UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF MINERALS EXPLORATION
Box 431
Joplin, Missouri

April 7, 1959

OFFICIAL FILE COPY
O. M. E.
RECEIVED APR 10 1959

DATE	INITIALS	CODE
4/10	C	220
"	[illegible]	110
4/13	[illegible]	700

OME Operating Committee
Office of Minerals Exploration
Department of the Interior
Room 4457 - Interior Bldg.
Washington 25, D. C.

Re: DMEA-4312(uranium)
Briscoe County Uranium Co.
Rattlesnake Mine
Briscoe County, Texas
Project Contract Idm-E1142

Dear Sirs:

Forwarded herewith are your two copies of the MF-104 Monthly Voucher and one copy of the MF-104A and the (final) Monthly Report by the cited Operator covering the May, 1958 work. The voucher data received from the Finance Officer is posted on both copies of the MF-104s.

Your other copy of the MF-104A and the Monthly Report was furnished for your advance information January 8, 1959.

Sincerely yours,

Clinton C. Knox

Clinton C. Knox
Executive Officer
OME Field Team, Region IV

encl. 4

cc: OME Op.Com.
King, USGS, Denver
4312 file

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

Budget Bureau No. 42-R1036.5

APR 10 1959

Sent to Wash. 1/8/59

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

Month of May, 1959 Docket No. DMEA 45120 Contract No. Idm-E1142
Operator's Name Briscoe County Uranium Company Minerals Uranium
Address 515 Oakland Street Plainview, Texas
Contract Amount, $ Government Participation: 75 % Amount, $

ITEMS OF COSTS	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 non-core	1029.80	1630.20	2660.00	594.70	1328.10	1922.80
Bulldozing		1037.50	1037.50	—	1037.50	1037.50
Crosscutting						
Drifting						
core drilling	186.00		186.00	186.00	—	186.00
(2) Labor and Supervision:						
Labor						
Supervision	500.00	1150.00	1650.00	500.00	1150.00	1650.00
Technical Services	300.00	100.00	400.00	300.00	100.00	400.00
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Power						
Tools						
(4) Operating Equipment:						
Rental	135.00	310.00	445.00	135.00	310.00	445.00
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis		68.07	68.07	—	68.07	68.07
Payroll Taxes	11.25	25.88	37.13	11.25	25.88	37.13
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2162.05	4321.65	6483.70	1726.95	4019.55	5746.50

RECEIVED DIVISION OF MINERAL TECHNOLOGY JUN 30 1958 BUREAU OF MINES JOPLIN, MO.

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

Date June 14, 59 Payee Briscoe County Uranium Co.

Per Jack Barnes Title Executive Partner

*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:

$ 1,295.21

Signature
(Authorized Certifying Officer)

Date April 2, 1959 Vou. No. 4-23

(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. Idm-E1142 in accordance with the terms of the contract.

Signature John W. Chester Title Mining Engineer Date Dec. 15, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Clinton C. Knox Title Executive Officer Date Mar. 26, 1959

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.

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DIVISION OF MINERAL
TECHNOLOGY

APR 24 1959

BUREAU OF MINES
JOPLIN, MO.

Division of Administration

Room 206 Federal Building
Bartlesville, Oklahoma

April 3, 1959

Memorandum

To: Clinton C. Knox

From: Cora A. Bailey

Subject: Payment of MF-104, Contract IDM-E-1142 for May 1958 and Final.

Payment was made April 2, 1959 on the May 1958 (and Final) MF-104 for Contract IDM-E-1142. The Voucher No. was 4.-23, in the amount of $1,295.21.

Cora A. Bailey
Fiscal Officer, Reg. IV

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

2nd Copy - Wash.

RECEIVED
DIVISION OF MINERAL TECHNOLOGY
JUN 30 1958
BUREAU OF MINES
JOPLIN, MO.

MF-104 retained in Joplin 7/8/58

JAN 12, 1959
O.M.E.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of May 195 8 Docket No. DMEA 4312 Contract No. Idn-E1142
Operator's Name Briscoe County Uranium Co. Minerals Uranium
Address 515 Oakland Street Plainview, Texas

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core	ft.	280.00	120	280.00	120	2.33	150	
~~Short~~ non-core	ft.	~~1962.05~~	~~1036~~	~~4230.07~~	~~2600~~	1.78	2600	
Auger		[illegible]	636	[illegible]	2024			
Stripping								
Trenching (bulldozing)	hr.	—		1978.63	63	31.38	350	
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.		1726.75		5746.50				
TOTAL COSTS		~~2162.05~~		~~6483.70~~				[illegible]

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

Date June 14, 1958 Operator Briscoe County Uranium Co.

Per [signature] Title Executive Partner

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)

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

SUMMARY OF WORK DONE IN MAY

Following inspection by the field team, Mr. Chester and Mr. King, work was begun on slightly revised hole locations labeled on this Exhibit No. 1 Map as lines V, VI and VII. This change was suggested by the operator because of hole No. 2 in line III, which had encountered more radioactivity than any other hole drilled in April, and the proposal was that two short fences to the northeast would eliminate any trend developing from the trench work to the southwest of hole No. 2, line III, and headed in a northeasterly direction. Exhibit No. 2 shows that the drilling in lines V and VI did uncover what is possibly an extension of a trend, but if so, a trend which is decreasing in mineralization to the northeast.

Originally it was proposed to drill in line VII 2 holes spaced at 100-foot intervals on either side of core hole No. 2 (see Exhibit No. 1), but results from this core hole and holes No. 3 and 4 discouraged the operator from drilling holes No. 1 and 2 in this line and a new location was made at hole No. 5, since this would probably intercept the mineralization which appears to be on the northwest flank of a channel as delineated by holes No. H28 and hole No. 5, both in line I. As will be noted on Exhibit No. 2, hole No. 5, line VII did, in this writer's estimation, pick up the edge of this channel, but it was not mineralized.

The sampling and storage of samples followed the same procedure described in the summary for last month, and the core holes

were drilled and cores preserved, but since there were no discernible radioactive intervals no cores were analyzed. The coring could not be done from the surface; because of the type of drill used, it was necessary to provide 10 or more feet of non-core hole to accommodate the kelly.

The reports for the months of April and May are being submitted at the same time because the operator felt it necessary to complete the drilling in the month of May that was last authorized by Messrs. King and Chester on May 12; and having only approximately two weeks, it was necessary for the superviser to neglect the April report in favor of necessary surveying and mapping, etc. Exhibits No. 1 and 2 include the work done in April as well as May; and if necessary, the operator will be glad to furnish extra copies. These two exhibits are the only papers which contain information for both reports.

Descriptive Log of Core Hole No. 1
Location 2.68, V plus 30'

Core Hole No. 1 Collar Elev. 928.7

From	To	Description
0	20	non-core 0-13 sandstone 13-20 red SiS (with some thin beds of grey shale)
20	20.8	buff sandstone with crossbedding
20.8	21.2	red siltstone
21.2	21.7	conglomerate- angular to sub-angular 3/8" to 1½" in size, SS matrix.
21.7	23.8	zone of interbedded coarse grain SS and conglomerate, ratio 1 to 2.
23.8	26.0	buff coarse grain sandstone with mica flakes
26.0	27.0	red SiS
27.0	35.0	zone of interbedded pink siltstone and fine grain grey sandstone, ratio 1 to 1
35.0	41.1	red siltstone (1/10 of section is interbedded grey shale).
41.1	41.4	fine grain grey sandstone with many mica flakes.
41.4	42.6	red siltstone
42.6	43.7	white medium grain sandstone
43.7	52.8	buff med. grain sandstone
52.8	53.1	sandy limestone
53.1	53.4	sandy limestone with carbonaceous particles
53.4	56.0	buff med. grain sandstone with mica
56.0	59.1	zone of interbedded grey shale and red siltstone, ratio 1 to 1.
59.1	59.5	grey shale
59.5	59.7	grey calcareous sandstone (hard)

Log of core hole no. 1 (cont'd.)

From	To	
59.7	59.9	grey shale
59.9	60.8	buff med. grain sandstone
60.8	61.1	sandy limestone with carbonaceous matl.
61.1	68.3	buff med. grain sandstone
68.3	69.2	pink siltstone
69.2	73.7	zone of interbedded grey fine grain ss., grey shale, and pink siltstone in ratio 4-1-1.
73.7	76.3	zone of interbedded red siltstone and grey shale, ratio 3 to 1.
76.3	81.6	buff med. grain sandstone, some mica.
81.6	81.9	sandy limestone
81.9	90.0	buff med. grain sandstone.

Total Depth 90.0'

Descriptive Log of Core Hole No. 2
Location 2.56, J plus 40'

Core Hole No. 2 Line VII Collar Elev. 908

From	To	Description
0	10	non-core, sandstone
10.0	11.0	buff med. grain sandstone
11.0	11.3	calcareous conglomerate
11.3	23.4	buff med, grain sandstone
23.4	24.3	sandy limestone with small am't. carbonaceous material.
24.3	32.9	coarse grain sandstone, occassionally interbedded with conglomerate.
32.9	34.5	buff sandstone
34.5	35.7	red siltstone
35.7	36.2	grey shale
36.2	39.6	calcareous medium to coarse grain sandstone with scattered carbonaceous material and limonite stains- considerable carbonaceous material in the interval 38.0-38.8
39.6	49.9	buff med. grain sandstone
49.9	55.0	red siltstone
55.0	60.0	interbedded medium to coarse grain sandstone and conglomerate, 1 to 1.

Total Depth 60.0'

Location 3.03, U plus 160'

Hole No. 1 Line V Cellar Elev. 900

From	To	Description
0	4	buff SS
4	12	red SiS
12	21	grey shale
21	24	buff SS
24	26	red SiS
26	48	buff SS
48	53	grey shale
53	68	buff SS
68	74	sandy shale
74	80	red SiS

Total Depth 80'

Location 2.97, U plus 90'

Hole No. 2 Line V Collar Elev. 912

From	To	Description
0	26	red SiS
26	76	buff SS
76	77.5	sandy LS
77.5	78	buff SS
78	80	sandy LS
80	86	red SiS

Total Depth 86'

Location 2.08, U plus 30'

Hole No. 3 Line V Collar Elev. 919

From	To	Description
0	4	buff SS
4	6	grey shale
6	30	red SiS
30	59	buff SS
59	62	red SiS
62	68	zone of interbedded grey shale and red silt stone
68	82	buff SS
82	84	red SiS
84	86	buff SS
86	92	red SiS

Total Depth 92'

Location 2.82, T plus 160'

Hole No. 4 Line V Collar Elev. 920

From	To	Description
0	8	buff SS
8	30	red SiS
30	39	zone of interbedded grey shale and red silt stone, ratio 1 to 1.
39	58	buff SS
58	60	grey shale
60	65	red SiS
65	80	sandy shale
80	83	sandy LS
83	94	buff SS
94	100	red SiS

Total Depth 100'

Location 2.75, 2 plus 70'

Hole No. 5 Line V Collar Elev. 923

From	To	Description
0	37	red and pink SiS
37	60	buff SS
60	62	red SiS
62	77	grey shale
77	90	buff SS
90	103	sandy shale
103	110	red SiS

Total Depth 110'

Location 2.93, V plus 140'

Hole No. 1 Line VI Collar Elev. 895

From	To	Description
0	6	grey shale
6	18	sandy shale
18	43	buff SS
43	54	sandy grey shale
54	60	buff SS
60	69	grey shale
69	77	buff SS
77	82	red SiS

Total Depth 82'

Location 2.87, V plus 70'

Hole No. 2 Line VI Collar Elev. 903

From	To	Description
0	12	red SiS
12	16	grey shale
16	19	sandy shale
19	44	buff SS
44	47	red SiS
47	56	grey shale
56	70	sandy shale
70	75	red SiS
75	78	buff SS
78	86	red SiS

Total Depth 86'

Location 2.78, V

Hole No. 3 Line VI Collar Elev. 933

From	To	Description
0	16	buff SS
16	25	sandy shale
25	36	red SLS
36	43	grey shale
43	46	red SLS
46	50	buff SS
50	53	sandy shale
53	63	buff SS
63	76	red SLS

Total Depth 76'

Location 2.72, U plus 130'

Hole No. 4 Line VI Collar Elev. 939.5

From	To	Description
0	24	buff SS
24	28	red SiS
28	33	buff SS
33	40	red SiS
40	43	sandy shale
43	50	red SiS
50	70	buff SS
70	75	sandy LS
75	93	red silt stone
93	95	grey shale
95	100	red SiS

Total Depth 100'

Location 2.64, U plus 60'

Hole No. 5 Line VI Collar Elev. 928

From	To	Description
0	6	buff SS
6	10	red Sil
10	12	grey shale
12	29	red Sil
29	32	grey shale
32	37	red Sil
37	40	grey shale
40	44	sandy shale
44	59	buff SS
59	72	sandy shale
72	77	red Sil

Total Depth 77'

Location 2.47, J

Hole No. 3 Line VII Collar Elev. 915.2

From	To	Description
0	6	sandy shale
6	26	buff SS
26	32	zone of interbedded sandstone and red silt stone, ratio 2 to 1
32	51	buff SS
51	58	red SiS

Total Depth 58'

Location 2.37, H plus 140'

Hole No. 4 Line VII Collar Elev. 924.6

From	To	Description
0	20	buff SS
20	26	zone of interbedded sandy LS and sandy shale, ratio 1 to 1.
26	57	buff SS
57	62	red SiS

Total Depth 62'

Location 2.2S, H plus 80'

Hole No. 5 Line VII Collar Elev. 925

From	To	Description
0	2	red SiS
2	22	buff SS
22	26	sandy shale
26	29	buff SS
29	38	zone of interbedded sandy limestone and sandy shale, ratio 1 to 1.
38	40	red SiS
40	45	grey shale
45	47	sandy LS
47	50	grey shale
50	54	buff SS
54	60	red SiS
60	71	buff SS
71	80	red SiS

Total Depth 80'

THE BROWN LABORATORY

2263 Broadway
GRAND JUNCTION, COLORADO

ANALYTICAL DEPARTMENT

CHapel 2-4589

CERTIFICATE OF ANALYSIS

TO

Brisco County Uranium Company
c-o Dick Garner
515 Oakland Street
Plainview, Texas

Date 6-17-58
Order No. 10902-S

Material: Ore Sample
Received: 6-16-58
For: Analysis

Lab. No.	Your No.	Description	Radiometric %eU3O8	Chemical %U3O8	%V2O5	%CaCO3
10902-1	# 2 III 46' Hole Line Depth	44' to 46'		0.03		

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DIVISION OF MINERAL TECHNOLOGY
JUN 30 1958
BUREAU OF MINES
JOPLIN, MO.

H.D. Brown
Analyst.

By [illegible]

Radiometric Log Hole #2 Line V

From	To	Radiation in MR/Hr.
0	74.0	nil
74.0	74.2	.05
74.2	85	nil

Radiometric Log Hole #1 Line VI

From	To	Radiation in MR/hr.
0	60.9	.02
60.9	62.0	.19
62.0	62.7	.04
62.7	72.4	.03
72.4	78.4	.05

Radiometric Log Hole #2 Line VI

From	To	Radiation in MR/hr.
0	60	nil
60	62	.04
62	64.8	.045
64.8	65.5	.12
65.5	65.8	.08
65.8	66.2	.04
66.2	86.9	nil

Hon Conv		Conv	
ft	cost	ft	cost
2260'	$2147.00	150'	$232.50
	800.00		200.00
	150.00		$432.50
	25.88		
	$3122.88		

Bulldozing. $1973.63
160.00
250.00
$2383.63

Sample analyses 68.07

Line I

No. Holes	Depth
1	100'
2	100
3	80
4	80
5	80'
6	80
7	64
8	46
9	43
10	60
	733'

Line III

No. Holes	Depth
1	57
2	54
3	43
4	58
5	65
6	40
7	76
8	70
9	40
10	100
11	80
12	80
13	80
14	54
	901'

Line V

No Holes	Depth
1.	80'
2	86'
3	92
4	Disturbed.
5	100'
	358'

Line VII

No Holes	Depth
3	No cuttings
4	" "
5	" "

Line VI

No Holes	Depth
1	82
2	86
3	Not deep enough
4	100
5	cuttings not saved.
	268

Core Holes

No 2 Line I 60'

No 1 Line III 90'

150'

Total Non core = 2260' ft. $.95 = $2147.00

core 150' " x $1.55 = 232.50

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
Box 431
Joplin, Missouri
August 11, 1958

Cys to 100 & 800

DMEA
RECEIVED AUG 13 1958

DATE	INITIALS	CODE
8/13	J.J. 9.	225
"	JG	110
8/14	~~[illegible]~~	700

DMEA Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Room 4457 - Interior Bldg.
Washington 25, D. C.

Re: DMEA-4312(uranium)
Briscoe County Uranium Co.
Rattlesnake Mine
Briscoe County, Texas
Project Contract Idm-E1142

Dear Sirs:

Forwarded herewith are your two copies of the MF-104 Monthly Voucher and MF-104A with the Monthly Report by the cited Operator covering the April work. The voucher data received from the Finance Officer is posted on both copies of the MF-104s.

Sincerely yours,

Clinton C. Knox

Clinton C. Knox
Executive Officer
DMEA Field Team, Region IV

encl. 6

cc: DMEA Op.Com.
King,USGS,Denver
4312 file

2d cy DMEA Wash.

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

Budget Bureau No. 42-R1036.5

RECEIVED AUG 13 1958 D.M.E.A.

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

Month of April 1958 Docket No. DMEA 4812 Contract No. Idm-E1142
Operator's Name Briscoe County Uranium Co. Minerals Uranium
Address 515 Oakland Street Plainview, Texas
Contract Amount, $ Government Participation 75 % Amount, $

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 non-core	1630.20		1630.20	1328.10	—	1328.10
Bulldozing		1037.50	1037.50	—	—	—
Crosscutting						
Drifting						
core drilling	—	—	—	—	—	—
(2) Labor and Supervision:						
Labor						
Supervision	500.00	650.00	1150.00	—	—	—
Technical Services		100.00	100.00	—	—	—
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental	170.00	140.00	310.00	—	—	—
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	36.57	31.50	68.07	—	—	—
Payroll Taxes	11.25	14.68	25.93	—	—	—
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	2348.02	1973.63	4321.65	2,045.92	1,973.63	4,019.55

RECEIVED DIVISION OF MINERAL TECHNOLOGY JUN 30 1958 BUREAU OF MINES JOPLIN, MO.

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

Date June 14, '58 *Payee Briscoe County Uranium Co.

Per Rick Garner Title Executive Partner

*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:

$1,534.44

Signature
(Authorized Certifying Officer)

Date Aug. 5, 1958 Vou. No. 4-07
(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. Idm-E1124 in accordance with the terms of the contract.

Signature John W. Chester Title Mining Engineer Date July 25, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Robert W. King Title Acting Executive Officer Date July 25, 1958

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 1962)

Budget Bureau No. 42-R151.2

RECEIVED
DIVISION OF MINERAL TECHNOLOGY
JUN 30 1958

RECEIVED
AUG 13 1958
D.M.E.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR

DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

BUREAU OF MINES
JOPLIN, MO.

Month of April 1959 Docket No. DMEA 4512
Operator's Name Briscoe County Uranium Co. Minerals Uranium
Address 515 Oakland Street Plainview, Texas

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core		2045.92	1398	2045.92	1398			
~~Churn~~ non-core ft.		2349.02	1716	2349.02	1716		2000	
Auger								
Stripping								
Trenching (bulldozing) hr.				1973.63	93		350	
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		2349.02		4321.65				

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:

Date June 14, 1959 Operator Briscoe County Uranium Co.

Per [signature] Title Executive Partner

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)

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

SUMMARY OF WORK DONE IN APRIL

Drilling was started and completed on Lines I and III. The cuttings were caught with a cyclone type sampler and cut, half of the sample being preserved in labeled sacks in two small shacks located approximately two miles north of the work. The holes were probed with a Babbell geiger-mueller tube deep hole probe and recorded with an Esterline-Angus Recorder. Due to the bulk involved with reproducing all these records where no radioactivity above the background level was found, only the records which showed perceivable changes have been reproduced, the other charts being held by the superviser for inspection at any time. Collar elevations of the holes as well as the locations were run with a plane table and Alidade. The lithology of each hole as determined by the drill bit from samples are shown on the descriptive logs included with this report. A graphic representation in the form of cross sections along the fences can be found on Exhibit No. 2.

EXPLANATION OF EXHIBIT NO. 1

This is a map similar to the original map filed by us with the contract application with the exceptions that a location grid has been added and corrections in the elevation contours have been made where detailed elevations have been found along the fences. The datum on the elevation contours is arbitrary and have been changed in order to have no negative numbers.

The grid system employs letters for location north and south in the section, and each letter designates a grid line spaced at a 200-foot interval. The references made in this report to locations on this exhibit will show a letter followed by "plus" and a number. This number designates the number of feet in a southerly direction from the grid line designated by the letter. The numbers along the top of the map designate the distance in thousands of feet from the west section line. The intermediate lines while not marked on the map will be referred to in the location references; for example, the trail entering at the top of the map would be referred to in location as 1.53, A plus 0'.

The bulldozer trench work which was shown in detail along with explanations on the last monthly report submitted has been transferred in total to the south central portion of this map and no further explanation will be given, with the exception that two trenches which were actually cut during the same period of time but did not appear on the plat with the other bulldozer

work are now shown at the location 2.15, N.

In the lower half of the section approximately paralleling grid line 2.4 a new trail has been noted which was dozed during the progress of this work but for which no application of any money has been or will be made.

Attention is called to the location of hole No. 5 in line VII which was relocated by the field superviser of this project in order to try to pick up the edge of a supposed channel noted in line I. This change did uncover, as can be seen on Exhibit No. 2, more of the limestone section than in holes 3 and 4, although, unfortunately, with no more radioactivity.

Location 2.10, F plus 170'

Hole No. ~~XX~~ 10 14 Line L_{II} Collar Elev. 951.1

From	To	Description
0	12	SS
12	27	Red SiS
27	54	SS
54	57	grey shale
57	60	Red SiS
60	70	SS
70	89	Sandy shale
89	90	Pink SS
90	100	Red SiS

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
Box 431
Joplin, Missouri
March 20, 1958

GEOLOGICAL DATA CENTER
DMEA
RECEIVED MAR 24 1958
DATE | INITIALS | CODE
3/24 | C | R
3/17 | [illegible] | [illegible]
3/18 | FLK | 700

Memorandum

To: Robert U. King, USGS, Denver, Colorado

From: Executive Officer, DMEA Field Team, Region IV

Subject: February MF-104 Report - Briscoe County Uranium Co. DMEA-4312(uranium), Rattlesnake Mine project, Contract Idm-E1142

Furnished herewith for your information is a fifth copy of the cited MF-104 Report received from the Operator this morning. It did not contain the section through Area A bulldozer trenching requested in my February 20 letter and my February 28 phone call to Mr. whelan.

Following my more thorough review of this February MF-104 this afternoon, I will phone you to discuss it and other current Field Team matters, and to firm the date to meet Jack Chester in Amarillo as mentioned in my March 14 memo to you, now set for Tuesday evening, March 25 at the Herring Hotel. Chester plans to drive a Bureau car from here and to return here following inspection of the subject project on March 26.

One of the copies of the subject report(excepting the MF-104 Voucher) is also being forwarded with a copy of this memo for the advance information of the Washington office which is still considering the request of March 4 for Amendment No. 2 to extend the expiration date of this Contract.

CCK/jd

Clinton C. Knox

encl.

cc: DMEA Op.Com. w/cy encl.
4312 file

2dcy - DMEA Washington

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

RECEIVED MAR 24 1958

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of Feb. 195 8 Docket No. DMEA 4512 Contract No. Idm-2142
Operator's Name Briscoe County Uranium Co. Minerals Uranium
Address 515 Oakland Plainview, Texas

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT Units	AUTHORIZED BY CONTRACT Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching (Bulldozing)	Hr.	820.75	33	1973.63	83		350	
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		820.75	33	1973.63				

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:

Date March 14, 1958 Operator Briscoe County Uranium Co.

Per [signature] Title Executive Partner

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)

RECEIVED
DIVISION OF MINERAL
TECHNOLOGY

MAR 20 1958

BUREAU OF MINES
JOPLIN, MO.

(For Government use only)

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.

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GPO 872894

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DIVISION OF MINERAL
TECHNOLOGY

MAR 20 1958

BUREAU OF MINES
JOPLIN, MO.

Summary of Exploration work during February
on DMEA Project 4312

The first two ~~months~~ weeks of this month were characterized by snow and other inclement weather, which prevented moving equipment about the lease.

The deep trench in Area "B"(see January report and plat and cross section with this report) was deepened to expose the lower stratum (sample #111). This involved drilling and blasting previous to the bulldozing.

On the enclosed plat are sketched trenches bulldozed this month designated with upper case letters. Tabulated below is information not shown on the plat:

LOG OF SHALLOW TRENCHES

Mark	Depth~~x~~ Length	Visual Indication	Gamma Radiation	Horizon Explored
A		Fe Stains	No Significant Amt.	Lower
B		Fe Stains Carbonaceous Mat'l	Sample #115-3"thick x 10' long exp.	Lower
C		Fe Stains	No Significant Amt.	Upper
D	1'Avg. x 54'	Fe Stains	ditto	Upper
E	1' x 60'	Fe Stains	ditto	Upper
F		do.	do.	do.
G	1' x 36'	none	do.	do.
H		Fe Stains	do.	do.
J	1' to 2' x 300'	Fe Stains and Carbonaceous Mat'l	Sample ~~#116~~ #117 3"Th. x 4'lg. exp.	Lower
K	1' to 2' x 75'	ditto	Sample #118 7"th. x 10'	Upper
L	1' to 4' x 150'	Fe Stains	Samples 119,120,121	Upper

(cont'd.) Feb.-4312

Sample no. 116 was taken from the side of a small wash as indicated on the plat and is representative of a layer of a few inches thickness.

Although radiation detection instruments indicated a trace along the rim immediately South of the mine (in center of section) tentative rim stripping failed to disclose any stratum worth sampling.

It will be noted that the most encouraging finds as shown on the enclosed plat that have come to light this month are northeast of a line between trench "N" and trench "K" and are approximately south of the mine.

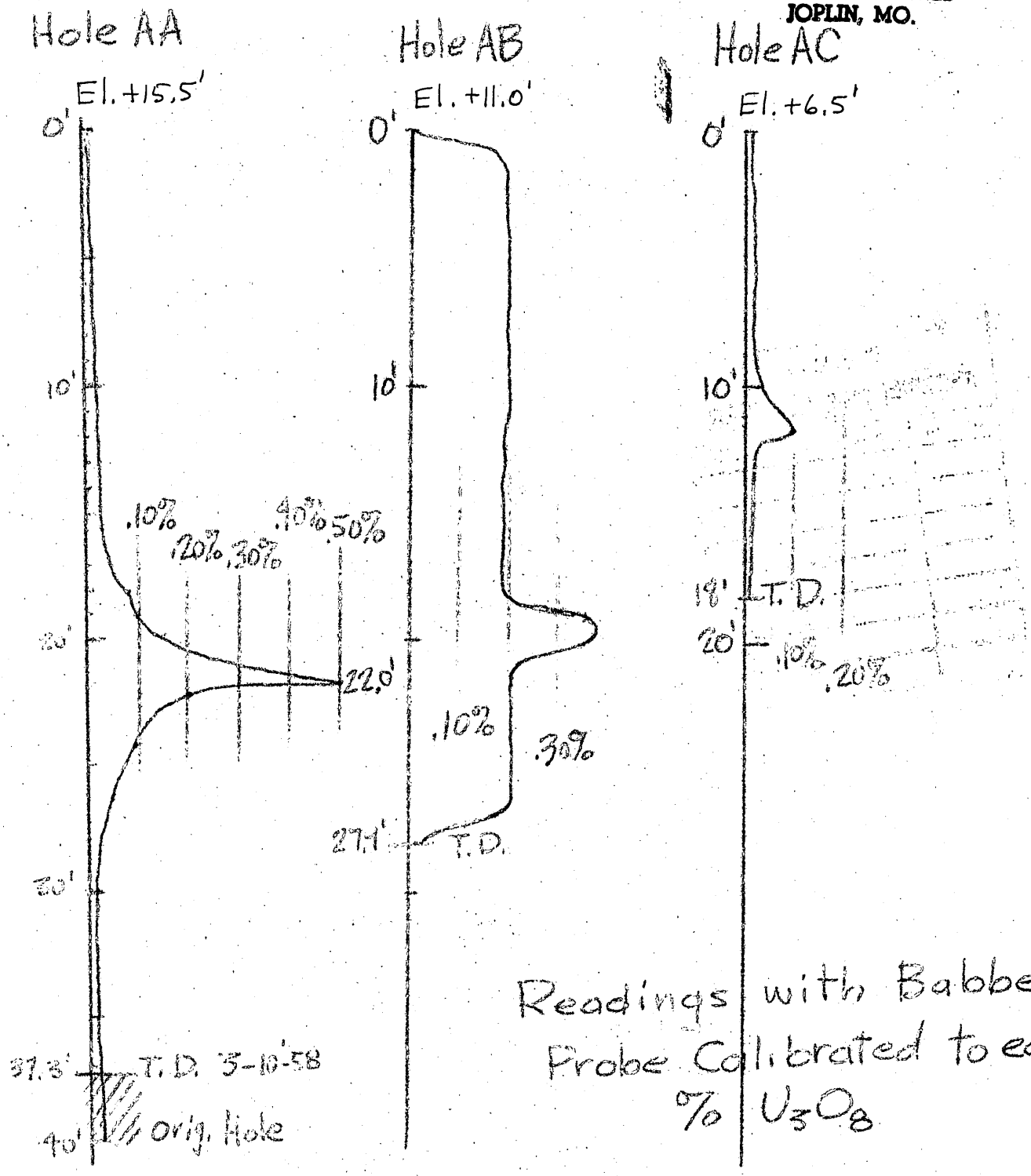
The vertical spread between the uppermost beds sampled and the lowest is about twenty feet and more and these are identified on the trench log as the upper and lower horizons, respectively. In this area of the lease there appear to be no ore containing beds of intermediate elevation between these two.

It is our suggestion that the Government approve a drilling program consisting of four equally spaced lines of non-core holes running in an east-west direction, and with a hole spacing of 100 feet and not over 12 holes in each line, with the lines distributed between the mine on the north and area"B" and trenches "L","A", and "N" on the south. This program should locate some trends worthy of coreing and further drilling.

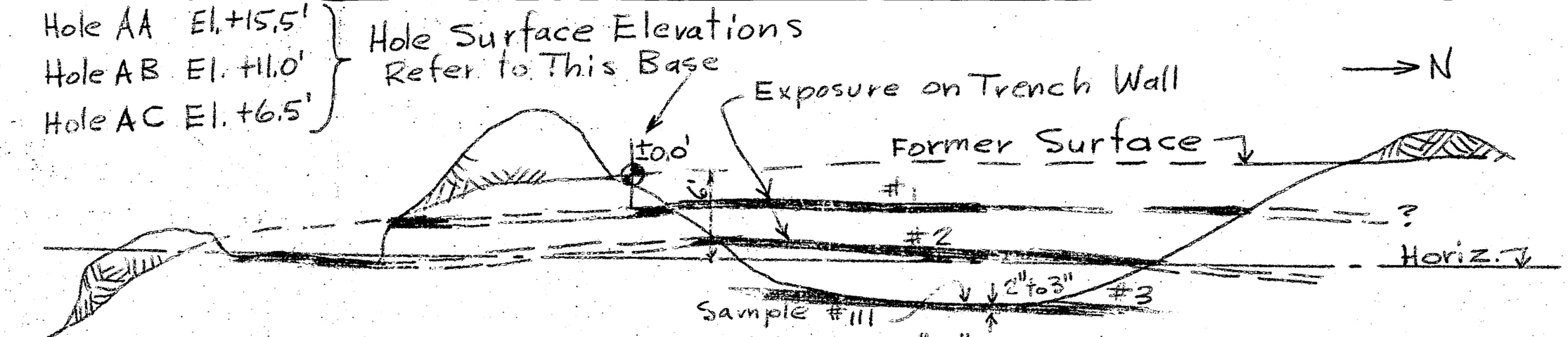
RECEIVED
DIVISION OF MINERAL
TECHNOLOGY

MAR 20 1958

BUREAU OF MINES
JOPLIN, MO.

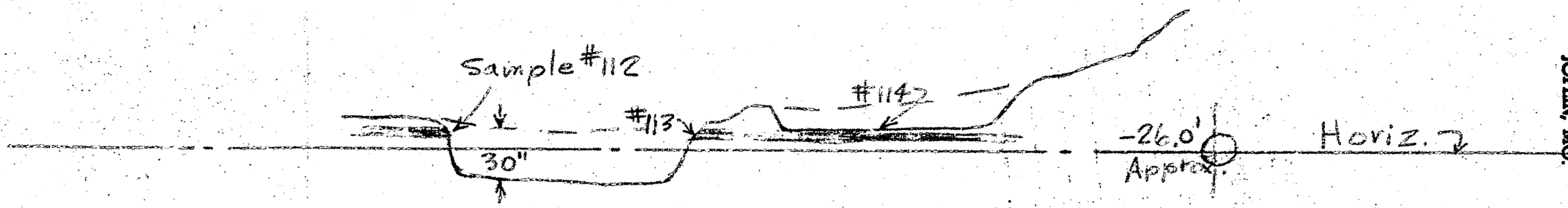


Readings with Babbel Probe Calibrated to equiv. % U_3O_8



N.-S. Cross Section Thru Area "B" Trenches showing Former Surface of Ground

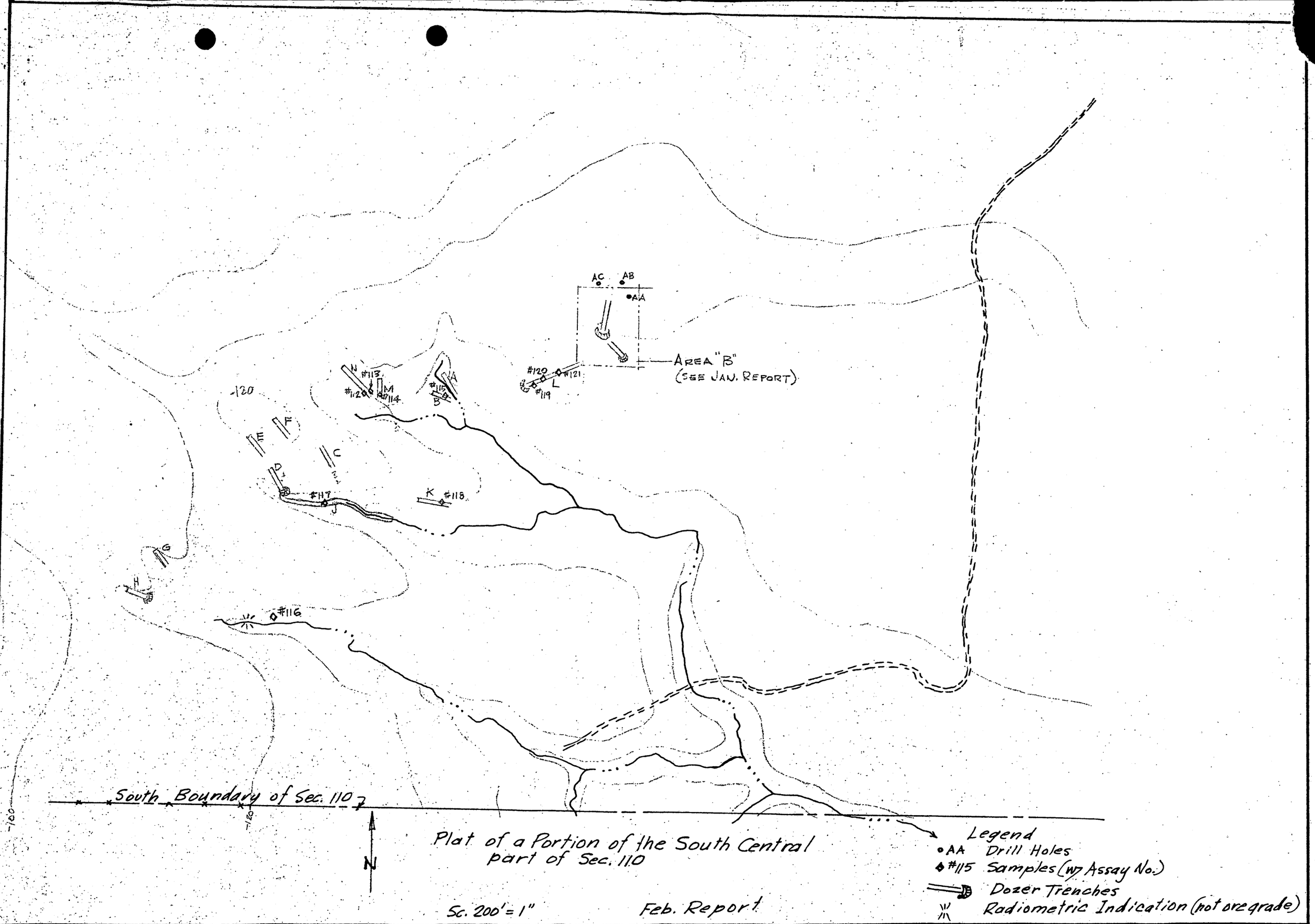
Not To Scale



East-West Cross Section Looking North Thru the South End of Trenches "M" and "N"

Not To Scale

RECEIVED
DIVISION OF MINERAL TECHNOLOGY
MAR 20 1958
BUREAU OF MINES
JOPLIN, MO.



Plat of a Portion of the South Central part of Sec. 110

RECEIVED
DIVISION OF MINERAL
TECHNOLOGY

MAR 20 1958

BUREAU OF MINES
JOPLIN, MO.

OFFICIAL FILE COPY
DMEA
RECEIVED MAR 24 1958

DATE	INITIALS	CODE

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Box 431
Joplin, Missouri
July 14, 1958

EXTRA COPY
DMEA
RECEIVED

DATE	INITIALS	CODE
7/16	[illegible]	225
[illegible]	[illegible]	110
7/17	[illegible]	700

DMEA Operating Committee
Defense Minerals Exploration Administration
Department of the Interior
Room 4457 - Interior Bldg.
Washington 25, D. C.

Re: DMEA-4312(uranium)
Briscoe County Uranium Co.
Rattlesnake Mine
Briscoe County, Texas
Project Contract Idm-E1142

Dear Sirs:

Forwarded herewith are your two copies of the MF-104 Monthly Voucher and one copy of the MF-104A and the Monthly Report by the cited Operator covering the February work. The voucher data received from the Finance Officer is posted on both copies of the MF-104s.

Your other copy of the MF-104A and the Monthly Report was furnished for your advance information March 20, 1958.

Sincerely yours,

Robert U. King

RUK/id

Robert U. King
Acting Executive Officer
DMEA Field Team, Region IV

encl. 4

cc: DMEA Op.Com.
King,USGS,Denver
4312 file

2d cy - DMEA Washington

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Bureau Bureau No. 42-R1036.5

RECEIVED
DIVISION OF MINERAL TECHNOLOGY
JUL 16 1958

MAR 20 1958
BUREAU OF MINES
JOPLIN, MO.

D.M.E.A.

104A & Rpt mailed 3/20/58

OPERATOR'S MONTHLY REPORT AND VOUCHER

Month of February, 1958 Docket No. DMEA 4612 Contract No. Idm-51142
Operator's Name Briscoe County Uranium Co. Minerals Uranium
Address 515 Oakland Plainview, Texas
Contract Amount, $ 11,116.00 Government Participation: 75% Amount, $

ITEMS OF COSTS	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						
Bulldozing	412.50	625.00	1037.50			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	300.00	350.00	650.00			
Technical Services		100.00	100.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental	70.00	70.00	140.00			
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis	31.50	none	31.50			
Payroll Taxes	6.75	7.88	14.63			
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	820.75	1152.88	1973.63	✓	✓	✓

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

Date March 14, 1958 Payee Briscoe County Uranium Co.

Per Rich Garner Title Executive Partner

*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:

$ 615.56

Signature
(Authorized Certifying Officer)

Date 7/9/58 Vou. No. 4-01

(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. IdnE1142 in accordance with the terms of the contract.

Signature John W. Christie Title Mining Engineer Date March 28, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Clinton C. Knox Title Executive Officer Date July 1, 1958

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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
Box 431
Joplin, Missouri
April 14, 1958

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DATE		CODE
4/17	CI	226
4/17	FJ	110
4/18	~~[illegible]~~	~~[illegible]~~

DMEA Operating Committee
Department of the Interior
Washington 25, D. C.

Re: DMEA-4312(uranium)
Briscoe County Uranium Co.
Rattlesnake Mine
Briscoe County, Texas
Project Contract Idm-E1142

Dear Sirs:

Forwarded herewith are your two copies of the MF-104 Monthly Voucher and one copy of the MF-104A and the Monthly Report by the cited Operator, the first received under this Contract, covering the December-January project work. The voucher data received from the Finance Officer today is posted on both copies of the MF-104's.

Your other copy of the MF-104A and the Monthly Report was furnished for your advanced information February 17, 1958.

Sincerely yours,

Clinton C. Knox

Clinton C. Knox
Executive Officer
DMEA Field Team, Region IV

encl. 4

cc: DMEA Op.Com.
King,USGS,Denver
4312 file

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APR 14 1958
BUREAU OF MINES
JOPLIN, MO.

Room 206 Federal Building
Bartlesville, Oklahoma

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DATE | INITIALS | CODE

April 11, 1958

Memorandum

To: Clinton C. Knox

From: Cora A. Bailey

Subject: Payment of MF-104, Contract IDM-E-1142 for January 1958

Payment was made on the January MF-104, Contract IDM-E-1142, April 9, 1958. The Bureau Voucher Number was 4.-30, in the amount of $864.66.

Cora A. Bailey
Fiscal Officer, Region IV

2 cy - DMEA Washington

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

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FEB 17 1958
BUREAU OF MINES
JOPLIN, MO.

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, 1958 Docket No. DMEA 4312 Contract No. Idm-21142
Operator's Name Briscoe County Uranium Co. Minerals Uranium
Address 515 Oakland Pluinview, Texas
Contract Amount, $ 11,116.00 Government Participation: 75 % Amount, $

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						
Bulldozing	625.00	none	625.00			
Crosscutting						
Drifting						
(2) Labor and Supervision:						
Labor						
Supervision	350.00	none	350.00			
Technical Services	100.00	none	100.00			
(3) Operating Mat'ls. and Supplies:						
Timber						
Explosives						
Pipe						
Track						
(4) Operating Equipment:						
Rental	70.00	none	70.00			
Purchase						
Depreciation						
(5) Initial Rehabilitation and Repairs						
(6) New Bldgs., Improvements, etc.						
(7) Miscellaneous:						
Repairs to Equipment						
Sampling and Analysis						
Payroll Taxes	7.00	none	7.00			
Liability Insurance						
(8) Contingencies (specify):						
TOTALS	1152.00	none	1152.00			

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

Date Feb. 10, 1958 *Payee Briscoe County Uranium Co.

Per Rick Garner Title Executive Partner

*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:

$ 864.66

Signature
(Authorized Certifying Officer)

Date 4-11-58 Vou. No. 4-30

(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. 2dm-E1142 in accordance with the terms of the contract.

Signature John W. Chester Title Mining Engineer Date March 28, 1958

APPROVAL BY DMEA EXECUTIVE OFFICER OR ALTERNATE:

Signature Clinton C. Knox Title Executive Officer Date March 31, 1958

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.

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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".

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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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Box 431
Joplin, Missouri
February 17, 1958

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DATE	INITIALS	CODE
2-19	C	220
"		110
2/21		700

Memorandum

To: Robert U. King, USGS, Denver

From: Executive Officer, DMEA Field Team, Region IV

Subject: January MF-104 - Briscoe County Uranium Co.
DMEA-4312(uranium)
Rattlesnake mine
Briscoe County, Texas
Project Contract Idm-E1142

Furnished herewith is the fifth copy of this Operator's first MF-104 Report received today, covering bulldozer rim stripping started last December 20. One of the copies(excepting the MF-104 Voucher) is also being forwarded, with a copy of this memo, for the advance information of the Washington office of DMEA.

I would appreciate your advice as to any geologic inadequacies you might see in this report and comments you might care to make as a guide when we approve the report.

CCK/id

Clinton C. Knox

encl.

cc: DMEA Op.Com.(2) w/cy rpt.
4312 file

Form MF-104A
(April 1952)

Budget Bureau No. 42-R1151.2

Dep. DMEA Washington
Rec'd but original mailed [illegible]/58

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FEB 17 1958
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JOPLIN, MO.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

OPERATOR'S UNIT COST AND PROGRESS REPORT

Month of January 1958 Docket No. DMEA 4312 Contract No. Idm-51142
Operator's Name Briscoe County Uranium Co. Minerals Uranium
Address 515 Oakland Plainview, Texas

OPERATION	UNIT	COSTS THIS MONTH	UNITS THIS MONTH	COSTS TO DATE	UNITS TO DATE	UNIT COSTS TO DATE	AUTHORIZED BY CONTRACT	
							Units	Unit Costs
Drifting								
Crosscutting								
Raising								
Shafts								
Winzes								
Drilling: Core								
Churn								
Auger								
Stripping								
Trenching (bulldozer)	hr.	1152.00	50	1152.00	50		350	
Test Pits								
Roads and Trails								
TOTAL DISTRIBUTED COSTS								TOTAL COSTS AUTHORIZED BY CONTRACT
Operating Equipment Purchased								
Initial Rehabilitation and Repairs								
New Buildings, Improvements, etc.								
TOTAL COSTS		1152.00						

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 Feb. 10, 1958 Operator Briscoe County Uranium Co.

Per Dick Garner Title Executive Partner

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)

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

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re: DMEA 4312 (uranium)
Sec. 110

Summary of work done in December, 1957 and January, 1958 on subject project.

Trenching was begun in the East-West trench shown on sketch map of area "A" in December, and a few traces of radioactivity were noted as the trench went down, but none can be found in the walls of any significant amount, although channel samples have been taken at ten foot intervals. The long North-South cut is shallow, being not over three feet deep at any point and is made down the slope of the terrain, exposing over fifteen vertical feet of section and a stratum with definite radiation of about three inches thickness in the position indicated on the North end of the cut. This sample is number 101.

Work was held up for about a week in the first week of January due to a locally heavy snow storm.

The two short trenches in the south part of Area "A" were dozed with the results indicated on the map.

In Area "B" the southernmost cut was the result of lowering an existing shallow cut about a foot with encouraging results. The two samples taken are estimated radiometrically to run .14 % U_3O_8 (#104) and .13 % U_3O_8 (#105).

A sketch of the longitudinal cross section through

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the large trench on the north part of Area "A" shows two strata which were sampled and one stratum (#3 on sketch) which was probed in a dynamite hole and estimated to run about .30 % U_3O_8. This stratum is about twenty inches below the bottom of the trench and will be sampled next.

Stratum #2 averages about five inches in thickness, with stratum #1 about three to four inches, and #3 as yet unknown.

Sample #107 was taken two inches below the surface and estimated to come from stratum #2 and run about .18 % U_3O_8 (radiometrically).

All the samples taken to date in the deep trench in area "A" check out at less than .10 % U_3O_8 e, but could run slightly more of course due to a higher chemical percentage.

Sample #102 from Area "A" should run between .12 to .15 % U_3O_8 and sample #101 slightly less.

These assays will all be forwarded to Mr. Knox upon receipt of same.

All of the samples taken are representative of ore and previous samples, exhibiting iron stains, carbonaceous material in various proportions, and primarily composed of calcareous sand stone.

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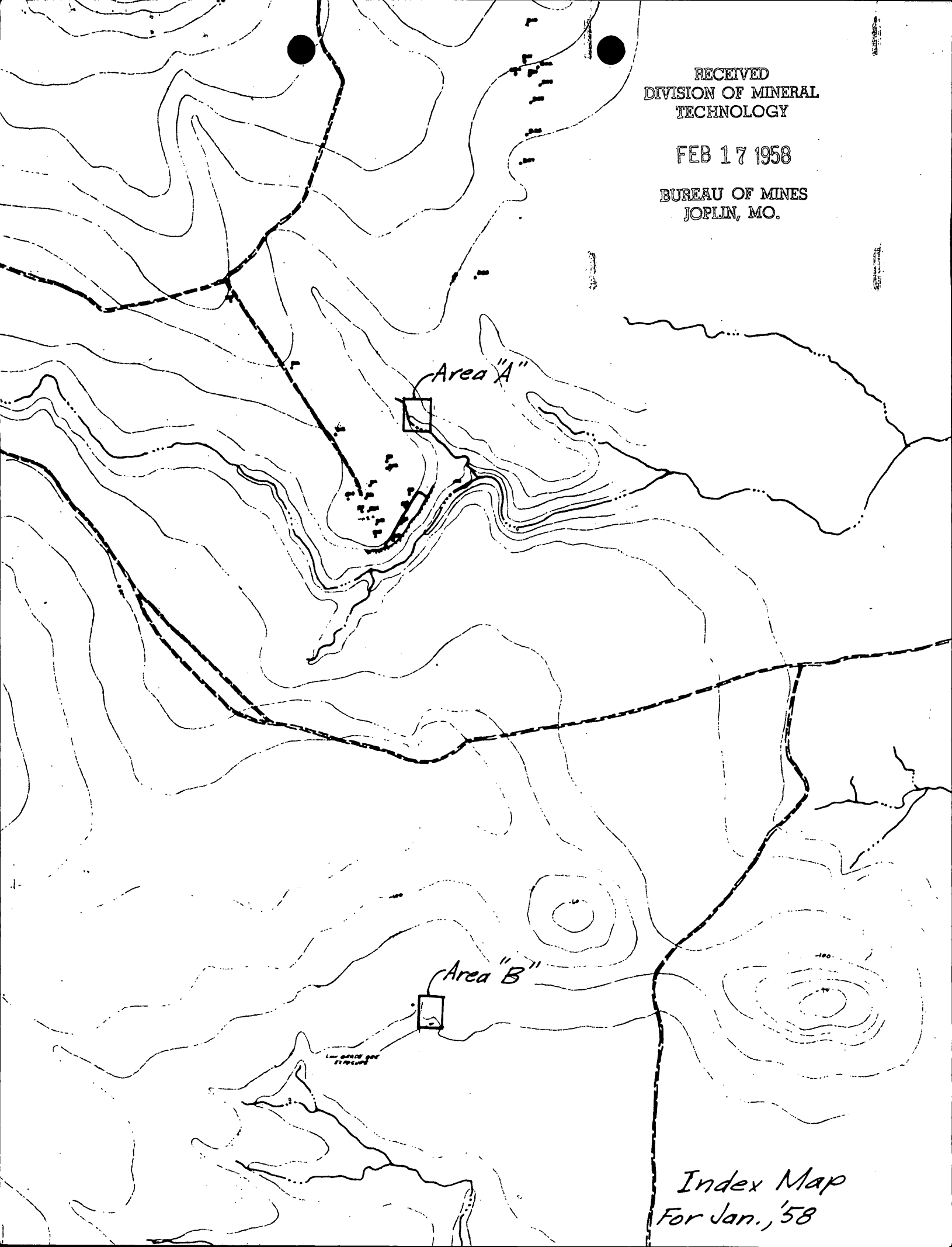
JOPLIN, MO.



Index Map
For Jan., '58

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FEB 17 1958

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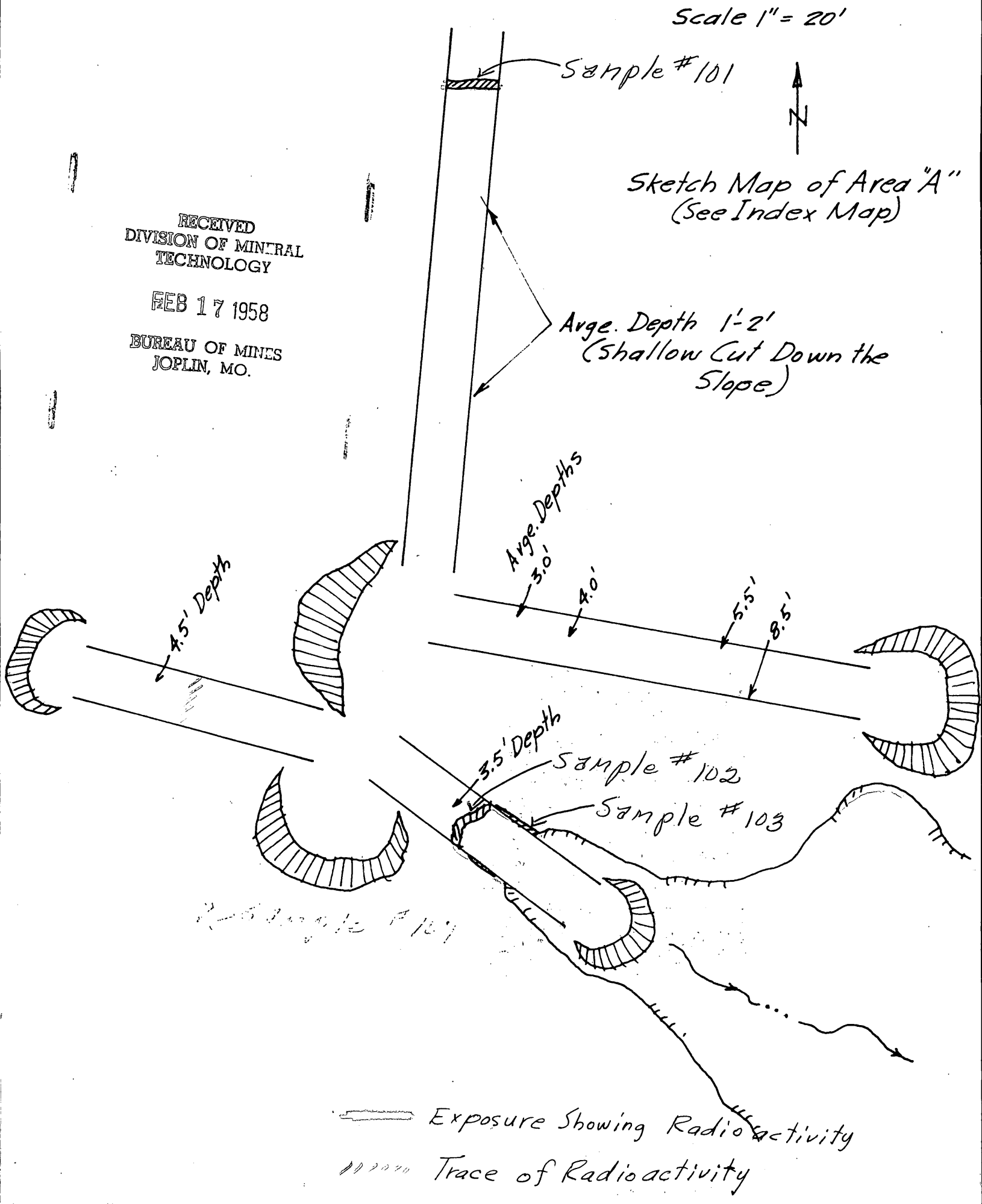
JOPLIN, MO.



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DATE	INITIALS	CODE

Location 2.18, G+10'

Hole No. 1 Line I Collar Elev. 950.1

From	To	Description
0	6	zone of interbedded SS and sandyLS one part to one
6	12	grey shale
12	16	zone of interbedded grey shale and SS, 1 to 1
16	24	red SiS interbedded with buff medium grain SS, 1 to 1
24	30	grey shale
30	36	sandy shale
36	58	buff SS
58	60	sandy LS
60	70	sandy shale
70	74	buff SS
74	80	grey shale
80	94	buff SS
94	100	red SiS

Total Depth 100'

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FEB 17 1958

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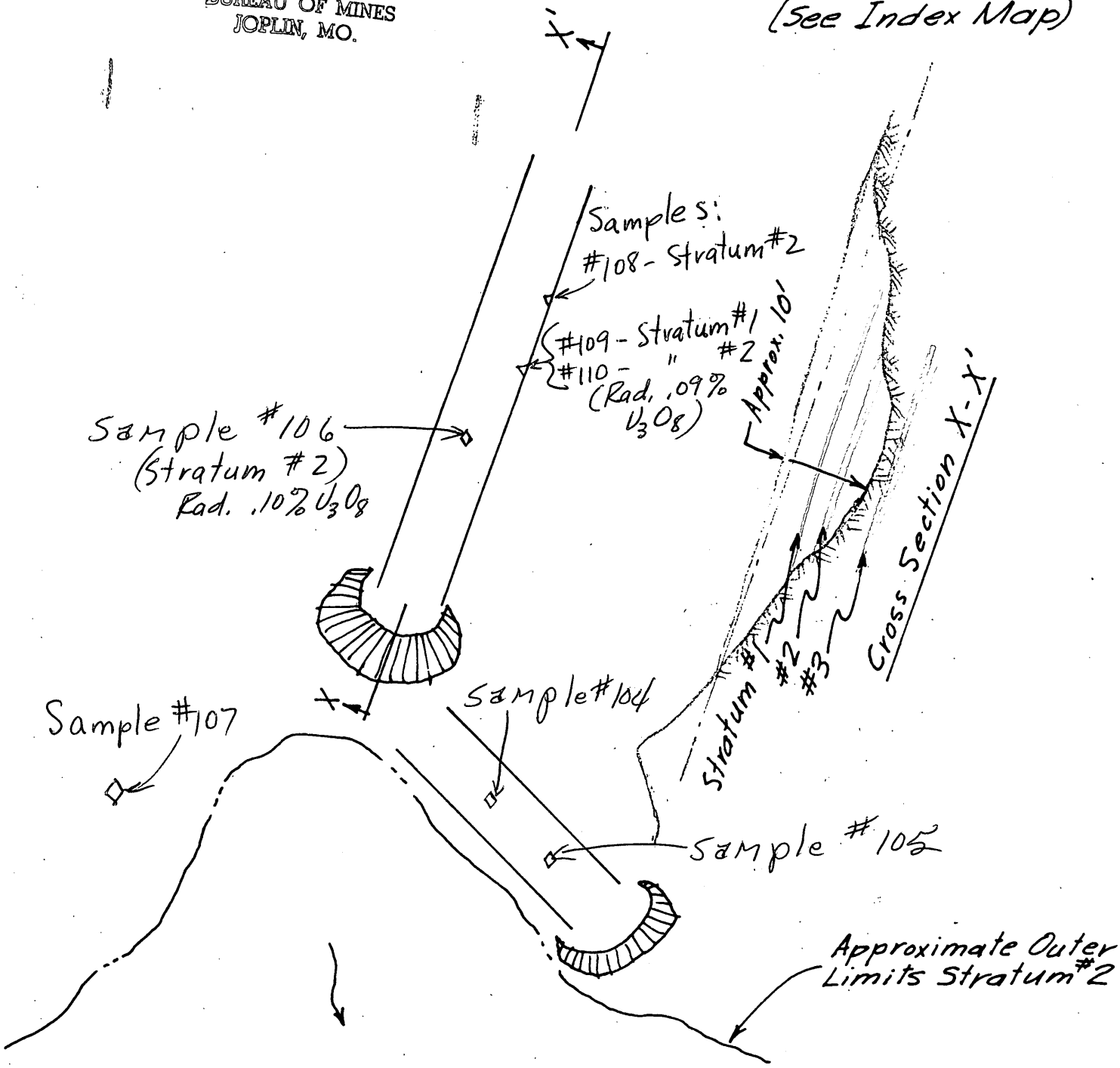
JOPLIN, MO.

Scale 1" = 20'

N

Sketch Map of Area "B"
(See Index Map)



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DMEA
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DATE	INITIALS	CODE

Location 2.28, G + 60'

Hole No. 2 Line I Collar Elev. 947.5

From	To	Description
0	2	Pink SiS
2	10	sandy shale
10	22	grey shale
22	24	red SiS
24	47.5	buff SS
47.5	54	sandy LS
54	58	zone of interbedded sandy LS and shale, 1-1
58	61	grey shale
61	72	buff SS
72	75	sandy shale
75	82	pink fine grain SS
82	86	buff SS
86	88	pink SiS (sandy)
88	100	red SiS

Total Depth 100'

Location ~~2.8 H plus 100'~~ 2.36 G+110'

Hole No. 3 Line I Collar Elev. 936.7

From	To	Description
0	4	Interbedded shale and red SiS
4	11	red SiS
11	46	buff SS
46	49.5	sandy LS
49.5	64	grey shale
64	73	buff SS
73	74.5	pink SS
74.5	80.0	red SiS

Total Depth 80'

Location ~~2.70 Hplus 60'~~ 2.44, G + 160'

Hole No. 4 Line I Collar Elev. 934.4

From	To	Description
0	5	Red SiS
5	32	buff SS
32	35	sandy shale
35	52	buff SS
52	64	pink SS
64	68	buff SS
68	74.5	pink SS
74.5	80	red SiS

Total Depth 80'

Location 2.53 G plus 190'

Hole No. 5 Line No, I Collar Elev. 927.7

From	To	Description
0	2	pink SiS
2	35	buff SS
35	38	sandy LS
38	40	grey shale
40	43	sandy shale
43	50	buff SS
50	52.5	sandy shale
[illegible].5	75	buff SS
75	80	red SiS

Total Depth 80'

Location 2.70 H plus 40'

Hole No. 6 Line I Collar Elev. 919.4

From	to	Description
0	12	pink SS
12	14.5	sandy LS
14.5	28	buff SS
28	31	grey shale
31	42	~~sandy LS~~ buff SS
42	46	sandy LS
46	60	buff SS
60	63	pink fine grain SS
63	68	buff SS
68	70	red SiS
70	73	buff SS
73	80	red SiS

Total Depth 80'

Location 2.8 H plus 100'

Hole No. 7 Line No. I Collar Elev. 907.5

From	To	Description
0	5.5	buff SS
5.5	8	sandy LS
8	16	buff SS
16	23	grey shale
23	24	sandy LS
24	26.5	sandy shale
26.5	32	zone of interbedded SS and sandy LS one to one
32	34	buff SS
34	46	pink SS
46	49	red SiS
49	58	buff SS
58	64	red SiS

Total Depth 64'

Location 2.87, H plus 160'

Holw No. 8 Line I Collar Elev. 902.3

From	To	Description
0	4	buff SS
4	6	sandy shale
6	16	buff SS
16	26	sandy shale
26	40	buff SS
40	46	red SiS

Total Depth 46'

Location 2.94, J

Hole No. 9 Line I Collar Elev. 897.6

From	To	Description	
0	8	grey shale	
8	12	sandy shale	with some LS
12	14.5	grey shale	do.
14.5	16	buff SS	
16	17	grey shale	
17	28	buff SS	
28	32	pink SS	
32	37	buff SS	
37	43	red SiS	

Total Depth 43'

Location 2.69, V plus 190'

Hole No. 1 Line III Collar Elev. 884

From	To	Description
0	3	red SiS
3	14	buff SS
14	16	sandy LS
16	22.5	buff SS
22.5	29	red SiS
29	36	buff SS
36	42	pink SS
42	45	zone of interbedded red SiS and grey shale ratio 1 to 1.
45	48	grey shale
48	52	buff SS
52	57	red SiS

Total Depth 57'

Location 2.62, V plus 120'

Hole No. 2 Line III Collar Elev. 908.9

From	To	Description
0	4	red SiS
4	6	grey shale
6	11	red SiS
11	12	grey shale
12	20	zone of interbedded grey shale and red silt stone, ratio 1 to 1.
20	43.5	buff SS
43.5	47	sandy LS
47	49	buff SS
49	54	red SiS

Total Depth 54'

Location 2.54, V plus 40'

Hole No. 3 Line III Collar Elev. 903

From	To	Description
0	12	zone of interbedded grey shale and red silt stone, ratio 1 to 1.
12	37	buff SS
37	43	red SiS

Total Depth 43'

Location 2.48, U plus 180'

Hole No. 4 Line III Collar Elev. 902.9

From	To	Description
0	14	zone of interbedded grey shale and red SiS, ratio 1 to 1.
14	30	buff SS
30	33	grey shale
33	36	buff SS
36	42	grey shale
42	45	sandy shale
45	48	grey shale
48	53	zone of interbedded grey shale and red SiS, ratio 1 to 1.
53	58	red SiS

Total Depth 53'

Location 2.40, U plus 100'

Hole No. 5 Line III Collar Elev. 901.1

From	To	Description
0	6	red SiS
6	10	grey shale
10	14	sandy shale
14	28.5	buff SS
28.5	32	sandy LS
32	41	zone of interbedded grey shale and red silt stone, ratio 1 to 1
41	47	sandy shale
47	52	zone of interbedded grey shale and red silt stone, ratio 1 to 1.
52	57	grey shale
57	65	red SiS

Total Depth 65'

Location 2.33, U plus 30'

Hole No. 6 Line III Collar Elev. 897.4

From	To	Description
0	6	red SiS
6	32	buff SS
32	33	sandy LS
33	40	red SiS

Total Depth 40'

Location 2.26, T plus 170'

Hole No. 7 Line III Collar Elev. 895.7

From	To	Description
0	4	buff SS
4	26	sandy shale
26	31	buff SS
31	33	grey shale
33	36	zone of interbedded grey shale and red silt stone, ratio 1 to 1.
36	40	red SiS
40	48	sandy shale
48	50	buff SS
50	57	red SiS
57	70	buff SS
70	76	red SiS

Total Depth 76'

Location 2.18, T plus 110'

Hole No. 8 Line III Collar Elev. 896.2

From	To	Description
0	2	red SiS
2	19	buff SS
19	22	sandy LS
22	24	buff SS
24	28	sandy shale
28	30	buff SS
30	33	red SiS
33	36	grey shale
36	38	buff SS
38	42	sandy LS with a few small carbonaceous particles, but no significant count.
42	44	grey shale
44	46	sandy LS
46	48	zone of interbedded grey shale and red silt stone, ratio 1 to 1.
48	51	red SiS
51	64.5	buff SS
64.5	70	red SiS

Total Depth 70'

Location 2.12, T plus 30'

Hole No. 9 Line III Collar Elev. 900.5

From	To	Description
0	2	pink SS
2	28	buff SS
28	31	pink SS
31	36	red SiS
36	40	zone of interbedded sandy limestone and grey shale, ratio 1 to 1.

Total Depth 40'

Location 2.03, S plus 150'

Hole No. 10 Line III Collar Elev. 911.9

From	To	Description
0	4.5	red SiS
4.5	42	buff SS
42	46	zone of interbedded grey shale and red SiS, ratio 1 to 1.
46	51	grey shale
51	60	buff SS
60	82	pink SS
82	100	red SiS

Total Depth 100'

Location 1.97, S plus 60'

Hole No. 11 Line III Collar Elev. 920.8

From	To	Description
0	6	red SiS
6	46	buff SS
46	70	pink SS
70	80	red SiS

Total Depth 80'

Location 1.88, S plus 10'

Hole No. 12 Line III Collar Elev. 927.2

From	To	Description
0	8	red SiS
8	32	buff SS
32	34	pink SS
34	55	buff SS
55	56	red SiS
56	58	buff SS
58	61	pink SS
61	64	sandy LS
64	70	pink SS
70	80	red SiS

Total Depth 80'

Location 1.81, R plus 140'

Hole No. 13 Line III Collar Elev. 949.5

From	To	Description
0	12	red SiS
12	14	pink SS
14	32	red SiS
32	70	buff SS
70	80	red SiS

Total Depth 80'

EXPLANATION OF EXHIBIT NO. 2

These cross sections are labeled with the line numbers which refer to the lines on Exhibit No. 1. An attempt has been made to use standard graphical symbols for lithology. The colored portion in red on the various individual logs represents radioactivity. The log in Line I labeled B-28 was not drilled under this contract and no cuttings were available. The portion labeled red SiS is the red siltstone or mudstone.

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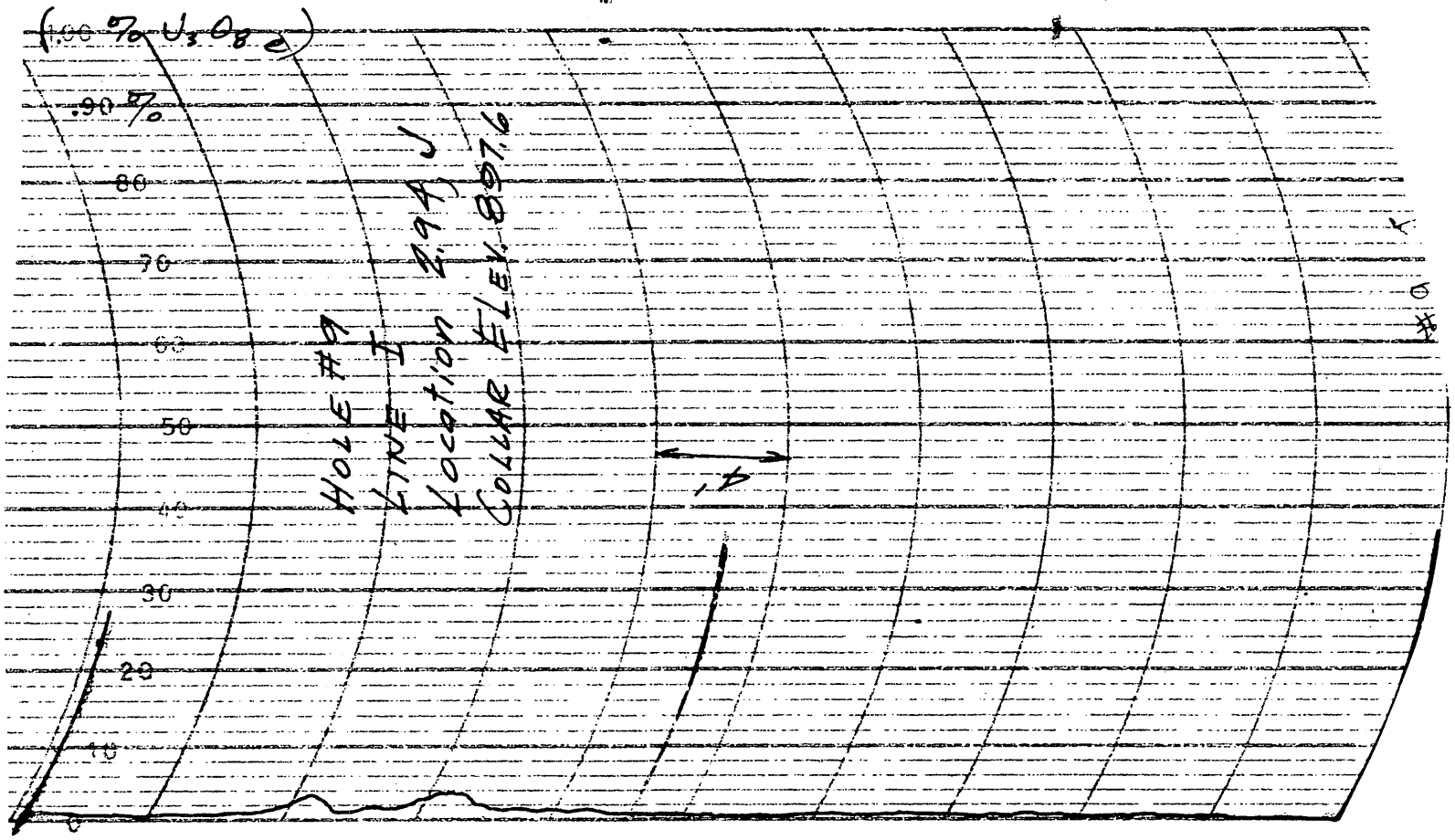

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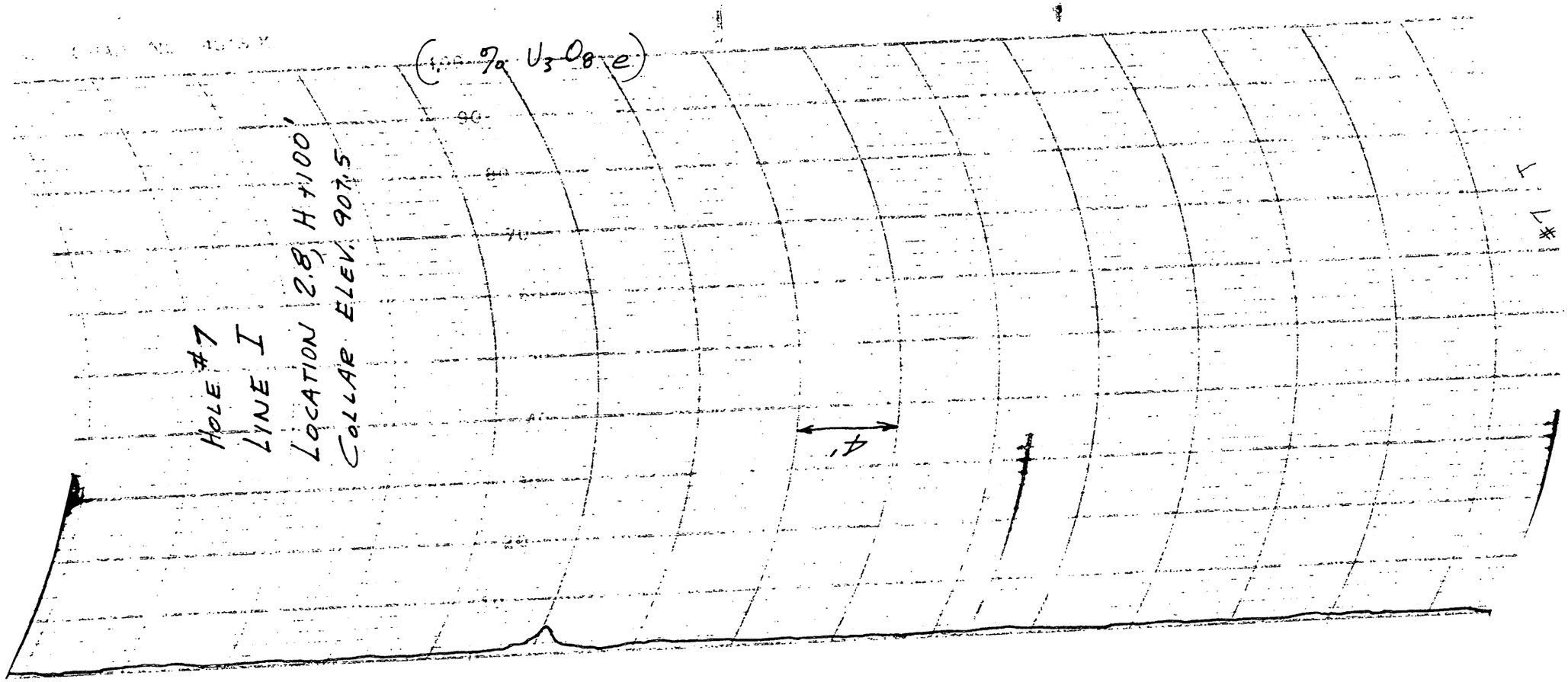

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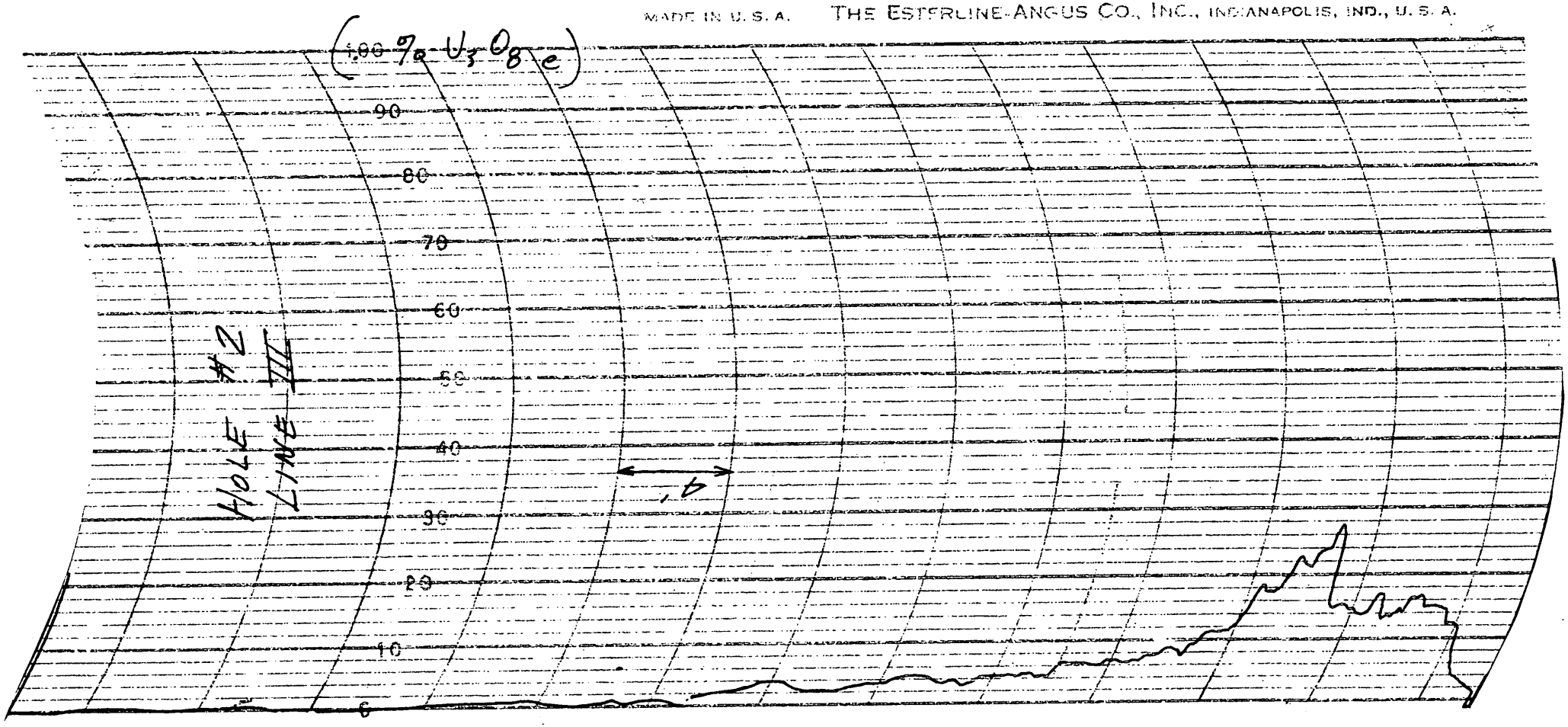

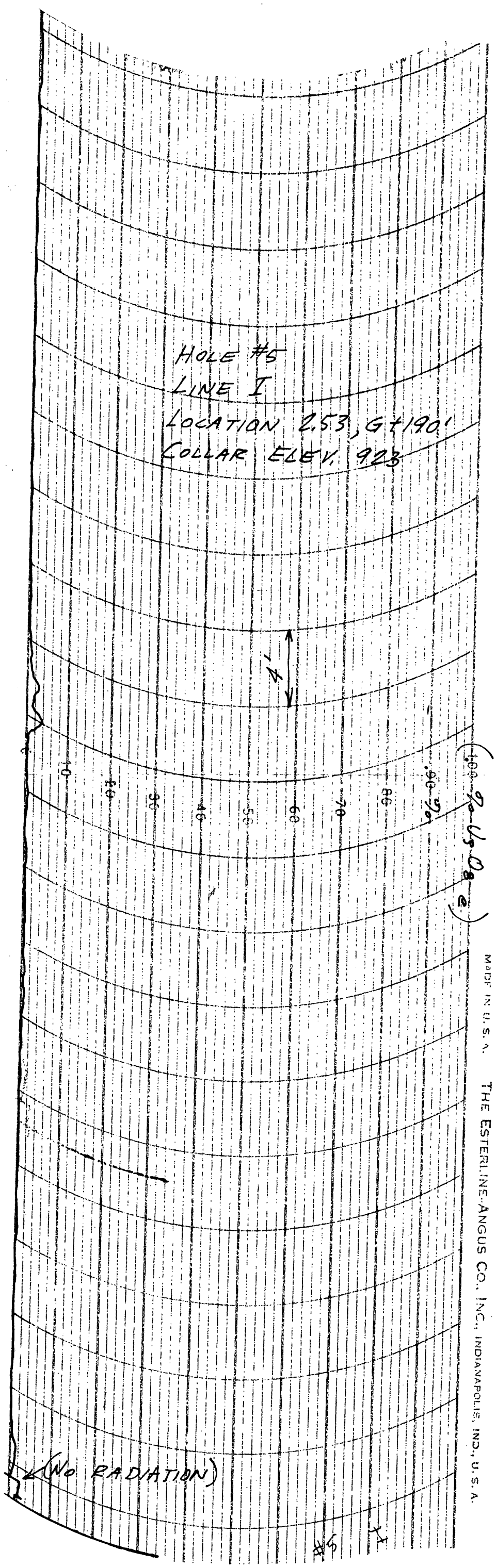

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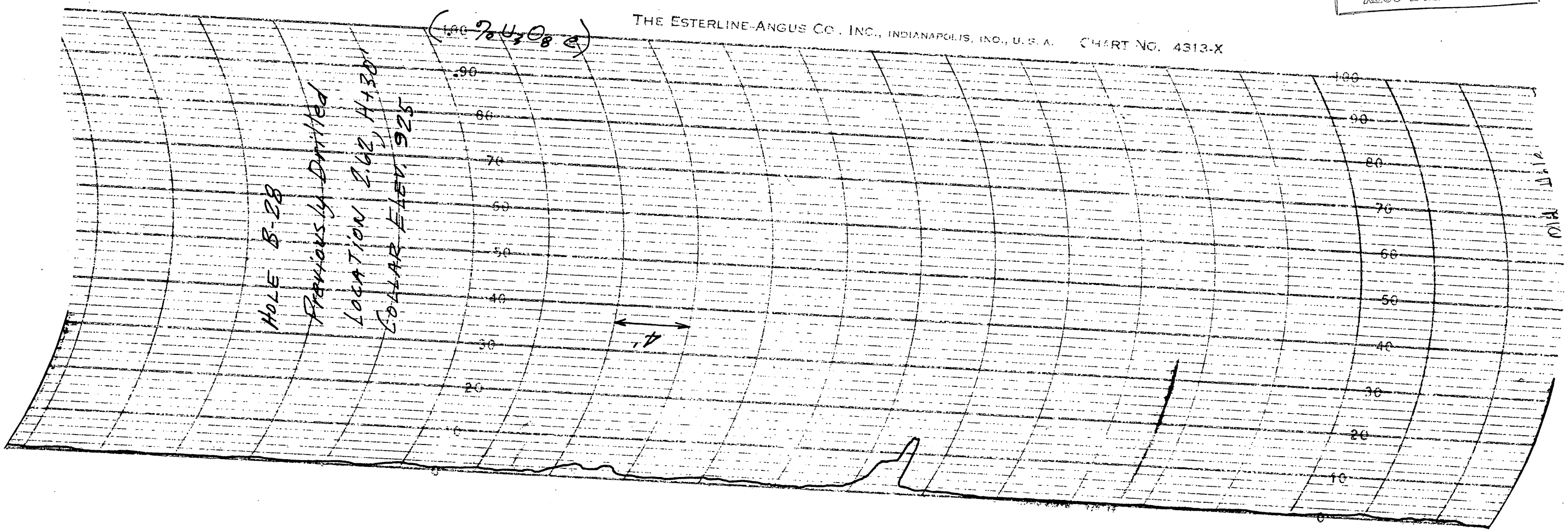

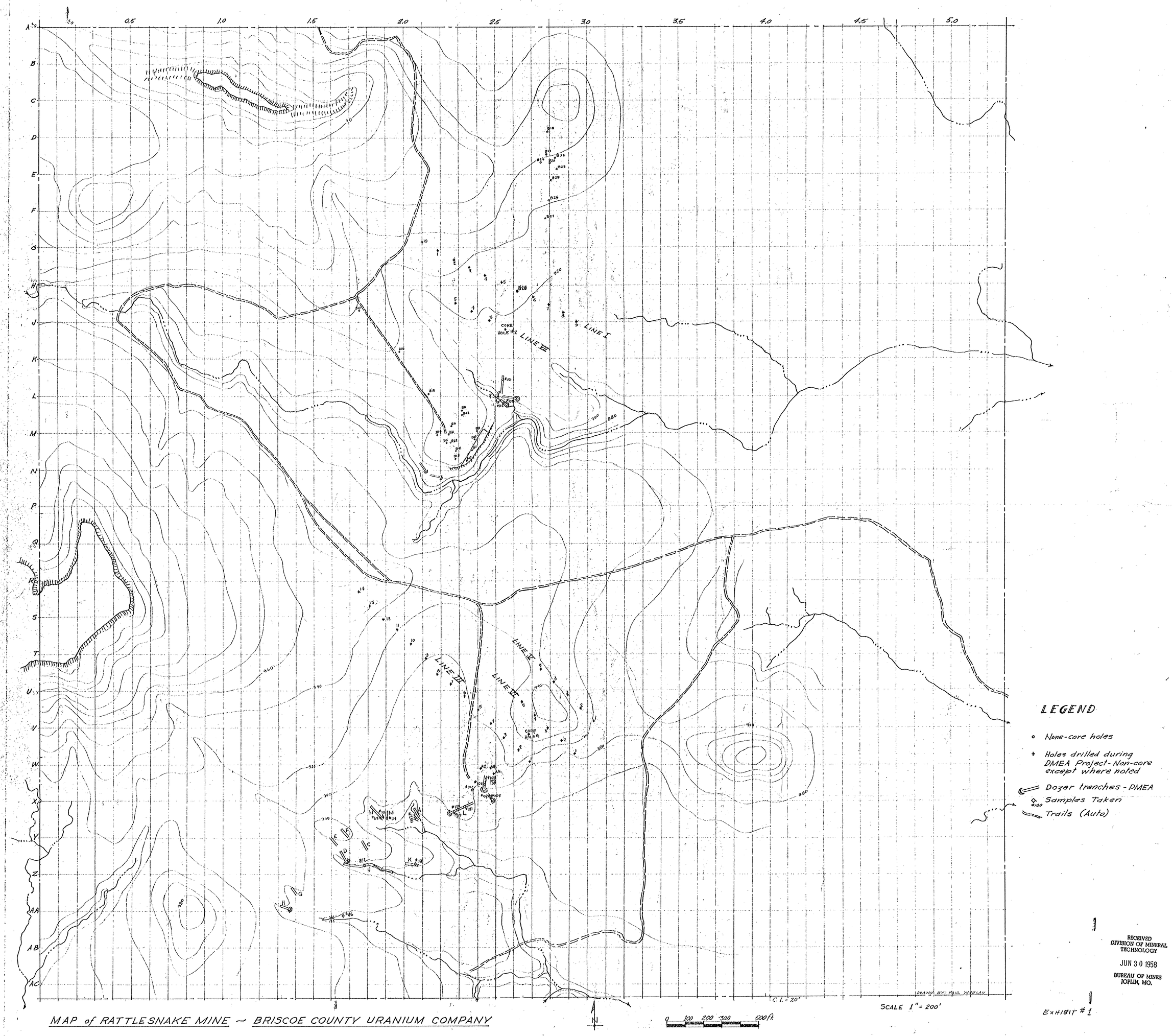

MAP of RATTLESNAKE MINE ~ BRISCOE COUNTY URANIUM COMPANY

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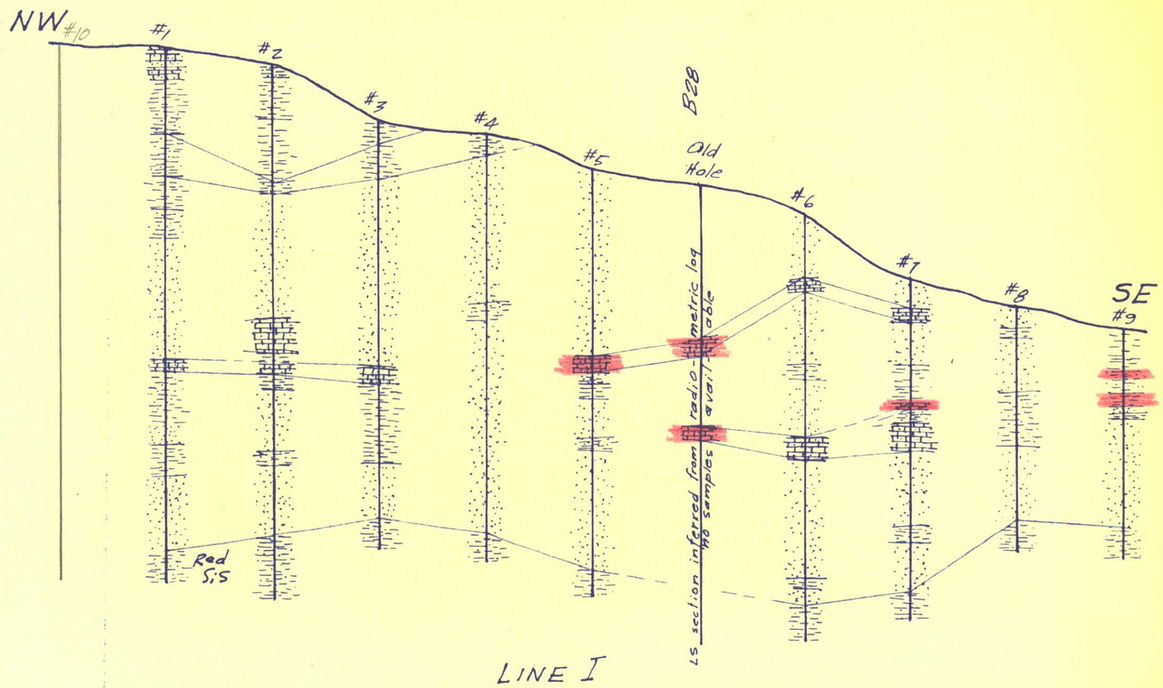
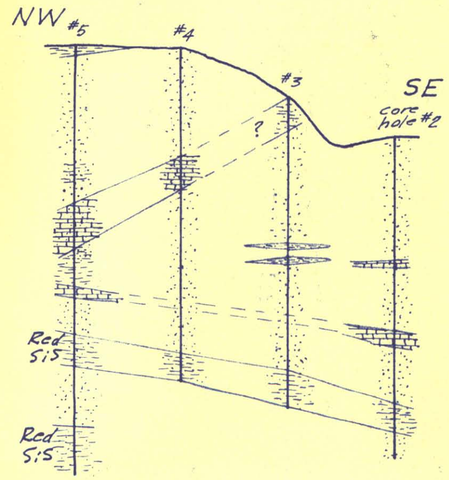
EXHIBIT #1



LINE I



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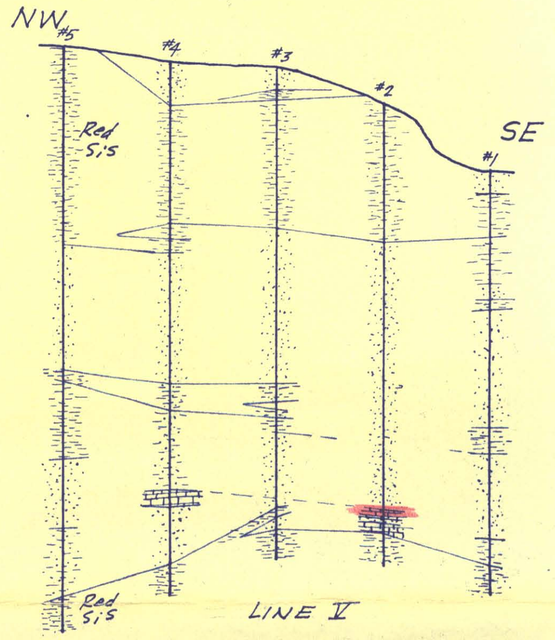

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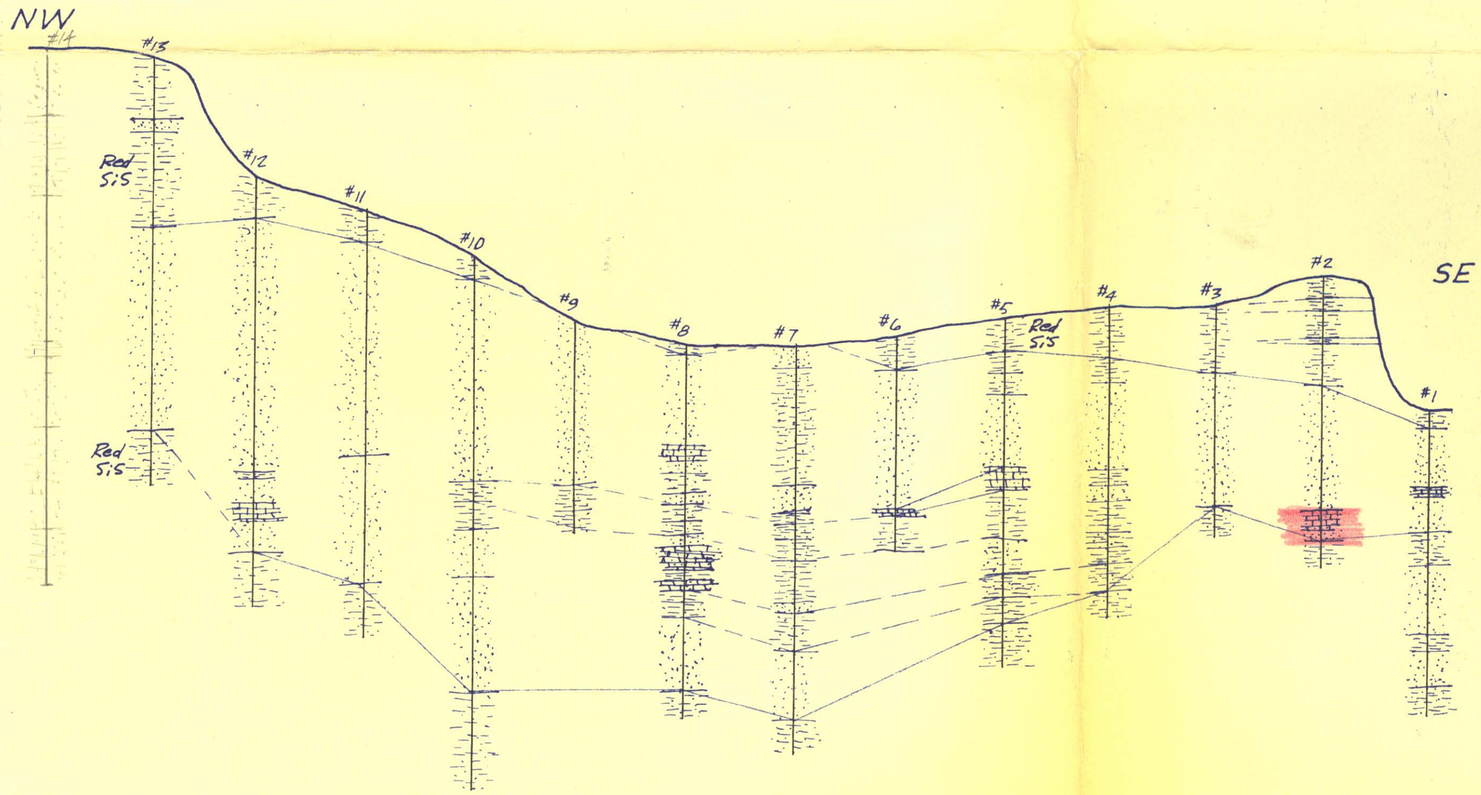
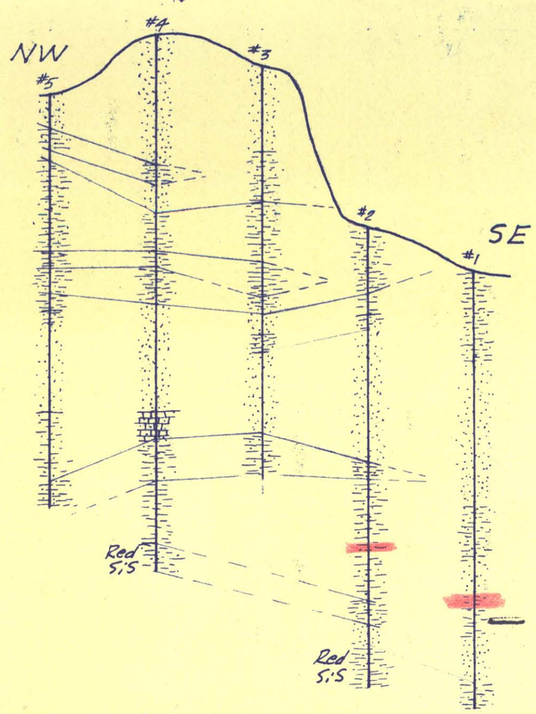


LINE III



LINE VI

CROSS SECTIONS ALONG LINES OF HOLES

HORIZONTAL SCALE 1" = 100'
VERTICAL SCALE 1" = 20'

EXHIBIT #2

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