FINAL DISTRIBUTION
MADE MAR 4 1957

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

Administrative Audit Difference Statement

La Sal Mining & Development Co.
Box 563,
Moab, Utah

Date: March 1, 1957
Payee's Reference: January 1957

Gentlemen:

DMEA-4294

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed	$ 8,514.15
Difference	$ 184.37
Amount Approved	$ 8,329.78

The reason for the difference was due to:

Disallowance, Core Drilling:

Claimed 261 ft @ 20.00 per ft.		5,220.00
Acceptable Cost:		
147.5 ft @ 4.75 per ft.	700.63	
113.5 ft @ 6.00 per ft.	681.00	
Total Acceptable Cost -		1,381.63
Amount to be disallowed.		184.37

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

EXTRA COPY
DMEA
RECEIVED MAR 6 1957

DATE	INITIALS	CODE
3/6/57	JEJ	110
3-6	[illegible]	700

R-III-B & F Form No. 4
4-15-52 D

224 New Customhouse
Denver 2, Colorado

February 28, 1957

Memorandum

To: T. A. Christensen

From: Acting Executive Officer, TMEA Field Team, Region III

Subject: TMEA Docket 4294, (Uranium) Contract Ion-51010,
La Sal Mining and Development Company (La Sal project)
San Juan County, Utah - Operator's Monthly Progress Report
for the month of January, 1957

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Operator's Narrative Report, and Engineer's Report for the above period.

Except as otherwise noted below we consider that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Payment is recommended on the following basis contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

All core drilling was reported at the rate of $6.00 per foot, although part of the footage was drilled in the 400-600 foot interval. Amendment No. 1 stipulates that drilling in the 400-600 foot interval shall be acceptable at a maximum rate of $4.75 per foot, therefore the excess core drilling cost is disallowed as follows:

<u>Disallowance, Core drilling</u>

Amount reported, 261 feet at $6.00 per foot		$1,566.00
Acceptable cost,		
147.5 feet at $4.75 per foot	$700.63	
113.5 feet at $6.00 per foot	$681.00	
Total acceptable cost, core drilling		$1,381.63
Amount to be disallowed		184.37

Please advise the Operator of the disallowance by means of the Administrative Audit Difference Statement.

Reconciliation with Amount Reported by the Operator on Form MF-104 for January, 1957

Amount reported on Form MF-104 for January, 1957	$8,514.15
Amount to be disallowed	184.37
Total accepted cost for January, 1957	8,329.78
Government participation at 75 percent	$6,247.34

Remarks

Date of Report	February 10, 1957
Date Received in Field Office	February 13, 1957
Date Received in Region Office	February 27, 1957

Original signed by
E. N. HARSHMAN

E. N. Harshman

Enclosures

JDC:hh

cc: Chmn. Op. Comm. (2)
Shaw (2)
Harshman) w/copy of
Townsend) engr's report
MF-104 File E4294
Chron.

DMEA
DEPARTMENT OF THE INTERIOR
FEB 27 1957
REGION III
DENVER, COLORADO

Building 20
Denver Federal Center
Denver 2, Colorado
February 26, 1957

REGION III

Memorandum

To: Executive Officer, DMEA Field Team, Region III
Through: John F. Shaw

From: M. H. Salsbury

Subject: Docket No. DMEA 4294 (Uranium), Contract Idm-81010, La Sal Mining and Development Co. (La Sal Project), San Juan County, Utah--Progress report for January, 1957

Operations under the subject contract were inspected on February 5, 1957, in company with D. F. Elston of the Geological Survey and Donald T. Delicate, superintendent for the operator.

All authorized Stage I work had been completed prior to the date of inspection and was in accordance with contract specifications.

The operator has submitted in quintuplicate Forms MF-104 and MF-104A, a narrative report, geologic and radiometric logs, and map showing hole locations, together with one copy each of invoices for drilling, drillers logs, and certified assay certificate. Documentation is satisfactory.

The following claims for January, 1957 operations are submitted covering 4,631 feet of non-core drilling and 261 feet of core drilling in 8 holes:

Independent Contracts:	
Tractor dozer operation	None
Non-Core Drilling:	
3,200 feet in 0-400 foot range at $1.25 per foot	$ 4,000.00
1,298 feet in 400-600 foot range At $1.50 per foot	1,947.00
133 feet in 600 -800 foot range at $1.95 per foot	259.35
Core Drilling:	
261 feet at $6.00 per foot	$ 1,566.00
Fixed Costs:	
Incidental allowance - 4,892 feet at $0.15 per foot	$ 733.80
Chemical Analyses:	
2 at $4.00 each	$ 8.00
Total of January, 1957 claims -	$ 8,514.15

The unit prices claimed for drilling are based on an invoice from the Pioneer Drilling Company. Claims for drilling are in accordance with footage in the subcontractor's invoices, driller's daily logs, and geologic logs as summarized in Table 1. All claims are within contract maximums and otherwise in accordance with the contract and Amendment No. 1 thereto, except as follows:

(1) A total of 261 feet of core drilling is invoiced and claimed at $6.00 per foot, the rate in the subject contract for drilling in the 600-800 foot range. Actually, 147.5 feet was in the 400-600 foot range for which a unit price of $4.75 per foot was established by Amendment No. 1. The excess above $4.75 per foot claimed for drilling in the 400-600 foot interval, $184.37, is recommended for disallowance.

Depth of holes and amount of coring were checked by inspecting the core stored in a shed on the property and by comparing with probed depths reported in DMEA Burnaby results. The claimed depths were in reasonable agreement.

Monthly totals in the MF-104 and MF-104A forms are correct except that coring in the 400-600 foot range is not entered separately or claimed at the allowed rated. Cumulative totals do not reflect disallowances made on the November-December, 1956 claims. Amounts entered in the "Unit Cost to Date" column are total costs. Copies of MF-104 and MF-104A forms were reproduced rather than being carbon copies. Two of the MF-104 copies were not dated.

One hole drilled in January, 1957, Robin Roy No. 2, encountered 2 feet of material in the interval 533.5 to 535.5 feet which assayed 0.166 percent U_3O_8 and 0.19 percent V_2O_5. Four offsets to this hole were requested by the operator, recommended by the examining team, and have been authorized by the Field Team. Other holes were barren.

Payment of $6,247.34 or 75 percent of the amount claimed in January, 1957, $8,514.15, less $184.37 to be disallowed, is recommended for approval.

M. H. Salsbury
Mining Engineer

MHS:jg
Enclosures

cc: 6
Idm-R1010
Salsbury
Chron.

TABLE 1 — Drilling Data January, 1957, Docket No. DMEA 4294
Contract IDm-K1610, La Sal Mining and Development
Company, La Sal Project, San Juan County, Utah

Claim	Hole No.	Non-Core Footage 0-400 ft.	Non-Core Footage 400-600 ft.	Non-Core Footage 600-800 ft.	Core Footage 400-600 ft.	Core Footage 600-800 ft.	Total Depth Feet	Mineralized From	Mineralized To	Mineralized Interval	Assay Radiometric percent eU_3O_8	Assay Chemical percent U_3O_8	Assay Chemical percent V_2O_5	DMEA Barnaby percent eU_3O_8	DMEA Barnaby depth probed feet	Classification of Hole
Robin Roy	2	400	122		24.0 1/	1/	546.0	533.5	535.5	2.0	0.18	0.166	0.19			Ore
								535.5	536.0	0.5	0.11	0.038	0.12	Barren 1/	527.0	
								536.0	536.8	0.8	0.11					
								536.8	537.3	0.5	0.04					
Robin Roy	3	400	128		20.5		548.5				Barren			Barren	537.4	Barren
Robin Roy	4	400	180		20.0	21.0	621.0				Barren			Barren	610.7	Barren
Alice	2	400	160		40.0	.5	600.5				Barren			Barren	598.0	Barren
Alice	3	400	178		22.0	20.0	620.0				Barren			Barren	619.5	Barren
Alice	4	400	200	8		38.0	646.0				Barren			Barren	642.8	Barren
Susie	3	400	200	125		34.0	759.0				Barren			Barren	759.0	Barren
Richard	2	400	130		21.0		551.0				Barren			Barren	548.0	Barren
Totals		3200	1298	133	147.5 2/	113.5 2/	4892.0									

1/ Robin Roy No. 2 hole drilled to 546.5 feet according to geologic log

2/ Core drilling footage all claimed at rate for 600-800 foot range

Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of January, 1957 Docket No. DMEA 4294 Contract No. Idm-1010
Operator's Name La Sal Mining & Development Co. Minerals Uranium
Address P. O. Box 563, Moab, Utah
Contract Amount, $ 8,514.15 Government Participation 75 % Amount, $ 6,385.61

ITEMS OF COSTS Stage I	FOR OPERATOR'S USE: Monthly Total	Totals Previously Reported	Totals To Date	FOR GOVERNMENT USE ONLY: Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) Independent Short Form Contracts:						
Drilling	7,772.35	30,717.40	38,489.75			
Bulldozing	none	728.00	728.00			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repair						
(6) New Bldgs., Improvements, etc						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	8.00	16.00	24.00			
Payroll Taxes						
Liability Insurance						
Fixed unit cost	733.80	2,783.78	3,517.58			
(8) Contingencies (specify):						
TOTALS	8,514.15	34,245.18	42,759.33	8,329.78	34,245.18	42,574.96
				162.38		162.38
					34,082.80	42,412.58
					4247.34	

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

Date 2/8/57 Payee La Sal Mining & Development Co.

Per Donald J. Delicate Title Sup't of Mines

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

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

Pursuant to authority vested in me, I certify that this account is correct and that payment is due.

Signature (Authorized Certifying Officer)

Date 3/1/57 Voucher DMEA 57-94

(See other side)

Gross Disallowance

EXTRA COPY
DMEA
RECEIVED MAR 6 1957

DATE	INITIALS	CODE

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. DMEA 1010 in accordance with the terms of the contract.

Signature W. H. Salsbury 6,247,31 J. Hasek Title Mining Engineer Date 2-21-57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature E. M. Hawkman Title acting Executive Officer Date FEB 28 1957

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MLP-10AA
(April 1952)

Budget Bureau No. 42-R1181.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1957 Docket No. DMEA 4294 Contract No. Idm-1010

Operator's Name La Sal Mining & Development Co. Minerals Uranium

Address P. O. Box 563, Moab, Utah

OPERATION	Unit	Costs This Month	Units This Month	Costs to Date	Units to Date	Unit Costs to Date (actual)	Authorized by Contract: Units	Authorized by Contract: Unit Costs
Stage I 0 to								
Drilling, non-core 400 to	ft.	4,000.00	3,200	17,000.00	13,600	17,000.00	13,600	$1.25
Drilling, " 600 to	ft.	1,947.00	1,298	9,669.00	6,446	9,669.00	6,800	1.50
Drilling, " 800 to	ft.	259.35	133	4,143.75	2,125	4,143.75	2,920	1.95
Total core	ft.	1,566.00	261	7,677.00	1,279½	7,677.00	1,700	6.00-4.75
Winze								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Rough assay	each	8.00	2	24.00	6	24.00	125	4.00
Roads and Trails tractor	hour	none	none	728.00	66½	728.00	100	12.00
Incidental allowance	ft.	733.80	4,892	3,517.58	23,450½	3,517.58	25,020	0.15
Total Distributed Costs		8,514.15		42,759.33				Total Costs Authorized by Contract
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
Total Costs		8,514.15		42,759.33				48,547.00

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

Remarks: W. N. Salisbury

Date 2/10/57 Operator La Sal Mining & Development Co.

Per Donald T. Delcoite Title Sup't of Mines

NOTE—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

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DMEA
RECEIVED MAR 6 1957
DATE | INITIALS | CODE

LA SAL MINING & DEVELOPMENT CO.
MOAB, UTAH

February 11, 1957

Mr. John F. Shaw, U. S. Bureau of Mines
Room 137, Building 20
Denver Federal Center
Denver 2, Colorado

Subject: DMEA Exploration Project
Contract No. Idm-E1010
Docket No. 4294
La Sal Mining & Development Co.
Narrative Report for the
Period January 1 to
January 31, 1957

Dear Mr. Shaw:

Stage I of the above listed DMEA project was started in November, 1956, and completed in January, 1957. The project consists of exploratory drilling for uranium ore in the basal member of the Chinle formation. This project is located on property owned by the La Sal Mining & Development Co. in the Big Indian District, San Juan County, Utah.

The drill holes in Stage I were layed out by transit survey prior to the construction work on the roads and drill sites. After each hole was completed the drill hole was surveyed again and coordinates calculated.

The drilling consisted of exploration by non-core and core drilling to test the Moss Back member of the Chinle formation of Triassic age.

The holes were drilled non-core through the Wingate and upper Chinle formation to approximately 30 feet above the Cutler-Chinle contact and then core drilled to approximately 10 feet below the Cutler-Chinle contact but not more than 20 feet. The drilling depth averaged 615.3 feet and the cored section averaged 32.6 feet. All drill holes were reamed and cased as necessary, and cored with an NX size bit.

The core was logged geologically and checked for radioactivity and sections that indicated significant mineralization were split into halves. One-half of the core was analyzed chemically for U_3O_8 and V_2O_5, and the remaining one-half of said core section was boxed, labeled, and stored for government inspection.

A map showing the location and extent of work performed during January is enclosed.

The remaining eight holes in stage I have been completed for a total footage of 4,892 feet. Of this total, 4,631 feet were non-core and 261 feet were cored.

The holes were probed for radioactivity shortly after completion. A Babbel probe and reel assembly with an attached Babbel geiger counter, Model 600A, were used for the probing. Each hole was probed from the bottom upward to the surface and any radioactivity was recorded.

All of the work completed to date has been in stage I. Of the eight holes completed in January, one hole was mineralized and seven were barren as indicated by the map.

The core recovery averaged 98% during January.

Drilling was somewhat slower during January due to very damp weather. Drilling average approximately one hole every 40 working hours.

Due to dampness, water was used instead of air while plug drilling four of the eight holes completed during the month of January.

All completed holes have been probed by Mr. Bradley of the U. S. G. S.

Costs for January are:

Assaying	$ 8.00
Drilling	7,772.35
Fixed costs	733.80
Total	$ 8,514.15

Very truly yours,

LA SAL MINING & DEVELOPMENT CO.

Harry Schell

Harry Schell, Mining Engineer

Approved by: Donald J. Delicate
Superintendent of Mines

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 2 (N,X)
Inclination Vertical Bearing —
Total depth 546
Collar elev. — T 6901.7 P
Area La Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N95266.8 E98874.9
Sec. 27 T. 29½S R. 24E
Co., State San Juan, Utah

Claim Robin Roy
Date completed 1-4-57
Date logged 1-5-57
Logged by H. L. S.

Rev		
Ed		

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Cbn. ____

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
522-533.5	11.5			90	MS	GY	VF	N			
537.7	4.2			100	CG	GY	C	A	✓	P	Abundant Muscovite R Formation
538.8	1.1			100	SS	GY	MF	A			Abundant biotite
544.1	5.3			100	SS	BR	MF	A			Abundant biotite
546.5	2.4			95	SS	GY	MF	A			Abundant biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 838917

Hole No. 2

GEOLOGIC AND ASSAY LOGS

Drill-hole No. 3 (NX)
Inclination Vertical Bearing —
Total depth 548 ½
Collar elev. — T 6877.3 P
Area La Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N95226.0 E98649.2
Sec. 27 T. 29½S R. 24E
Co., State San Juan, Utah

Claim Robin Rex
Date completed 1-7-57
Date logged 1-8-57
Logged by H. L. S.

Rev		
Ed		

Summary of log ; OBSS from to thick ; SS color ; MS ; Cbn.

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
528-538	10.7			95	MS	GY	VF	N			Ft Formation
548.5	9.8			100	SS	GY-Br	MF	A			Abundant Biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835917

Hole No. 3

GEOLOGIC AND ASSAY LOGS

Drill-hole No. 4 (N X)
Inclination Vertical Bearing —
Total depth 621
Collar elev. — T 6908.4 P
Area La Sal Drilling Project (OMOA)

Map coord (T) —
Map coord (P) N 95214.4 E 98423.8
Sec. 27 T. 29½ S R. 24 E
Co., State San Juan Utah

Claim Robin Roy
Date completed 1-13-57
Date logged 1-13-57
Logged by H. L. S.

Rov		
Ed		

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Cbn. ____

Graphic log

DRILL LOG		LITHOLOGIC LOG										
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
580-581.7	1.7			100	SS	GY	C	A	L	P	Abundant Muscovite & Carbon
582.2	.5			100	MS	GY	VF	A			
588.5	6.1			100	SS	GY	F	A			Abundant Muscovite
590.2	1.9			100	SS	GY	M	A	L	G	Abundant Muscovite & Carbon
591.9	1.7			100	SS	GY	F	A			Abundant Muscovite
593.1	1.2			100	SS	GY	M	A	L		Abundant Muscovite
594.5	1.2			100	CG	GY	C	A	L	P	Abundant Muscovite
595.7	1.4			100	SS	GY	F	A			Abundant Muscovite
597.7	2.0			100	SS	GY	F	S			
598.8	1.1			95	MS	GY	F	A			Abundant SS Granules in MS
613.1	14.3			95	MS	GY-Br	VF	A			Br Fracturing
615.4	2.3			95	SS	GY Br	M F	A			Abundant barite
621.0	5.6			95	SS	Br	M F	A			Abundant barite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		y-ray	y-ray (%) or Field est			
Base	Thick	U_3O_8 °	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 °	V_2O_5/Cu	$CaCO_3$	Base	Thick	% U_3O_8	Base	Thick	U_3O_8	V_2O_5

°Assays marked "o" are from lab gamma-ray readings

GPO 839917

Hole No. 4

GEOLOGIC AND ASSAY LOGS

[redacted]

Drill hole No. 2 (MK)
Inclination Vertical Bearing —
Total depth 600 ft.
Collar elev. — T 6799.3 P
Area La Sal Drilling Project (DOMEA)

Map coord (T) —
Map coord (P) N 96164.6 E 291520.8
Sec. 27 T. 29 S R. 24 E
Co., State San Juan, Utah

Claim Alice
Date completed 1-11-57
Date logged 1-11-57
Logged by H. L. S.

Rev		
Ed		

Summary of log _____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Con. ____

Graphic log

DRILL LOG

Depth	Rec ft.
560.6	5.8
566.2	.4
571.3	5.1
572.3	1.0
573.3	1.0
573.9	.4
574.1	.8
575.8	1.1
576.8	1.0
578.9	2.1
584.0	5.1
589.0	5.0
590.8	1.8
600.5	9.7

LITHOLOGIC LOG

Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Con	MS in SS	Remarks
		100	SS	GY	M	A	—	P	Abundant Muscovite & carbon
		100	MS	GY	VF	N			
		100	SS	GY-Br	F	A	—	G	Abundant Muscovite
		100	MS	GY-Br	VF	N			
		100	SS	GY	M	A			Abundant Muscovite
		99	MS	GY	VF	N			
		100	SS	GY	F	S			
		100	SS	GY	M	A	—	P	Abundant Muscovite
		100	SS	GY	F	S	—		
		95	MS	GY	VF	N			
		95	SS	Br-YW	F	A		G	Abundant Muscovite
		100	SS	Br-GY	M F	A		P	Abundant Muscovite
		100	SS	GY	M C	A	—	G	Abundant Muscovite & carbon
		100	SS	Br-GY	M F	A			Abundant Matrix

Sample Base	Sample Thick	Lab assay (%) U_3O_8 °	Lab assay (%) V_2O_5/Cu	Lab assay (%) $CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 °	Lab assay (%) V_2O_5/Cu	Lab assay (%) $CaCO_3$

Interval Base	Interval Thick	γ-ray % eq U_3O_8	γ-ray (%eq) or Field est Base	γ-ray (%eq) or Field est Thick	γ-ray (%eq) or Field est U_3O_8	γ-ray (%eq) or Field est V_2O_5

°Assays marked "e" are from lab gamma-ray readings

GPO 855937

Hole No. 2

GEOLOGIC AND ASSAY LOGS

[redacted]

Drill-hole No. 3 (NX)
Inclination Vertical Bearing —
Total depth 620
Collar elev. — T 6781.9 P
Area La Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N96123.5 E97325.1
Sec. 27 T. 29½ S R. 24 E
Co., State San Juan, Utah

Claim Alice
Date completed 1-9-57
Date logged 1-9-57
Logged by H. L. S.

Rev		
Ed		

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Cbn. ____

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
578-578.8	.8			100	SS	GY	M	A	✓		Abundant Muscovite
579.2	.4			100	CG	GY	C	A	✓	P	Abundant Muscovite
580.5	1.3			100	SS	GY	M	A	✓		Abundant Muscovite
581.0	.5			100	CG	GY	C	A	✓	P	Abundant Muscovite
581.4	.4			100	MS	GY	VF	N			
582.3	.9			100	SS	GY	M-F	A			Abundant Muscovite
583.2	.9			100	St	GY	F	S	✓		
584.4	1.2			100	SS	GY	M	A	✓		Abundant Muscovite
585.7	1.3			100	MS	GY	VF	N			
587.5	1.8			100	SS	GY	F	A	✓		Abundant Muscovite
590.2	2.7			95	MS	GY	VF	N			
596.4	6.2			100	SS	GY	F	A	✓	P	Abundant Muscovite
597.5	1.1			100	MS	GY	VF	N			
597.9	.4			100	SS	GY	C	A	✓	G	Abundant Muscovite
598.5	.6			100	MS	GY	VF	N			
599.4	.9			100	SS	GY	M	A	✓	P	Abundant Muscovite
600.1	.7			95	MS	GY	VF	N			
600.4	3			100	CG	GY	C	A	✓	P	Abundant Muscovite
602.6	2.2			95	MS	Br-GY	VF	N			
605.0	2.4			100	SS	Br-GY	M	A	✓	P	Abundant Muscovite Pc Formation
620.0	15.0			100	SS	Br-GY	M-F	A			Abundant biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 838917

Hole No. 3

GEOLOGIC AND ASSAY LOGS

Drill-hole No. 4 (NX)
Inclination Vertical Bearing —
Total depth 646
Collar elev. — T 6776.4 P
Area La Sal Drilling Project (DMEA) Co., State San Juan, Utah

Map coord (T) —
Map coord (P) N 76079.7 E 97062.3
Sec. 27 T. 29½S R. 24 E

Claim Alice
Date completed 1-5-57
Date logged 1-7-57
Logged by H. L. S.

Rev		
Ed		

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn. _____

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
608.-608.7	.9			100	SS	Br	F	A			Abundant Muscovite
616.2	7.3			96	SS	GY	M	A	-	P	Abundant Muscovite
617.1	.9			100	CG	GY	C	A	-	P	Abundant Muscovite
617.6	.5			100	MS	GY	VF	N			
618.9	1.3			100	SS	GY	M	A	-		Abundant Muscovite
619.3	.4			100	MS	GY	VF	N			
620.5	1.2			100	SS	GY	M	A			Abundant Muscovite
624.5	4.0			95	St	GY	F	A			Abundant Muscovite
626.3	1.8			95	MS	GY	VF	N			
632.6	6.3			100	CG	GY	MC	A	-	P	Abundant Muscovite & carbon
640.0	7.4			95	MS	GY-Br	VF	N			Fe Formation
646.0	6.0			100	SS	GY-Br	MF	A			Abundant biotite.

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 838917

Hole No. 4

GEOLOGIC AND ASSAY LOGS

[redacted]

Drill-hole No. 3 (NX)
Inclination Vertical Bearing —
Total depth 759
Collar elev. — T 6896.7 P
Area La Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N952233 E97414.5
Sec. 27 T. 29½S R. 24E
Co., State San Juan, Utah

Claim Susie
Date completed 1-2-57
Date logged 1-5-57
Logged by H. L. S.

Rev		
Ed		

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Cbn. ____

Graphic log

DRILL LOG

Depth	Rec ft.
725-725.9	.9
728.0	2.1
728.9	.9
729.6	.7
738.3	8.7
739.7	1.4
740.3	.6
741.0	.7
753.7	12.7
755.6	1.9
759.0	3.4

LITHOLOGIC LOG

Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
		100	ST	GY	F	S			
		100	SS	GY	MF	A	✓		Abundant Muscovite
		100	MS	GY	VF	N			
		100	SS	GY	MC	S		P	
		95	MS	Br	VF	N			
		100	SS	GY	M	A	✓		Abundant Muscovite
		100	MS	GY	VF	N			
		90	MS	Br	VF	N			
		95	MS	Br-GY	VF	N			
		100	SS	Br	F	A		G	Abundant biotite
		100	SS	Br	MF	A			Abundant biotite

Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 839917

Hole No. 3

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

Drillhole No. 2 (N1)
Inclination Vertical Bearing —
Total depth 551
Collar elev. — T 6775.9 P
Area La Sal Drilling Project (UMA)

Map coord (T) —
Map coord (P) [illegible]
Sec. 27 T. 28 S R. 24 E
Co., State San Juan, Utah

Claim Richard
Date completed 1-15-57
Date logged 1-15-57
Logged by H. L. S.

Row		
Ed		

Graphic log

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn. _____

LITHOLOGIC LOG

DRILL LOG Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
550-550.5	.5			100	SS	GY	M	B	—	G	Abundant Muscovite
551.7	1.2			100	SS	GY	F	A			Abundant Muscovite
552.4	.7			100	CG	GY	C	A	—	P	Abundant Muscovite
554.6	2.2			100	MS	GY	VF	M			
540.5	5.9			100	CG	GY	M-C	A	—	P	Abundant Muscovite Fossils
542.9	2.4			100	MS	GY	M-F	S			Abundant SS Granules & Pyrite
551.0	8.1			100	SS	Pr GY	M	A			Abundant Pyrite

Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5	CaCO3	Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5	CaCO3	Interval Base	Interval Thick	γ-ray ‰ U_3O_8	γ-ray (‰) or Field cal Base	Thick	U_3O_8	V_2O_5

*Assays marked "o" are from lab gamma-ray readings

ore 0.0017

Hole No. 2

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole ✓

Barren Hole _____

Property La Sal Claim Robin Roy Hole No. 2 Dates Drilled 12-31-56 1-4-57 Driller Costanza

Collr: N 95266.8 E 98874.9 Elev. 6901.7 Total Depth 546 Plugged Depth 522 Total Core 24

Depth Jw/Trc 122 Depth Trc/Pc 538 Total Trc Thickness 416 Trc Cored 30 Pc Cored 8

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade
	Probe						
532.0 - 533.5	.04						
533.5 - 534.0	.18						
534.0 - 534.5	.18						
534.5 - 535.0	.18						
535.0 - 535.5	.18						
535.5 - 536.0	.11						
536.0 - 536.8	.11						
536.8 - 537.3	.04						
537.3 - 538.0	.02						
533.5 - 535.5	2.0'	100	0.166	0.19			
535.5 - 536.0	1.5'	100	0.038	0.12			

REMARKS:

Probed 1-5-57 on 4th Scale
Depth Probed - 546
Equipment used:
Babbel Probe & Reel Assembly
Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property Lisa Sal Claim Robin Ray Hole No. 3 Date Drilled 1-4-57 to 1-7-57 Driller Costanza

Collar: N 95226.0 E 98649.2 Elev. 6877.3 Total Depth 548½ Plugged Depth 528 Total Core 20½

Depth Jw/Trc 128 Depth Trc/Pc 539 Total Trc Thickness 411 Trc Cored 11' Pc Cored 9½'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS: Probed 1-8-57 on 4th Scale
Depth Probed - 548'
Equipment used:
Bobbal Probe & Reel Assembly
Bobbal Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Robin Ray Hole No. 4 Dates Drilled 1-10-57 1-13-57 Driller Costanzo

Collar: N 95311.4 E 98423.8 Elev. 6908.4 Total Depth 621 Plugged Depth 580 Total Core 41

Depth Jw/Trc 188 Depth Trc/Pc 613 Total Trc Thickness 425 Trc Cored 33' Pc Cored 8'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 1-13-57 on 4th Scale

Depth Probed - 619

Equipment Used:

Babbel Probe & Reel Assembly

Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Alice Hole No. 2 Dates Drilled 1-9-57 1-11-57 Driller Costanzo

Collar: N 96164.6 E 97570.8 Elev. 6793.3 Total Depth 600½ Plugged Depth 560 Total Core 40½

Depth Jw/Trc 160 Depth Trc/Pc 591 Total Trc Thickness 431 Trc Cored 31' Pc Cored 9½'

Depth	Interval & Barren	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Count % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 1-11-57 on 4th Scale

Depth Probed - 600'

Equipment Used:

Babbel Probe & Reel Assembly

Babbel Geiger Counter Model 600-A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Alice Hole No. 3 Dates Drilled 1-7-57 1-9-57 Driller Costanza

Collar: N 96123.5 E 97325.1 Elev. 6781.9 Total Depth 620 Plugged Depth 578 Total Core 42

Depth Jv/Tre 17.8 Depth Tre/Pe 605 Total Tre Thickness 427 Tre Cored 27' Pe Cored 15'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Chem % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 1-9-57 on 4th Scale

Depth Probed - 619

Equipment used:

Babbel Probe + Reel Assembly

Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Alice Hole No. 4 Dates Drilled 1-2-57 1-5-57 Driller Fryer

Collar: N 96098.7 E 97062.3 Elev. 6776.4 Total Depth 646 Plugged Depth 608 Total Core 38

Depth Jw/Trc 208 Depth Trc/Pc 640 Total Trc Thickness 4.32 Trc Cored 32' Pc Cored 6'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS: Probed 1-5-57 on 4th Scale
Depth Probed - 645
Equipment used:
Babbel Probe + Reel Assembly
Babbel Geiger counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Susie Hole No. 3 Dates Drilled 12-31-56 1-2-57 Driller Fryer

Collar: N 95223.3 E 97414.5 Elev. 6896.7 Total Depth 759 Plugged Depth 725 Total Core 34

Depth Jw/Trc 325 Depth Trc/Pc 754 Total Trc Thickness 429 Trc Cored 29' Pc Cored 5'

Depth	Interval & Grade	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Direct % U_3O_8 Chemical	Composite Thickness & Grade
	Probe						
758.5-759	.005						

REMARKS:

Probed 1-2-57 on 4th Scale

Depth Probed 759'

Equipment used:

Babbel Probe + Reel Assembly

Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Richard Hole No. 2 Dates Drilled 1-12-57 1-15-57 Driller Costanza

Collar: N 97053.7 E 97335.2 Elev. 6775.9 Total Depth 551 Plugged Depth 530 Total Core 21

Depth Jw/Trc 134 Depth Trc/Pc 543 Total Trc Thickness 409 Trc Cored 13 Pc Cored 8

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 1-15-57 on 4th Scale

Depth Probed - 547'

Equipment used:

Babbel Probe & Reel Assembly

Babbel Geiger Counter Model 600A Serial 832

FINAL DISTRIBUTION
MADE FEB 11 1957

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

Administrative Audit Difference Statement

La Sal Mining & Development Company
Box 563
Moab, Utah

Date: February 8, 1957
Payee's Reference: November And December 1956

DMEA-4294

Gentlemen:

Upon examination of the above Payee's Reference a difference was found which made it necessary to suspend your account accordingly:

Amount Claimed	$	34,215.18
Difference	$	152.38
Amount Approved	$	34,062.80

The reason for the difference was due to:

Disallow:

1. Tractor-Dozer Operation:
   Claimed 66½ hours at a total cost of 720.00
   Allowable cost, 52½ hours @ 12.00 per hr. 630.00
   Amount to be disallowed 90.00

2. Core Drilling:
   Claimed 1018.5 ft. @ 6.00 per ft. 6,111.00
   Allowable cost per contract 400-600 interval 51.5 ft. @ 4.75 per ft. 244.62
   600-800 interval 967 ft @ 6.00 per ft. 5,802.00
   Acceptable core drilling cost. 6,046.62
   64.38

   Total Amount to be disallowed. 152.38

Any reclaim for deductions made above must be supported by the ORIGINAL of this form.

Very sincerely yours,

N. E. Stokes
Audit Section

EXTRA COPY
DMEA
RECEIVED FEB 13 1957

DATE	INITIALS	CODE
2/13	FEB	110
2-14	Kenneth	700

R-III-B & F Form No. 4
4-15-52 D

224 New Customhouse
Denver 2, Colorado

February 7, 1957

Memorandum

To: T. A. Christensen

From: Executive Officer, DMEA Field Team, Region III

Subject: DMEA Docket 4294 (Uranium) Contract Idm-K1010
La Sal Mining and Development Co. (La Sal Project)
San Juan County, Utah - Operator's Monthly Progress
Report for the period November-December 1956

Enclosed are the original and four copies each of Forms MF-104 and MF-104A, Operator's Narrative Report, and Engineer's Report for the above period.

Except as otherwise indicated below, we consider that the Operator has complied with the intent of the contract, and the work for which payment is recommended is acceptable to the Government. Payment is recommended on the following basis, contingent on your verification of the correctness of applicable rates and arithmetical accuracy of computations.

1. Tractor-Dozer Operation:
Amount reported by Operator, 66½ hours
at total cost of----------$ 728.00
Allowable cost, 52½ hours at $12.00
per hour as billed by subcontractor----------630.00
Amount to be disallowed----------$ 98.00

Core Drilling:
Amount reported by Operator, 1018.5 feet
at $6.00 per foot----------$ 6111.00
Allowable cost per contract 400-600
interval, 51.5 ft. @4.75/ft.----------244.62
600-800 interval, 967 ft.@6.00/ft.---5802.00
Total acceptable core drilling cost--------6046.62
Amount to be disallowed----------$ 64.38

Total amount to be disallowed----------$162.38

EXTRA COPY
DMEA
RECEIVED FEB 12 1957

DATE	INITIALS	CODE

Reconciliation With Amount Reported by the Operator on Form MF-104 for November - December 1956

Amount reported on Form MF-104 for November-December 1956--$34,245.18
Amount to be disallowed----------162.38
Total accepted cost----------$34,082.80

Government participation at 75 percent----------$25,562.10

REMARKS

Date of Report----------January 4, 1957
Date Received in Field Office------January 11, 1957
Date Received in Region Office-----January 25, 1957

Original signed by
W. M. TRAVER

W. M. Traver

Enclosures

JDC:ytl
cc
Sec. Op. Comm. (2)
Shaw (2)
Harshman) w/copy of engr's. report
Townsend)
MF-104 File R-1010
Chron.

REGION III

DMEA
DEPARTMENT OF THE INTERIOR

JAN 25 1957
REGION III
DENVER, COLORADO

Building 20
Denver Federal Center
Denver 2, Colorado
January 25, 1957

Memorandum

To: Executive Officer, DMEA Field Team, Region III

Through: John F. Shea
Supervising Mining Engineer

From: N. H. Salsbury

Subject: Docket DMEA 429A (Uranium) Contract Ida-21010, La Sal Mining and Development Co. (La Sal Project) San Juan County, Utah. -- Progress report for November - December 1956

Operations under the subject contract were inspected on January 10, 1957 in company with Harry Schell, project engineer for the operator.

On the date of inspection, 31 out of 34 authorized Stage I holes had been completed at locations in accordance with contract provisions.

The operator has submitted in quintuplicate Forms HF-104 and 104A, a narrative report, geologic and radiometric logs, map of hole locations, together with one copy each of invoices for drilling and bulldozing, driller's logs, and certified assay certificates. Documentation is complete and satisfactory.

FILE COPY
DMEA
RECEIVED
1957
DATE | INITIALS | CODE

The following claims for November - December 1956 operations are submitted covering 17,540 feet of nonscore drilling and 1,018.5 feet of core drilling in 26 holes.

Independent Contracts	
Tractor-dozer operation, 66.5 hours	$728.00
NON Core drilling	
10,400 feet in 0-400 foot range at $1.25 per foot	13,000.00
5,148 feet in 400-600 foot range at $1.50 per foot	7,722.00
1,992 feet in 600-800 foot range at $1.95 per foot	3,884.40
Core drilling	
1,018.5 feet at $6.00 per foot	6,111.00
Fixed Costs	
Incidental allowance	
18,558.5 feet at $0.15 per foot	2,783.78
Chemical analyses	
4 at $4.00 each	16.00
Total of November December 56 claims	$34,245.18

The unit prices for drilling items claimed are based on the invoiced prices from Pioneer Drilling Company, the subcontractor. Attention is called to the fact that the unit prices are the same as those in the subject contract rather than at the rates in the bid by Pioneer Drilling Company which the operator submitted on November 15, 1956, with a request for an amendment to the contract to revise the unit prices. The request was denied by the Washington office.

Claims for drilling are in accordance with footages in the subcontractor's invoices, driller's daily logs, and geologic logs, as summarized in Table 1.

All claims are in accordance with the provisions of the subject contract and amendment No. 1 thereto except as follows:

1. The claim for tractor-dozer operation in the amount of 66.5 hours is actually the combined hours of operation for a tractor dozer, and for a compressor and rock drill at an invoiced cost of $725.00. There is no provision in the contract for payment for use of a compressor and rock drill although such an item was recommended in the BMEA report of examination. The claim for tractor-dozer operation in excess of 52.5 hours in accordance with the contract, is recommended for disallowance in the amount of $98.00.

2. A total of 1018.5 feet of core drilling is invoiced and claimed at $6.00 per foot, the contract rate for core drilling in the 600-800 foot range. Actually 51.5 feet of this drilling was in the 400-600 foot range, a category not provided for in the original contract. By the terms of Amendment No. 1, a unit price of $4.75 per foot has been established for core drilling in the 400-600 foot range. The excess claimed for 51.5 feet of core drilling in the 400-600 foot range above the cost at $4.75 per foot, $64.38, is recommended for disallowance.

Depths of holes and amount of coring were checked by inspecting the core stored in a shed on the property, and by comparing with the probed depth of holes according to the BMEA barmaby unit. These were in reasonable agreement with the depths reported by the operator, and supported by his geologic logs, driller's logs, and driller's invoices. However, the BMEA barmaby unit did not reach full depth in some holes which presumably had caved.

Monthly totals in the MF-104 and 104A forms are correct and all data is entered correctly except that the total authorized amount for each contract item is shown in the last column of Form MF-104A rather than the authorized unit cost.

Results of exploration to date have been largely negative. Slight mineralization encountered in Hole No. 4 on the Thirty-five claim and in Hole No. 4 on the Thirty-four claim does not appear to warrant effretting. One hole drilled in January 1957, No. 2 on the

Robin Roy claim, shows mineralization. Chemical analyses of core have not been received yet and will be in the operator's January 1957 report.

Payment of $25,562.10 or 75 percent of the amount claimed in November - December 1956, $34,245.18, less $162.38 disallowed, is recommended for approval.

R. R. Rousselmann for
M. H. Salsbury
Mining Engineer

MHS/mr
cc: 6
Idm-K1010
Chron
MHSalsbury

TABLE 1

Drilling Data November-December 1956, La Sal Project Docket No. DMEA 4294, Contract Ida-[illegible]

Claim	Hole No.	Non Core Footage 0-400 ft.	Non Core Footage 400-600 ft.	Non Core Footage 600-800 ft.	Core Footage 400-600 ft.	Core Footage 600-800 ft.	Total Depth feet
Susie	2	400	200	118		41.5	759.5
Robin Roy	5	400	200	115		31.0	746.0
Robin Roy	6	400	200	108		49.0	757.0
Billie Mike	2	400	200	96		51.5	747.5
Billie Mike	3	400	200	105		40.0	745.0
Billie Mike	4	400	200	118		40.5	758.5
Hudson	2	400	200	72		19.0	691.0
Hudson	3	400	200	78		37.0	715.0
Hudson	4	400	200	33		47.5	680.5
Hudson	5	400	200	73		40.0	715.0
Thirty-five	3	400	200	126		39.0	765.0
Thirty-five	4	400	200	108		32.5	740.5
Thirty-four	3	400	200	108		57.0	765.0
Thirty-four	4	400	200	119		40.0	759.0
Thirty-four	5	400	200	125		37.5	762.5
Richard	3	400	168	---	31.5		599.5
Richard	4	400	180		20.0	40.0	640.0
Richard	5	400	200	8		40.0	648.0
Richard	6	400	200	28		40.0	668.0
Richard	7	400	200	54		20.0	674.0
John David	2	400	200	16		37.0	653.0
John David	3	400	200	40		37.5	677.5
John David	4	400	200	65		39.0	704.0
John David	5	400	200	38		40.0	678.0
John David	6	400	200	113		40.0	753.0
John David	7	400	200	126		30.5	756.5
Totals		10,400	5,148	1,992	51.5	987.0	18,578.5

Mineralized From Feet	To Feet	Interval feet	Assay Radiometric Percent eU_3O_8	Chemical Percent U_3O_8	V_2O_5	DMEA Barnaby Unit1/ Percent eU_3O_8	Logging Depth ft.	Classification of hole by Opr.
							754.0	Barren
								Barren
								Barren
							745.0	Barren
							742.0	Barren
								Barren
								Barren
								Barren
							675.0	Barren
							707.[illegible]	Barren
756.0	756.5	0.5	0.004			Barren	765.0	Barren
722.0	727.0	5.0	0.01-0.10				739.0	Mineralized
723	724	1.0		0.031	0.09			
724	724.5	0.5		0.146	0.34			
724.5	725.5	1.0		0.046	0.24			
						Barren	762.4	Barren
746	751	5.0	0.005-0.35					Mineralized
747.8	748.8	1.0		0.034	0.09			
						Barren	762.0	Barren
						Barren	599.0	Barren
620	620.5	0.5	0.005			Barren	637.0	Barren
						Barren	642.4	Barren
						Barren	662.0	Barren
						Barren	673.7	Barren
						Barren	653.0	Barren
665	666	1.0	0.004			Barren	676.6	Barren
						Barren	704.0	Barren
						Plugged not logged		Barren
751.0	751.4	0.4	0.005			Plugged at 731.0		Barren
						Plugged at 734.0		Barren

1/ Probing of all holes by the DMEA Barnaby unit has been done or attempted, but interpretations of results on all holes are not available as yet.

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Form MF-104 (Rev.)
(April 1952)

Budget Bureau No. 42-R1036.5

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of November & December 1956 Docket No. DMEA 4294 Contract No. Idm-1010
Operator's Name La Sal Mining & Development Company Minerals Uranium
Address Box 563 Moab, Utah
Contract Amount, $34,245.18 Government Participation: 75% Amount, $25,683.88

ITEMS OF COSTS	FOR OPERATOR'S USE			FOR GOVERNMENT USE ONLY		
	Monthly Total	Totals Previously Reported	Totals To Date	Approved Monthly Total	Approved Totals Previously Reported	Approved Totals To Date
(1) ~~Independent~~ Short Form Contracts:						
Drilling	30,717.40	None	30,717.40			
Bulldozing	728.00	None	728.00			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision						
Technical Services						
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental						
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	16.00	None	16.00			
Payroll Taxes						
Liability Insurance						
Fixed Unit Cost	2,783.78	None	2,783.78			
(8) Contingencies (specify):						
TOTALS	34,245.18	None	34,245.18	34,082.80	—	34,082.80

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I certify that the above bill is correct and just and that payment therefor has not been received.
Date 1/4/57 *Payee La Sal Mining & Devel. Co.
Per Donald J. Delicate Title Supt. of Mines

*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.

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

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

$25,562.10

Signature [illegible]
(Authorized Certifying Officer)

Date 2/8/57 Vou. No. DMA 57-87
(See other side)

(For Government use only)

CERTIFICATION BY GOVERNMENT REPRESENTATIVE:

I certify that to the best of my knowledge and belief the contractor submitting this voucher is operating a Defense Minerals Exploration Administration project under Contract No. DMEA 1010 in accordance with the terms of the contract.

Signature [illegible] $25,562.10 [illegible] Title Mining Engineer Date 1-16-57

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature W. M. Jones Title Executive Officer Date FEB 7 1957

MONTHLY REPORT OF OPERATOR

The Operator (Contractor) of an exploration project is required to make a monthly report to the Government through the Regional Executive Officer. This report consists of three parts as follows:

(a) *Form MF-104—Operator's Monthly Report and Voucher.*—This form details expenditures and constitutes a voucher for reimbursing the Operator for the Government's share of costs;

(b) *Form MF-104A—Operator's Unit Cost and Progress Report.*—This is a statistical report of expenditures which shows costs for the various types of operation; and

(c) *Narrative.*—A concise narrative description of progress made, results accomplished, and any unusual difficulties encountered must be furnished as an attachment to this Report and Voucher. Wherever possible, the narrative is to be illustrated with maps or sketches showing formations penetrated and location and assays of samples taken as well as advances in workings. In the case of diamond drilling or churn drilling, the location and inclination of holes is to be shown on a map; logs and assays also are to be submitted.

The Monthly Report of Operator should be prepared in an original and four copies all of which must be sent to the Executive Officer of the Region not later than the 15th of the month following.

Preparation of Form MF-104—Operator's Monthly Report and Voucher.—All the applicable spaces in Form MF-104 should be filled in by the Operator, and the Operator or his agent should sign the certification in the lower left corner of the form.

The items of costs are arranged in the order they appear in Article 6 (a) of Form MF-200 (Revised February 1952), however, this form is readily adaptable for use in reporting activities under other contract forms.

Under Item (1) delete words "Short Form" if the contract is a sub-contract under Form MF-200; and delete word "Independent" if the contract reported is on Form MF-200 (A). Also, report work paid for on a unit basis under contract Form MF-200 as though it were performed under an independent contract.

Under Item (2) include labor, supervision and technical services incurred for the exploratory operations. Do not include labor, supervision and technical services used for work performed under items (5) and (6).

Under Item (3) include the costs of material and supplies used in the project other than that used under items (5) and (6).

Under Item (4) appear the three types of operating equipment expenditures, that is, rental, purchase and depreciation. The expenditures made for renting equipment belonging to a third party will be reported under "Rental". The amount paid or duly obligated for payment for the purchase of equipment will be reported under "Purchase". The amount of expenditures due the Operator to reimburse him for depreciation of equipment owned will be reported under "Depreciation".

Item (5) comprises costs of labor, supervision, technical services, materials, etc., which are used in the initial rehabilitation and repair of existing buildings, installations, fixtures, and equipment. These costs, therefore, should not be reported under items (2) and (3).

Item (6) includes the labor, supervision, technical services, materials, etc., used in the installation or construction of new buildings, fixed improvements, etc., necessary for the project. These costs, therefore, should not be reported under items (2) and (3).

Item (7) covers miscellaneous types of expenditure such as payroll taxes, liability insurance, workmen's compensation insurance, repairs to equipment and sampling and analysis. Only that part of payroll taxes, liability insurance and workmen's compensation which are paid by the operator should be reported under item (7). The share paid by the employee as a payroll deduction is to be included under item (2) as labor costs.

Item (8) includes any unforeseen costs not included in the other seven categories.

The original of Form MF-104 when submitted for reimbursable expenses incurred under contract Form MF-200 must be supported by original documentation or by certified copies of purchase orders, payrolls or transcripts of payrolls, unless such documentation has been waived by the Regional Executive Officer. This certification may be stated thus, "Certified True Copy (or Transcript)", followed by appropriate signature. If the Executive Officer of the Region determines that a contract under Form MF-200 should have an "on-site" audit, that is, a Government auditor should make an audit of the Operator's books and records of account, the Operator need not support his monthly voucher with original or certified documents except in cases of equipment purchases whose individual costs exceed $50.00. In these cases the original or a certified copy of the purchase order or invoice should be attached to the Monthly Voucher. N. B.—Only the *original* of Form MF-104 is required to be documented. The four copies of Form MF-104 are not to be thus supported.

Form MF-104 submitted for reimbursement under fixed price contracts on Form MF-200 (A), however, are not required to be supported by documentation of any kind. The Operator will submit his claim under item (1) of Form MF-104 by deleting as stated above the word "Independent" and by showing the number of feet or other units immediately after the appropriate descriptive word, such as, drilling, bulldozing, crosscutting, drifting, etc., and giving the "Monthly Total" amount due. "Totals Previously Reported", and "Totals to Date" columns should also be filled in.

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of November & December 1956 Docket No. DMEA 4294 Contract No. Tdm-1010
Operator's Name La Sal Mining & Development Company Minerals Uranium
Address Box 563, Moab, Utah

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
Stage I			Total ft.			Actual Cost	Units	Unit Costs
Drifting Non-Core 0-400	ft	13,000.00	10,400	13,000.00	10,400	13,000.00	13,600	17,000.00
Crosscutting " 400-600	ft	7,722.00	5,148	7,722.00	5,148	7,722.00	6,800	10,200.00
Raising " 600-800	ft	3,884.40	1,992	3,884.40	1,992	3,884.40	2,920	5,694.00
Shafts Core	ft	6,111.00	1,018½	6,111.00	1,018½	6,111.00	1,700	10,200.00
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching								
Test Pits Assay Stage I	ea.	16.00	4	16.00	4	16.00	125	500.00
Roads and Trails Drill Sites	hr.	728.00	66½	728.00	66½	728.00	100	1,200.00
Fixed unit Costs	0.15/kt	2,783.78	18,558½	2,783.78	18,558½	2,783.78	25,020	3,753.00
TOTAL DISTRIBUTED COSTS		34,245.18		34,245.18				TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		34,245.18		34,245.18				48,547.00

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

Date 1/4/57 Operator La Sal Mining & Devel. Co.
Per Donald J. Delicate Title Supt. of Mine

M. N. Lakeburg
REMARKS

NOTE.—Title 18, U. S. Code (Crimes), section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

(Instructions on reverse)

(For Government use only)

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INSTRUCTIONS

Preparation of Form MF-104A—Operator's Unit Cost and Progress Report.—Applicable places on Form 104A should be filled in by the Operator. The purpose of this form is twofold as follows: (1) to furnish the supervising engineers and other administrators with statistical information necessary to better determine the progress of the project; and (2) to furnish more permanent information on mining costs for future use. The more important phases of operation on which permanent information is desired have been outlined in the form. There are blank lines, however, for those unusual phases which may need to be reported for a particular project. It will be necessary for the Operator to distribute his costs among the applicable phases reported with the exception of three items the costs of which are not to be distributed by the Operator. These three items are: "Operating Equipment Purchased", "Initial Rehabilitation and Repairs", and "New Buildings, Improvements, etc." The reason for not distributing these items on a monthly basis is doubtless clear to the Operator, since such distribution might well overstate the cost for any one month or period short of the entire contract period.

Form MF-104A has been designed to tie in with Form MF-104 for both monthly and cumulative costs. The "Total Costs" on Form MF-104A for each month should equal the monthly "Total Costs" as reported on Form MF-104. This is also true of the "Total Costs To Date".

In preparing Form MF-104A, it will be necessary frequently to distribute certain costs over a number of items. For instance, supervisory and engineering costs may have to be distributed over several phases, such as, drifting, crosscutting, raising, etc., provided that these items were reported active for the month. Such distributions should be made on the basis of time spent on the various phases, on man days of labor charged to such phases, or on some other equitable basis. "Operating Equipment", "Initial Rehabilitation and Repairs", and "New Buildings Improvements, etc.", will be distributed to the several phases of the project by the Washington Office of DMEA at the close of the project if determined necessary. The last two columns headed "Authorized by Contract" will be filled in by the Operator if such information is found in the contract. This information is usually a part of Exhibit "A" of the contract. A space for remarks has been provided for the use of the Operator to call attention to any unusual circumstances causing excessive or disproportionate unit costs.

GPO 872894

LA SAL MINING & DEVELOPMENT CO.
MOAB, UTAH

EXTRA COPY
DMEA
RECEIVED FEB 13 1957

DATE	INITIALS	CODE

January 7, 1957

Mr. W. M. Traver, Executive Officer DMEA
Field Team, Region III
United States Department of the Interior
224 New Customhouse
Denver 2, Colorado

Subject: DMEA Exploration Project, Contract No. Idm - E1010; Docket No. 4294, La Sal Mining & Development Co. Narrative Report for the period November 5, 1956 to January 1, 1957

Dear Mr. Traver:

The above listed DMEA project was started in November, 1956, and consists of exploratory drilling for Uranium ore in the basal member of the Chinle formation. This project is located on property owned by the La Sal Mining & Development Co. in the Big Indian District, San Juan County, Utah.

DMEA Exploration Project

Access roads and drill sites for all of the drill holes in stage I have been completed. The drill holes were layed out by transit survey prior to the construction work on the roads and drill sites. After each hole is completed the drill hole is again surveyed and coordinates calculated.

The drilling consisted of exploration by non-core and core drilling to test the Moss Back member of the Chinle formation of Triassic age.

The holes were drilled non-core through the Wingate and upper Chinle formations to approximately 30 feet above the Cutler-Chinle contact and then core drilled to approximately 10 feet below the Cutler-Chinle contact but not more than 20 feet. The drilling depth averaged 713.4 feet and the cored sections averaged 39.2 feet. All drill holes were reamed and cased as necessary, and cored with an NX size bit.

The core was logged geologically and checked for radioactivity and sections that indicated significant mineralization were split into halves. One-half of the core was analyzed chemically for U_3O_8 and V_2O_5, and

the remaining one-half of said core section was boxed, labeled and stored for government inspection.

A map showing the location and extent of work performed during November and December is enclosed.

Twenty-six of the 34 holes in stage I have been completed for a total footage of 18,558½ feet. Of this total, 17,540 feet were non-core and 1,018½ feet were cored.

The holes were probed for radioactivity shortly after completion. A Babbel probe and reel assembly with an attached Babbel Geiger Counter, Model 600A, were used for the probing. Each hole was probed from the bottom upward to the surface and any radioactivity was recorded.

All of the work completed thus far has been in stage I. Of the 26 holes completed, 2 holes were mineralized, and 24 were barren as indicated by the map. Some of the holes showed a very weak mineralization as indicated by the attached probe records.

The core recovery thus far has been very satisfactory. Average recovery through December was 98 percent.

The area which showed the best mineralization and the greater thickness of sand in the ore zone, is the Northwest section of claims as shown on the map. Claims having the least mineralization and little sand in the ore zone are in the Southeast section.

The completion date for stage I is estimated to be approximately January 17, 1957.

Drilling speed during warm weather was very good but somewhat slower during December due to snow and cold weather.

The drillers encountered lost circulation in 3 of the 26 holes drilled. Due to dampness, water was used instead of air while plug drilling 11 of the completed holes.

The overall drilling progress has been satisfactory. The average drilling rate is approximately one hole every 36 working hours.

M-8/Pw

All completed holes have been probed by Mr. Bradley of the U.S.G.S.

Costs to date are:

Assaying	$ 16.00
Drilling	30,717.40
Roads and sites	728.00
Fixed costs	2,783.78
Total costs through December 31, 1956	$ 34,245.18

Very truly yours,

LA SAL MINING & DEVELOPMENT CO.

Harry Schell

Harry Schell
Mining Engineer

Approved by: Donald T. Delicate
Donald T. Delicate
Superintendent of Mines

HS:dn

Enclosures

CC: MHSalsbury
Grand Junction

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DATE	INITIALS	CODE

ABBREVIATIONS

ROCK NAME

CG - Conglomerate
SS - Sandstone
MS - Mudstone
ST - Siltstone
CS - Claystone

COLOR DESCRIPTION

WH - White
BR - Brown
R - Red
GY - Gray
BL - Blue
GN - Green
YW - Yellow
BK - Black
PP - Purple
L - Light
D - Dark

GRAIN SIZE

VF - Very Fine
F - Fine
MF - Medium Fine
M - Medium
MC - Medium Coarse
C - Coarse
VC - Very Coarse

RELATIVE ABUNDANCE

N - None
S - Sparse
A - Abundant

CLASSIFICATION OF MUSTONE IN SANDSTONE

P - Pebbles - more than 4MM or.15in
G - Granules - less than 4MM or .15 in

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Susie Hole No. 2 Dates Drilled 12-30-56 12-31-56 Driller Costanza

Collar: N 95219.5 E 97656.7 Elev. 6923.6 Total Depth 759½ Plugged Depth 718 Total Core 41½

Depth Jw/Trc 316 Depth Trc/Pc 751 Total Trc Thickness 435 Trc Cored 33 Pc Cored 8½'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 1-1-57 on 4th Scale

Depth Probed - 757

Equipment used:

Bobbel Probe & Reel Assembly

Bobbel Geiger Counter Model 600A Serial 852

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Robin Ray Hole No. 5 Dates Drilled 12-28-56 12-30-56 Driller Pos Tai 3 a

Collar: N 952533 E 981601 Elev. 6988.2 Total Depth 746 Plugged Depth 715 Total Core 31

Depth Jw/Trc 308 Depth Trc/Pc 733 ½ Total Trc Thickness 425 ½ Trc Cored 18 ½ Pc Cored 12 ½

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 12-30-56 on 4th Scale

Depth Probed - 745

Equipment used:

Babbel Probe & Reel Assembly

Babbel Geiger Counter Model 600 A Serial 932

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Robin Roy Hole No. 6 Dates Drilled 12-29-56 12-30-56 Driller Fryer

Collar: N 95255.5 E 97879.4 Elev. 6956.1 Total Depth 757 Plugged Depth 708 Total Core 49

Depth Jw/Trc 514 Depth Trc/Pc 744 Total Trc Thickness 430 Trc Cored 36 Pc Cored 13

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 12-31-56 on 4th Scale

Depth Probed - 756

Equipment used:

Babbel Probe & Reel Assembly

Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Billie Mike Hole No. 2 Dates Drilled 12-16-56; 12-18-56 Driller Castanza

Collar: N 94325.6 E 97790.9 Elev. 6931.6 Total Depth 747 1/2 Plugged Depth 696 Total Core 51 1/2

Depth Jw/Trc 303 Depth Trc/Pc 737 Total Trc Thickness 434 Trc Cored 41 Pc Cored 10 1/2'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 12-19-56 on 4th Scale

Depth Probed - 747'

Equipment used:

Babbel Probe + Reel

Babbel Geiger Counter Model 600-4 Serial 932

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Billie Mike Hole No. 3 Dates Drilled 12-17-56; 12-19-56 Driller Fryer

Collar: N 94315.3 E 97559.4 Elev. 6860.6 Total Depth 745 Plugged Depth 705 Total Core 40

Depth Jw/Trc 309 Depth Trc/Pc 743 Total Trc Thickness 434 Trc Cored 38' Pc Cored 2'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS: Probed 12-19-56 on 4th Scale
Depth Probed - 745
Equipment used:
Babbel Probe & Reel Assembly
Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Billie Mike Hole No. 4 Dates Drilled 12-18-56; 12-20-56 Driller Costanza

Collr: N 943379 E 974671 Elev. 6848.1 Total Depth 758½ Plugged Depth 718 Total Core 40½

Depth Jw/Trc 306 Depth Trc/Pc 745 Total Trc Thickness 439 Trc Cored 27 Pc Cored 13½

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS: Probed - 12-21-56 on 4th Scale
Depth Probed - 756'
Equipment used:
Babbel Probe & Reel Assembly
Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Hudson Hole No. 2 Dates Drilled 12-27-56 12-28-56 Driller Fryer

Collar: N 94380.J E 9910.7 Elev. 7042.5 Total Depth 691 Plugged Depth 672 Total Core 19

Depth Jw/Trc 276 Depth Trc/Pc 689 Total Trc Thickness 413 Trc Cored 17' Pc Cored 2'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 12-29-56 on 4th Scale

Depth Probed 690

Equipment used:

Babbel Probe & Reel Assembly

Babbel Geiger counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Hudson Hole No. 3 Dates Drilled 12-22-06 12-28-56 Driller Costanza

Collar: N 94402.6 E 98630.4 Elev. 6990.3 Total Depth 715 Plugged Depth 678 Total Core 37

Depth Jw/Trc 278 Depth Trc/Pc 709 Total Trc Thickness 431 Trc Cored 31' Pc Cored 6'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 12-28-56 on 4th Scale

Depth Probed - 715

Equipment used:

Babbel Probe & Reel Assembly

Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Hudson Hole No. 4 Dates Drilled 12-12-56 12-15-56 Driller Castanza

Collar: N 94370.4 E 98468.9 Elev. 6923.2 Total Depth 680½ Plugged Depth 633 Total Core 47½

Depth Jw/Trc 241 Depth Trc/Pc 674 Total Trc Thickness 433 Trc Cored 41 Pc Cored 6½

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 12-16-56 on 4th Scale

Depth Probed - 678

Equipment used:

Babbel Probe & Reel Assembly

Babbel Geiger Counter Model 6004 Serial 852

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Hudson Hole No. 5 Dates Drilled 12-15-56, 12-16-56 Driller Fryer

Collar: N 94329.7 E 95244.1 Elev. 6917.1 Total Depth 715 Plugged Depth 675 Total Core 40

Depth Jw/Trc 279 Depth Trc/Pc 701 Total Trc Thickness 422 Trc Cored 26 Pc Cored 14

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 12-17-56 on 4" scale
Depth Probed - 712'
Equipment used:
Babbel Probe & Reel Assembly
Babbel Geiger Counter Model 600A Serial 532

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Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Thirty-Five Hole No. 3 Dates Drilled 12-10-56, 12-12-56 Driller Costanza

Collar: N 97844 E 95534 Elev. 6764.6 Total Depth 765 Plugged Depth 726 Total Core 39

Depth Jw/Trc 320 Depth Trc/Pc 757½ Total Trc Thickness 437½ Trc Cored 31½ Pc Cored 7½'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade
	Probe						
756½ - 756	.004						

REMARKS: A very weak mineralization at depth of 756 - 756½

Probed 12-12-56 on 4th Scale
Depth Probed - 765'
Equipment used:
Babbel Probe & Reel Assembly
Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole ✓

Barren Hole _____

Property La Sal Claim Thirty-Five Hole No. 4 Dates Drilled 12-9-56; 12-14-56 Driller Fryer

Collar: N 97815.88 E 95262.97 Elev. 6717.3 Total Depth 740½ Plugged Depth 708 Total Core 32½

Depth Jw/Trc 305 Depth Trc/Pc 724 Total Trc Thickness 419 Trc Cored 16½ Pc Cored 16

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade
	Probe						
722	.01						
723	.02						
723.5	.06						
724	.06						
724.5	.10						
725	.06						
725½	.05						
726	.02						
727	.01						
723-724	1.0'	100	0.031	0.09			
724-724.5	0.5'	100	0.146	0.34			
724.5-725.5	1.0'	100	0.046	0.24			

REMARKS:

Probed - 12-15-56 on 4th Scale
Depth Probed - 740'
Equipment used:
Babbel Probe & Reel Assembly
Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Thirty Four Hole No. 3 Dates Drilled 12-1-56, 12-2-56 Driller Fryer

Collar: N 96963 E 95581 Elev. 6727.5 Total Depth 765 Plugged Depth 728 Total Core 57

Depth Jw/Trc 316 Depth Trc/Pc 747 1/2 Total Trc Thickness 431 1/2' Trc Cored 39 1/2 Pc Cored 17 1/2

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 12-2-56 on 4th Scale
Depth Probed - 760'
Equipment used.
Babbel Probe & Reel Assembly
Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole ✓

Barren Hole _____

Property La Sal Claim thirty Four Hole No. 4 Dates Drilled 12-4-56 ; 12-6-56 Driller Fryer

Collar: N 96942 E 95083 Elev. 6687.1 Total Depth 759 Plugged Depth 719 Total Core 40

Depth Jw/Trc 330 Depth Trc/Pc 750 Total Trc Thickness 420 Trc Cored 31 Pc Cored 9

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade
747.8 - 748.8	1.0'	100	0.034	0.09			
	Probe readings						
746	.02						
747	.03						
748	.035						
749	.035						
750	.02						
751	.005						

REMARKS:

Probed 12-6-56 on 4" Scale
Depth Probed - 755'
Equipment Used:
Babbel Probe & Reel Assembly
Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Thirty-Four Hole No. 5 Dates Drilled 12-6-56 ; 12-8-56 Driller Fryer

Collar: N 96942 E 95083 Elev. 6687.1 Total Depth 762 1/2 Plugged Depth 725 Total Core 37 1/2

Depth Jw/Trc 341 Depth Trc/Pc 759 Total Trc Thickness 4.17 Trc Cored 33' Pc Cored 4 1/2

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 12-8-56 on 4th scale
Depth Probed - 760'
Equipment used:
Babbel Probe & Reel Assembly
Babbel Geiger counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Richard Hole No. 3 Dates Drilled [illegible] Driller Costanza

Collar: N 97049 E 97046 Elev. 6784.5 Total Depth 599½ Plugged Depth 568 Total Core 31½

Depth Jw/Trc 172 Depth Trc/Pc 592 Total Trc Thickness 450 Trc Cored 24 Pc Cored 7½

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 11-28-56 on 4th Scale

Depth Probed – 592'

Equipment used

Babbel Probe & Reel Assembly

Babbel Geiger Counter Model 600A serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Richard Hole No. 4 Dates Drilled 11-30-56 Driller Batanza

Collar: N 97028 E 96796 Elev. 6760.3 Total Depth 640 Plugged Depth 530 Total Core 60

Depth Jw/Trc 180 Depth Trc/Pc 623 Total Trc Thickness 443 Trc Cored 43 Pc Cored 17

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade
	Probe						
620-620½	.005						

REMARKS: Very weak mineralization at depth of 620'-620½'

Probed 12-1-56 on 4th Scale

Depth Probed - 630'

Equipment used:

Bobbol Probe & Reel Assembly

Bobbol Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Richard Hole No. 5 Dates Drilled [illegible] 11-30-56 Driller Castanza

Collar: N 96994 E 96582 Elev. 6752.6 Total Depth 648 Plugged Depth 608 Total Core 40

Depth Jw/Trc 206 Depth Trc/Pc 642 Total Trc Thickness 436 Trc Cored 34 Pc Cored 6

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 11-30-56 on 4th Scale

Depth Probed - 643'

Equipment used:

Babbel Probe & Reel Assembly

Babbel Geiger Counter Model 600 Serial 8ZR

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Richard Hole No. 6 Dates Drilled 11-24-56 11-26-56 Driller Costanzo

Collar: N 96320 E 96320 Elev. 6732.4 Total Depth 668 Plugged Depth 628 Total Core 40

Depth Jw/Trc 225' Depth Trc/Pc 651 Total Trc Thickness 426 Trc Cored 23 Pc Cored 17'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS: Probed 11-27-56 on 4th Scale
Depth Probed - 660'
Equipment Used:
Babbel Probe & Reel Assembly
Babbel Geiger Counter Model 600A Serial 832

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Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim Richard Hole No. 7 Dates Drilled 11-23-56; 11-27-56 Driller Costanza

Coord: N 96997 E 96282 Elev. 6718.6 Total Depth 674 Plugged Depth 654 Total Core 20'

Depth Jw/Trc 248 Depth Trc/Pc 657 Total Trc Thickness 409 Trc Cored 3 Pc Cored 17

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 11-27-56 on 4th Scale

Depth Probed - 670'

Equipment used:

Babbel Probe & Reel Assembly

Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim John David Hole No. 2 Dates Drilled 11-17-56 ; 11-29-56 Driller Costanza

Collar: N 97884 E 97048 Elev. 6866.5 Total Depth 653 Plugged Depth 616 Total Core 37

Depth Jw/Trc 214 Depth Trc/Pc 651 Total Trc Thickness 437 Trc Cored 35' Pc Cored 2'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 11-29-56 on 4th scale
Depth Probed - 650'
Equipment used:
Babbel Probe & Reel Assembly
Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim John David Hole No. 5 Dates Drilled 11-18-56 12-2-56 Driller Costanzo

Collar: N 97810.20 E 96160.51 Elev. 6854.1 Total Depth 677½ Plugged Depth 640 Total Core 37½

Depth Jw/Trc 235 Depth Trc/Pc 668 Total Trc Thickness 433 Trc Cored 28 Pc Cored 9½

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade
	Probe						
665-666	.004						

REMARKS:

Very weak Mineralization at the depth of 665' to 666

Probed 12-2-56 on 4th Seal

Depth Probed - 670'

Equipment used

Babbel Probe & Reel Assembly

Babbel Geiger Counter Model 600A Serial 852

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property Lia Sol Claims John David Hole No. 4 Dates Drilled 12-2-56; 12-4-56 Driller Costanza

Collar: N 97912.82 E 96517.07 Elev. 6843.9 Total Depth 704 Plugged Depth 665 Total Core 39

Depth Jw/Trc 255 Depth Trc/Pc 688 Total Trc Thickness 433 Trc Cored 23 Pc Cored 16

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 12-4-56 on 4th Scale
Depth Probed - 702'
Equipment used:
Babbel Probe & Reel Assembly
Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim John David Hole No. 5 Dates Drilled 12-4-56; 12-6-56 Driller Castaza

Collar: N 9788214 E 96376.60 Elev. 6789.0 Total Depth 678 Plugged Depth 638 Total Core 40'

Depth Jw/Trc 240 Depth Trc/Pc 676 Total Trc Thickness 436 Trc Cored 38' Pc Cored 2'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 12-6-56 on 4th Scale

Depth Probed - 670'

Equipment used:

Babbel Probe & Reel Assembly

Babbel Geiger Counter Model 600A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property La Sal Claim John David Hole No. 6 Dates Drilled 12-4-56, 12-8-56 Driller Costa Rica

Collar: N 97890 E 96002 Elev. 6821.7 Total Depth 753 Plugged Depth 713 Total Core 40

Depth Jw/Trc 313 Depth Trc/Pc 751 1/2 Total Trc Thickness 438 1/2 Trc Cored 38 1/2' Pc Cored 1 1/2'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade
	Probe						
751.4 - 751	.005						

REMARKS: A very weak Mineralization in hole at depth - 751 - 751.4

Probed 12-8-56 on 4th Scale

Depth Probed - 752'

Equipment used:

Bobbed Probe & Reel Assembly

Bobbed Geiger Counter Model 500A Serial 832

HOMESTAKE MINING COMPANY

Moab, Utah

SURFACE DRILLING

Ore Hole _____

Mineralized Hole _____

Barren Hole ✓

Property Lia Sal Claim John David Hole No. 7 Dates Drilled 12-8-56; 12-10-56 Driller Castanza

Collar: N 97838 E 95777 Elev. 6794.9 Total Depth 756 1/2 Plugged Depth 726 Total Core 30 1/2

Depth Jv/Trc 323 Depth Trc/Pc 754 Total Trc Thickness 431 Trc Cored 28' Pc Cored 2 1/2'

Depth	Interval & Strata	% Recovery	% U_3O_8 Chemical	% V_2O_5	% $CaCO_3$	Check % U_3O_8 Chemical	Composite Thickness & Grade

REMARKS:

Probed 12-10-56 on 4th Scale

Depth Probed - 756'

Equipment used:

Babbel Probe & Reel Assembly

Babbel Geiger Counter Model 600A Serial 832

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GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 2 (NX)
Inclination Vertical Bearing —
Total depth 759 ft
Collar elev. — T 6923.6 P
Area La Sal Drilling Project (AMEA)

Map coord (T) —
Map coord (P) N195219.5 E976546.7
Sec. 27 T. 29½ S R. 24 E
Co., State San Juan, Utah

Claim Susie
Date completed 12-31-56
Date logged 1-8-57
Logged by H. L. S.

Rev		
Ed		

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Cbn. ____

Graphic log

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
719-728.6	5.6			100	St	GY	F	S			
728.0	4.4			100	MS	GY	VF	A			
728.8	.8			100	SS	GY	MF	A	✓		Abundant Muscovite
729.7	.9			100	CG-SS	GY	C	A	✓	P	Abundant Muscovite & carbon
730.3	6			100	MS	Br	VF	A			
735.5	5.2			100	MS	GY	VF	A			
736.3	.8			100	CG-SS	GY	C	A	✓	P	Abundant Muscovite
741.3	5.0			100	SS	GY	M	A	✓		Abundant Muscovite & carbon
741.6	.3			100	CG-SS	GY	C	A	✓	P	Abundant Muscovite
745.0	3.4			100	MS	GY-Br	VF	A			
745.5	.5			100	MS	YW	VF	A			
749.2	3.7			95	MS	GY	VF	A			
751.2	2.0			95	MS	GY-Br	VF	A			Pr Formation
759.5	8.3			100	SS	GY-Br	MF	A			Abundant Biotite

Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 830917

Hole No. 2

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 5 (NX)
Inclination Vertical Bearing ~~[illegible]~~
Total depth 746
Collar elev. — T 6988.2 P
Area La Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N95259.3 E98160.1
Sec. 27 T. 29½ S R. 24 E
Co., State San Juan Utah

Claim Robin Ray
Date completed 12-30-56
Date logged 12-30-56
Logged by H. L. S.

Rev		
Ed		

Summary of log ; OBSS from to thick ; SS color ; MS ; Cbn.

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
715-717	2.7			100	CG-SS	GY	C	A	~	P	Abundant Muscovite & Carbon
722.5	4.8			100	MS	GY	VF	A			
709.5	11.0			100	MS	GY-Br	VF	A			R Formation
746.0	12.5			100	SS	GY-Br	MF	A			Abundant biotite

Sample		Lab assay (%)			Sample		Lab assay (%)		
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$

val		γ-ray	γ-ray (%e) or Field est			
	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 830917

Hole No. 5

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 6 [redacted] (NX)
Inclination Vertical Bearing —
Total depth 757
Collar elev. — T 6956.1 P
Area La Sal Drilling Project (CMEA)

Map coord (T) —
Map coord (P) 95255.5 E 98160.1
Sec. 27 T. 29 S. R. 24 E
Co., State San Juan Utah

Claim Robin Ray
Date completed 12-31-56
Date logged 12-31-56
Logged by H. L. S.

Rov		
Ed		

Graphic log

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Cbn. ____

DRILL LOG Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
708-708.7	.7			100	CG-SS	GY	M	A	✓	P	Abundant Muscovite
709.5	.8			100	MS	GY	VF	N			
715.0	5.5			100	SS	GY	MF	A	✓	P	Abundant Muscovite & carbon
719.9	4.9			100	SS	GY	F	A			Abundant Muscovite
720.5	.6			100	MS	GY	VF	N			
722.0	2.0			100	SS	GY	F	A			Abundant Muscovite
722.9	.9			100	CG-SS	GY	C	A	✓	P	Abundant Muscovite & carbon
723.8	.9			100	SS	GY	F	S			
726.0	2.2			100	CG-SS	GY	MC	A	✓	P	Abundant Muscovite
726.9	.9			100	SS	GY	F	S			
744.2	17.3			95	MS	GY	VF	N			Ft. Formation
757.0	12.8			100	SS	GY-Br	MF	A			Abundant biotite

Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 829019 Hole No. 6

GEOLOGIC AND ASSAY LOGS

U.S. GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT

Drill-hole No. 2 (Mx)
Inclination vertical Bearing ~~S 82° E~~
Total depth 747 ft
Collar elev. — T 6981.6 P
Area Sal Drilling Project (AMEA)

Map coord (T) —
Map coord (P) N 194385.6 E 97990.9
Sec. 27 T. 29½ S R. 24 E
Co., State San Juan, Utah

Claim Billie Mike
Date completed 12-19-56
Date logged 12-19-56
Logged by H. L. S.

Rev		
Ed		

Graphic log

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Clon. ____

LITHOLOGIC LOG

DRILL LOG Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Clon	MS in SS	Remarks
696-696.2	.2			100	MS	GY	VF	N			
698.2	2.0			100	CG-SS	GY	C	A	r	P	Abundant Muscovite & carbon
700.3	2.1			100	SS	GY	MC	A	r	G	Abundant Muscovite
701.7	1.4			100	MS	GY	VF	N			
704.0	2.3			100	SS	GY	MC	A	r	P	Abundant Muscovite & carbon
714.0	10.0			100	SS	GY	MF	A	—		Abundant Muscovite
715.8	1.8			100	CG-SS	GY	MC	A	r	P	Abundant Muscovite & carbon
733.8	18.0			100	MS	GY	VF	N			
735.0	1.2			100	SS	GY	F	A		P	Abundant Muscovite
737.1	2.1			100	SS	GY	MC	A		P	Abundant Muscovite Bear-P R Formation
747.5	10.4			100	SS	Br-P	F VF	A		P	Abundant Rutile - Ga MS P

Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray ‰ U_3O_8	γ-ray (‰) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "c" are from lab gamma-ray readings

Hole No. 2

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 3 (NX)
Inclination Vertical Bearing ——
Total depth 745
Collar elev. —— T 6860.6 P
Area La Sal Drilling Project (DMEA)

Map coord (T) ——
Map coord (P) N 94315.2 E 97559.4
Sec. 27 T. 29½S R. 24E
Co., State San Juan, Utah

Claim Billie Mike
Date completed 12-19-56
Date logged 12-20-56
Logged by H. L. S.

Rev		
Ed		

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Cbn. ____

Graphic log

DRILL LOG		LITHOLOGIC LOG										
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
705-706	1.0			100	MS	GY	VF	N			Abundant SS Granules
711.1	5.1			100	SS	GY	MF	A	✓		Abundant Muscovite & carbon
713.4	2.3			100	SR	GY-Br	F	S			Muscovite
724.2	10.8			100	SS	GY	F	A	✓		Abundant Muscovite
725.3	1.1			100	SS	GY	M	A	✓	P	Abundant Muscovite & carbon
725.6	.3			100	CG-SS	GY	C	A	✓	P	Abundant Muscovite & carbon
726.7	1.1			100	SS	GY	VF	A	✓	P	Abundant Muscovite
729.1	2.4			100	CG-SS	GY	MC	A	✓	P	Abundant Muscovite & carbon
730.9	1.8			100	SE	GY	VF	S			
737.5	6.6			100	MS	GY	VF	N			
741.4	3.9			100	SE	GY-Br	F	S			
742.9	1.5			100	MS	GY	VF	N			
743.8	.9			100	SS	GY-Br	VF	A			Abundant biotite - Rx Formation
745.0	1.2			100	SS	Br-R	F	A			Abundant biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

Hole No. 3

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 4 (NX)
Inclination Vertical Bearing ~~[illegible]~~
Total depth 758 ft'
Collar elev. — T 6848.1 P
Area La Sal Drilling Project (DOM FA) Co., State San Juan, Utah

Map coord (T) —
Map coord (P) N 945579 E 994621
Sec. 27 T. 29 ~~½S~~ R. 24 E

Claim Billie Mike
Date completed 12-20-56
Date logged 12-21-56
Logged by H. L. S.

Rev		
Ed		

Summary of log ____; OBSS from ____ to ____ thick ____ ; SS color ____ ; MS ____ ; Cbn. ____

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
718.722.4	4.4			100	SS	GY	MF	A	✓		Abundant Muscovite
722.6	.2			100	CG-SS	GY	C	A	✓	P	Abundant Muscovite
724.0	1.4			100	SS	GY	F	A			Abundant Muscovite
724.9	.9			100	MS	GY	VF	N			
725.3	.4			100	SS	GY	M	A	✓		Abundant Muscovite
726.2	.9			100	SS	GY	VF	S			
726.7	.5			100	SS	GY	F	A	✓	G	Abundant Muscovite & carbon
726.3	.6			100	MS	GY	VF	N			
727.0	.7			100	SS	GY	M	A	✓		Abundant Muscovite & carbon
728.1	1.1			100	SS	GY	F	A	✓		Abundant Muscovite & carbon
734.2	6.1			100	CG-SS	GY	C	A	✓	P	Abundant Muscovite & carbon
742.0	7.8			100	MS	GY	VF	N			
745.2	3.2			100	MS	Br-R	VF	N			Fe Formation
758.5	13.3			100	SS	GY-Br	MF	A		P	Abundant biotite - Gn MS P

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (‰) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 835917

Hole No. 4

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 2 (NX)
Inclination Vertical Bearing ~~S85°30'W~~
Total depth 691
Collar elev. — T 7042.5 P
Area La Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N 94380 E 99107.7
Sec. 27 T. 29½S R. 24E
Co., State San Juan, Utah

Claim Hudson
Date completed 12-28-56
Date logged 12-29-56
Logged by H. L. S.

Rev		
Ed		

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn. _____

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
672.-674.7	4.7			100	SS	GY	F	A			Abundant Muscovite
678.6	1.9			100	CG-SS	GY	C	A	–	G	Abundant Muscovite & carbon
688.7	10.1			100	MS	GY	VF	N			Pa Formation
691.0	2.3			100	SS	Br-R	F	A			Abundant Biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 838917

Hole No. 2

RECEIVED
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GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 3 (NX)
Inclination Vertical Bearing ~~N 28° 14' W~~
Total depth 715
Collar elev. — T 6990.3 P
Area La Sal Drilling Project (OMEA)

Map coord (T) —
Map coord (P) N 94408.6 E 98680.4
Sec. 27 T. 29½ S R. 24 E
Co., State San Juan, Utah

Claim Hudson
Date completed 12-28-56
Date logged 12-29-56
Logged by H. L. S.

Rev		
Ed		

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Cbn. ____

Graphic log

DRILL LOG		LITHOLOGIC LOG										
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
678-682.3	4.3			100	SS	GY	M F	A	✓		Abundant Muscovite & carbon
683.3	1.0			100	CG-SS	GY	C	A	✓	P	Abundant Muscovite
685.2	1.9			100	SS	GY	F	A	✓	G	Abundant Muscovite & carbon
687.8	2.6			100	CG-SS	GY	C	A	✓	P	Abundant Muscovite & carbon
688.5	.7			100	MS	GY	VF	N			
694.4	5.9			100	CG-SS	GY	C	A	✓	P	Abundant Muscovite & carbon
704.2	9.8			100	MS	GY	VF	N			
707.1	2.9			100	MS	GY	F	S			Abundant SS Granules
708.8	1.7			100	SS	GY	M	A	✓		Abundant Muscovite Rico Formation
709.2	.4			100	SS	Br-R	VF	A			Abundant biotite
715.0	5.8			100	SS	Br-R	MF	A			Abundant biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 830917

Hole No. 3

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 4 (NX)
Inclination vertical Bearing ~~S 89° 15' E~~
Total depth 680 ft
Collar elev. — T 6922.2 P
Area ~~La~~ Sal Drilling Project (CADEA)

Map coord (T) —
Map coord (P) N 243784; E 2484582
Sec. 27 T. 29½ S R. 24 E
Co., State San Juan, Utah

Claim Hudson
Date completed 12-15-56
Date logged 12-16-56
Logged by H. L. S.

Rev		
Ed		

Graphic log

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn. _____

DRILL LOG		LITHOLOGIC LOG										
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
633-634	1.0			100	SS	GY	M	A	✓		Abundant muscovite
635.7	1.7			100	SH	GY	F				Abundant muscovite
638.0	2.3			100	CG-SS	GY	MF	A	✓	P	Abundant muscovite
639.3	1.3			100	SH	GY	F	A	✓		Abundant muscovite
643.9	4.6			100	SS	GY	M	A	✓		Abundant muscovite
644.2	.3			100	MS	GY	VF	A			
645.0	.8			100	SH	GY	F	A	✓		Abundant muscovite
646.3	1.3			100	CG-SS	GY	C	A	✓	P	Abundant muscovite & carbon
647.3	1.0			100	MS	GY	VF	A			
667.5	20.2			100	CG-SS	GY	MC	A	✓	P	Abundant muscovite & carbon
667.9	.4			100	SS	GY	MF	A	✓	G	Abundant muscovite
668.1	.2			100	CG-SS	GY	C	A	✓	P	Abundant muscovite
672.4	4.3			100	MS	GY	VF	A			
673.8	1.4			100	MS	GY-Br	VF	A			R Formation
680.5	6.7			100	SS	Br-R	F-VF	A			Abundant biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%) or Field est			
Base	Thick	U_3O_8 °	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 °	V_2O_5/Cu	$CaCO_3$	Base	Thick	% U_3O_8	Base	Thick	U_3O_8	V_2O_5

°Assays marked "o" are from lab gamma-ray readings

Hole No. 4

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 5 (N X)
Inclination Vertical Bearing ~~[illegible]~~
Total depth 715'
Collar elev. — T 6917.1 P
Area La Sal Drilling Project (RMPA)

Map coord (T) —
Map coord (P) M 9 4 2 2 2 2 E 9 8 2 4 4 1
Sec. 27 T. 29½S R. 24E
Co., State San Juan Utah

Claim Hudson
Date completed 12-16-56
Date logged 12-17-56
Logged by H. L. S.

Rev		
Ed		

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Cbn. ____

Graphic log

DRILL LOG		LITHOLOGIC LOG										
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
675-676.1	1.1			100	CG-SS	GY	MC	A	✓	P	Abundant carbon & Muscovite
676.3	.2			100	MS	GY	VF	N			
676.5	.2			100	SS	GY	F	A	✓		Abundant Muscovite
677.1	.6			100	MS	GY	VF	N			
677.5	.4			100	SS	GY	F	A	✓		Abundant Muscovite
677.8	.3			100	MS	GY-Br	VF	N			
678.2	.4			100	SS	GY	F	A	✓	G	Abundant Muscovite
679.1	.9			100	MS	GY-Br	VF	N			
679.4	.3			100	CG-SS	GY	MC	A	✓	P	Abundant Muscovite & carbon
680.7	1.3			100	MS	GY-Br	VF	N			
681.2	.5			100	SS	GY	MF	A	✓	G	Abundant Muscovite
681.8	.6			100	St	GY	F	S			
691.5	9.7			100	SS	GY	MF	A	✓	P	Abundant carbon & Muscovite
701.0	9.5			100	MS	GY	VF	N			Rx Formation
712.0	11.0			100	SS	Br-R	VF	A			Abundant Muscovite
715.0	3.0			100	SS	Br-R	F	A			Abundant Muscovite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%o) or Field est			
Base	Thick	U_3O_8 °	V_2O_5/Cu	$CoCO_3$	Base	Thick	U_3O_8 °	V_2O_5/Cu	$CoCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

°Assays marked "a" are from lab gamma-ray readings

~~GPO 16211~~

Hole No. 5

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drillhole No. 3 (N Y)
Inclination Vertical Bearing ~~[illegible]~~
Total depth 765
Collar elev. — T. [illegible]
Area Vertical Drilling Project (DOSCA)

Map coord (T) —
Map coord (P) N 377844 ; E 955534
Sec. 35 T. 29 S R. 24 E
Co., State San Juan, Utah

Claim Thirty - Five
Date completed 12-12-56
Date logged 12-13-56
Logged by [illegible]

Row		
Ed		

Summary of log ; OBSS from to thick ; SS color ; MS ; Clon.

Graphic log

DRILL LOG

Depth	Rec ft.
726-728.4	2.4
729.6	.2
731.5	2.7
736.1	4.8
744.5	8.4
749.0	4.5
750.6	1.6
751.8	1.2
752.6	.8
753.9	1.3
757.4	3.5
757.6	.2
765.0	7.4

LITHOLOGIC LOG

Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Clon	MS in SS	Remarks
		100	Arkosic SS	G Y	C	A	✓	P	Abundant Muscovite
		100	SS	G Y	M F	A			Abundant Muscovite
		100	SS	D G Y	M F	A	✓		Abundant Muscovite
		100	SS	G Y - Pk	M F	A	✓		Abundant Muscovite
		100	SS	D - G Y	M F	A	✓		Abundant Muscovite
		100	SS	Pk - G Y	M F	A			Abundant Muscovite
		100	MS	G Y	F	A			Abundant Muscovite
		100	MS	G Y	F	S			Abundant SS Granules
		100	MS	G Y	F	S			
		100	MS	G Y	F	S			Abundant SS Granules
		100	MS	G Y	F	S			
		100	Arkosic SS	Pk - G Y	M C	A		P	Abundant Muscovite
		100	MS	G Y	F	S			
		100	SS	Pk - G R	M F	A			Abundant Pink Stringer SS

Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray % U_3O_8	γ-ray (%) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "γ" are from lab gamma-ray readings

GPO 15M17

Hole No. 3

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill hole No. 4 (NX)
Inclination Vertical Bearing —
Total depth 740 1/2
Collar elev. — T 6717.3 P
Area Lisa Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N 97815.88; E 95262.97
Sec. 33 T. 29S R. 24E
Co., State San Juan, Utah

Claim Thirty Five
Date completed 12-14-56
Date logged 12-15-56
Logged by H.L.S.

Rev		
Ed		

Summary of log ; OBSS from to thick ; SS color ; MS ; Cbn.

Graphic log

DRILL LOG Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
708-709	1.0			100	CG-SS	GY	C	A	✓	P	Abundant Muscovite
709.3	.3			100	SS	GY	MC	S	✓	G	
710.0	.7			100	SS	GY	F	A			Abundant Muscovite
714.0	4.0			100	CG-SS	GY	C	A	✓	P	Abundant Muscovite
714.9	.9			100	SC	GY	VF	A	✓		Abundant Muscovite
715.5	.6			100	SS	GY	MF	A	✓		Abundant Muscovite
717.0	1.5			100	CG-SS	GY	MC	A	✓	P	Abundant Muscovite
718.5	1.5			100	SS	GY	F	A	✓		Abundant Muscovite
719.1	.6			100	CG-SS	GY	MC	A	✓	P	Abundant Muscovite
719.6	.5			100	SS	GY	F	A	✓		Abundant Muscovite
724.3	4.7			100	CGSS	GY	MC	A	✓	P	Abundant Muscovite R Formation
740.5	16.2			100	SS	GY-Br	MF	A			Abundant biotite

Sample Base	Sample Thick	Lab assay (%) U_3O_8 °	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 °	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

°Assays marked "o" are from lab gamma-ray readings

GPO 826917

Hole No. 4

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 3 (NX)
Inclination Vertical Bearing ~~SW 45°~~
Total depth 765
Collar elev. — T 6727.5 P
Area Lm Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N 96965 ; E 95581
Sec. 28 T. 29½ S R. 24 E
Co., State San Juan, Utah

Claim Thirty - Four
Date completed 12-3-56
Date logged 12-4-56
Logged by H. L. S.

Rev	
Ed	

Summary of log ; OBSS from to thick ; SS color ; MS ; Cbn.

Grap lo

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
708-709.6	1.6			100	SS	GY	F	A	✓	G	Abundant Carbon
710.8	1.2			100	SS	GY	MF	S		G	
712.6	1.8			100	SS	GY	VF	N			
713.0	.4			100	SS	GY	F	A			Abundant Muscovite
713.8	.8			100	SS	GY	M	A	✓	G	Abundant Carbon
714.9	1.1			100	SS	GY	F	A	✓		Abundant Muscovite
715.5	.6			100	SS	GY	M	A	✓	G	Abundant Carbon
716.3	.8			100	SS	GY	C	S		P	
717.4	1.1			100	ST	GY	VF	S	✓		
718.0	.6			100	SS	GY	C	A	✓	P	Abundant Carbon
718.7	.7			100	MS	GY	VF	N			
725.1	6.4			100	SS	GY-Br	MF	A	✓		Abundant Carbon
726.4	1.3			100	SS	GY	C	S			
728.0	1.6			100	SS	GY-Br	F	A	✓		Abundant Carbon
728.9	.9			100	SS	GY	M	A	✓		Abundant Muscovite
729.2	.3			100	MS	GY	VF	N			
729.5	.3			100	SS	GY	M	A	✓		Abundant Muscovite
730.5	1.0			25	MS	GY	VF	N			
733.0	2.5			100	SS	GY	MC	A	✓	P	Abundant Carbon
739.7	6.7			100	SS	GY	MF	A	✓	P	Abundant Carbon
747.5	7.8			95	MS	GY	F	N			Pc Formation
765.0	17.5			100	SS	R-Br	F	A			Abundant biotite

Sample Base	Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Sample Base	Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$

Interval Base	Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 833917

Hole No. 3

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

~~Drill-hole~~ No. 4 (NX)
Inclination Vertical Bearing ~~[illegible]~~
Total depth 759
Collar elev. — T 6708.2 P
Area Lisbon Sal Drilling Project (DOMEA)

Map coord (T) —
Map coord (P) N 96975; E 95327
Sec. 28 T. 29½ S R. 24 E
Co., State San Juan, Utah

Claim Thirty Four
Date completed 12-6-56
Date logged 12-7-56
Logged by H. L. S.

Rev		
Ed		

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn. _____

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
719-723.5	4.5			100	SS	GY	F	A	✓	G	Abundant Carbon
724.5	1.0			100	SS	GY	MC	A	✓	P	Abundant Carbon
726.1	1.6			100	SS	GY	M	A			Abundant Carbon
728.5	2.2			100	MS	GY	VF	N			
730.8	2.5			100	SS	GY	F	A	✓		Abundant Carbon
732.8	2.0			100	SS	GY	M	A	✓		Abundant Carbon
735.2	2.4			100	MS	GY	VF	N			
741.0	5.8			100	SS	GY	M	A	✓	P	Abundant Carbon
741.3	.3			100	SS	GY	F	A	✓		Abundant Carbon
741.6	.3			100	MS	GY	VF	N			
742.8	1.2			95	SS	GY	M	A	✓	P	Abundant Carbon
743.0	.2			100	MS	GY	VF	N			
745.1	2.1			100	SS	GY	C	A	✓	P	Abundant Carbon
747.1	2.0			100	SS	GY	M	A	✓	G	Abundant Carbon
750.0	2.9			100	SS	GY	MF	A	✓	G	Abundant Carbon & Carbonate
752.3	2.3			100	SS	R-Br	VF	A			Abundant biotite
753.2	.9			100	SS	R-Br-Gy	F	A			Abundant biotite
756.6	3.4			100	SS	GY	MF	A			Abundant biotite
759.0	2.4			100	SS	R-Br	F	A			Abundant biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "a" are from lab gamma-ray readings

ARO 050917

Hole No. 4

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 5 (N X)
Inclination Vertical Bearing ~~[illegible]~~
Total depth 762 ft
Collar elev. — T 6687.1 P
Area La Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N96942; E99083
Sec. 33 T. 29 S R. 24 E
Co., State San Juan, Utah

Claim Thirty-Four
Date completed 12-8-56
Date logged 12-10-56
Logged by H. L. S.

Rev		
Ed		

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Cbn. ____

Graphic log

DRILL LOG Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
728.-728	3.0			100	SS	GY	M	A	✓	P	Abundant carbon & Muscovite
730.7	2.7			100	St	GY	F	S			
733.4	2.7			100	SS	GY	MF	A	✓		Abundant carbon & Muscovite
734.3	.9			100	CG-SS	GY	M	A	✓	G	Abundant Muscovite
734.7	.4			100	SS	GY	F	A			Abundant Muscovite
735.3	.6			100	CG-SS	GY	M	A	✓	P	Abundant carbon & Muscovite
736.5	1.2			100	SS	GY	F	A			Abundant Muscovite
738.9	2.4			100	CG-SS	GY	M	A	✓	P	Abundant carbon & Muscovite
739.3	.4			100	St	GY	VF	S	✓		
740.3	1.0			100	SS	GY	MF	A	✓		Abundant Muscovite
741.3	1.0			100	SS	GY	F	A	✓		Abundant carbon & Muscovite
747.7	6.4			100	CG-SS	GY	MF	A	✓	P	Abundant carbon & Muscovite
748.1	.4			100	St	GY	VF	S			
750.7	2.6			100	CG-SS	GY	MC	A	✓	P	Abundant carbon & Muscovite
751.5	.8			100	St	GY	VF	S			
753.0	1.5			100	SS	GY	F	A	✓	G	Abundant carbon & Muscovite
756.9	3.9			100	CG-SS	GY	MC	A	✓	P	Abundant carbon & Muscovite
758.4	1.5			100	SS	GY	M	S			Pc Formation
762.5	4.1			100	SS	Br.-A	MF	A			Abundant biotite

Sample Base	Sample Thick	Lab assay (%) U_3O_8 °	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 °	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

°Assays marked "0" are from lab gamma-ray readings

ARO 010317

Hole No. 5

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
~~COLORADO PLATEAU DISTRICT~~

Drill-hole No. 3 (N X)
Inclination Vertical Bearing ~~N 90° 00' W~~
Total depth 599½
Collar elev. — T 6784.5 P
Area La Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N97049; E97046
Sec. 27 T. 29½ S R. 24 E
Co., State San Juan Utah

Claim Richard
Date completed 11-28-56
Date logged 11-29-56
Logged by H. L. S.

Rev		
Ed		

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn. _____

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
568-576.1	7.1			100	CG-SS	GY	M C	A	✓	P	Abundance Carbon
576.7	1.6			100	SS	GY	M	S	✓	G	Abundance MS in SS
579.8	3.1			100	SS	GY	F	A	✓		Abundance Carbon
580.5	.7			100	SS	GY	M F	S	✓	G	Abundance MS in SS
581.6	1.1			100	MS	GY	F	S	✓		Very little Carbon
583.9	2.3			100	MS	GY-R	F	N			
585.5	1.6			100	SS	GY	M	S	✓		Small amount of Carbon
586.6	1.1			100	CG	GY	M F	N		P	
591.6	5.0			100	MS	GY	F	N			R Formation
592.2	.6			100	SS	Br	F	A			Abundance biotite
593.0	.8			100	SS	GY	F	A			Abundant biotite
599.5	6.5			100	SS	R-Br	F	A			Abundance biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (‰) or Field est			
Base	Thick	U_3O_8 °	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 °	V_2O_5/Cu	$CaCO_3$	Base	Thick	‰e U_3O_8	Base	Thick	U_3O_8	V_2O_5

°Assays marked "o" are from lab gamma-ray readings

Hole No. 3

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
~~COLORADO PLATEAU DISTRICT~~

Drill-hole No. 4 (NX)
Inclination Vertical Bearing ~~[illegible]~~
Total depth 640
Collar elev. — T 6760.3 P
Area In Situ Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N 92022 E 96796
Sec. 27 T. 29S R. 24E
Co., State San Juan, Utah

Claim Richards
Date completed 11-30-56
Date logged 12-1-56
Logged by [illegible]

Rev		
Ed		

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Clon. _____

Graphic log

DRILL LOG		LITHOLOGIC LOG										
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Clon	MS in SS	Remarks
580-580.9	.9			100	SS	GY	F	S			
582.5	1.6			100	MS	GY	VF	N			
582.8	.3			100	SS	GY	F	S			
583.0	.2			100	MS	GY	VF	N			
584.0	1.0			100	SS	Br	F	A			Abundance Muscovite
585.2	1.2			100	MS	Br	VF	N			
586.0	.8			100	SS	Br	F	A			Abundance Muscovite
586.4	.4			95	MS	Br	VF	N			
586.8	.4			100	SS	GY	F	A			
594.8	8.0			100	SS	CG-SS	C	A	✓		Abundance Carbon
602.3	7.5			100	MS	GY-R	F	N			
603.2	.9			100	MS	GY	C	N			Abundance SS Granules
604.1	.9			100	MS	GY	F	N			
604.6	.5			100	MS	GY	C	N			Abundance SS Granules
615.0	10.4			100	MS	GY	F	N			
616.4	1.4			100	CG-SS	GY	MC	A	✓		Abundance Carbon
622.0	5.6			100	SS	GY-Br	F	S	✓	G	Little Carbon
622.6	.6			100	MS	GY-Br	VF	N			
623.3	.7			100	SS	GY	M	A			Abundance Carbon & Erratic
631.6	9.6			100	SS	GY-Br	F	A			Abundance biotite or [illegible]
633.3	1.7			100	SS	GY-Br	VF	A			Abundance biotite
636.7	3.4			100	SS	GY-Br	F	A			Abundance biotite
640.0	3.3			100	SS	GY-Br	F	A			Abundance biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	% U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "0" are from lab gamma-ray readings

~~GPO 16211~~

Hole No. 4

RECEIVED
FEB 13 1957
D.M.E.A.

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 5 (NX)
Inclination Vertical Bearing ~~S 30° W E~~
Total depth 648
Collar elev. — T 6752.6 P
Area La Sal Drilling Project (COMEX)

Map coord (T) —
Map coord (P) N 96994 E 96582
Sec. 28 T. 29½ S R. 24 E
Co., State San Juan, Utah

Claim Brabard
Date completed 11-30-56
Date logged 12-1-56
Logged by [illegible]

Rev		
Ed		

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn. _____

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
608.6088	.5			100	MS	GY	F	N			
613.2	5.9			100	SS	GY	MF	A	✓		Abundance Carbon
614.5	1.3			100	SS	GY	M	A	✓		Abundance marcasite + carbon
625.5	11.0			95	MS	GY	F	N			
633.0	7.5			95	MS	GY	M	S			Abundance SS Granules
634.6	1.6			95	SS	GY	M	S		G	
636.0	1.4			100	SS	GY	M	A	✓		Abundance Carbon
636.5	.5			100	SS	GY	F	A			Abundance Carbon
637.4	.9			100	SS	R-Br	VF	N		G	
638.1	.7			100	SS	Br-GY	MF	A			Abundance Marcasite
639.6	1.5			100	MS	Br-R	VF	N			Abundance SS Granules
642.2	2.6			100	SS	GY	MC	A	✓		Abundance carbon R formation
647.2	5.0			95	SS	Br-R	F	A			Abundance hematite
648.0	.8			95	SS	Br-R	VF	A			Abundance hematite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	% U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "o" are from lab gamma-ray readings

Hole No. 5

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 6 (NX)
Inclination Vertical Bearing ~~S 80° W E~~
Total depth 668
Collar elev. — T 6752.4 P
Area La Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N 96995: E 96320
Sec. 28 T 29½ S R. 24 E
Co., State San Juan, Utah

Claim Richard
Date completed 11-26-56
Date logged 11-27-56
Logged by H.L.S.

Rev		
Ed		

Summary of [illegible] OBSS from ____ to ____ thick ____ ; SS color ____ ; MS ____ ; Cbn. ____

Graphic log

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
628-650	8'			100	SS	GY	M	S		P	
631.5	1.8'			100	CG	GY	C	S		P	
631.8	.5			100	MS	GY	VF	N			
646.0	14.2			100	MS	Pr	VF	N		P	
647.0	1.0			100	MS	GY	VF	N			MS with Sand Grains
651.0	4.0			100	MS	GY	F	N			R. formation
663.0	12.0			100	SS	R-Br	F	A			Abundance bitum
665.0	2.0			100	SS	R-Br	M	A			Abundance bitum
668.0	3.0			100	SS	R-Br.	VF	A			Abundance bitum

Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 830917

Hole No. 6

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO MATERIALS DISTRICT

Drill-hole No. 7 (NX)
Inclination Vertical Bearing ~~S 52° E~~
Total depth 674
Collar elev. — T 6718.6 P
Area La Sal Drilling Project (OMRA)

Map coord (T) —
Map coord (P) N 9599 ft; E 9608 ft
Sec. 28 T. 29½ S R. 24 E
Co., State San Juan, Utah

Claim Richard
Date completed 11-27-56
Date logged 11-28-56
Logged by H. L. S.

Rev		
Ed		

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn. _____

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
654.6543	.3			100	MS	GY	VF	N		P	
657.2	2.9			100	MS	GY	VF	N			Pc formation
661.8	4.6			100	SS	R-Br	F	A			Abundance bratite
662.0	.2			100	SS	R-Br	VF	A			Abundance bratite
671.5	9.5			100	SS	R-GY-Br	F	A			Abundance bratite
673.7	2.2			100	SS	R-GY-Br	M	A			Abundance bratite
674.0	.3			100	SS	R-Br	F	A			Abundance bratite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 850917

Hole No. 7

GEOLOGIC AND ASSAY LOGS

COLORADO PLATEAU DISTRICT

Drill-hole No. 2 (NX)
Inclination Vertical Bearing ~~[illegible]~~
Total depth 653
Collar elev. — T 6866.5 P
Area La Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N97884; E97048
Sec. 33 T. 29S R. 24E
Co., State San Juan, Utah

Claim John David
Date completed 11-29-56
Date logged 11-30-56
Logged by M.L.S.

Rev		
Ed		

Graphic log

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Cbn. ____

DRILL LOG		LITHOLOGIC LOG										
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
616-616.5	.5			100	MS	GY	F	N			
617.9	1.4			100	CG SS	GY	M	A	✓	P	Little Carbon
619.5	1.6			95	SS	GY	MF	A	✓	G	Little Carbon
619.7	.2			100	MS	GY	F	N			
622.1	2.4			100	SS	GY	MF	A	✓		Abundance Carbon
623.9	1.8			100	CG-SS	GY	M	A	✓		Little Carbon
624.6	.7			100	MS	GY-BK	VF	A	✓		Abundance Carbon
625.3	.7			100	SS	GY	M	N		G	
626.7	1.4			100	SS	GY	F	N		G	
627.3	.6			100	MS	GY	F	N			
628.7	1.4			100	SS	GY	M	S		G	
632.4	3.7			100	MS	R-GY	F	N			
632.6	.2			100	SS	GY	M	S		G	
634.0	1.4			100	MS	GY	F	N			
634.2	.2			100	SS	GY	M	S		G	
634.8	.6			100	MS	GY	F	N			
635.1	.3			100	SS	R	F	S			
635.3	.2			100	MS	R	VF	N			
642.3	7.0			100	MS	GY	F	N			Abundance SS Granules
644.2	1.9			100	CG	GY	MC	S			
645.6	1.4			100	MS	GY	F	N			
651.0	5.4			100	SS	R-GY	MF	A	✓		Abundance carbon R Sarcoxite
653.0	2.0			100	SS	R-Br	F	A			Abundance biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 852987

Hole No. 2

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 3 (N X)
Inclination Vertical Bearing ~~[illegible]~~
Total depth 677 1/2
Collar elev. — T 6854.1 P
Area La Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N92870.20; E96760.51
Sec. 33 T. 29S R. 24E
Co., State San Juan, Utah

Claim John David
Date completed 12-2-56
Date logged 12-2-56
Logged by H. L. S.

Rev		
Ed		

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn. _____

Graphic log

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
640-642.2	2.2			100	CG-SS	GY	C	A	✓	P	Abundant Carbon
643.0	.8			100	SS	GY	M	A	✓		Abundant Carbon
643.6	2.6			100	SS	GY	F	A			Abundant Muscovite
645.7	.1			100	SS	GY	F	A	✓		Abundant Carbon
646.2	.5			100	MS	GY	VF	N			
646.9	.7			100	MS	Br	VF	N			
647.3	.4			100	SS	GY	F	A			Abundant Carbon
648.3	1.0			100	SS	GY	M	A	✓		Abundant Carbon
651.0	2.7			100	SS	GY	F	A	✓		Abundant Carbon
653.0	2.0			100	SS	GY	MF	A	✓		Abundant Carbon
657.7	4.7			100	SS	GY	M	A	✓	G	Abundant Carbon
660.9	3.2			100	SS	GY	F	A	✓		Abundant Carbon
661.2	.3			100	SS	GY	F	A	✓	G	Abundant Carbon
665.0	3.8	665-666	1'	100	SS	GY	MF	A	✓	G	Abundant Carbon
666.6	1.6			100	ST	GY	F	N			
667.9	1.3			100	MS	GY	F	N			Abundant SS Granules & Pebbles
677.5	9.6			100	SS	GY-Br	MF	A			Abundant biotite

Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5/Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray %e U_3O_8	γ-ray (%e) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 833917

Hole No. 3

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 4 (NX)
Inclination Vertical Bearing ~~N83°11'W~~
Total depth 704
Collar elev. — T 6843.9 P
Area La Sal Drilling Project (COMEA)

Map coord (T) —
Map coord (P) N97912.82; E96812.07
Sec. 33 T. 29S R. 24E
Co., State San Juan, Utah

Claim Tapa David
Date completed 12-4-56
Date logged 12-5-56
Logged by H.L.S.

Rev		
Ed		

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Cbn. ____

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
665-666.8	1.8			100	SS	L-GY	F	A	✓	G	Abundant Carbon
678.9	12.1			100	SS	D-GY	F	A	✓		Abundant Carbon
680.9	2.0			100	CG-SS	L-GY	C	S	✓	P	
681.3	.4			100	SS	L-GY	F	A	✓		Abundant Carbon
682.3	1.0			100	CG-SS	L-GY	F	S		P	
684.6	2.3			100	SS	D-GY	F	A			Abundant Muscovite
687.5	2.9			100	SS	L-GY	M	A	✓	G	Abundant carbon & muscovite
688.3	.8			100	MS	GY	VF	N			Rico Formation
692.5	4.2			100	SS	R-Br	F	A			Abundant biotite
695.5	3.0			100	SS	R-Br	F	A		G	Abundant Go MS & Biotite
704.0	8.5			100	SS	R-Br	F	A			Abundant biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (‰) or		Field est	
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	‰ U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 858917

Hole No. 4

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill Hole No. 5 (NX)
Inclination vertical Bearing ~~[illegible]~~
Total depth 678
Collar elev. — T 4789.8 P
Area La Sal Drilling Project (CMRA)

Map coord (T) —
Map coord (P) N 2788214; E 2442240
Sec. 33 T. 29S R. 24E
Co., State San Juan, Utah

Claim John David
Date completed 12-6-56
Date logged 12-6-56
Logged by H. L. S.

Rev	
Ed	

Summary of log _____; OBSS from _____ to _____ thick _____; SS color _____; MS _____; Cbn. _____

Graphic log

DRILL LOG Depth	Rec ft.	LITHOLOGIC LOG Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
638-639.5	.5			100	MS	GY	VF	N			
639.1	.6			100	SS	GY	F	A	✓		Abundant Carbon
639.2	.1			100	SS	GY	MF	A	✓	P	Abundant Carbon
646.0	6.8			100	SS	GY	MF	A			Abundant Muscovite
647.8	1.8			100	SS	GY	M	A	✓	G	Abundant Carbon
649.9	2.1			100	MS	GY	VF	S			
656.0	6.1			100	SS	GY	F	A	✓		Abundant Carbon
657.5	1.5			100	SS	GY	MF	A	✓	G	Abundant Carbon
658.0	.5			100	CG	GY	C	A	✓	P	Abundant carbon
658.5	.5			100	ST	GY	VF	S			
659.9	1.4			100	SS	GY	F	A	✓		Abundant carbon
663.0	3.1			95	MS	GY	F	N			
670.1	7.1			95	MS	GY	MF	N			Abundant SS Granules
675.6	5.5			100	SS	GY	M	A	✓	P	Abundant carbon
676.0	.4			100	MS	GY	VF	N			R formation
678.0	2.0			100	SS	R-Br	F	A			Abundant biotite

Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5	Cu	$CaCO_3$	Sample Base	Sample Thick	Lab assay (%) U_3O_8 *	V_2O_5	Cu	$CaCO_3$

Interval Base	Interval Thick	γ-ray % U_3O_8	γ-ray (%) or Field est Base	Thick	U_3O_8	V_2O_5

*Assays marked "o" are from lab gamma-ray readings

Hole No. 5

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 6 (N X)
Inclination Vertical Bearing ~~[illegible]~~
Total depth 753
Collar elev. — T 6821.7 P
Area La Sal Drilling Project (OMEB)

Map coord (T) —
Map coord (P) N 97[illegible]; E 96,002
Sec. 33 T. 29S R. 24E
Co., State San Juan, Utah

Claim John David
Date completed 12-8-56
Date logged 12-10-56
Logged by H. L. S

Rev		
Ed		

Summary of log ____; OBSS from ____ to ____ thick ____; SS color ____; MS ____; Cbn. ____

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
713-713.4	4			100	CG	GY	C	A	✓		Abundant Muscovite
714.1	.7			100	SS	GY	MC	A	✓		Abundant Muscovite
721.3	7.2			100	CG-SS	GY	MC	A	✓	P	Abundant Muscovite
721.8	.5			100	SS	GY	C	A	✓	P	Abundant carbon
725.6	3.8			100	SS	GY	M	A	✓	P	Abundant Muscovite
729.8	4.2			100	CG-SS	GY	MC	A	✓	P	Abundant Muscovite
740.5	10.7			100	SS	D-GY	F	A			Abundant Muscovite
741.3	.8			100	CG-SS	GY	C	S		G	
743.2	1.9			100	SS	GY	MF	S	✓		Narrow zone MS P
745.5	2.3			100	SS	GY	F	A	✓		Abundant Muscovite
748.6	3.1			100	SS	GY	C	S	✓	P	
751.1	2.5			100	MS	GY	F	S		P	Abundant MS Granular
751.5	.4			100	MS	GR-GY	F	S			R Formation
753.0	1.5			100	MS-SS	Br-R	MF	A			Abundant Biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	% U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

OFO 82917

Hole No. 6

GEOLOGIC AND ASSAY LOGS

~~U.S. GEOLOGICAL SURVEY~~
COLORADO PLATEAU DISTRICT

Drill-hole No. 7 (NX)
Inclination vertical Bearing ~~[illegible]~~
Total depth 756 1/2
Collar elev. — T 6794.9 P
Area La Sal Drilling Project (DMEA)

Map coord (T) —
Map coord (P) N 97838; E 95777
Sec. 33 T. 29S R. 24E
Co., State San Juan, Utah

Claim John David
Date completed 12-10-56
Date logged 12-11-56
Logged by H. L. S.

Rev		
Ed		

Summary of log ; OBSS from to thick ; SS color ; MS ; Cbn.

Graphic log

DRILL LOG		LITHOLOGIC LOG									
Depth	Rec ft.	Base	Thick	Rec %	Rock	Color	Grain	Access. Min's.	Cbn	MS in SS	Remarks
726-728.2	2.2			100	SS	D GY	M F	A	✓		Abundant Muscovite
730.3	2.1			100	SS	L GY	M	A	✓	G	Abundant carbon & Muscovite
735.7	5.4			100	SS	GY	M F	A	✓		Abundant carbon & Muscovite
740.5	4.8			100	SS	GY-Br	M F	A		G	Abundant Muscovite
741.0	.5			100	SS	L GY	M	A	✓	G	Abundant Muscovite
742.3	1.3			100	CG-SS	L GY	C	S	✓	P	
743.3	1.0			100	MS	GY	M F	N			Abundant SS Granules
745.3	2.0			100	SS	D-GY	M F	A	✓	G	Abundant Muscovite
746.2	.9			100	SS	L-GY	M C	S		G	
747.4	1.2			100	MS	GY	M F	S			Abundant SS Granules
748.5	1.1			100	St	GY	V F	A		G	Abundant Muscovite
749.9	1.4			100	St	GY	F	A		G	Abundant Muscovite
751.7	1.8			100	SS	GY	M	A	✓		Abundant Muscovite
752.8	1.1			100	MS	GY	F	N			Abundant SS Granules
754.0	1.2			100	SS	L GY	M F	A			Abundant Muscovite; Pa Formation
754.7	.7			100	SS	GY-Br	V F	A			Abundant biotite
756.5	1.6			100	SS	GY-Br	F	A			Abundant biotite
756.5	.2			100	SS	Br-R	F	A			Abundant biotite

Sample		Lab assay (%)			Sample		Lab assay (%)			Interval		γ-ray	γ-ray (%e) or Field est			
Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	U_3O_8 *	V_2O_5/Cu	$CaCO_3$	Base	Thick	%e U_3O_8	Base	Thick	U_3O_8	V_2O_5

*Assays marked "e" are from lab gamma-ray readings

GPO 838917

Hole No. 7

RECEIVED
FEB 13 1957
D.M.E.A.

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

September 19, 1966

Homestake Mining Company
P. O. Box 563
Moab, Utah

Re: DMEA-4294 (Uranium)
La Sal Mining & Development Co.
La Sal Project
San Juan County, Utah
Contract Idn-E1010

OFFICIAL COPY
O. M. E.
RECEIVED
SEP 26 1966

INITIALS	CODE
9/27 M	1.20 M
	1.10
	1.20 K
	1.220

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

MME Form 63
Revised 7-65

REQUEST FOR INFORMATION ON CERTIFIED PROJECT
AND PROJECT UNDER ROYALTY AGREEMENT

From March 1966, to September 19, 1966

1. ~~XXXXX~~ , has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes [ ] No [X]

Has the assessment work on the unpatented mining claims been kept up to date? If not, please give details. **Yes [X] No [ ]**

From March 1966, to September 19, 1966

2. ~~XXXXX~~ , has there been any production from the land subject to the contract? Yes [ ] No [X]

A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

3. Since , has any production been transported through workings (see of contract)? Yes [ ] No [ ]

If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name Edward F. Jacobson, Jr. Title **Manager**

Edward F. Jacobson, Jr.

Address **Box 563, Moab, Utah** Date **September 23, 1966**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON, D.C. 20242

IN REPLY REFER TO:

OFFICIAL COPY
O. M. E.
RECEIVED
MAR 14 1966
INITIALS | CODE
3/14 | 110 120 220

March 2, 1966

Homestake Mining Company
P. O. Box 563
Moab, Utah

Re: DMEA-4294 (Uranium)
LaSal Mining & Development Co.
LaSal Project
San Juan County, Utah
Contract Idm-E1010

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

(Signed) FRANK E. JOHNSON

Frank E. Johnson
Chief, Office of
Minerals Exploration

MME Form 63
Revised 7-65

DMEA-4294
Idm-E1010

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since **September 1964**, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes [ ] No [x]

Has the assessment work on the unpatented mining claims been kept up to date? If not, please give details. Yes [x] No [ ]

2. Since **September 1964**, has there been any production from the land subject to the contract? Yes [ ] No [x]

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

3. Since through workings (see , has any production been transported of contract)? Yes [ ] No [ ]

   If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by: Edward F. Jacobson, Jr.

Name **Edward F. Jacobson, Jr.** Title **Manager**

Address **Box 563, Moab, Utah** Date **March 7, 1966**

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

September 14, 1964

Re: DMEA-4294 (Uranium)
LaSal Mining & Development Co
LaSal Project
San Juan County, Utah
Contract Idm-E1010

Homestake Mining Company
P. O. Box 563
Moab, Utah

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

George C. Selfridge

George C. Selfridge, Chief
Division of Exploration Operations

OFFICIAL FILE COPY
O. M. E
RECEIVED SEP 25

DATE	INITIALS	
		100
9/25	KJ	~~110~~
10/1	mm	120 mm
		~~120~~
		220

MME Form 63
Revised 3-62

DMEA-4294
Idm-E1010

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since September 1963 , has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☒

   On December 31, 1962 La Sal Mining & Development Co. was consolidated into Homestake Mining Company (Homestake owned 100% of the outstanding stock of La Sal Mining) Homestake Mining Company, Box 563, Moab, Utah is operating former La Sal Mining & Development Co. property.

2. Since September 1963 , has there been any production from the land subject to the contract? Yes ☐ No ☒

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity		Estimated Grade	Location
Ore		Tons		
Concentrates		Tons		
Other		Tons		

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name Lon C. Campbell Title Manager

Address P. O. Box 563, Moab, Utah Date September 22, 1964

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

September 18, 1963

Re: DMEA-4294 (Uranium)
LaSal Mining & Development Co
LaSal Project
San Juan County, Utah
Contract Idm-E1010

OK for 1964

Homestake Mining Company
~~LaSal Mining & Development Co.~~
Box 563
Moab, Utah

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

F M Murphy

F. M. Murphy, Acting Chief
Division of Minerals

OFFICIAL FILE COPY
RECEIVED SEP 30 1963

DATE	INITIALS	
9/30		800
		120
9/30		100
10/4	Murphy	110
		500
		220

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since May 14, 1962, has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes [x] No [ ]

On December 31, 1962 La Sal Mining & Development Co. was consolidated into Homestake Mining Company (Homestake owned 100% of the outstanding stock of La Sal Mining) Homestake Mining Company, Box 563, Moab, Utah is operating former La Sal Mining & Development Co. property

2. Since May 14, 1962, has there been any production from the land subject to the contract? Yes [ ] No [x]

A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity	Estimated Grade	Location
Ore	Tons		
Concentrates	Tons		
Other	Tons		

3. Since , has any production been transported through workings (see of contract)? Yes [ ] No [ ]

A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name Gordon M. Miner Title MANAGER

Address P. O. Box 563, Moab, Utah Date September 24, 1963

4511

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
WASHINGTON 25, D. C.

MAY 9 1962

OFFICIAL FILE COPY
O. M. E.
RECEIVED MAY 18 1962

DATE	INITIALS	CODE
5/17		800
5/30		100
5/14		~~100~~
5/21	Griswold	500
2/21	Murphy	500

Re: DMEA-4294 (Uranium)
LaSal Mining & Development Co.
LaSal Project
San Juan County, Utah
Contract Idm-E1010

LaSal Mining & Development Co.
Box 563
Moab, Utah

Gentlemen:

After the completion of the approved exploration work under the contract identified above, we asked to be informed about changes in the status of the property and production from it during the period of royalty obligation.

To assist you to furnish this information and to assure the accuracy of our records, please answer the questions on the back of this letter and return two copies to this office with copies of any pertinent documents.

Sincerely yours,

Willis R. Griswold

Willis R. Griswold, Chief
Division of Minerals

MME Form 63
Revised 3-62

REQUEST FOR INFORMATION ON CERTIFIED PROJECT AND PROJECT UNDER ROYALTY AGREEMENT

1. Since January 1, 1960 , has there been a change in ownership, lease, or sublease? If yes, please state details of the transaction below and provide a true or signed copy of the pertinent documents, unless they have been provided before. Yes ☐ No ☒

2. Since January 1, 1960 , has there been any production from the land subject to the contract? Yes ☐ No ☒

   A. If so and it was shipped, give quantity, value, and name and address of purchaser.

	Quantity	Value

   B. If stockpiled awaiting sale, state quantity, grade, and location.

Type	Quantity	Estimated Grade	Location
Ore	Tons		
Concentrates	Tons		
Other	Tons		

3. Since , has any production been transported through workings (see of contract)? Yes ☐ No ☐

   A. If so, state quantity, value, and disposition of material.

Disposition of Material	Quantity	Value

Submitted by:

Name Gordon M. Menin Title Manager

Address Box 563, Moab, Utah Date May 14, 1962

4511

OME, REGION III

Statement in Lieu of Semiannual Report

Reporting Period to January 1, 1960
Docket and Contract Number DMEA 4294, Idm-E1010 (Uranium)
Operator La Sal Mining & Development Company (La Sal Project)
San Juan County, Utah

The project has been inactive during the reporting period [x]

Pertinent data relative to the subject contract has remained unchanged since the last report [x]

Remarks:

Signed H. M. Connors
H. M. Connors

Date February 11, 1960

10-13-58 Kuarne

224 New Customhouse
Denver 2, Colorado
October 8, 1958

Memorandum

To: Chairman, Operating Committee, ONE

From: Acting Executive Officer, ONE Field Team, Region III

Subject: Certified projects inactive during reporting period, January 1, 1958 - June 30, 1958

Enclosed is a list of certified projects whose status has not changed since the previous semiannual report.

/s/ E. N. Harshman

List enclosed (From H. F. Roberts to Region III, 9/23/58) is as follows:

DMEA-3117 Idm-E633 Clarence Louis Neilson, San Miguel County, Colo.

DMEA-3550 Idm-E782 Radium Hill Uranium, Inc., Montrose County, Colo.

DMEA-1957 Idm-E397 Ellihill Mining Company, San Juan County, Utah

DMEA-2705 Idm-E485 J.G. and G. L. Shumway, San Juan County, Utah

DMEA-2771 Idm-E577 Gramlich Exploration Co., San Juan County, Utah

DMEA-3266 Idm-E733 Big Indian Uranium Corp., San Juan County, Utah

DMEA-3297 Idm-E800 Continental Uranium, Inc., San Juan County, Utah

DMEA-3896 Idm-E910 Hecla Mining Company, San Juan County, Utah

DMEA-4086 Idm-E949 David Berwick, San Juan County, Utah

DMEA-4222 Idm-E1003 Radium King Mines, Inc., San Juan County, Utah

DMEA-4294 Idm-E1010 La Sal Mining & Dev. Co., San Juan County, Utah

cc: Wingfield M. Chamberlain on 10/13/58

DMEA Form 18
Feb. 58

DEFENSE MINERALS EXPLORATION ADMINISTRATION

ANALYSIS OF SEMIANNUAL REPORT OF CERTIFIED PROJECT

Prepare in duplicate. File original in Official Docket. Send copy

To: Statistics Branch (Code 210)

From: Division of **Rare & Misc. Metals**

Report Period: 7/1/57-12/31/57

DMEA No.	Operator	Contract No.
4294	La Sal Mining & Development Co.	Idm-E1010

ORE ESTIMATES

	Tons	Analysis
DMEA	11 520	0.24% U_3O_8
Operator to date	None	
Total		
Production to date	None	
Ore in ground	11 520	0.24% U_3O_8

INVESTMENT

Type	Size		Feet	Cost
Shafts				
Winzes				
Drifts and Crosscuts				
Raises				
Drilling	Type			
Rehabilitation	Description			

FACILITIES

Mine Plant		
Mill		
Roads		

REMARKS

Inactive

Prepared by Thomas Date 4-3-58

31398

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration
224 New Customhouse
Denver 2, Colorado

March 21, 1958

ORIGINAL FILE COPY
DMEA
RECEIVED MAR 27 1958

DATE	INITIALS	CODE
3-27	C	220
27	Com	100
"	739	110
3/28	EEG	800
4/2/58	Kuonse	700

Memorandum

To: Chairman, Operating Committee, DMEA

From: Executive Officer, DMEA Field Team, Region III

Subject: Semiannual Report of Certified Project for the period July 1, 1957 through December 31, 1957

DMEA Docket 4294
Contract Idm-E 1010
La Sal Mining and Development Co. (La Sal Project)
San Juan County, Utah

Enclosed are the original and three copies of the subject report prepared in conformance with instructions contained in memorandum of January 6, 1956 from this office, Memorandum 29, and Special Notice in Minutes of Operating Committee Meeting No. 692.

JW Lonsvel
for W. H. King
Executive Officer, DMEA
Field Team, Region III

Enclosures
MHM:dp

cc: Semiannual Report File E 1010
DMEA/SLC
Harshman
Chron.

To be put on inactive list for Chamberlain

Semiannual Report of Certified Projects

Reporting Period	July 1, 1957 through Dec. 31, 1957
Docket and Contract Number	DMEA 4294, Contract Idm-E1010
Operator	La Sal Mining and Development Co.
Commodity	Uranium
Mine Name	La Sal Mining and Development Co. (La Sal Project)
County and State	San Juan County, Utah
Date of Contract	September 19, 1956
Date of Certification	August 12, 1957
Expiration Date of Royalty Payments	September 19, 1966
Date of Examination for this Report	February 13, 1958
Total Amount of Contract	$87,132.00
Total Expenditures under Contract	46,700.11
Amount of Government Participation at 75 %	35,025.09
Royalty Payments this Period	None
Previous Royalty Payments	None
Total Royalty Payments to Date	None
% Loan Repayment Completed	----
Amount of Royalty Due	None
Royalty Remarks	

PF/sl

	Tons	Analysis % U_3O_8
Original Estimate of DMEA Reserves (Field Team Final Report) Mines [ ] Survey [ ] Joint [X]	11520	0.24
Revised Estimate of DMEA Reserves (Field Team) Mines [ ] Survey [ ] Joint [ ]		
Increase of Reserves by work performed subsequent to DMEA project work		
Production DMEA {conc / ore} (This period)		
(Previous)		
(To Date)		
" Operator's {conc / ore} (This period)		
(Previous)		
(To Date)		

Percent Revised Reserves Mined _____

(For Uranium Ores Only)

Initial Production Bonus:

Status Operator: Ineligible [ ] Not Applied [X] Applied [ ] Rec'ing pmt [ ] Pd up [ ]

Pounds U_3O_8 produced this period eligible for Bonus _____

Amount of Bonus paid to Operator this period $_____

Total pounds U_3O_8 produced to date eligible for Bonus _____

Total amount of Bonus paid to Operator to date $_____

Bonus Royalty Paid $_____

Bonus Royalty Due $_____

Investment Data

Shafts Size	Shafts Feet	Shafts Cost	Winzes Size	Winzes Feet	Winzes Cost	Drifts & Crosscuts Size	Drifts & Crosscuts Feet	Drifts & Crosscuts Cost

Raises Size	Raises Feet	Raises Cost	Rehabilitation Description	Rehabilitation Cost	Drilling Type & Size	Drilling Feet	Drilling Cost

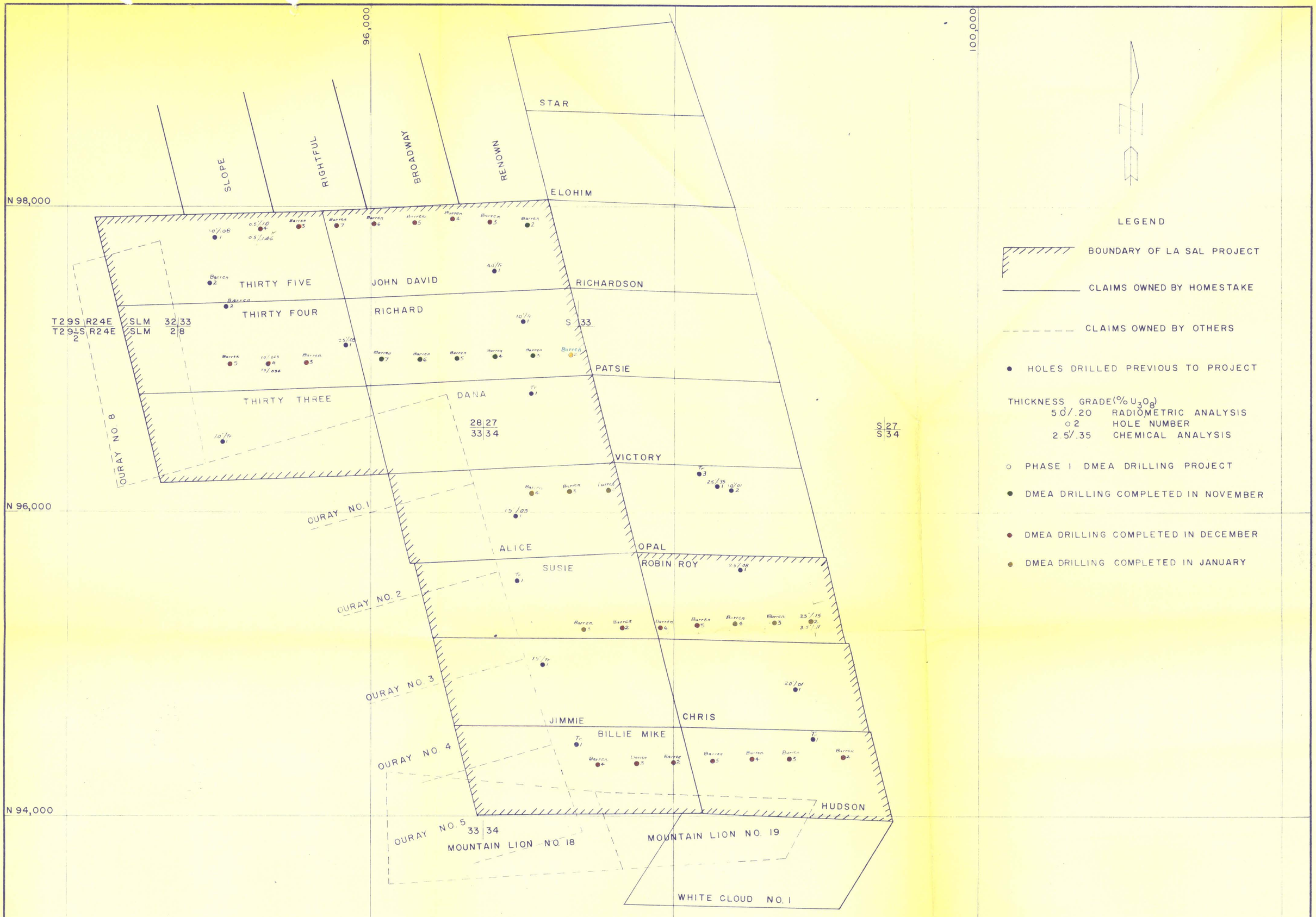
Facilities

Mine Plant Description	Mine Plant Cost	Mill Description	Mill Cost	Roads Description	Roads Cost

Remarks

Project has been inactive and data have remained unchanged.

Signed P. V. Fillo (Engineer)



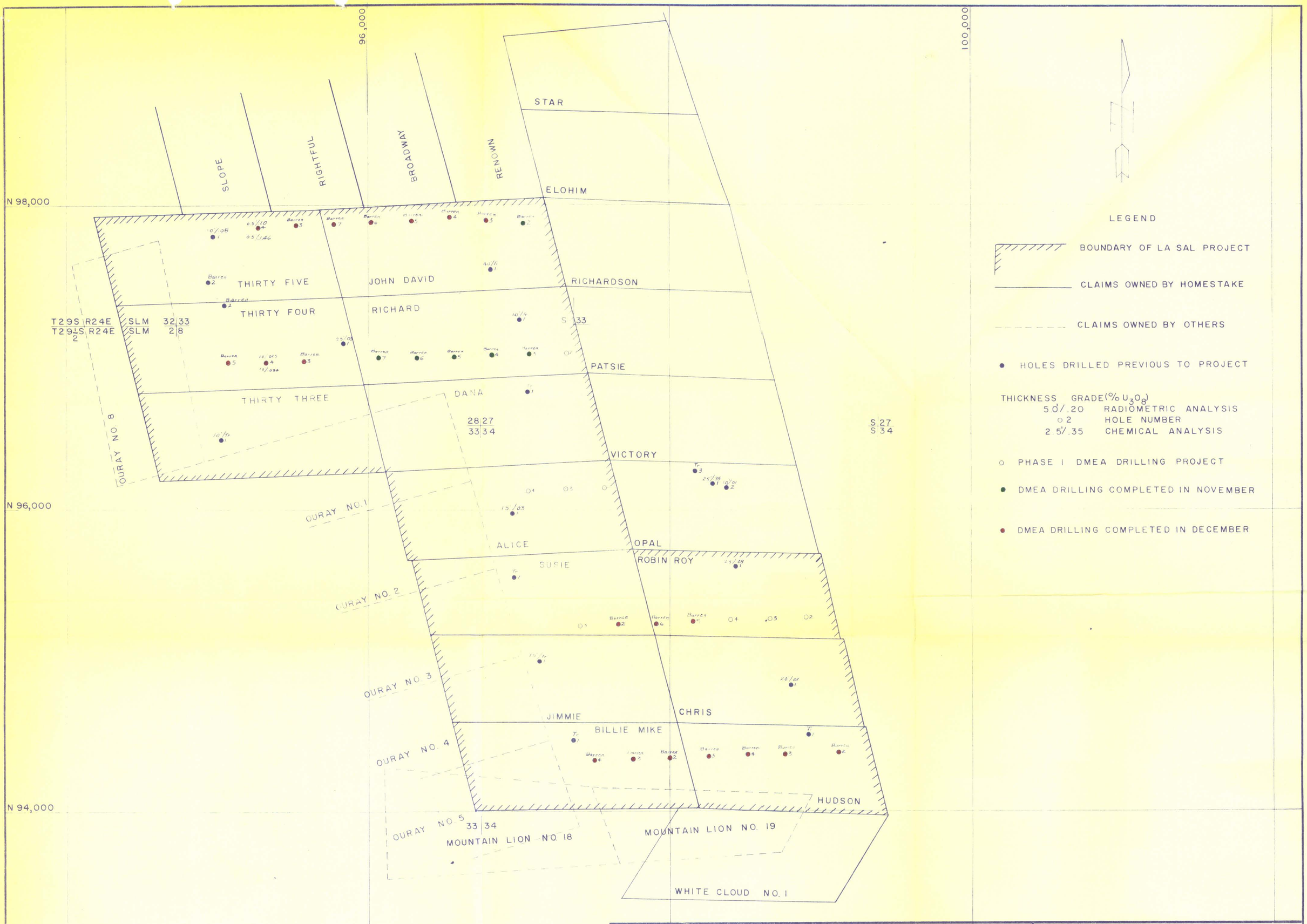
DATE	BY	REVISIONS

[redacted]
[redacted]
DEPARTMEMT

DRAWN BY HLS APPROVED
TRACED SCALE 1" = 400'
CHECKED DATE 11-26-56

LA SAL MINING & DEVELOPMENT CO.
DMEA DRILL HOLE LOCATIONS
SAN JUAN COUNTY, UTAH
DWG. NO.

K+E ALBANENE 196L ® TRACING PAPER



DATE	BY	REVISIONS

[redacted]
[redacted]
DEPARTMEMT

DRAWN BY HLS APPROVED
TRACED SCALE 1" = 400'
CHECKED DATE 11-26-56

LA SAL MINING & DEVELOPMENT CO.
DMEA DRILL HOLE LOCATIONS
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