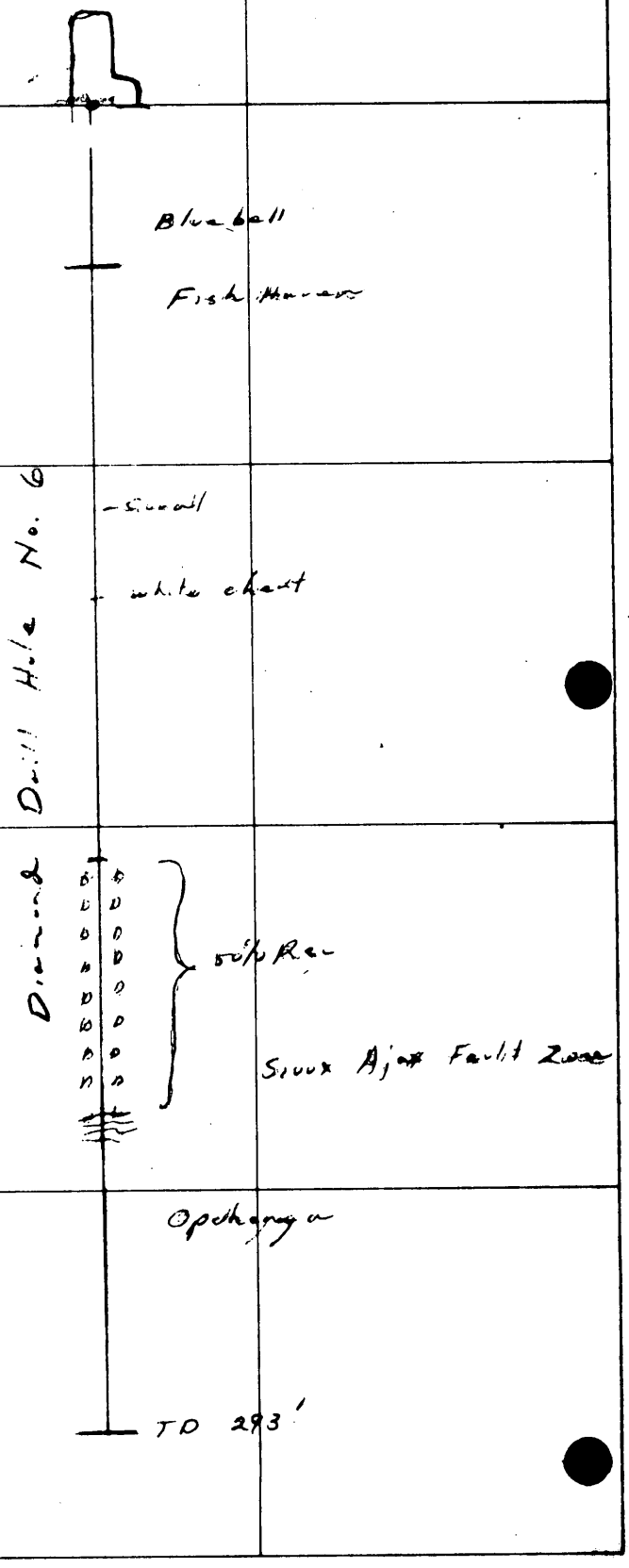
MINE Crown Pt. Lease
Larsen -60°
LEVEL..... PLACE.....
DATE T.D 297 ft. DDH 5
BY RCB SCALE 1" = 40'



6

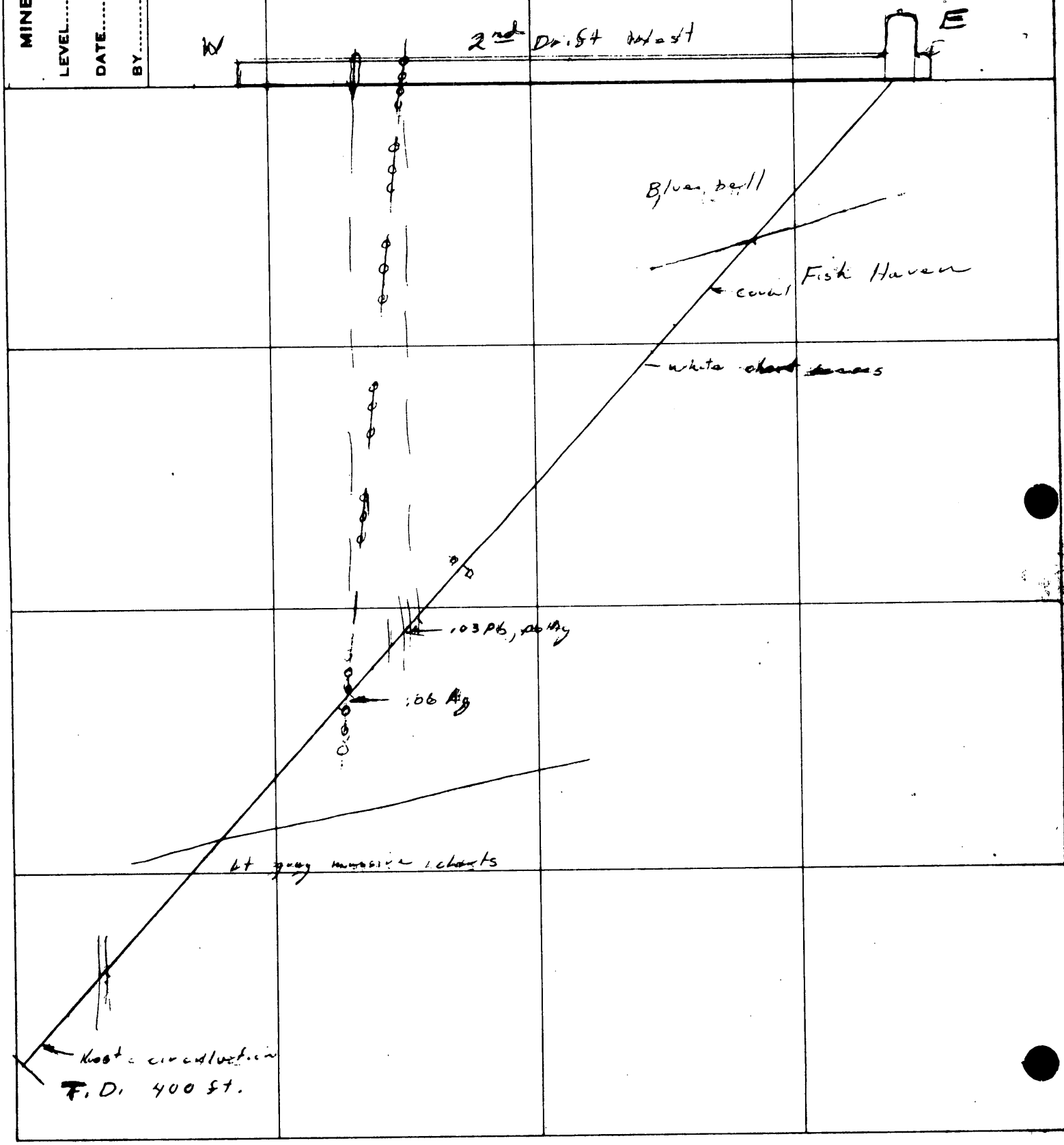
MINE.....
LEVEL..... PLACE.....
DATE.....
BY..... SCALE.....

Crown Pt. Lease
Larsen
1" = 40'
DDH 6 -90°
T.D. 293 feet



MINE.....
LEVEL..... PLACE.....
DATE.....
BY..... SCALE.....

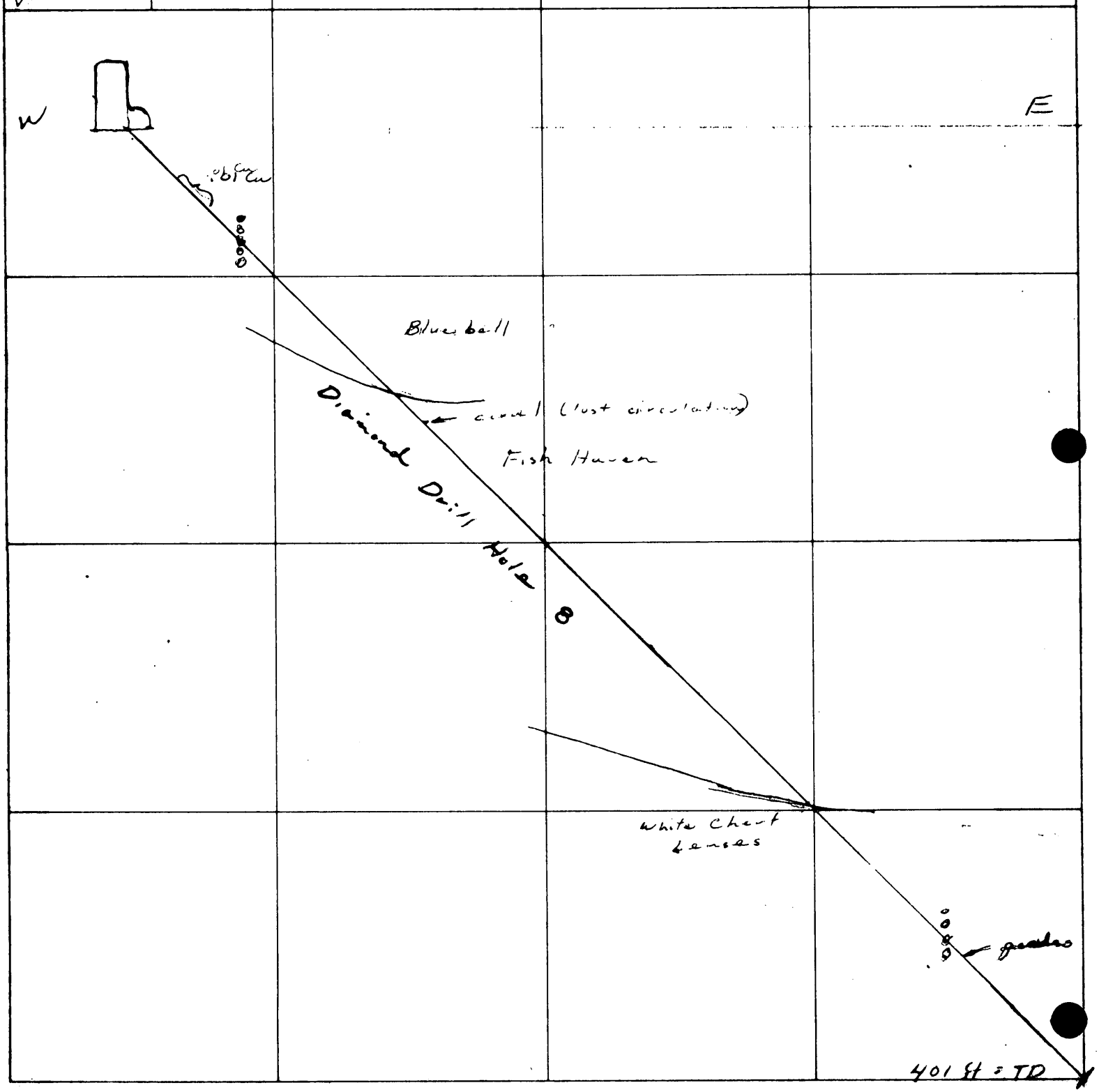
Crown Pt. Lease
Larsen
1" = 40'
DDH 7 - 48°
N 80 W Bearing
T.D. - 400 ft



8

MINE.....
LEVEL..... PLACE.....
DATE.....
BY..... SCALE.....

Crown Pt. Lense
Larsen
1" = 40'
DDH 8 -45°
S 85° E Bearing
T. D. 401 feet



(9)

MINE Crown Pt. Lease

LEVEL 1280 PLACE

DATE 1/12/72

BY RCB SCALE 40

DDH # 9
+30° N5°E
TD = 368'

Breccia Zone

Bluebell Dolomite

DDH 9

Jsp - vugs - clay

vuggy

Jsp

Fao

Drill Station

South Drift

Ag. Au Cu Pb Zn ppm

(10)

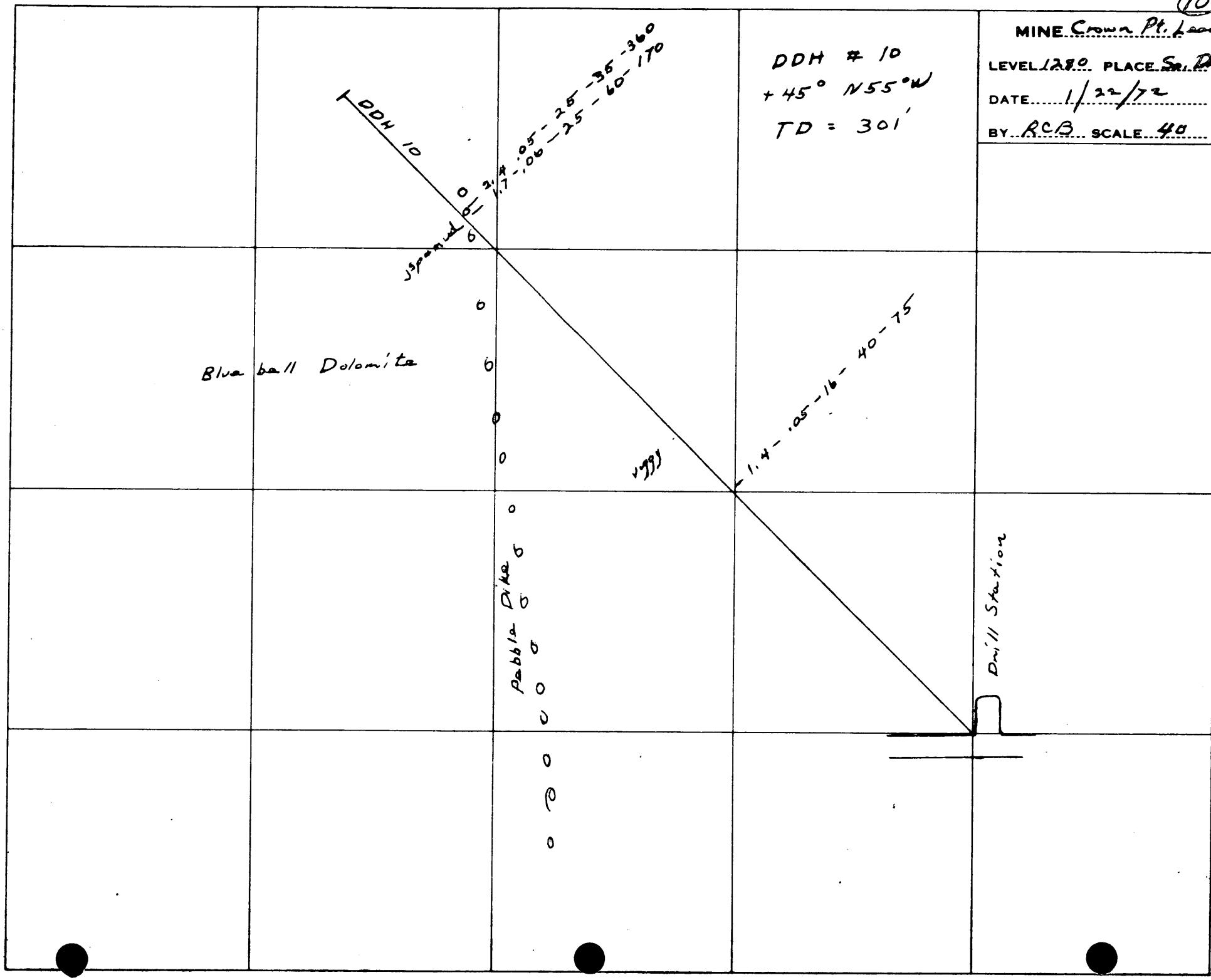
MINE Crown Pt. Lease

LEVEL 1280 PLACE Sec. Drift

DATE 1/22/72

BY RCB SCALE 40

DDH # 10
+45° N55°W
TD = 301'

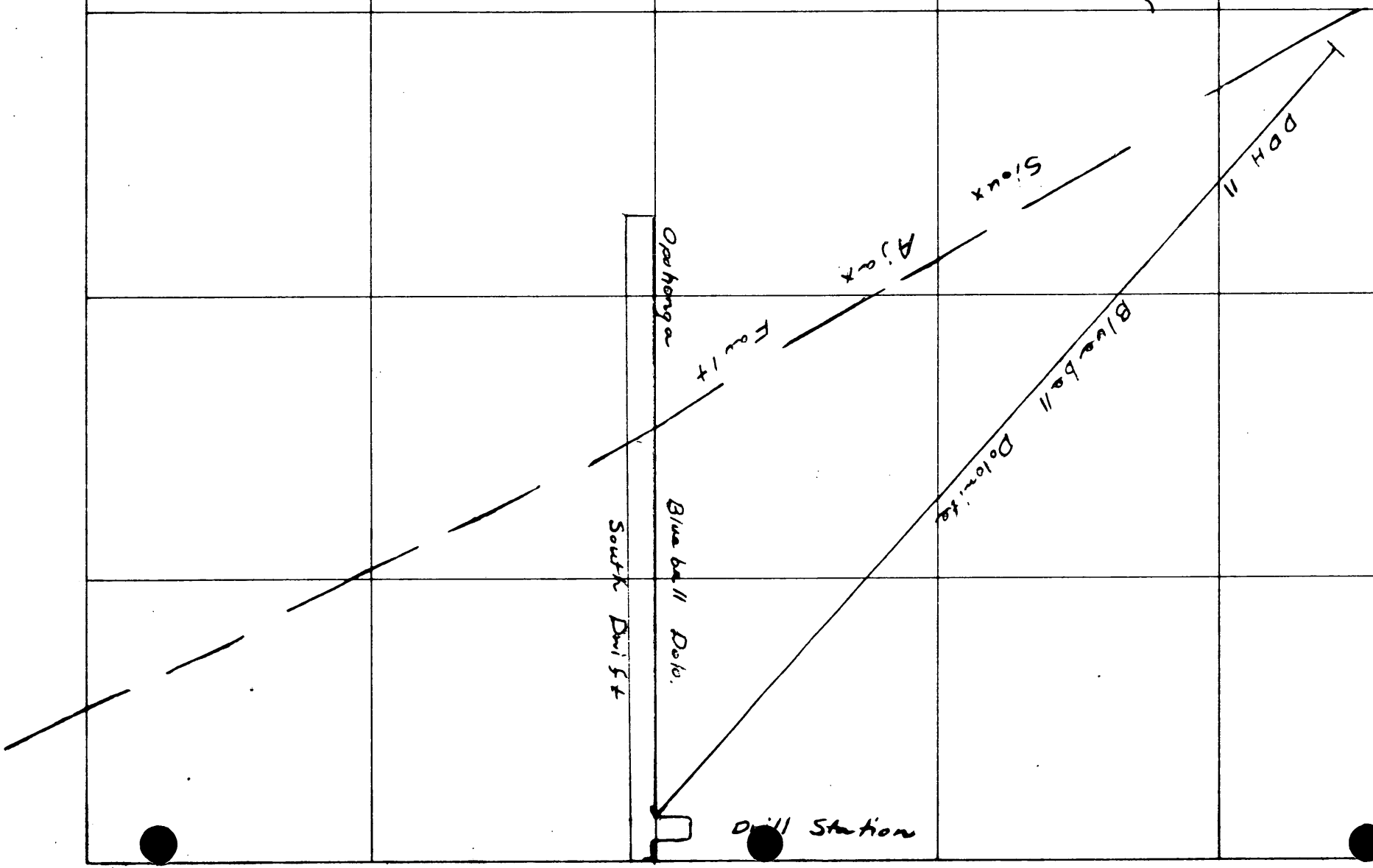


MINE Crown Pt. Lease

LEVEL 200 PLACE So. Drift

DATE 1/28/72

BY RCB SCALE 40



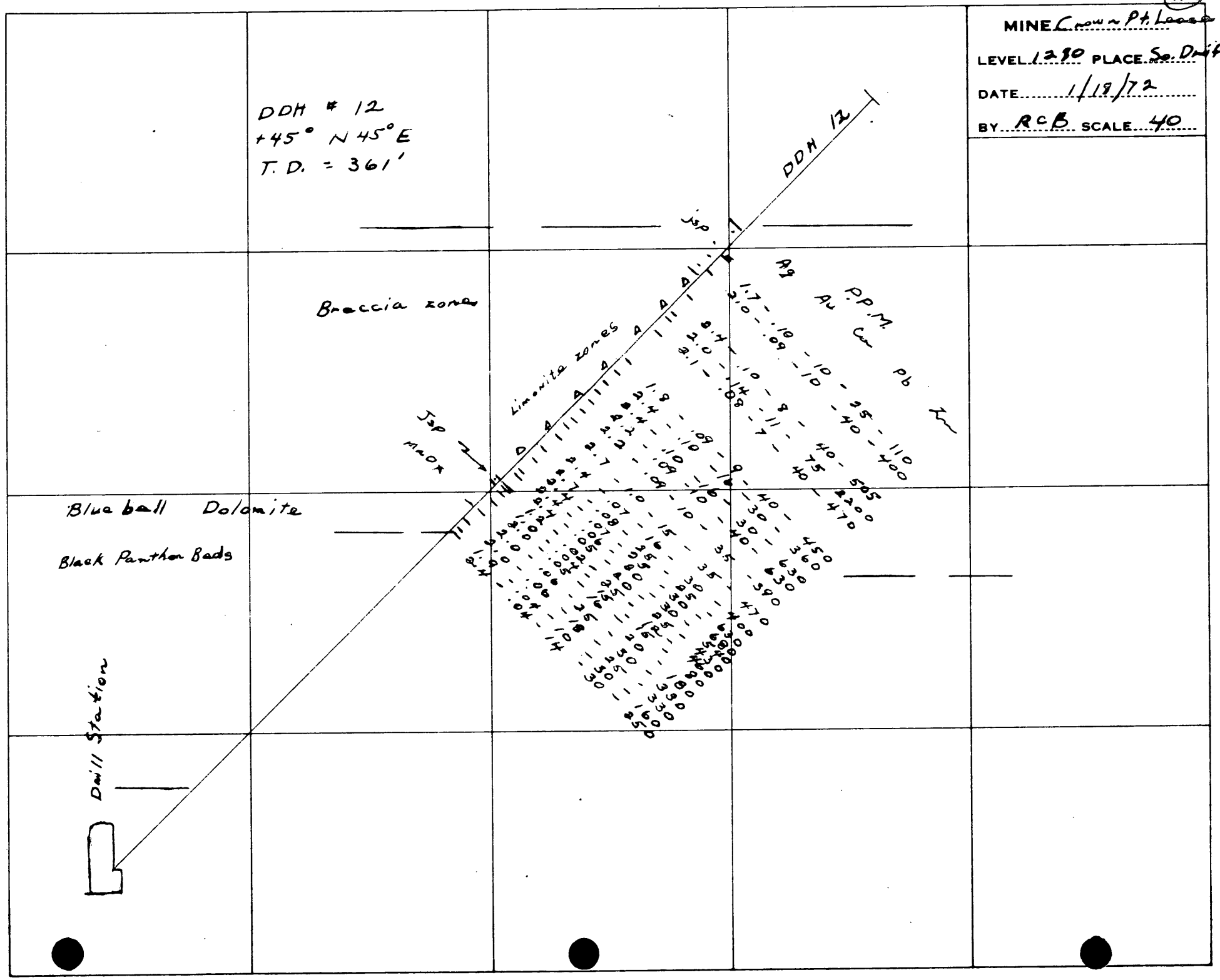
(12)

MINE Crown Pt. Lease

LEVEL 1290 PLACE So. Drift

DATE 1/18/72

BY RCB SCALE 40



MINE Crown Point

LEVEL 1280 PLACE Raven Shaft

DATE Dec 1971

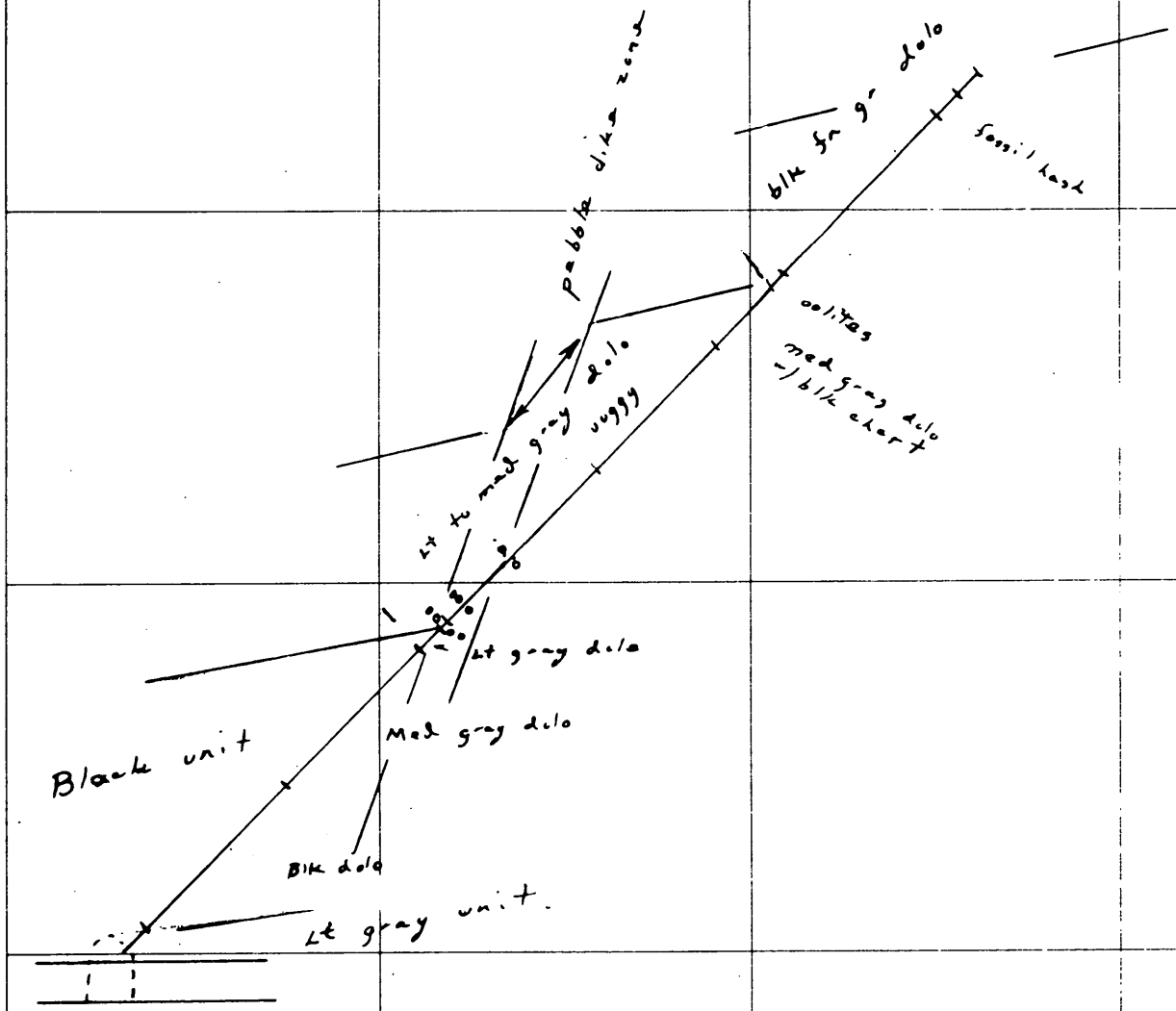
BY R.C.B SCALE 40

D.D.H. 13

Bearing N 20° E

Inclination + 45°

T. D. 265 ft



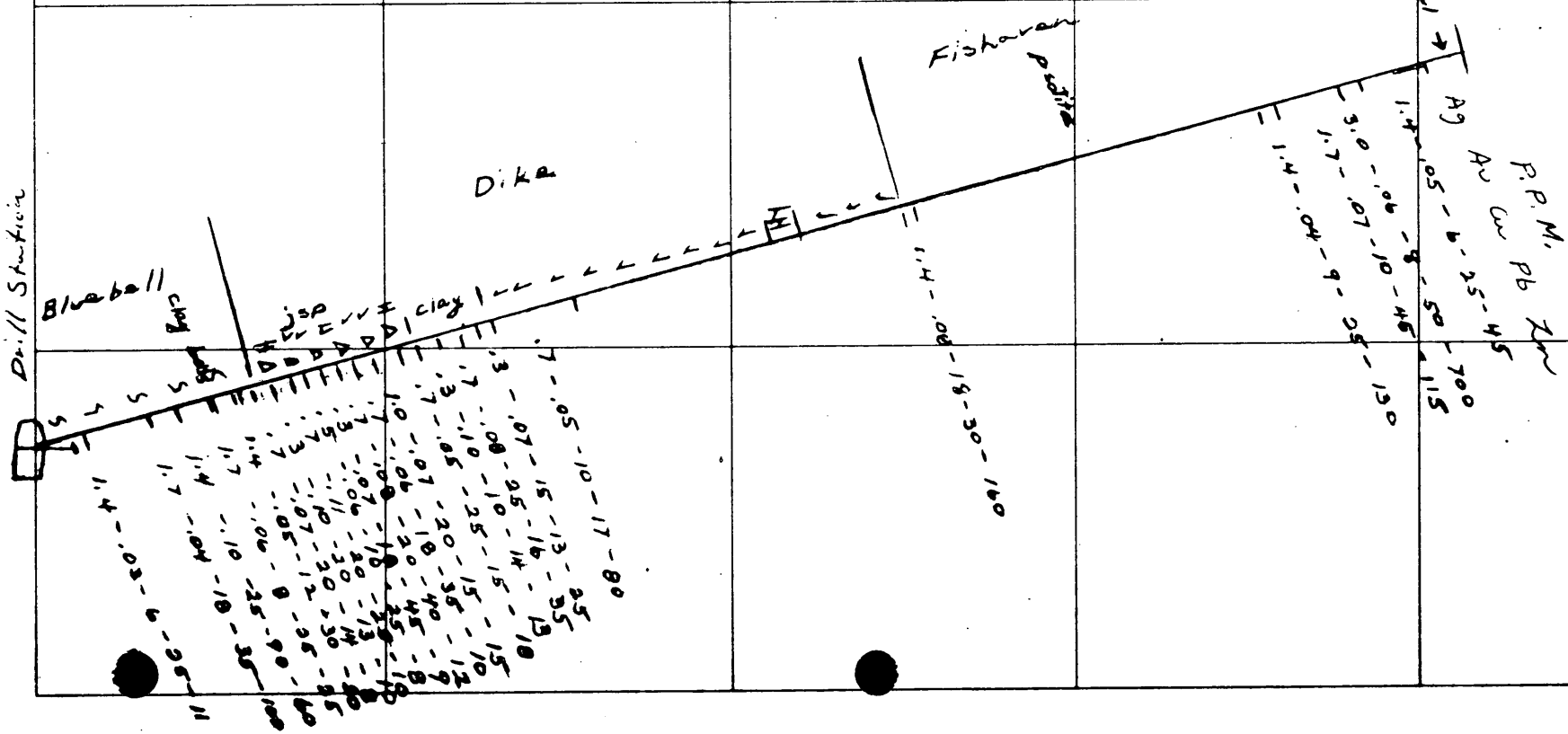
MINE Crown Pt (14)

LEVEL 1280 PLACE Station

DATE

BY RCB SCALE 40

DDH - 14
+15° 343'
N30°E



APPENDIX II

COMPLETE ASSAYS

ASSAY RESULTS

PHILLIPS PETROLEUM COMPANY

ELY, NEVADA

ASSAYED BY John Zuccosa

HOLE NUMBER RMEX DISTRICT DATE 2-9-71

	SAMPLE INTERVAL	ASSAYS						PRODUCTS				
		Au	Aq	Pb	Zn	Cu		Aq	Pb	Zn	Cu	
B	15688 DDH-1 220-240	TR	TR	TR	.11	.049						
B	15689 DDH-1W 274-296	TR	TR	TR	.13	.009						
B	15690 " 1W 296-297	TR	TR	TR	.10	.026						
B	15691 " 297-318	TR	TR	TR	TR	.013						
B	15692 " 368-375	TR	TR	TR	TR	.010						
B	15693 [illegible]	TR	TR	TR	TR	.013						
B	15694 DDH-1 203-213	TR	TR	TR	TR	.026						
B	15695 " 195-203	TR	TR	TR	.14	.008						
B	15696 " 174-177	TR	TR	TR	TR	.026						
B	15697 " 177-186	TR	TR	TR	TR	.026						
B	15698 " 155-160	TR	TR	TR	.21	.029						
B	15699 " 138-144	TR	TR	TR	TR	.013						
B	[illegible]700 " 79-91	TR	.05	.096	TR	.013						
B	15701 " 63-69	TR	.06	.36	TR	.013						

ASSAY RESULTS

PHILLIPS PETROLEUM COMPANY

ELY, NEVADA

ASSAYED BY John Zerunio

HOLE NUMBER BMEX DISTRICT DATE 3-3-71

SAMPLE INTERVAL	ASSAYS						PRODUCTS				
	Au	Aq	Pb	Zn	Cu		Aq	Pb	Zn	Cu	
B15523	TR	TR	TR	.41	.078						
B15524	TR	TR	TR	.30	.075						
B15525	TR	TR	TR	.37	.078						
B15526	TR	TR	TR	.32	.026						
B15527 DDH-1- 21.5(20)	TR	TR	TR	.24	.052						
B15528 DDH-1- 209-210	TR	TR	TR	.20	.052						

ASSAY RESULTS

PHILLIPS PETROLEUM COMPANY

ELY, NEVADA

ASSAYED BY John Zumwalt

HOLE NUMBER AMEX DISTRICT DATE 3-17-71

SAMPLE INTERVAL	ASSAYS						PRODUCTS				
	Au	Aq	Pb	Zn	Cu		Aq	Pb	Zn	Cu	
B15702 DDH-2-254-265.5	TR	TR	TR	TR	.028						
B15703 " 2 266-290	TR	TR	TR	TR	.010						
B15704 " 2 355-365	TR	TR	TR	TR	.017						
B15705 " 2 365-386	TR	TR	TR	TR	.056						
B15706 " 3 18-24	TR	TR	.18	TR	.075						
B15707 " 3 24-30	TR	TR	TR	TR	.010						
B15708 " 3 11-18	TR	TR	TR	TR	.024						
B15709 " 3 40-47	TR	TR	TR	TR	.014						
B15710 " 3 47-55	TR	TR	TR	TR	.052						
B15711 " 3 55-55.5	TR	TR	.28	.11	.059						
B15712 " 3 56-63	TR	TR	TR	TR	.007						
B15713 " 3 108-117	TR	TR	TR	TR	.035						
B15714 " 3 124-142	TR	TR	TR	TR	.024						

Lawson 4

ASSAY RESULTS

PHILLIPS PETROLEUM COMPANY

ELY, NEVADA

ASSAYED BY John Zunino

HOLE NUMBER AMEX DISTRICT DATE 3-23-71

SAMPLE INTERVAL	ASSAYS						PRODUCTS				
	Au	Aq	Pb	Zn	Cu		Aq	Pb	Zn	Cu	
B15719	TR	.05	TR	TR	.009		Blk jsp w/yellow staining				
B15720	TR	1.22	4.11	.45	.72		Blk jsp w/yellow orange staining				
B15721	TR	4.82	TR	TR	.008		Purple drusy qtz w/few blk specs				
B15722	.011	26.98	TR	TR	.10		Blue stained qtz				
B15723	TR	.06	TR	TR	.009		Vuggy qtz w/limonite				
B15724	TR	TR	TR	TR	.026		Qtz-sooty blk w/green				
B15725	TR	TR	TR	TR	.013		Mylonite Pit - Vuggy qtz-no colors				
B15762	TR	TR	TR	TR	.026		Large qtz w/minute blk stringers				
B17715	TR	TR	.79	TR	.009		2' Hole Face Dike - east side pit				
B17716	TR	TR	.36	TR	.026		1' Jsp w/limy - South - east side pit				
B17717	TR	.03	.21	TR	.007		2' Jsp left wall east side pit				
B17718	TR	.21	TR	TR	.005		6" pebble dike 1st west side pit				
				Dist w/limy			DDH-3 East Hole				

ASSAY RESULTS
PHILLIPS PETROLEUM COMPANY
ELY, NEVADA

ASSAYED BY John Zumino

HOLE NUMBER AME-X DISTRICT Larsen DATE 4/27/71

SAMPLE INTERVAL		ASSAYS						PRODUCTS				
		Au	Aq	Pb	Zn	Cu		Aq	Pb	Zn	Cu	
B15727	1	TR	.011	TR	TR	TR						
B15728	2	TR	.015	TR	TR	TR						
B15729	3	TR	.012	TR	TR	TR						
B15730	4	TR	.011	TR	TR	.003						
B15731	5	TR	TR	TR	TR	TR						
		5	5	5	5	5	Sampled					

Taken April 27, 1971
in SW drift along pebble dike
Roundy Shaft
Larsen Lease

0.0.0.0.0.0
1,000,000

6

ASSAY RESULTS
PHILLIPS PETROLEUM COMPANY
ELY, NEVADA

ASSAYED BY John Zimmer

HOLE NUMBER AMEX DISTRICT DATE 5-25-71

SAMPLE INTERVAL	ASSAYS						PRODUCTS				
	Au	Aq	Pb	Zn	Cu		Aq	Pb	Zn	Cu	
B 15741	TR	.11	TR	TR	TR		Mn Cu - vuggy				- 80'
B 15742	TR	TR	TR	TR	TR		gouge over lk dolo				- 100
B 15743	TR	.07	TR	TR	.003		1½ vert fissure - north wall				- 120'
B 15744	TR	.12	TR	TR	.004		Reddish-brown - thick O_2 -				160'
B 15745	TR	.14	TR	TR	TR		Mn & sand in fissure - back -				170'
B 15746	TR	TR	TR	TR	.009		Red Oxidation around breccia -				180'
B 15747	TR	.06	TR	TR	.003		Pebble Dike - both walls -				220'
B 15748	TR	.38	TR	TR	TR		Pebble Dike - face				238'
	Glen Larsen										
	Roundy Shaft - Tintic District										
	underground May 24, 1971										
	West drift										

Larsen

7

ASSAY RESULTS

PHILLIPS PETROLEUM COMPANY

ELY, NEVADA

ASSAYED BY John Zimmer
West Drift

HOLE NUMBER AMEX DISTRICT DATE 6-14-71

SAMPLE INTERVAL	ASSAYS						PRODUCTS				
	Au	Aq	Pb	Zn	Cu		Aq	Pb	Zn	Cu	
B15749	TR	TR	TR	TR	.043	430 ppm		Face @		384'	
B15750	TR	TR	TR	TR	.069	690 ppm		Lt wall @		382'	
B15751	TR	TR	TR	TR	.064	640 ppm		Rt wall @		382'	
B15752	TR	TR	TR	TR	.051	510 ppm		Flat gouge @ Lt wall		232'	
			West Drift								

ASSAY RESULTS

PHILLIPS PETROLEUM COMPANY

ELY, NEVADA

ASSAYED BY John Jurasso

HOLE NUMBER AMFX DISTRICT DATE 6-23-'11

SAMPLE INTERVAL	ASSAYS						PRODUCTS				
	Au	Aq	Pb	Zn	Cu		Aq	Pb	Zn	Cu	
B15753	TR	TR	TR	TR	TR		470				
B15754	TR	TR	TR	TR	TR		458-470				
B15755	TR	TR	TR	TR	TR		455-460				
B15756	TR	TR	TR	TR	TR		425				
B15757	TR	TR	TR	TR	TR		425				
B15758	TR	TR	TR	TR	.017		415				
B15759	TR	TR	TR	TR	TR		450				
B15760	TR	.03	TR	TR	TR		460				
			West Dist								

801 - 323 - 2348
9

ASSAY RESULTS
PHILLIPS PETROLEUM COMPANY
ELY, NEVADA

East Dr

ASSAYED BY John Zumino

HOLE NUMBER BMEX DISTRICT DATE 6-28-71

SAMPLE INTERVAL	ASSAYS						PRODUCTS				
	Au	Aq	Pb	Zn	Cu		Aq	Pb	Zn	Cu	
B-15761	TR	TR	TR	TR	TR		pebble dike in South				
B15762	TR	.025	TR	TR	.076		Face at 506 St				

ASSAY RESULTS

PHILLIPS PETROLEUM COMPANY

ELY, NEVADA

ASSAYED BY John Zunino

HOLE NUMBER AMEX DISTRICT DATE 7-23-71

SAMPLE INTERVAL		ASSAYS						PRODUCTS				
		Au	Aq	Pb	Zn	Cu		Aq	Pb	Zn	Cu	
B 8801	2	TR	TR	TR	TR	.041	410 PPM		Glen Larson			
B 8802	1	TR	.11	TR	TR	.008	80 PPM					
B 8803	3	TR	.08	TR	TR	.005	50 PPM					
B 8804	4	TR	TR	TR	TR	.005	50 PPM					
B 8805	5	TR	.09	TR	TR	.005	50 PPM					
B 8806		TR	.07	TR	TR	.008		Lumi - Luminite Claimant				
B 8807		.71						Lumi - Gulana Au-Ag Fe vein				
B 8808		.021	2.29	TR				Jerry				
B 8809			.56	TR				Jerry				
		9	8	8	6	6						

ASSAY RESULTS
PHILLIPS PETROLEUM COMPANY
ELY, NEVADA

So Dc

ASSAYED BY John Zunino

HOLE NUMBER Pezoz DISTRICT Larson DATE aug 8/71

SAMPLE INTERVAL		ASSAYS						PRODUCTS				
		Au	Aq	Pb	Zn	Cu		Aq	Pb	Zn	Cu	
B 8812	1	TR	TR	TR	TR	.024		535'	2' Hor + Vert			
B 8813	2	TR	TR	TR	TR	.005		530-535	lst wall			
B 8814	3	TR	.08	TR	TR	.004		528	jsp	rt bottom		
B 8815	4	TR	TR	.23	TR	.024		527-535	rt wall			
B 8816	5	TR	TR	.18	TR	.048		525-530	rt wall			
B 8817	6	TR	TR	.25	TR	.24		508-513	rt wall	slt mod slip mud		
B 8818	7	TR	TR	TR	TR	TR		490-495	rt wall	breccia		
B 8819	8	TR	TR	TR	TR	TR		483-485	rt wall	mod jsp		
B 8820	9	TR	.09	.59	TR	.007		478-480	MnOx + FeO	massive		
B 8821	10	TR	TR	.30	TR	.21		471-472	lst wall	vug	kole	*
B 8822	11	TR	TR	TR	TR	TR		466-	lst wall	slp w/ MnOx		
B 8823	12	TR	.03	.15	TR	TR		457-459	rt wall	red + blk	vug	
B 8824	13	TR	TR	TR	TR	.010		350	gray	slaty w/ py		
B 8825	14	TR	TR	.10	.12	TR		355	rt wall	vug w/ jsp, mass Fe		
B 8826	15	TR	TR	TR	TR	TR		335	corner	jsp in fissure		
B 8827	16	TR	TR	TR	TR	TR		305	rt wall	pebble	d.fe	
B 8828	17	TR	TR	TR	TR	TR		290	vuggy	jsp	cavern up 40'	

ASSAY RESULTS

PHILLIPS PETROLEUM COMPANY

ELY, NEVADA

ASSAYED BY John Zunino

HOLE NUMBER HMEX DISTRICT Larson DATE Sept 13 - 1971

SAMPLE INTERVAL	ASSAYS						PRODUCTS				
	Au	Aq	Pb	Zn	Cu		Aq	Pb	Zn	Cu	
B 15779	TR	TR	TR	.30	.012	SA	0-6 Rt wall, bottom sand dolo.				
B 15780	TR	TR	TR	TR	.037	SA	19-26 - Lt wall - high - sanded dolo				
B 15781	TR	TR	TR	TR	TR	SA	38-40 Lt wall bottom jsp				
B 15782	TR	TR	TR	TR	TR	SA	36-38 rt wall bottom jsp				
B 15783	TR	TR	TR	TR	TR	SA	34-36 - rt wall - high jsp - gouge				
B 15784	TR	TR	TR	TR	.050	SA	32-34 - West rt wall S.A. Slt porphyry				
B 15785	TR	.015	.159	TR	.037		Fissure 2nd Round - @ 6000'				
B 15786	TR	TR	.161	TR	.037		MnOx - only brown w/ jsp. - Report				
B 15787	TR	TR	TR	.20	.050		MnOx + FeO alony id R grade at sanded stope				
	sampled twice before - only brown this time										

Mail Copy to Glen in Provo.

13

ASSAY RESULTS
PHILLIPS PETROLEUM COMPANY
ELY, NEVADA

ASSAYED BY John Zuzuno

HOLE NUMBER AMEX DISTRICT Larsen DATE Sept. 20-1971

SAMPLE INTERVAL	ASSAYS Au	Aq	Pb	Zn	Cu		PRODUCTS Aq	Pb	Zn	Cu	
B8829 1st Hole West	TR	TR	.25	TR	.062		9'-10' rt wall				
B8830 1st Hole West	TR	TR	TR	TR	.075		11'-12' cave-in to north				
B8831 2nd Hole West	TR	TR	TR	TR	.062		Lt wall high 14-17'				
B8832 2nd Hole West	TR	TR	TR	TR	.050		face 2'→4' left of center				
B8833 2nd Hole West	TR	TR	TR	TR	.075		vug hole center of face				
B8834 2nd Hole West	TR	TR	TR	TR	.11		2'→4' rt of ℄ of face				
B8835 2nd Hole West	TR	TR	.31	TR	.16		rt wall 16'→17' high				
B8836 2nd Hole West	TR	TR	TR	TR	.075		rt wall @ 16' mud				
B8837 2nd Hole West	TR	TR	TR	TR	.062		vug in back - by Glen				
B8838 1st Hole East	TR	TR	.38	TR	.10		north of drag hole - bottom				
B8839 West Drift	TR	TR	TR	TR	.062		jap + mud				
B8840 fissure @ 600'	TR	TR	TR	TR	.10		fissure near face south drift				

Better Pb + Ag is below us

Copies Glen to Jack Lawson

CMSL

CHEMICAL & MINERALOGICAL SERVICES 3435 SOUTH STATE STREET, SALT LAKE CITY, UTAH 84115 (801) 266-8228

ANALYTICAL REPORT FOR:

American Exploration & Mining Company	OUR NUMBER 2295
One California Bldg. Room 2500	DATE Oct 8th, 1971
San Francisco, California 94111	CUSTOMER'S ORDER NO. Series B 876-Iarron

Sample #	As PPM	Au PPM	Cu PPM	Pb PPM	Zn PPM
15788	3.0	.05	50	45	80
15789	2.0	.08	180	65	50
15790	3.7	.05	25	35	60
15791	2.7	.05	30	35	60
15792	3.0	.05	12	35	55

Ray Bradhead

CMSL

CHEMICAL & MINERALOGICAL SERVICES 3~~485 SOUTH STATE STREET~~ 395 West 2700 South, SALT LAKE CITY, UTAH 84115, (801) ~~260-6226~~ 485-0711

ANALYTICAL REPORT FOR:

American Exploration & Mining Company	OUR NUMBER 2292
P. O. Box 769	DATE Nov 14, 1971
Ely, Nevada 89301	CUSTOMER'S ORDER NO.

Larsen Lease

DDH 5 -60° N

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
B-16607	2.0	.03	5	25	85	0 - 6
608	1.7	<.01	6	30	65	11 - 16
609	2.4	.01	6	30	160	16 - 19
610	2.0	<.01	6	30	65	21 - 26
611	2.4	.01	9	30	160	30 - 36
612	2.4	.02	8	25	140	38 - 41
613	2.4	<.01	35	40	210	48 - 49
614	2.4	.01	5	25	65	49 - 52
615	2.4	.02	5	30	30	78 - 80
616	2.0	<.01	7	25	35	123 - 134
617	1.7	<.01	10	25	55	119 - 120
618	2.0	.01	13	75	85	198 - 199
619	2.0	.01	8	35	40	181 - 191
620	2.0	.01	6	35	45	170 - 178
621	2.0	<.01	6	30	40	136 - 149
	15					

Ray Broadhead

CMSI

CHEMICAL & MINERALOGICAL SERVICES 3435 SOUTH STATE STREET, SALT LAKE CITY, UTAH 84115 (801) 266-8228

ANALYTICAL REPORT FOR:

American Exploration & Mining Company	OUR NUMBER 2309
P. O. Box 769	DATE Nov 27, 1971
Ely, Nevada 89301	CUSTOMER'S ORDER NO.

Larsen Lease

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	DDH 5 (-60°N)
B-16622	3.0 .09	.06	35	350	65	211' 6" Bx
23	2.0 .06	.04	30	95	550	212-214
24	4.4 .14	.06	50	110	560	234 (6")
25	no sample					244-247 Blk jsp
26	2.7 / 4	.06	17	40	60	250-251

Ray Broadhead

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CHEMICAL & MINERALOGICAL SERVICES 395 WEST 2700 SOUTH [redacted], SALT LAKE CITY, UTAH 84115 (801) [redacted]485-0711

ANALYTICAL REPORT FOR:

American Exploration & Mining Company	OUR NUMBER 2318
P. O. Box 769	DATE Dec 2, 1971
Ely, Nevada 89301	CUSTOMER'S ORDER NO.

Larsen Lease

DDH 7 -48° West

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
16627	2.0	.03	13	70	80	149'
628	2.4	.05	15	45	40	173-176
629	2.0	.03	6	25	30	178
630	2.0	.05	5	30	25	194
631	2.4	.05	20	45	85	207-208
632	2.4	.03	7	35	35	199-201
633	2.4	.04	7	300	17	225-226
634	2.7	.04	5	60	17	224
635	2.0	.01	8	35	25	212
636	2.0	.03	9	45	10	232-233
637	2.0	.05	6	30	12	244
638	2.4	.04	7	45	17	250-251
639	1.7	.05	7	45	10	252-253
640	1.8	.04	75	40	15	275-277
641	1.4	.05	8	25	16	361-363
642	1.7	.03	8	20	20	365-371
643	1.7	.03	10	25	11	371-374
644	2.0	.04	4	25	13	383-397 End
						DDH 8 -45° East
645	2.0	.03	7	30	70	9-21'
646	2.4	.05	120	40	70	21-34
647	2.0	.04	15	30	75	46-47 Pebble Dike
	21					

CMSI

Larsen Lease

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	DDH 8
16648	1.7	.02	10	30	95	93-94
649	2.0	.04	16	25	45	95-96
650	2.0	.06	9	25	16	154-161
						DDH 6 -90°
651	1.4	.03	20	45	50	230'
652	2.0	.04	7	30	12	153
653	2.0	.02	5	25	20	163'-167'
654	2.4	.06	115	65	1300	Back
655	2.5	.06	280	60	3350	of
656	3.4	.12	45	105	250	Drill
657	2.0	.04	100	75	1290	Station
658	2.7	.04	11	30	85	2nd Drift West
659	2.7	.02	15	30	125	
						DDH 5 -60° North
15793	1.7	.05	12	25	220	281-282
794	2.7	.03	14	130	60	265-266
795	2.4	.06	220	70	1630	289-300 - End Pebble Dike
796	2.4	.02	25	35	90	DDH 7, -47° West 5'-8'
797	2.0	.03	14	40	50	43'
798	2.0	.03	30	45	50	108'
799	2.0	.03	30	60	70	110-111
15800	2.0	.04	10	35	17	133'
	20					

Ray Broadhead

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CHEMICAL & MINERALOGICAL SERVICES 3435 SOUTH STATE STREET, SALT LAKE CITY, UTAH 84115 (801) 266-8228

ANALYTICAL REPORT FOR:

American Exploration & Mining Company	OUR NUMBER 2330
P. O. Box 769	DATE Dec 20, 1971
Ely, Nevada 89301 Rec. 12/22/71 Lasse	CUSTOMER'S ORDER NO.

DDH 8 -45° East

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	DDH # 8
16660	1.4	.04	30	30	80	164 - 5
661	1.6	.03	20	30	55	230
662	1.0	.04	19	40	80	260 - 1
663	1.0	.04	30	30	75	249 - 50
664	1.7	.03	115	60	40	343 - 4 pebble D.k
665	2.0	.04	18	20	30	350 - 8
666	1.0	.02	13	35	40	392 - 3
			DDH 9	+ 30° North		
667	1.7	.02	20	15	180	319 - 327
668	1.7	.02	20	50	275	317 - 319
669	.7	.03	20	30	295	312 - 316
670	1.0	.05	25	45	320	308 - 310
671	.7	.04	20	40	185	304 - 307
672	<.3	.04	25	30	120	301 - 304
673	.3	.03	20	40	160	296 - 301
674	1.0	.02	25	35	240	290 - 296
675	1.0	.02	45	30	240	281 - 282
676	1.7	.03	40	25	250	273 - 278
677	1.0	.03	20	20	130	268 - 273
678	1.0	.02	25	20	150	261 - 268
679	1.7	.02	120 .012%	30	1200 .12%	257 - 261
680	2.0	.03	25	25	205	252 - 257
	21					

Pebble Dike and Breccia Zone

CMS

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
16681	2.7	.04	25	25	255	144 - 152
682	1.4	.03	10	35	90	228 - 238
683	1.7	.02	17	25	55	206 - 214
684	2.4	.03	25	25	165	176 - 185
685	2.4	.02	30	40	190	173 - 178
686	2.0	.03	20	45	220	142 - 143
687	2.4	.02	45	35	255	135 - 137
688	1.4	.04	60	55	310	125 - 129
689	2.0	.02	90	60	1125 .11%	120 - 120.5
690	1.4	.03	40	45	310	111 - 113
691	1.7	.02	25	40	175	54 - 55
692	1.7	.04	17	40	40	65 - 67
693	1.4	.02	25	70	100	37 - 37.5
694	1.7	.03	20	35	75	15 - 20
695	2.0	.02	30	35	255	9 - 9.5
	15					

Usually with strong oxidation

Ray Broadhead

CMS
CHEMICAL & MINERALOGICAL SERVICES 395 WEST 2700 SOUTH [redacted] STATE STREET, SALT LAKE CITY, UTAH 84115 (801) [redacted] 485-0711

ANALYTICAL REPORT FOR:

American Exploration & Mining Company	OUR NUMBER 2351
P. O. Box 769	DATE Jan 15, 1972
Ely, Nevada	CUSTOMER'S ORDER NO. Larson

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
DDH 10		+45°	N 45° W	So. Drill Sta.		
16274	1.7	.06	25	60	170	240½ - 241
275	2.4	.05	25	35	360	125 - 127
276	1.4	.05	16	40	75	114 - 114.5
DDH #9		+30° N		So. Drill Sta.		
16696	1.4	.04	10	25	320	327 - 332
697	1.0	.04	30	60	75	348 - 349
698	1.0	.05	15	40	65	358 - 361
699	1.2	.05	10	35	70	361 - 363
700	1.0	.03	17	40	80	364 - 368
DDH #12		+45°	N15°E	So. Drill Station		
8841	1.2	.02	25	12	460	182 - 3
8842	1.0	.04	15	15	80	186 - 2
8843	2.0	.05	16	20	180	177 - 180
8844	2.0	.06	25	30	330	171 - 174
8845	2.0	.06	18	25	330	166 - 171
8846	1.9	.04	10	30	160	162 - 166
8847	2.4	.04	14	30	250	160 - 161
8848	2.4	.05	20	25	430	184 - 188
8849	2.4	.06	20	30	540	188 - 190
8850	2.4	.07	25	30	680	191 - 196
8851	2.7	.08	25	25	630	196 - 200
	19					

CMS

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
8852	2.4	.07	16	30	400	201 - 206
8853	2.7	.10	15	35	470	211 - 214
8854	2.2	.09	10	35	390	218 - 222
8855	2.2	.09	10	40	630	224 - 231
9956	2.4	.10	16	30	360	231 - 235
8857	1.8	.09	9	40	450	236 - 240
8858	2.1	.08	7	40	470	255 - 261
8859	2.0	~~XXX~~ .14	11	75	2200	263 - 263½
8860	2.4	.10	8	40	505	264 - 271
8861	1.7	.10	10	25	110	289 - 290
8862	2.0	.09	10	40	400	253 - 290
8863	1.9	.09	25	45	110	288
	12					

Gold

Anomalous

Ray Broadhead

CMS
CHEMICAL & MINERALOGICAL SERVICES 395 WEST 2700 SOUTH [redacted]T, SALT LAKE CITY, UTAH 84115 (801) 485-0711 [redacted]

ANALYTICAL REPORT FOR:

American Exploration Company	OUR NUMBER 2370
P. O. Box 769	DATE Jan 29, 1972
Ely, Nevada Larsen	CUSTOMER'S ORDER NO.

DDH # 14 +15° N30°E From East End of Shaft Station

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
8864	.7	.05	25	15	18	86-90
8865	1.0	.07	20	15	15	80-86
8866	.7	.06	18	35	10	76-80
8867	.7	.08	20	40	12	72-76
8868	.3	.07	18	45	9	68-72
8869	.5	.06	10	25	8	65-68
8870	.7	.11	20	25	10	61-65
8871	.3	.10	20	13	10	57-61
8872	1.7	.06	8	25	25	41-43
8873	1.4	.05	12	30	20	47-48
8874	.7	.07	20	14	8	53-57
8875	1.7	.04	18	35	100	28-29
8876	1.4	.10	25	90	60	33-33½
8877	1.4	.03	6	25	11	8-11
8878	.3	.10	10	14	13	92-95
8879	.7	.08	25	16	35	95-100
8880	1.4	.08	18	30	160	20[illegible]-20[illegible]
8881	.3	.07	15	13	25	104-108
8882	.7	.05	10	17	80	108-128

Sample #	Ag ppm	Au ppm	Cu ppm	Pb ppm	Zn ppm	
8883	1.4	.04	9	25	130	293 - 297
8884	1.4	.05	6	25	45	316 - 333
8885	1.7	.07	10	45	115	297 - 313
8886	3.0	.06	8	50	700	313 - 313½

Roy Broadhead

APPENDIX III

OME REPORT APRIL 1967

LOG OF CP 1

CROWN POINT REPORT
G. W. CRANE, 1928

REFERENCES

O M E

EXPLORATION PROGRAM

CROWN POINT AND EAST CROWN POINT CLAIMS

TINTIC MINING DISTRICT, UTAH CO., UTAH

APRIL, 1967

REPORT SUBMITTED TO:

Messrs John & Glen Larsen
Western States Mining and
Contracting, Inc.
Riverton, Wyoming 82501

REPORT SUBMITTED BY:

Mr. Roger C. Banghart
East Ely, Nevada
Registered professional engineer
Missouri E 11320
Idaho Geol. Eng. 1736

CONTENTS

Summary

Property

History of Exploration

Geology

- Sioux Ajax Fault
- Alteration
- Stratigraphy
- Ore Channels

Conclusion

Exploration Proposals

Fig I - General stratigraphy of Tintic District with production figures.

APPENDIX

1 - East Crown Point Lease

Crown Point Lease

2 - Crane, G. W., 1928, Report on Property of Crown Point Consolidated Mining Co., Tintic District

3 - Log of CP #1 Rotary and Diamond Drill Hole, 1964

4 - Reference List

PLATES

1 - Mines and General Geology of Tintic Mining Districts - 1" = 2000'

2 - Engineering Map - Crown Point Leases 1" - 300'

3 - Geology Map - Crown Point Leases 1" = 300'

4 - Alteration Map - Crown Point Leases 1" = 300'

5 - Mine Map Crown Point No. 3 Shaft with 680 level and cross sections

SUMMARY

The enclosed report requests exploration assistance under the U. S. Department of Interior, Office of Minerals Exploration program for silver. The funds would be used to develop 223 acres of potential silver bearing claims in the Tintic Mining District, Eureka, Utah.

This lease claims 3700 feet of strike length along an undeveloped yet strongly pyritized lava covered portion of the productive Sioux Ajax Fault. Structural knowledge strongly aided by alteration studies and geochemical techniques have effectively aided in the discovery of new blind ore bodies along the Sioux Ajax-Eureka Standard Fault system, namely the Trixie and Burgin areas.

It is proposed that a two compartment shaft, 1300 feet deep, be excavated which would penetrate through pyritized Tertiary volcanics and then explore a full section of the productive Bluebell Formation. A level would be established at 5300 foot elevation and 2000 feet of drifting along the north side of the Sioux Ajax Fault would be necessary to locate the northsouth trending ore channels in the Bluebell Formation.

The end result of this work would be to discover silver-copper-gold ore bodies similiar in tenor to those found in the southern portion of the Tintic ore channels in limestones near the monzonite stock. These ore bodies along the Sioux Ajax Fault would be characterized by the Mammoth, Spy, and Iron Blossom Mines.

PROPERTY (PLATE 2)

Plate 1 shows the leased property in its relationship to the entire district.

The property consists of a unitized agreement combining the Crown Point Consolidated Mining Company and the East Crown Point Consolidated Mining Company. The lessee is Mr. Glen Larsen, who is requesting this OME loan. The combined properties include 223 acres located in Sections 20, 28, and 29, T 10 S, R 2W, Tintic Mining District, Utah Co., Utah. Appendix I, which contains copies of the leases gives the legal description of the property. Plate No. 2, Engineering Map shows the individual claims and the lease boundary as tied into the land grid.

Plate 2 also shows the existing roads and distances to Eureka and other landmarks. The Crown Point 1, 2, and 3 Shafts with their known underground workings are also shown.

As noted on Plate 2, only the northwest portion of the property has been developed. No production has been recorded from these properties. Crown Point No. 1 Shaft is 400 feet deep, and there are no reports concerning the geology and workings. Crown Point No. 2 Shaft has approximately 10,000 feet of workings from the surface down to 1000 feet. No mine maps are available; however, G. W. Crane's report, dated 1928, on this shaft is included in its entirety in Appendix 2.

Crown Point No. 3 Shaft has one level at 680 feet and in this report the maps and cross sections are included as Plate 5. The No. 3 Shaft has the most significant data for use in this exploration program. The stratigraphy encountered, Victoria Formation, with its

strike and dip, and the ore channel inferred from the galena, jasperoid, and manganese mineralization will be used in recommending deeper work in the Bluebell Formation further south towards the Sioux Ajax Fault.

The two drill holes shown on Plate 2, CP 1 and CP 2 were drilled in 1964 by Mr. Larsen. The drill log of CP 1 is included in Appendix 3. CP 1 located a marker bed at the top of the Bluebell Formation and also minor galena. This hole is 300 feet south of the Crown Point No. 3, 680 level and the mineral galena is found 40 feet deeper.

CP No. 2 drill hole, 900 feet southeast of CP No. 1, penetrated the rubble zone at the base of the volcanics at 1174 feet. The deep volcanics are probably reflected by the prevolcanic erosion trace along the Sioux Ajax Fault.

HISTORY OF EXPLORATION

In recommending this exploration program, a voluminous amount of published and private company reports and maps were available for study. An assimilation of the significant data is included in this report, and Appendix 4 lists the pertinent references. An additional reference not listed is the author's own personal knowledge of the district. The author spent five years between 1958 and 1964 employed as a geologist and project engineer for Bear Creek Mining Co. and Kennecott Copper Corp. at the Burgin Mine.

Historically, discoveries in the Tintic District were made from south to north and from west to east. A fifth ore channel has always been inferred and has been prospected for, east of the four major producing ore channels in the district. In addition, these ore channels had their initial discoveries made as surface exposed northeast fissures in the monzonite stock. When crossing the Sioux Ajax Fault to the north, the fissuring changes to north-south trending replacement ore channels in limestone.

Plate 1 shows these features and also shows that a major northeast fissure zone occurs which projects east of the productive ore channels. This fissure zone becomes covered by altered Tertiary volcanics in the area of the Sioux Ajax Fault on the Crown Point properties.

As pointed out by Crane, 1928, the northwest portion of the Crown Point properties has been adequately explored through the Crown Point No. 2 Shaft. The Crown Point No. 3 Shaft, located in the central portion of the leased area, has the 680 foot level, which crosscuts and drifts in the Victoria Formation, Plate 5. In

addition, a northsouth striking manganese-jasperiod ore channel containing scattered galena was located. Abundant pebble dikes are also present on this level indicating deep seated northsouth structures.

Beginning in the late 1940's and through the 1950's the U. S. Geol. Survey made a thorough study of the district with special emphasis on hydrothermal alteration and geochemical methods for locating blind ore bodies through Tertiary pre-ore lavas.

Almond and Morris's report (Reference 1) shows the anomalous geochemical values developed in the pyritized and argillized volcanics. These volcanics cover the Sioux Ajax Fault where this fault crosses the Iron Blossom ore run and formed the Van Stope (Reference 2).

Lovering's Economic Geology Monograph 1, (Reference 7) entitled "Alteration as a Guide to Ore in the East Tintic District", is a classic economic geology report depicting the various stages of hydrothermal alteration of the Tertiary volcanics overlying the North Lily ore body. These same alteration studies were applied to the rest of the East Tintic District. Plate 4 is a 300 scale enlargement of this work on the Crown Point leased ground. Here pyritic ore stage alteration of Tertiary volcanics has been used to trace the Sioux Ajax Fault and northeast striking fissures south and north of this fault. These same techniques were used in the Chief Oxide-Burgin area and Trixie area discoveries which are along the Sioux Ajax-Eureka Standard Fault System.

In July, 1964, Glen Larsen drilled two surface holes on the leased ground. CP No. 1 (Appendix IV) was collared 300 feet south of the end of the 680 level of the Crown Point No. 3 Shaft. Here pyritized volcanics were rotary drilled to906 feet. Beneath the rubble zone and 40 feet below the 680 level, the uppermost beds of the Bluebell Formation Were cored, which contained minor galena. CP No. 2, (Plate 2), drilled further to the southeast, was still in the rubble zone at 1177 feet. These deep volcanics probably depict the prevolcanic trace of the Sioux Ajax Fault.

GEOLOGY

Plate 1 shows the general geology of the Tintic District, and the references listed adequately cover the geology, ore controls, and exploration of the district. Figure 1 shows the production according to formation and it should be noted that just about every unit has produced some ore. The Bluebell Formation should be singled out as the most receptive host rock for ore in the district, having produced $110,000,000 or ¼ of the total district production.

Only that geology which is pertinent to the Crown Point leases will be discussed.

Sioux Ajax Fault

The Sioux Ajax Fault is one of the most important structures in the Tintic District. It strikes generally east-west and dips steeply to the north. Its width is as much as 500 feet. Fissure ore bodies are characteristically to the south and limestone replaced ore channels are to the north. Where the Sioux Ajax Fault intersects the horizontal ore channels, the vertical extent of the ore is extended so that chimneys or ore are developed over much greater vertical distances.

At the west end of its strike, the Sioux Ajax Fault intersects the Mammoth-Chief ore zone forming the copper-silver-gold bearing Apex Stope and East Stope in the Mammoth Mine. The Apex Stope extends from the surface down to 1500 feet (Reference 11).

Next, to the east, the Sioux Ajax Fault intersects the Godiva ore channel forming the Spy ore body which was developed through the Sioux Tunnel. No production records of this copper-silver-gold-lead ore body are available (Reference 5).

Farther to the east the Sioux Ajax Fault intersects the Iron Blossom ore run forming the Van Stope, Plate 2. Cross sections

through the Iron Blossom No. 3 Shaft show the discontinuous vertical extent of the ore from the 300 level down to the 1200 level (Reference 1 and 2).

Adjoining the Iron Blossom ground on the east are the Crown Point leases which shows the Sioux Ajax Fault to be covered by altered lavas for 3700 feet (Plates 3 and 4). The exact sub-volcanic trace of this fault will have to be determined in this proposed exploration program.

To the east of the Crown Point properties the Sioux Ajax Fault joins the Eureka Standard Fault in the Trixie area. Here again the fault is covered by altered volcanics; however, surface drilling by the U. S. Geol. Survey and Bear Creek Mining Company have disclosed in the Trixie area silver-lead sludge and core intercepts of commercial importance.

The Eureka Standard Fault locallized the Eureka Standard silver-gold mine, the Apex Standard Mine and terminates against the East Tintic thrust fault where the Burgin Mine is presently being mined.

The Sioux Ajax Fault together with the Eureka Standard Fault can be traced for approximately four miles. The Sioux Ajax Fault has a normal displacement of approximately 1500 feet (north side down).

Alteration (Plate 4)

Hydrothernal alteration studies of pre-ore Tertiary volcanics have contributed significantly to the discovery of major ore bodies in the East Tintic District.

Almond and Morris 1951 (Reference 1) show the geochemical anomalous values in the pyritized and argillized volcanics covering

the Iron Blossom - Sioux Ajax intersection, which formed the Van Stope.

Lovering, 1949, deciphered the pre-ore to ore stage hydrothernal alteration sequence which was developed in the Tertiary volcanics above the North Lily ore body. On Page 2 of this report he states, "This alteration (pyritic) is localized near major channels of mineralization and is more closely related to ore than to visible instrusives." These alteration studies coupled witha knowledge of the underlying structures have lead to the discovery of the Burgin ore body (Reference 8) and a yet to be developed Trixie discovery. Plate 3 is a 300 scale enlargement of Reference 6 and shows that 78% of the surface of Crown Point leases are covered by Tertiary pre-ore volcanics. The 22% which are sediments are in the northwest corner of the property. Approximately 40% of the volcanic cover has been strongly pyritized.

This pyritization would reflect ore channels at ~~a~~ depth and as noted on Plate 2, the entire south portion of the property has not been prospected below these lavas. These strong pyritic zones would reflect the east-west striking Sioux Ajax Fault and north-south and north-east trending ore channels.

These subvolcanic structures would be explored in this requested program.

Stratigraphy

Reference 9 is a detail report on the stratigraphy of the East Tintic mountains. Figure 1 is a generalized stratigraphic column showing the production of the district related to the formations. It is readily seen that the Bluebell formation produced ¼ of the total district's production, or $110,000,000.

In the area, of this recommended exploration program, the 680 level (Plate 5) and CP 1 drill hole shows the closest known sub-volcanic stratigraphy. The 680 level, elevation 5863, crosscuts and drifts through the basal beds of the Victoria Formation, The gentle westerly dips show the beds to be on the east limb of the Main Tintic Syncline. The strike is west of north reflecting the axis of the syncline. Drill hole CP 1 (Plate 2) located the "speckled bed" which is near the base of the Victoria Formation, and would be 40 feet lower that the 680 level.

Of major importance to this proposed program, is the 550 feet of highly productive Bluebell Formation, which presents itself for exploration beneath the 680 level and above water table.

Ore Channels

The ultimate objective of this program is the locating and discovery of ore channels.

Ore stage mineralization in the form of jasperoid, managanese, and galena was found on the 680 level of the No. 3 Shaft (Plate 5). This mineralization which is in the Victoria Formation could be a reflection of an ore channel in the underlying Bluebell Formation. A crystal of galena was also discovered in drill hole CP 1, 300 feet due south of the 680 level.

The strong pyritic alteration of the overlying lavas strongly suggest north striking ore bearing structures at depth.

Other surface and 680 level indications of the deep seated, north-south structures, are the pebble dikes which transect the volcanics and the sediments.

CONCLUSIONS

The structural intersection of the Sioux Ajax Fault with known and probable north-south structures in the highly receptive host, Bluebell Formation, beneath hydrothermally altered volcanics lends the Crown Point properties to a very promising exploration program.

EXPLORATION PROPOSALS (Plate 2)

It is recommended that a two compartment shaft 1300 feet deep be excavated to the 5300 foot elevation. This shaft would penetrate the Tertiary lavas and penetrate a full section of the Bluebell Formation. A short Drift should be run to the south to locate the Sioux Ajax Fault. At the 5300 foot level, a drift parallel to the hanging wall of the Sioux Ajax Fault would be driven to explore for north striking ore channels. A total of 2000 feet of drifting and crosscutting is requested.

Exploration drifting should stay near or within the Sioux Ajax Fault as a greater vertical extent of ore is usually developed at these structural intersections which would increase the odds for locating an ore channel.

APPENDIX 3

July/64

LOG OF DRILL HOLE CP-# 1
Crown Point Property

0 - 880' (rotary)	Highly argillized quartz latite with varying amounts of fine grained pyrite with some Fe-staining throughout. Layer of dark-gray, fairly fresh quartz latite at 700'.
880' - 890' (rotary)	Highly Fe-stained (near base of volcanic cover).
890' - 896' (rotary)	Rubble zone: mixed fragments of limestone, jasperiod and volcanic material, fair pyrite
896' - 906' (cored)	Brecciated limestone; well healed, dark-gray, dense, massive, fine to medium grained; occasional frags of quartz latite in breccia which indicates that this breccia is related to the rubble zone.
906' - 960' (rotary)	Mostly medium gray, medium grained limestone, with occasional jasperoid frags and minor f.g. pyrite (could be Vic. formation).
960' - 975' (cored from 960' down) (NX size)	Dense, blue-gray, fine grained dolomite laced with small secondary dolomite veinlets. (typical of Bluebell dolomite) One piece of core @ 960' shows a few white spheroids which may be part of "speckled bed". Also occasional nodules of possible chert of dark-gray jasperoid. Bedding @ 972' about 45° to core axis.
975' - 977'	Fissure zone; intensely oxidized with much limonite and manganese oxides; some preserved fine grain cubic pyrite.
977' - 996'	Dense, blue-gray, f.g. dolomite as above. Mn. dendrites on frac. planes.
996' - 1000'	Fine grained silt stone, slightly limey; abundant tiny horn corals and large nodules of f. g. dark-gray chert. Bedding: about 30° to core axis.
1000' - 1012'	Intensely bleached, light-gray, fine grained dolomite; much limonite and some Mn. oxides generally highly fractures and altered and vuggy; much development of calcite x stals in vugs and seams. (3" frag. of porphyry dike material at 1009') Occassional seams of massive limonite.

	Copper	Zinc	Lead	Silver
Sample No. 3	10	90	45	-1

1012' - 1022'	Intensely bleached light-gray, f.g. dolomite as above but much less fractured. Much development of spots of limonite and Mn-oxides on fractured planes; fairly soft and altered.

*1016'	One small bleb of galena rimmed with secondary Pb mineral (probably cerussite) in highly bleached zone @ 1016'.
1022' - 1028'	Less bleached, med.-gray, f.g. dolomite, with sec. dolomite stringers. Slight increase of limonite and spots of Mn-oxides. Occassional vugs which look like coral remnants. Bedding: 45° to core axis.
1028' to 1038'	Highly bleached, med. gr. dolomite with crystalline calcite and quartz linings in stringers and vugs. Much Fe oxides; and Mn-oxide dendrites. Much mud and brecciation towards bottom.
1038' to 1058' (Poor Recovery) (No Return circulation) from here	Highly altered brecciated limestone. (formational change) Could be a fault zone?? Only one foot of core recovery. Much limonite and minor Mn-oxides - crystalline calcite and quartz in vugs and fissures.

	Copper	Zinc	Lead	Silver
Sample No. 1	15	210	60	-1
Sample No. 2	15	175	40	-1

1058' - 1062'	Altered, bleached, fine-med-grained limestone; much Fe-staining and minor Mn dendrites; fair core recovery; tiny calcite crystals on frac. planes.
1062' - 1064'	Soft, decomposed, highly argillized prophyry dike rock; abundant f.g. pyrite; (mostly cubic structure) fair chlorite throughout; occassional qtz. crystals.

	Copper	Zinc	Lead	Silver
Sample No. 4	40	+1000	180	-1

1064' - 1075'	Highly oxidized, fractured zone of light-gray, bleached limestone; much Fe-staining and Mn-dendrites; much mud and gouge.
1075' - 1078'	Slightly fresher, less bleached, crystalline limestone. (good recovery.)

*All assays in parts per million

APPENDIX 4

REFERENCE LIST

1 - Almond & Morris, 1951, Geochemical Techniques as Applied in Recent Investigations in the Tintic District, Utah; Economic Geol. Vol. 46, No. 6 p608-625

2 - Colorado Consolidated Mining Co. - Mine maps of Iron Blossom Mine.

3 - Cook and Others, 1957, Geology of the East Tintic Mountains and Ore Deposits of the Tintic Mining Districts; Utah Geological Society Guide book No. 12.

4 - Crane 1928, Report on Property of Crown Point Consolidated Mining Co., Tintic Mining District, Utah Co.

5 - Lindgren & Loughlin, 1919, Geology and Ore Deposits of the Tintic Mining District, Utah, U.S. Geol. Survey Prof. Paper 107

6 - Lovering & Others, 1960, Geologic and Alteration - Maps of the East Tintic District, Utah Minerals Investigation Map MF-230 U.S. Geol. Survey

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8 - Lovering, Morris, Cook, Bush, 1960, The Chief Oxide Burgin Area Discoveries, East Tintic District, Utah; a Case History; Economic Geology Vol. 55, No. 6

9 - Morris & Lovering, 1961, Stratigraphy of East Tintic Mountains, Utah; U.S. Geol. Survey Prof. Paper 361

10 - Morris, 1964, Geology of Eureka Quadrangle, Utah & Juab Counties; Utah U. S. Geol. Survey Bulletin 1142-K

11 - McIntyre - Mine Maps of Mammoth Mine

APPENDIX 2

General Report
on the Property
of the
CROWN POINT CONSOLIDATED MINING COMPANY
Tintic Mining District - Utah County, Utah
by G. W. Crane
JUNE, 1928

LOCATION - The Crown Point property is located in the east central portion of the Tintic Mining District, Utah County, Utah. It adjoins the old Iron Blossom and Colorado Consolidated properties on the west and the Iron King and East Crown Point on the east. The highly productive Iron Blossom-Colorado channel lies parallel and about 1000 feet to the west. (See map of the Tintic district accompanying this report.)

HOLDINGS - The property consists of about 150 acres of valuable mineral ground held by an undivided interest in nine lode mining claims all of which are patented. The company is capitalized for $100,000.00 represented by 1,000,000 shares of a per value of ten cents each, of which all but 130,620 shares are issued. Accompanying this report is an official map of the property on a scale of 200 feet to the inch showing details of the claims, general surface geology and most of the underground developments. I have also prepared an east- west cross-section through the Crown Point shaft showing the geological structures and formations developed by the mine workings.

SURFACE CONDITIONS - The property lies along the east foot of the main mountain range which rises to elevations of 1500 feet above it. Surface elevations range from 7000 to 6500 feet and the slopes are generally easterly. The shaft is reached by a fair road up a brushy gulch not too steep for an auto or truck.

Crown Point Report By G. W. Crane

GEOLOGY - The surface formations consist of dolomite limestone and shale of the Pine Canyon and Gardner formations which strike nearly north and south and dip 20° to 30° to the west thus forming a part of the east limb of the major Tintic syneline. At the collar of the Crown Point shaft the depth to the Tintic quartzite is approximately 6000 feet, which means 6000 feet of limestones and dolomites, three fourths of which are especially amenable to replacement by ore where found in connection with Tintic type of mineralization.

Overlying the sedimentary beds at the south end of the property are bordering it on the north are rhyelite flows and tuffs of Tertiary age that are generally recognized as non-ore-bearing and as having had no part in the mineralization of the camp.

QUARTZ LEDGES - Along the eroded contact of the rhyelites and the underlying sediments are numerous prominent surface quartz ledges that are the result of silicification of the limestones and shales due to an ascending hot water circulation following the advent of the rhyelite flows. The hot waters carrying much silica in solution replaced the limestones and surface talus rocks forming jaspery quartz and quartz breccias which usually give an assay but seldom more than traces of gold and silver. The silicification process is one that took place long before the formation of the regular type of Tintic ore deposit and should not be confused with the latter. Rusty ledges of jaspery quartz of this origin are traceable at intervals all along the old rhyelite-limestone contacts, especially near the horizon of the black shale which seems to have been readily ailicified. But as they do not extend to depths below the ryhelite contact, underground developments have shown no such quartz bodies.

FAULTING - Faulting of any importance is practically wanting on the surface but we know that the Sioux-Ajax fault which crosses the Iron Blossom channel near the Iron Blossom No. 3 shaft must cross the south end of the Crown Point property, perhaps near the middle of the Divide No. 2 claim. More, however, the surface formation is rhyelite which is younger than the faulting and therefore covers it. The Sioux-Ajax fault being pre-mineral may be the locus of ore deposition and therefore deserves special attention.

MONZONITE - The extreme south end of the property laps for 130 to 200 feet upon the surface exposure of the monzonite, an intrusive stock, that is generally considered, in the light of abundant evidence, to be the source of the mineralizing solutions in the Tintic district. The presence of the monzonite on the south and the abundance of replaceable limestones and dolomites to depths of 5000 or 6000 feet over the whole of the property complete the setting of almost ideal conditions for the occurrence of another ore channel of the Tintic type. To determine the existance of such an ore channel considerable work has been done through a shaft located near the north end of the property. (See general surface map for the location of these workings.)

DEVELOPMENTS - The Crown Point shaft, consisting of one compartment and manway, has been sunk to a depth of 1000 feet with laterals at the 250, 400, 500, 550, 750 and 1000 feet levels, underground explorations totaling about 10,000 feet. The geological plattings on the cross-section show the bedding dipping from 20° to 30° to the west with only a minor amount of faulting. The formations explored include the Gardner or Chief series of limestones and dolomites, the Victoria quartzite and a portion of the Bluebell limestones which with the exception of the Victoria and the Blue Fossilifarous member of the Gardner are generally good ore-bearing formations which in the Chief and other mines of the district have been highly productive.

Faulting in the mine is of minor importance except near the east boundary of the property where a nearly east-west fault shown on the 250 level lifts the mottled dolomite to 200 feet or more to a position opposite the sugary dolomite. The fault planes are tight and show no mineralization. They were not entered elsewhere by any of the lower workings.

FISSURING - A little farther to the southeast on the 250 level considerable work was done on the promising break or fissure which strkies N 40° E and dips about 70° to the northwest. On the plane of this break is a 6 to 8 inch seam of brecciated limestone mixed with intrusive porphyry with here and there some secondary quartz due to the silicification of the fissure walls and at one point considerable iron accompanies the quartz. The best of this material was sampled with considerable expection but was found to carry only traces of gold and silver and no lead. A break of similar Character has been cut near the face of the east drift on the 1000 level but shows less indication of mineral than that on the 250 level.

BRECCIA DIKES - At various points east of the shaft breccia dikes varying from a few inches to 4 feet in width have been cut. The strike of these dikes is generally 10° to 30° east of north and the dip 60° to 80° to the northwest. They consist of both angular and rounded limestone fragments inbedded in a matrix of porphyry but show no signs of mineralization. Judging from their occurrence elsewhere in the camp under conditions showing their relation to ore bodies I believe these dikes to be on intrusive origin and to be younger thanthe ore bodies, therefore affording no clue to the location of the latter.

BRECCIA-FILLED CAVES - On the 250 level and about 300 feet west of the shaft drifting has exposed an area about 150 feet wide and 200 feet long over which the formation is almost entirely a soft breccia consisting of angular fragments of various types of limestone and shale and much black chert imbedded in a clayey matrix but in places fairly clean and partly cemented by white incrustations of calcite. Excepting the black chert no quartz is present and there is very little iron or other indications of ore depostion. Over the larger part of the area opened up the breccia has the appearance of a cave filled by materials from the surface the amount and character of the clay matrix varying from place to place but the character of the breccia materials remaining much the same. Where under went by the 500 and 750 levels no such breccia formation is shown indicating that it is neither intrusive nor the result of important structural movements. The probabilities are that it is a cave filling of recent origin and has no important bearing on the location of mineral deposits.

CHERT - One of the characteristic dolomitic limestone horizons out by the Crown Point mine workings is that known in the Chief mine as the Sugary dolomite which is one of the very best ore bearing horizons in that mine. Near the middle of the Sugary dolomite there is everywhere present a bed of glassy chert varying from one foot to 8½ feet in thickness which is an original sedimentary member in that formation and is in no way directly indicative of ore. In the Crown Point workings this bed of chert has been cut at all levels down to the 750 and is usually from 5 to 5½ feet in thickness. In some places it is porous and rusty and has been taken for mineral quartz and although it has been prospected considerably on both strike and dip no ore discoveries were made.

IRON SHOWINGS - At several points throughout the mine, particularily in the Sugary and Mottled dolomite formations, there are encouraging showings of limonitie iron filling small solution cavities in the limestones, some of which feels gritty to the hand. All such showings were sampled and assayed to detect any possible evidence of their having been deposited by mineralizing solutions of a magnatic source. The results of this sampling are as follows:

Lev-Drift	Location of sample	Character	Au. Ozs	Ag. Ozs	% Pb.
250 East	Raise at point T	Fe.& Qtz.	Tr.	Tr.	none
250 West	16 ft. N. point R	Fe.	Tr.	Tr.	none
400 East	25 ft. NW point D	Fe.&Qtz.	Tr.	Tr.	none
500 East	57 ft. E. point M	Fe.	Tr.	Tr.	none
500 West	8 ft. NW point D	Fe. & Mn.	Tr.	Tr.	none
750 West	8 ft. E. point M	Fe. & Mn.	Tr.	Tr.	none

It will be noted that for each sample the assay returns showed only traces of gold and silver and no lead. As this is no more than is usually obtained from iron showings in general one is hardly warranted in accepting the iron as a definite indication of the Tintic type of deposition for which quartz or manganese as well as iron is required. Perhaps the nearest approach to such a showing is the silicified iron stained limestone adjacent to the fissure described as occurring at the east end of the 250 level. Samples of this however when assayed showed no mineral other than the usual traces of gold and silver.

Another showing of special interest was obtained in the 119 feet winze 400 feet west of the shaft on the 750 level. Here, at a depth of about 80 feet, the winze is reported to have cut 4 feet of 22% manganese ore which also assayed about 2 oz. of silver to the ton. The winze is now inaccessible but the reported character of the material cut is certainly interesting in that it appears to contain enough manganese and silver to be classed as indicative of ore deposition of the Tintic type. Under The circumstances it would be advisable to further prospect this showing; either by work in the winze or by undercutting it on the 1000 foot level. The

accompanying section shows that such a drift on the 1000 level would tap the Mottled dolomite, a very good ore-bearing horizon directly under the showing in the winze. Should more work be untertaken at the old stand I think it would be done here.

PRESENT STAGE OF DEVELOPMENTS - In the search for an ore channel of the Tintic type, the shaft and mine workings on the Crown Point property were well planned and thoroughly carried out down to the 1000 foot level. The distance to the east of the Iron Blossom channel is just about right for the interception of a new channel and in my opinion the underground workings were spaced sufficently close to avoid missing a channel occuring within the depth prospected. While there is still a fair prospect to find an ore channel at depths greater than these of the present workings no doubt the best horizons have been prospected for that locality and excepting the work I have suggested for the 1000 foot level of the No. 2 shaft I believe that further work might better be directed to another part of the property.

UNEXPLORED AREAS - Refering to the property map it will be noted that practically all the work on the Crown Point tract to date has been done near its north end while much the larger part of the property, lying to the south and east, is still undeveloped.

In a geological sense, and considering the almost negative results of the work on the north, the southeastern portion of the property is at present much the more attractive development proposition, Should the ore channel sought be farther to the east than at first anticipated, here is the place to look for it and here also is an opportunity to locate an ore body of the East Tintic type. In general structure, the southern portion of the property is similar to that on the north in so far as the dip of the bedding is concerned and the same series of limestone formations are represented.

Another encouraging feature lies in the fact that this part of the property is closer to an eastern belt of intrusive monsonite plugs which are thought to be directly allied to the agencies producing the East Tintic ore bodies. On the surface this belt of intrusion is tracable from a point on the East Crown Point property north and east through the Zuma, Iron King, Big Hill, Bullion and North Lily properties to a point on the railroad near Canyon siding and is accompanied all the way by surface deposits of iron and manganese oxide of undoubted magmatic (igneous) origin.

CONDITIONS FAVORING ORE DEPOSITION - The deposition of the Tintic type of ore channel is dependent primarily upon two factors - first, a good supply of mineralizing solutions and second, a favorable horizon for its deposition by replacement. The structures involved vary widely in the several channels indicating that structure is of secondary importance.

The source of the mineralizing solutions for the four or five known Tintic channels is definitely known to have been at certain points along the contact of the monzonite and the limestone in the south end of the district varying considerable as to depth beneath the surface. In at least two cases the points of sources are marked by large iron deposits at the surface as exemplified by the Dragon Iron mine at the south end of the Iron Blossom- Colorado channel and the Black Jack Iron deposit at the south or contact end of the Mammoth channel. Each of the channels are represented near the monzonite contact by true fissure veins in the more or less metamorphosed limestone with but little replacement of the wall rocks and only at some distance to the north of the monzonite contact or point of source is there pronounced replacement of the limestone beddings. When limestone replacement becomes important the bedding structure and the faulting come into play in controlling the course or direction of the ore channel and in determining its shape and manner of occurrence. For instance

the clay synclinal structure north of the Sioux-Ajax fault in the Colorado channel held the ore to practically one horizon and to a nearly straight line course. In the Centennial Channel, the vertical bedding in the Eureka Hill and Gemini mines held the ore to lines parallel to the bedding. In the Chief and Plutus mines the ore occurs replacing beds dipping at angles of 20° to 30° as in the Crown Point and while following the bedding takes a tertuons or meandering course as influenced by any break or cross structure but clings closely to certain favorable beds. In all of these cases the dip of the bedding while influencing the course followed by the ore has had little or nothing to do with the amount of deposition or the character of the ore which are features that are controlled entirely by the strength and character of the ore depositing solutions and the thickness and character of the limestone bedding rather than by any particular structure.

The Crown Point property is favorably located with respect to the known mineralized areas. Given a strong mineralizing solution from off the contact of the monzonite on the south the structural features and character of the limestone formations on the tract are certainly such as to satisfy all the usual requirements for extensive ore deposition.

PROBABLE CHANNEL - Among students of geological conditions in East Tintic the opinion is general that there will be found another ore channel to the east of the more or less parallel to the Iron Blossom-Colorado channel. Evidence of the existance of such a channel is had in the numerous surface showings of iron and manganese on the adjacent Iron King property and by ore and quartz showings in the underground workings at the old Iron King shaft on the Clipper claim and in the Yankee east workings further north.

On that part of the Iron King property adjoining the Crown Point on the east deposits of manganiferous iron are numerous and have been worked considerably as a flux for old time lead smelters. These deposits were formerly buried beneath the rhyolite flows and no doubt other deposits of the kind lie unexposed under the rhyolite covering the southeast portion of the Crown Point property.

In several places in the Tintic district these manganiferous deposits are directly related to the monzonite intrustons and in at least two instances they are directly associated with lead-silver deposits and cary low silver values. In every case they are proof of local magnatic section and therefore, I believe, offer the best surface evidence we have in East Tintic of the probably existence of ore bodies of the lead-silver type.

The showing in the old Iron King shaft workings is reported to include some lead-silver ore as well as structures indicative of an ore channel. The showing in the Yankee mine was on the 1500 level east drift at a point about 1500 feet east of the shaft and consisted of undoubted ore quartz carrying low values in silver that must be recognized as belonging to the Tintic type of mineralization.

Accepting the above described mineralization as evidence of the probable existance of another ore channel in these parts and judging from developments to date, we may conclude that such a channel must lie somewhere in the undeveloped section between the Crown Point workings on the west and the workings in the Zuma, an adjacent mine on the east, in which case it will be pretty sure to cross the eastern portion of the Crown Point tract.

RECOMMENDATIONS - In the light of the conditions discussed above the southeastern portion of the Crown Point property certainly warrants thorough prospecting. This may be initiated either by an electrical survey or by drilling or by sinking a new shaft and working from that. Should the property contain ore bodies not deeper than say 500 or 600 feet they may be detected by electrical surveys at depths depending largely upon their mine, but should the ore bodies be thoroughly oxidized probably little would be gained by such a survey. The iron ore which was found at depths

600 to 800 feet beneath the surface, a short distance to the east, was about 80% sulphide and for this reason I believe an ore body on the Crown Point property, occurring under similar conditions, could be expected to contain enough sulphides to be detected by an electrical survey if not too deep. Any indications of ore shown by such a survey might first be checked by drilling but since sulphide mineral in Tintic is so generally good lead-silver ore, I would be inclined to recommend dispensing with the drilling and that a shaft be sunk at once to any indications. Should be electrical survey not be made then I recommend that a two compartment shaft be sunk at a point near the west end of the Ridge claim from which, beginning at about the 800 foot level, a camapign of development similar to that on the north be conducted.

Respectfully submitted,

/s/ G. W. Crane

Geologist

June 28, 1928

507 Dooly Block
Salt Lake City, Utah

September 28, 1967

P. O. Box 537
East Ely, Nevada

Mr. William Hassler
USBM OME
Federal Center Bldg.
Denver, Colorado

Dear Mr. Hassler:

The enclosed report and supporting maps are submitted to you as our revised program for exploring the Crown Point properties in the Tintic District, Eureka, Utah. This program explores a specific target area and should meet the requirements of the Government's OME program.

In addition to our own examination, this property and the ore controls contained thereon, have been thoroughly studied by the U.S.G.S.. The Survey has been very instrumental in using these guides for discovering ore in the Tintic District.

The mining equipment, financial requirements and ability to direct and support this program can be very ably handled by the Larsens.

The Larsens and I will be most willing to meet with you and other OME representatives either in Denver or Washington to further discuss and/or clarify this requested program.

Sincerely,

Roger C. Banghart

REVISED

O M E

EXPLORATION PROGRAM

CROWN POINT AND EAST CROWN POINT CLAIMS

TINTIC MINING DISTRICT, UTAH CO., UTAH

SEPTEMBER, 1967

REPORT SUBMITTED TO:

Messrs John & Glen Larsen
Western States Mining and
Contracting, Inc.
Riverton, Wyoming 82501

REPORT SUBMITTED BY:

Mr. Roger C. Banghart
East Ely, Nevada
Registered professional engineer
Missouri E 11320
Idaho Geol. Eng. 1736

INTRODUCTION

In April, 1967, a report was submitted on the Crown Point and East Crown Point claims in the Tintic Mining District, Utah County, Utah requesting exploration assistance under the government's OME program for silver. An evaluation of this report concluded that the program was too broad and should be centered on a specific target area encompassing the more definite geologic features and ore controls within the leased ground.

The enclosed map and cross sections will help visualize the ore controls and the target area.

ORE CONTROLS

Without repeating in detail the report of April, 1967, the pertinent geological criteria for finding an ore body on this property will be re-emphasized and a revised program recommended.

The geologic features which control the deposition of ore within the Crown Point leases are outlined below:

1. Sioux Ajax Fault

This major east-west fault has localized four mines in the Tintic District: Mammoth, Spy, Iron Blossom, and Trixie discovery. The Eureka Standard fault which is probably a continuation of the Sioux Ajax Fault locallized three mines, the Eureka Standard, Apex Standard, and Burgin.

2. North Trending Ore Channels

On the 680 level of the Crown Point No. 3 shaft ore channels have been discovered in the basal beds of the Victoria formation. The ore channels as mapped consist of a system of breccia zones and pebble dikes containing ore stage mineralization.

This mineralization consists of galena, jasperoid, and manganese oxide. The Tintic quartzite boulders in the pebble dikes indicate the structures reach to great depths. CP #1 drill hole, collared 350 feet due south of the 680 level toward the Sioux Ajax Fault located minor galena and the speckled bed at the base of the Victoria Formation. The mineralization encountered in this hole further emphasized and extends the 680 level ore channels to the south toward the Sioux Ajax fault.

3. Bluebell Formation

A full section of the highly receptive host rock, the Bluebell Formation presents itself for exploration immediately below the 680 level and between 950 feet and the bottom of the proposed 1300 foot shaft. This formation has accounted for ¼ of the district's production or $110,000.00.

The ore channels which were discovered on the 680 level are in the basal beds of the overlying Victoria Formation. The Victoria Formation was the least productive in the district and the ore stage mineralization consisting of galena, jasperoid and manganese oxides had to transgress through the Bluebell Formation to be deposited in the Victoria Formation.

4. Mineralization

The jasperoid and manganese minerlization is directly associated with the ore and was deposited during the early part of the ore stage of deposition. Only the Victoria Formation which contains this mineralization and galena has been explored within the Crown Point lease. These mineralized structures traced downward into the Bluebell Formation will most probably blossom out into major ore zones.

Although the pyritic zones in the volcanics are broader type ore controls, it should be noted that such pyritic areas overly the Iron Blossom mine, Eureka Lily mine, Tintic Standard Mine, Trixie discovery and Burgin mine.

REVISED EXPLORATION PROGRAM

A definite target area presents itself for exploration by extending the known mineralized ore channels of the 680 level southward to the Sioux Ajax fault and downward into the Bluebell Formation.

To adequately explore this area the following program is recommended:

1. Collar a 1300 foot shaft at a point 250 feet west and 200 feet south of CP #1 drill hole. This shaft will penetrate directly into the target area and will explore the Bluebell Formation.
2. Drift 200 feet south on the 1300 foot level to locate the Sioux Ajax fault.
3. Crosscut 500 feet east along the north wall of the Sioux Ajax fault to locate and explore the downward and southerly projected ore channels.
4. Diamond drill ten, 400 feet holes to explore the ore channels along strike and dip.

CONCLUSIONS

This revised OME program explores a specific target area through a 1300 foot shaft, 700 feet of drifting and crosscutting and 4000 feet of diamond drilling.

This target area consists of projecting downward known ore channels from the unproductive Victoria Formation into the most favorable host rock in the district, the Bluebell Formation. In addition, these

ore channels will be explored at their intersection with the Sioux Ajax Fault which is one of the most important structures in the Tintic District for locallizing ore bodies.

The structural intersection of the Sioux Ajax Fault with the north trending ore channels in the most favorable host rock, the Bluebell Formation would lend itself to a program for finding flat ore channels in the Bluebell Formation and chimney type ore bodies at the intersection with the Sioux Ajax fault.

These geologic features define a definite target area of major importance to the discovery of ore in the Tintic District.