So. 157 Howard Street
Spokane 43, Washington

April 9, 1957

RECEIVED
APR 15 1957
D.M.E.A.

Mrs. Dorothy Long, Certifying Officer
DMEA Field Team, Region I, NW District
1201 North Division Street
Spokane 2, Washington

WSM

Re: Docket No. DMEA-3098 (Tungsten)
(Sunshine Mining Company)
Storm Lake Tungsten Property
Deer Lodge and Granite Counties,
Montana
Contract No. [illegible]-598

Dear Mrs. Long:

Attached is Check No. 11 dated April 3, 1957, for $257.99 from Mr. Gunnar S. Johnson, lessee, who resides at Anaconda, Montana, which represents the Government's royalty due from a shipment of tungsten concentrates, Lot 1, from this property in accordance with the attached GOA Acceptance and Invoice form.

Also attached is a copy of a letter from Mr. Johnson dated April 3.

Sincerely yours,

Donald R. Macaaron
For: A. J. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District

Attachments as indicated

cc: Gunnar S. Johnson
DMEA w/encls.
CPF

Royalty

ATTACHMENTS RECD	4-10-57
BY	L.L.
ROYALTY PAID TO DATE	$420.92

C O P Y P Y

Box 775
Anaconda, Mont.
Apr. 3, '57

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

A. E. Weissenborn
S. 157 Howard St.
Spokane 4, Wash.

Dear Mr. Weissenborn:

Please excuse the delay. I had only one settlement return and it took until now to get the inclosed. I don't know if I calculated the royalty right. I used 5% which seemed to be the maximum. We mined 740 tons to get this amount of tungsten.

The inclosed royalty payment of $257.99 is for Docket No. DMEA-3098 (tungsten) (Sunshine Mining Co.) Storm Lake Tungsten Property Deer Lodge and Granite Counties, Mont. Contract No. Idm-E598 (Terminated).

Truly yours,

/s/ GUNNAR JOHNSON

RECEIVED
APR 8 1957
U.S.G.S
SPOKANE, WASH.

GENERAL SERVICES ADMINISTRATION
DOMESTIC TUNGSTEN PURCHASE PROGRAM
ACCEPTANCE AND INVOICE

DATE February 4, 1957

CERTIFICATE OF AUTHORIZATION NO. 10-T-102

ACCEPTANCE NO. 2

Mr. Emmett Johnson
Castle Road
Anaconda, Montana

Lot #1

Subject to the terms and conditions of the Tungsten Regulation establishing the Government's Purchase Program for Domestic Tungsten Concentrates in one or more short tons, the Government accepts 31 bags containing 3100 (Number) (Containers) net tons (net tons) of Pelandite (Mineral Type) concentrates delivered f.o.b. [illegible] consigned to City Wrecker Mine, [illegible] Montana on B/L No.

These concentrates have a moisture content of 0.54 % and analyses on a [illegible] as follows:

[illegible] Oxide	(WO_3)	60.32 %	Molybdenum	(Mo)	0.03 %
[illegible]	(Sn)	0.02 %	Phosphorus	(P)	0.02 %
[illegible]	(Cu)	0.32 %	Sulphur	(S)	0.24 %
[illegible]	(As)	NIL %	Manganese	(Mn)	0.04 %
[illegible]	(Sb)	NIL %	Lead	(Pb)	0.06 %
[illegible]	(Bi)	Tr. %	Zinc	(Zn)	0.03 %
[illegible]	(Fe)	7.52 %	Calcium	(Ca)	-- %

[illegible]UATION AND SETTLEMENT DATA

[illegible] 60 % WO_3 Per Short Ton Unit $55.00

[illegible] were

[illegible] WO_3	below		% 20¢ each	1.00%	$	
% Sn	above		% 25¢ each	.10%	$	
% Cu	"		% 25¢ each	.01%	$	
% As	"		% 25¢ each	.10%	$	
% Sb	"	.10	% 25¢ each	.10%	$	
% Bi	"		% 25¢ each	.50%	$	
% Mo	"		% 25¢ each	.10%	$	
% P	"		% 25¢ each	.01%	$	
% S	"	.50	% 25¢ each	.10%	$	
% Mn	"		% 25¢ each	1.00%	$	
% Pb	"		% 25¢ each	.10%	$	
% Zn	"	.10	% 25¢ each	.10%	$	

Total Penalties $ None

Adjusted Base Price - Net Price per Short Ton Unit $ 55.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

400

RECEIVED
SEP 2 1955

September 23, 1955

Mr. Seymour Standish
Consulting Engineer
814 Forest Avenue
Evanston, Illinois

3098

Dear Mr. Standish:

Thank you for your letter of September 20, 1955.

Government expenditure at the Tungstar exploration project totaled $33,695.85. A certification of discovery has been issued and royalty due the Government would total $33,695.85 pending final audit. Mines Prospecting and Exploration Company has a copy of the certification.

By Field Team, Region I, Northwest District

Verne C. Fryklund, Jr., Acting Executive Officer
United States Geological Survey

Stephen W. Koldek, Acting Member
United States Bureau of Mines

CC: DME (2)
USGS (2)
Claimant

Re: Docket No. DME-3056 (tungsten)
Sunshine Mining Company
Tungstar Group (Tarlach Group)
Deer Lodge and Granite Counties, Montana
Contract No. Ism-1598

3279 was Rock Creek
Sunshine Co
Granite Co

SEYMOUR STANDISH
CONSULTING ENGINEER
814 FOREST AVENUE
EVANSTON, ILL.

Sept. 20, 1955

Mr. A. E. Weissenborn,
Executive Officer, DMEA,
Sa. 157 Howard St.,
Spokane 4, Washington.

Dear Sir,

On September 3, 1955, I made a lease-purchase contract with MINES PROSPECTING & EXPLORATION CO., a Montana Corporation, of Missoula, covering four lode mining claims, namely, Echo, Scheelite, Tungster, and September, all duly recorded in Deer Lodge County Seat. As you are, of course, familiar with the details, I am writing to ask if you will let me know the amount of money advanced by DMEA to Sunshine Mining Co., who, I understand negotiated a mining loan on this property and did development work on it in the period 1954-1955, and subsequently returned it to the owners mentioned above? If it is not within your province to advance such information, will you kindly advise me the correct source of such information? You can readily understand that it is pertinent to our occupation and proposed development of that property.

I might add that we are entirely familiar with the loan provisions requiring an operator pay a royalty of not to exceed 5% on any ore mined thereafter, but we would like to know the total amount that we would be liable for during the 10 year period.

I might add that I have also taken a contract on the Atlantic Cable Quartz Lode mill, which we are planning to recondition and to adapt it for the processing of scheelite ore.

Thanking you for any aid you may give in this matter I am,

Yours very truly,

P.S. You may recall me more easily when I tell you that I am the Agent for the Rock Creek Mines Syndicate, who submitted a DMEA manganese application in Jan. 1954.

RECEIVED
SEP 21 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
~~WASHINGTON 25, D.C.~~
So. 157 Howard Street
Spokane 4, Washington

Royalty PAC

August 9, 1955

Mrs. Myrtle Purdy, Certifying Officer
DMEA Field Team, Region I, NW District
1201 North Division Street
Spokane 2, Washington

Re: Docket No. DMEA-3098 (tungsten)
Sunshine Mining Company
Storm Lake Tungsten Property
Deer Lodge & Granite Counties, Montana
Contract Idm-E598

Dear Mrs. Purdy:

Attached is Check No. 34 dated July 18, 1955, received from Mr. Paul H. Floyd of the Mineral Recovery and Engineering Company in the amount of $144.30 which represents the Government's royalty due from a shipment of scheelite concentrates from the property of the above-captioned company.

The attached settlement sheet discloses that this shipment is covered by Mineral Recovery and Engineering Company Lots 13 and 19 and Storm Lake Property Lots 1 and 2 (Sunshine Mining Company).

Sincerely yours,

RECEIVED
AUG 15 1955

A. E. Weissenborn
Executive Officer, DMEA
Field Team, Region I
Northwest District

Attachments as indicated

cc: Operator
DMEA w/encl.
CPF

ATTACHMENTS
REC'D 8-12-55
BY M.P.
REMARKS 162.93
TO DMEA

Sunshine Mining Company

Exploration Division

738 PEYTON BUILDING — RIVERSIDE 8396

SPOKANE 1, WASHINGTON

August 4, 1955

Mr. A. E. Weissenborn, Exec. Officer
Field Team, Region I, Northwest District
South 157 Howard Street
Spokane 4, Washington

Re: Docket No. DMEA-3098
(tungsten)
Tarlach Claims
Deer Lodge and Granite
Counties, Montana
Contract No. Idm-E598

Dear Mr. Weissenborn:

Enclosed herewith please find check for $144.30 issued by Paul H. Floyd to DMEA.

This represents 5% of the gross amount received for two lots of scheelite concentrate from the above captioned project.

Yours very truly,

SUNSHINE MINING COMPANY
Exploration Division

Rowland King

Rowland King
Chief Engineer

RK:DO
Encs.

RECEIVED
AUG 8 1955
U. S. G. S.
SPOKANE, WASH

PAUL H. FLOYD
METALLURGICAL ENGINEER

MINERAL BENEFICIATION
MILL DESIGN AND
CONSULTING

MINERAL RECOVERY AND ENGINEERING CO.

July 18, 1955

SETTLEMENT SHEET -- MRE Co. Lot #18 and Lot #19, Sunshine Mining Co. Storm Lake Property Lot #1 and Lot #2. Received March, 1955.

MRE Co. Lot #18

(A) Mineral: Scheelite flotation concentrate
Moisture: 19.44%
Net Wet Weight: 6970 lbs.
Net Dry Weight: 5615 lbs. or 2.8075 tons

(B) Mineral: Scheelite table middlings
Moisture: 18.02%
Net Wet Weight: 1930 lbs.
Net Dry Weight: 1582 lbs. or 0.7910 tons

Settlement based on composite of these two partial lots as per agreement and upon base MRE Co. schedule.

Net Dry Weight (A) plus (B): 3.5985 tons
Settlement Assay: 13.21% WO_3
44.88 oz/ton Ag

Value: $2,069.69 WO_3 47.54 units @ $43.54
77.52 Ag
$2,138.21

MRE Co. Lot #19

Mineral: Scheelite table concentrate
Moisture: 11.85%
Net Wet Weight: 660 lbs.
Net Dry Weight: 582 lbs. or 0.291 tons
Settlement Assay: 50.70% WO_3
21.37 oz/ton Ag
1.235 oz/ton Au

Settlement @ $50.06 per unit WO_3 and MRE Co. base schedule for Au and Ag.

Value: $ 738.56 WO_3 14.75 units
2.49 Ag 5.32 oz
6.75 Au .36 oz
$ 747.80

Payment: $2,886.01 GROSS DUE
125.00 Freight Butte to Kellogg
$2,761.01 Net amount for calculation of claim owner's royalty

RECEIVED
AUG 8 1955
U.S.G.S.
SPOKANE, WASH.

PAUL H. FLOYD
METALLURGICAL ENGINEER

MINERAL BENEFICIATION
MILL DESIGN AND
CONSULTING

MINERAL RECOVERY AND ENGINEERING CO.

SETTLEMENT SHEET — MRE Co. Lot #18 and Lot #19 continued

Royalties as per direction Sunshine Mining Co.:

(1)	IMEA - Contract #Idm E598, Check No. 34 @5%	$ 144.30
(2)	William Gallagher, C/O Western Montana Bank, Missoula, Montana, Check No. 35 @5%	138.05
(3)	Mine Prospecting and Exploration Co., 312 Radio Control Bldg., Missoula, Montana, Check No. 36 @2½%	69.03
(4)	James H. Maguire, Box 135, Silverton, Idaho, Check No. 37 @2.08333%	57.52
(5)	John T. Maguire, Box 135, Silverton, Idaho, Check No. 38 @0.20833%	5.75
(6)	William E. Maguire, Box 135, Silverton, Idaho, Check No. 39 @0.20833%	5. 75
	Total Royalties	$ 420.40
	Balance due Sunshine Mining Company	$2,465.61

Paul H. Floyd
Mineral Recovery and Engineering Company

4

DEPARTMENT OF THE INTERIOR
Lucky Minerals Company
RECEIVED
FEB 5 1955

xxxxxxxxxxxxxxxxxx
So. 157 Howard Street
Spokane 4, Washington

January 28, 1955

WSM

Mrs. Myrtle Purdy, Certifying Officer
DMEA Field Team, Region I, NW District
1201 North Division Street
Spokane 2, Washington

Re: Docket No. DMEA-3098 (tungsten)
Sunshine Mining Company
Storm Lake Tungsten Property
Deer Lodge & Granite Counties, Montana
Contract No. Idm-E598

Dear Mrs. Purdy:

Attached is Check No. 21987 dated January 25, 1955, received from the American Smelting and Refining Company's East Helena Plant in the amount of $18.63 which represents the Government's royalty due on a shipment of gold and silver concentrates from the property of the above captioned company.

According to the attached settlement sheet, Lot No. 1 containing 1,112 tons, all of which was subject to DMEA royalty, sold at $335.26 per ton totaling $372.81 before deduction of bullion freight charge.

Royalty was paid at 5 percent after this deduction of $0.31 was paid by the smelter.

Sincerely yours,

John S. Vhay
Acting Member, DMEA
Field Team, Region I
Northwest District

Attachments as indicated

cc: Operator
DMEA w/encl

Received attachments _____
date

Myrtle Purdy

Royalty

[illegible] IN SMELTING AND REFINING COMPANY AND PART PLATINUM [illegible]

[illegible] 21487

[illegible] January [illegible]

[illegible] Royalty

[illegible] Lake Cts. Lot [illegible]

[illegible] (Superior Mining Co. Tungsten Bay.)

[illegible] AND REPORT CHECK ONLY

FORM NO. A-31

AMERICAN SMELTING AND REFINING CO.

EAST HELENA PLANT

Sunshine Mining Company — East Helena, Mont. January 25, 1955

Bought of Tungsten Division — Mine Storm Lake — Our Lot No. 2392

Class Concts. — Shipping Point Phillipsburg, Montana — Mine Lot No. 1

Quotations of Wks.Avg. — Silver .90 — Lead 15.0 — ~~Mn.Ba~~ Cathode Copper 29.575

ASSAYS	GOLD OZ. PER TON	SILVER OZ. PER TON	WET LEAD PER CENT	COPPER PER CENT	INSOL PER CENT	IRON PER CENT	MANGANESE PER CENT	SULPHUR PER CENT	ZINC PER CENT	ARSENIC PER CENT	ANTIMONY PER CENT	BISMUTH PER CENT	LIME PER CENT
A. S. & R. CO.	1.880	314.6	5.8	1.9	23.6	23.2	0.4		5.3	0.40	0.27		2.6
UMPIRE													
SETTLEMENT	1.880	314.6	5.8	1.9	23.6	23.2	0.4		5.3	0.40	0.27		2.6

CAR NUMBER	WEIGHT
Truck	2610
WEIGHT OF LOT	
WEIGHT OF SACKS	
WET WEIGHT	
LESS MOISTURE 14.8 %	386
DRY WEIGHT	2224

VALUES PER TON		
GOLD 91.1371%	@$35-1/4%	59.82
SILVER 95%	@ .90	268.98
LEAD LESS 1.5 90%	15.0-1.8	10.22
COPPER, LESS 1.0	@29.575-6.0	4.24
TOTAL AU. & AG.		343.26
LESS TOTAL DEDUCTION		8.00
POUNDS	@	335.26

DEDUCTIONS PER TON		
BASE FOR Charge	LEAD 8.00	
		8.00
INSOLUBLE	% @	
ZINC	% @	
ARSENIC	% @	
ANTIMONY	% @	
BISMUTH	% @	
DEBIT		
IRON	LBS. @	
TOTAL DEDUCTIONS		8.00
PER TON		$ 372.81

FREIGHT PER WET TON	Bullion frt. on 106#@$24.24 ton 1.28 & 3% tax	$ .04
	" " on 106#@$19.04 ton 1.01	$ .03
HAULING PER WET TON	Royalty 5% DefenseMineralExplor.Adm. Spokane,Wash.	$ 18.63
ROYALTY	*5% William Gallagher Missoula, Montana	$ 16.13
	2.5% MinesProspecting &Explor.Co., Missoula, Montana	$ 8.06
	2.08333% James P. Maguire, Silverton, Idaho	$ 6.72
ADVANCES	0.20833% John T. Maguire, Silverton, Idaho	$ .67
	0.20833% Wm. E. Maguire, Silverton, Idaho	$ .67
UMPIRE	~~*$50.00 trucking deducted before arriving at Royalty~~	$
SAMPLING WHEN LESS THAN 10 TONS		$
	TOTAL	$ 51.19 $ 51.19
	NET PROCEEDS	$ 321.62

DATE OF B/L

DATE OF ARRIVAL 12-11-54

CHECKED

CORRECT

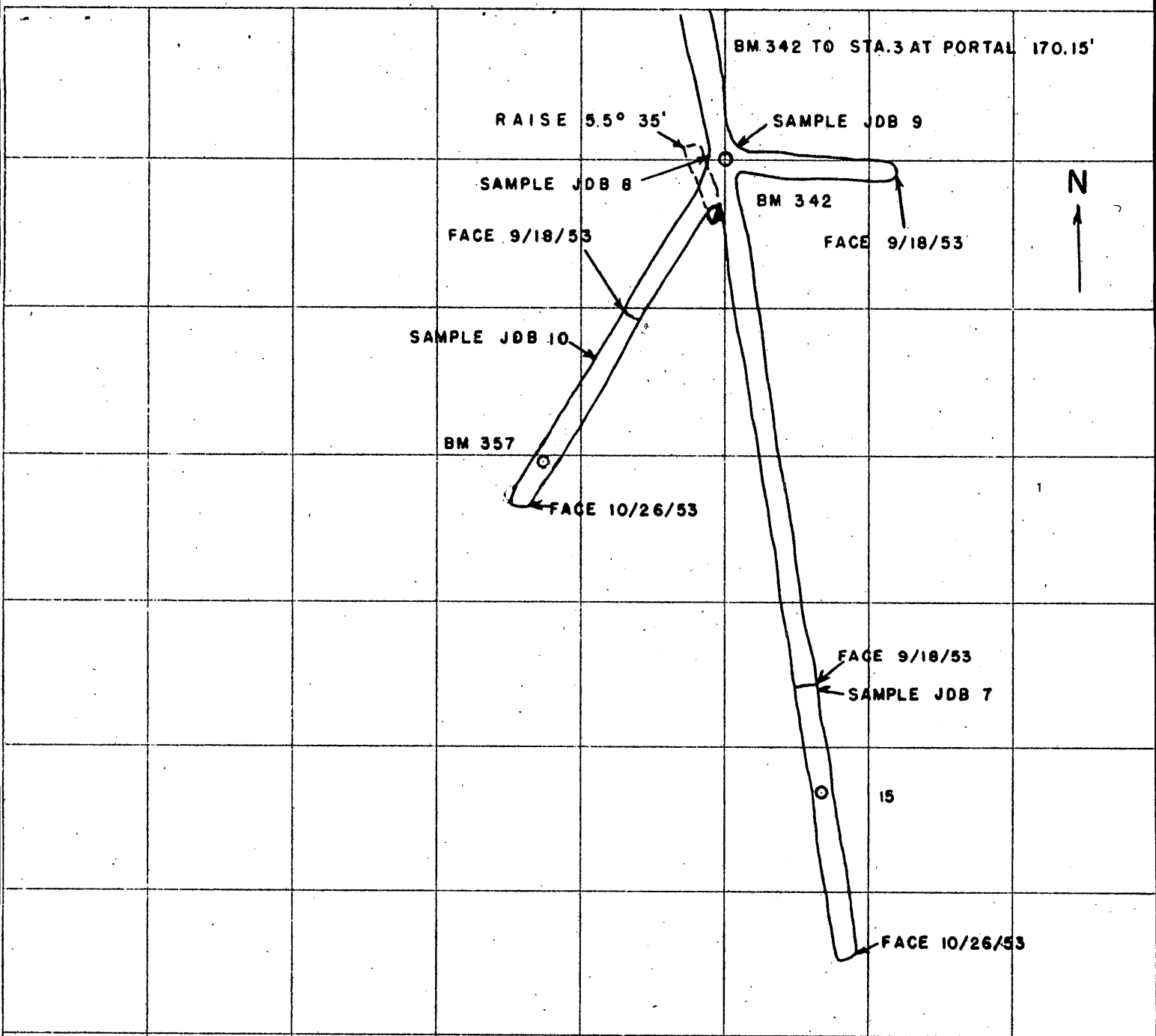
RATES EXCEPT ON CONTRACT, SUBJECT TO CHANGE WITHOUT NOTICE.

A MINIMUM CHARGE OF $5.00 MADE ON ALL LOTS UNDER 10 DRY TONS.

RECEIVED JAN 27 1955

O. S. & S. SPOKANE, WASH.

OK



OTTAWA TUNGSTEN CO.

MARYSVILLE, MONTANA

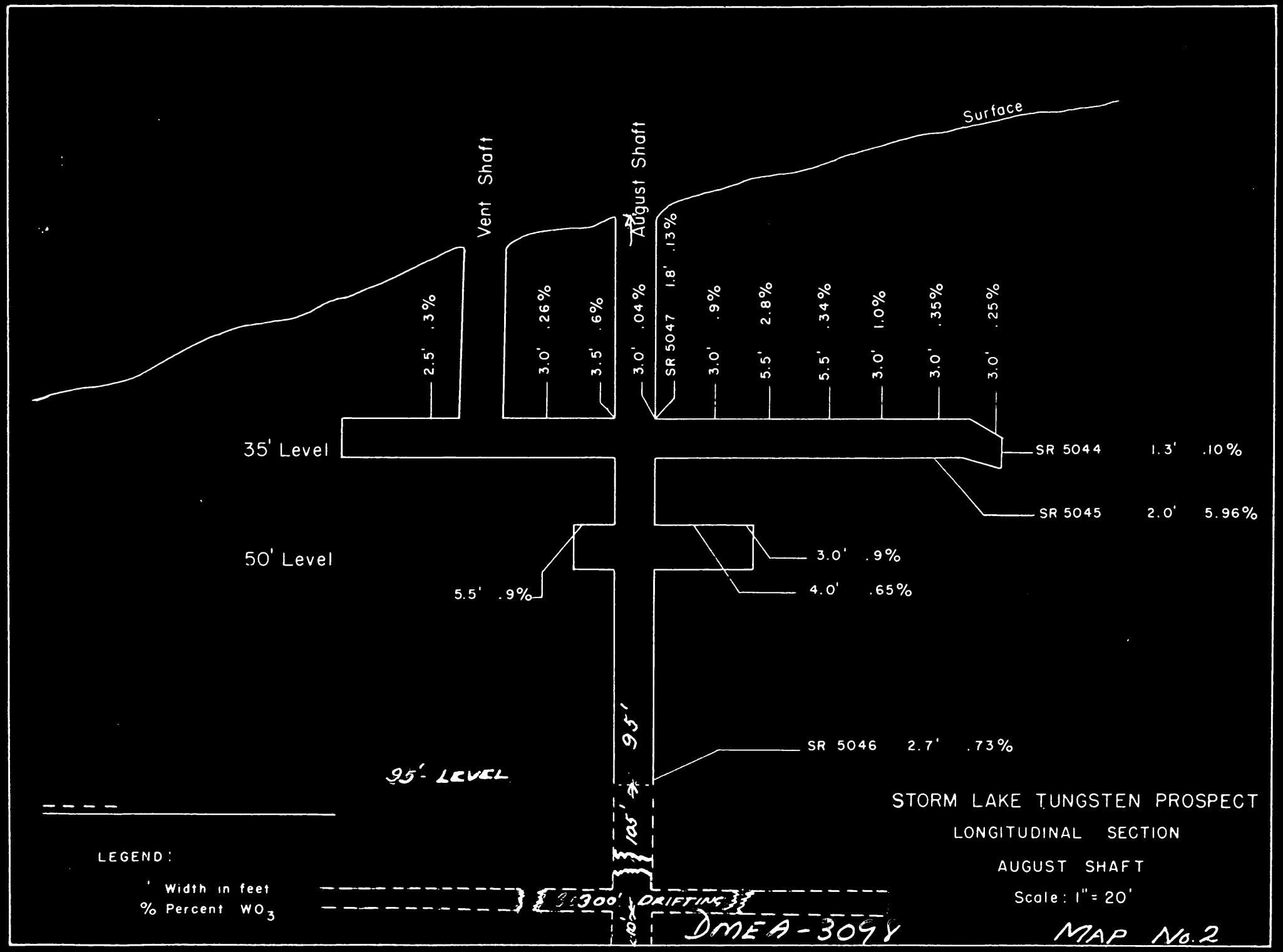
Contract IdmE 490

Docket No. DMEA 2658

SCALE 1" = 40'

JD

"ALBANENE" No. 195M K&E CO
REG. U.S. PAT. OFF


Surface
Vent Shaft
August Shaft
2.5' .3%
3.0' .26%
3.5' .6%
3.0' .04%
SR 5047 1.8' .13%
3.0' .9%
5.5' 2.8%
5.5' .34%
3.0' 1.0%
3.0' .35%
3.0' .25%
35' Level
SR 5044 1.3' .10%
SR 5045 2.0' 5.96%
50' Level
3.0' .9%
4.0' .65%
5.5' .9%
95'
SR 5046 2.7' .73%
95' LEVEL
105'
LEGEND:
' Width in feet
% Percent WO_3
300' DRIFTING
STORM LAKE TUNGSTEN PROSPECT
LONGITUDINAL SECTION
AUGUST SHAFT
Scale: 1" = 20'
DMEA-3098
MAP No. 2

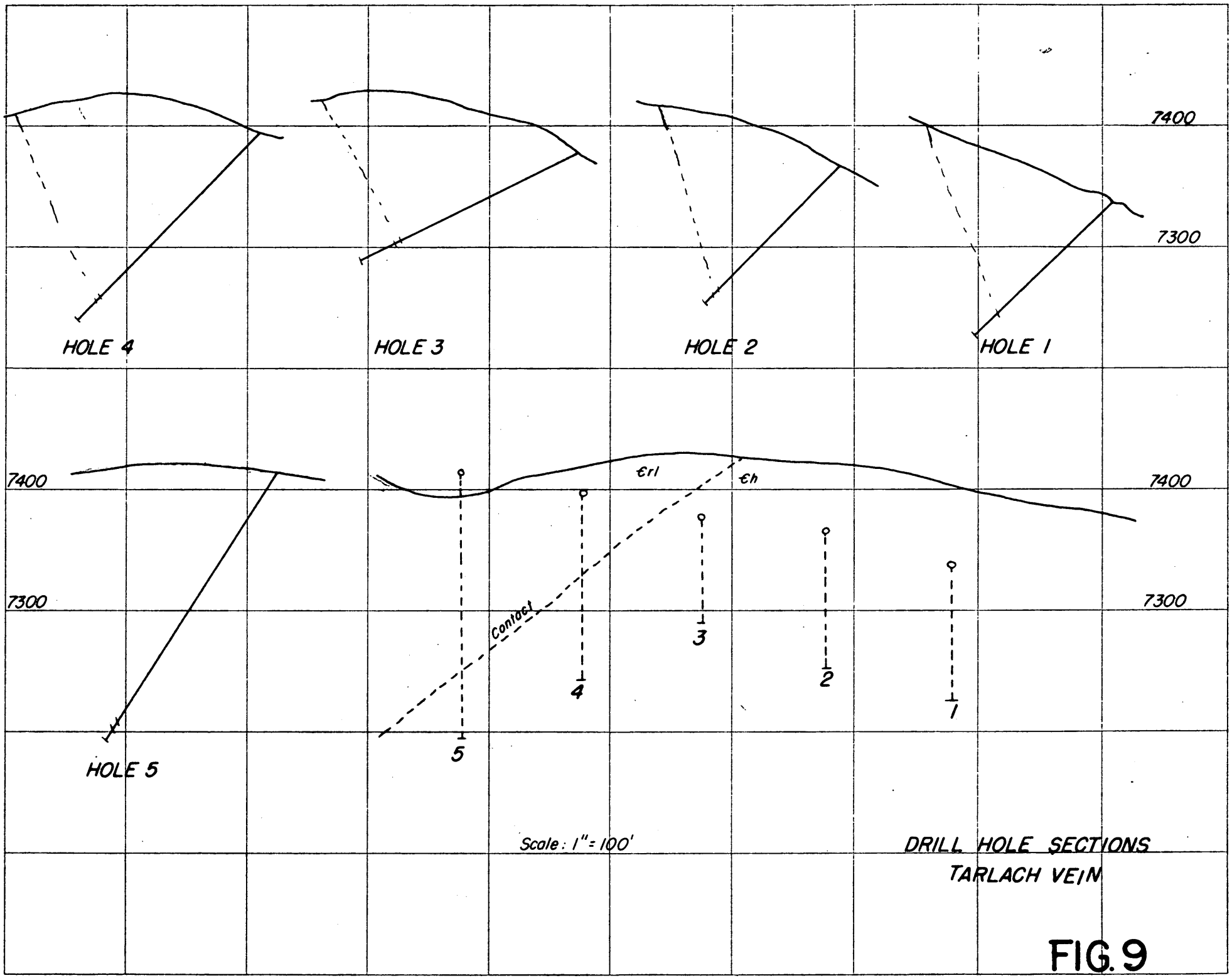
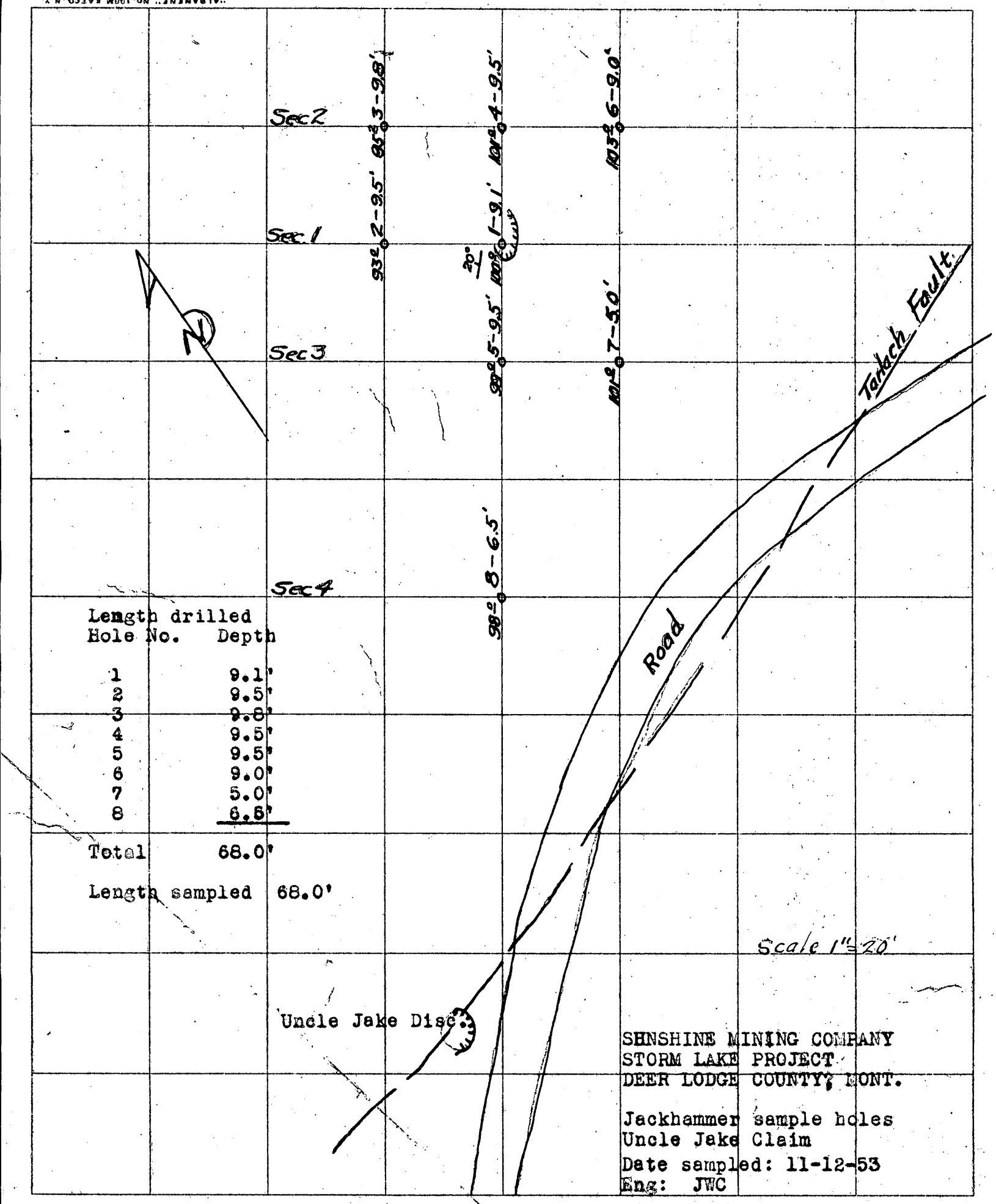


FIG. 9

"ALBANENE" NO. 196M KASCO, N.Y.
REG. U.S. PAT. OFF.

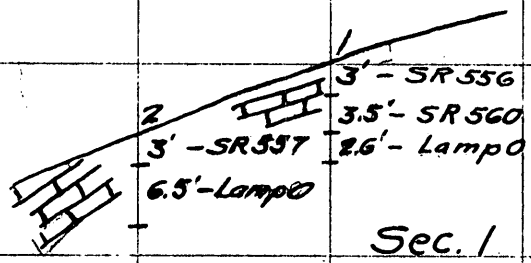


Length drilled

Hole No.	Depth
1	9.1'
2	9.5'
3	9.8'
4	9.5'
5	9.5'
6	9.0'
7	5.0'
8	6.5'
Total	68.0'

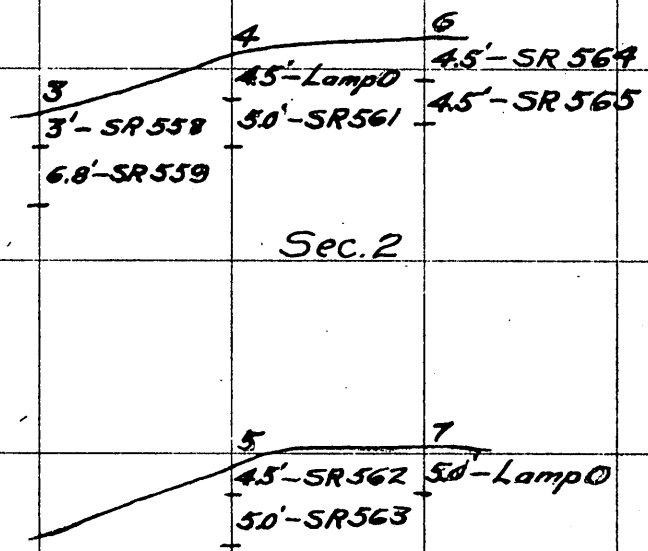
Length sampled 68.0'

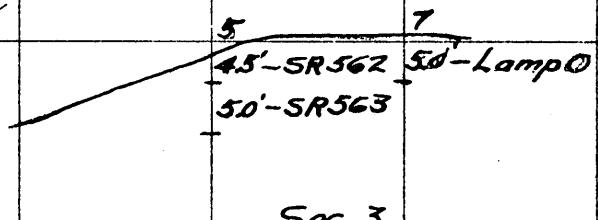
FIG. 10

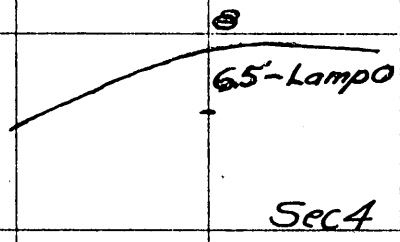


Analyses

Sample No.	% WO3	Length
SR 556	0.288	3.0'
" 557	.236	3.0'
" 558	.188	3.0'
" 559	.145	6.8'
" 560	.070	3.5'
" 561	.089	5.0'
" 562	.210	4.5'
" 563	.050	5.0'
" 564	.095	4.5'
" 565	.066	4.5'
Length assayed		42.8'

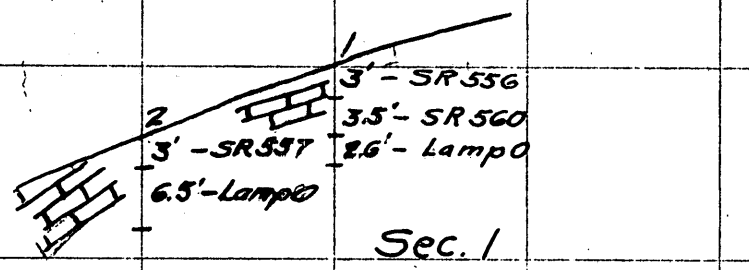






SUNSHINE MINING COMPANY
STORM LAKE PROJECT
DEER LODGE COUNTY, MONT.
Assay sections
Jackhammer drill holes
11-12-53
JWC

FIG. 10A



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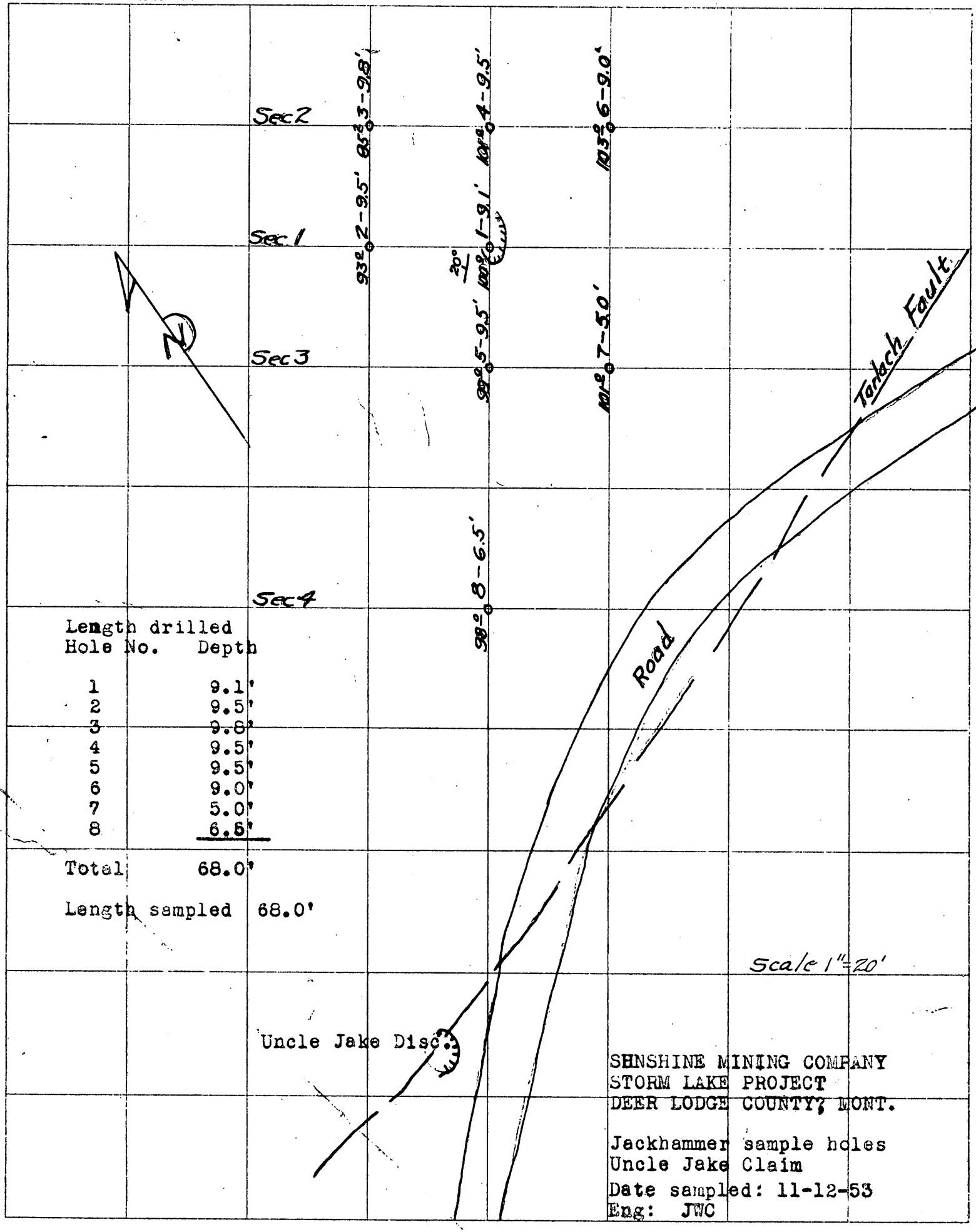
SUNSHINE MINING COMPANY
STORM LAKE PROJECT
DEER LODGE COUNTY, MONT.
Assay sections
Jackhammer drill holes
11-12-53
JWC

FIG. 10A



Length drilled

Hole No.	Depth
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4	9.5'
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6	9.0'
7	5.0'
8	6.5'
Total	68.0'

Length sampled 68.0'

FIG. 10

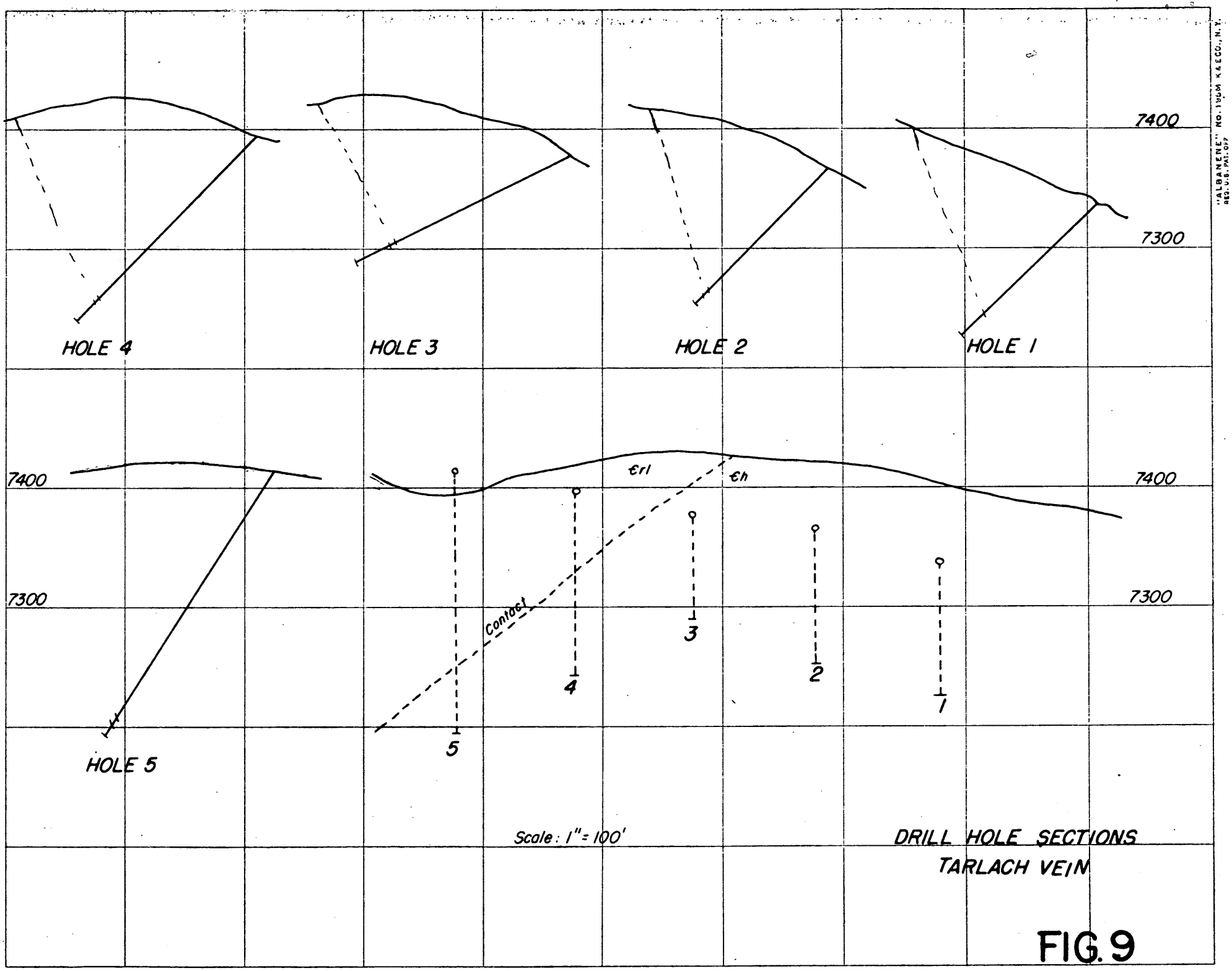
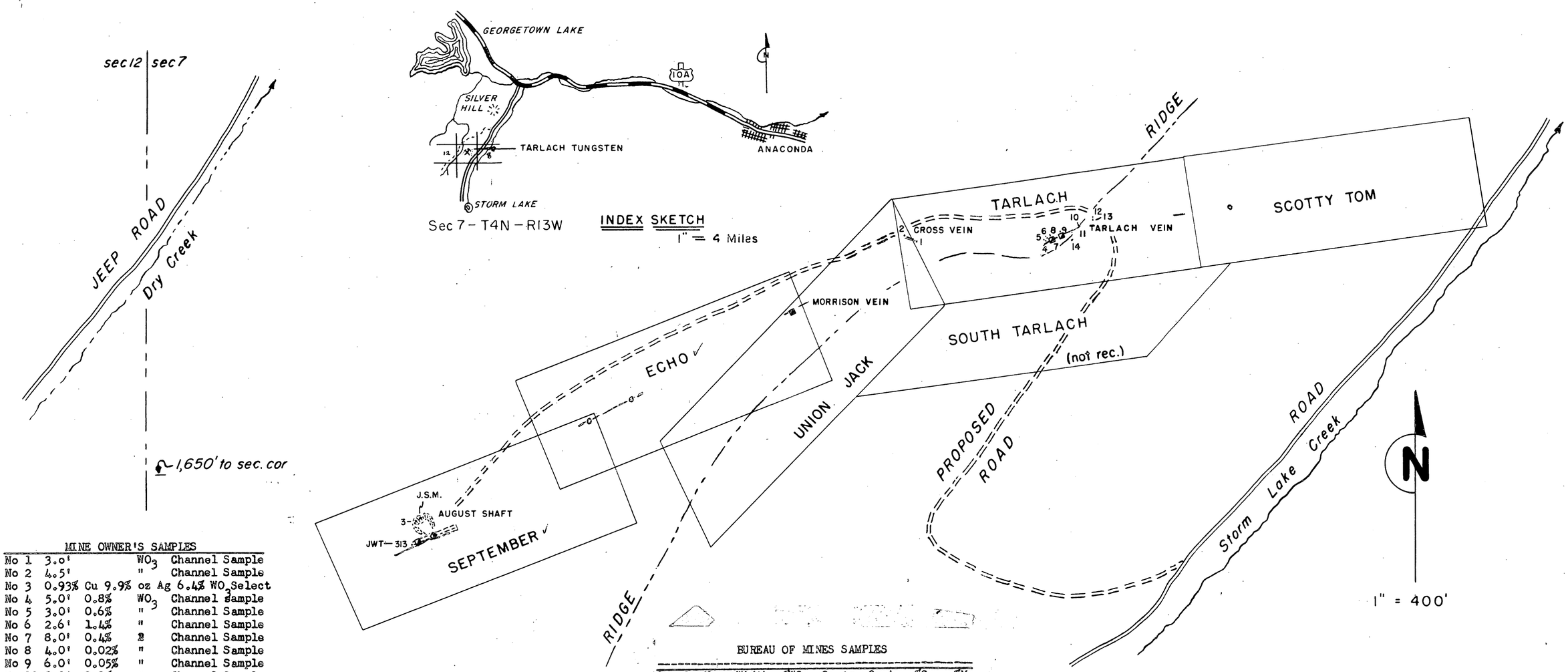


FIG. 9

"ALBANENE" NO. 1950M K&E CO., N.Y. REG. U.S. PAT. OFF.



MINE OWNER'S SAMPLES

No 1	3.0'		WO_3	Channel Sample
No 2	4.5'		"	Channel Sample
No 3	0.93% Cu 9.9% oz Ag 6.4% WO_3			Select
No 4	5.0'	0.8%	WO_3	Channel Sample
No 5	3.0'	0.6%	"	Channel Sample
No 6	2.6'	1.4%	"	Channel Sample
No 7	8.0'	0.4%	"	Channel Sample
No 8	4.0'	0.02%	"	Channel Sample
No 9	6.0'	0.05%	"	Channel Sample
No 10	8.0'	1.1%	"	Channel Sample
No 11	2.0'	2.8%	"	Channel Sample
No 12	0.5'	5.7%	"	Channel Sample
No 13	7.0'	0.02%	"	Channel Sample
No 14	----	5.3%	"	Dump Sample

BUREAU OF MINES SAMPLES

Sample No.	Width	%WO_3	Oz.Ag	Oz.Au	%Cu	%Mo
JWT 313	1'	0.92	2.50	N.D.	0.08	—
JSM 1	Dump	0.36	1.52	—	—	0.37
JSM 2	Dump	0.15	1.42	—	—	0.26
JSM 3	Dump	0.79	0.26	—	—	0.56

DMEA-3098

Traced from map by R.R. Wallace

MAP No 1

TARLACH TUNGSTEN PROSPECT

DEER LODGE COUNTY, MONT.

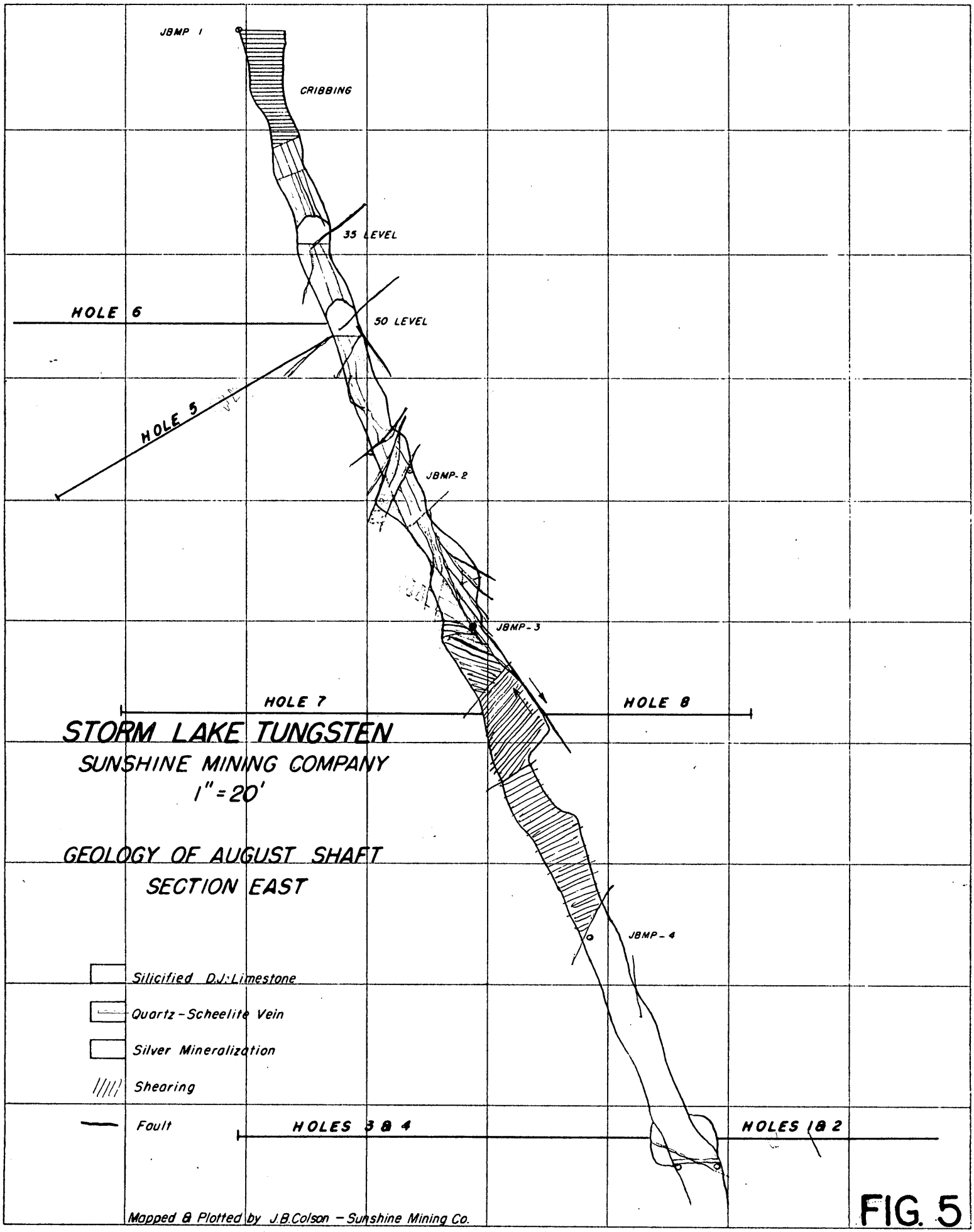
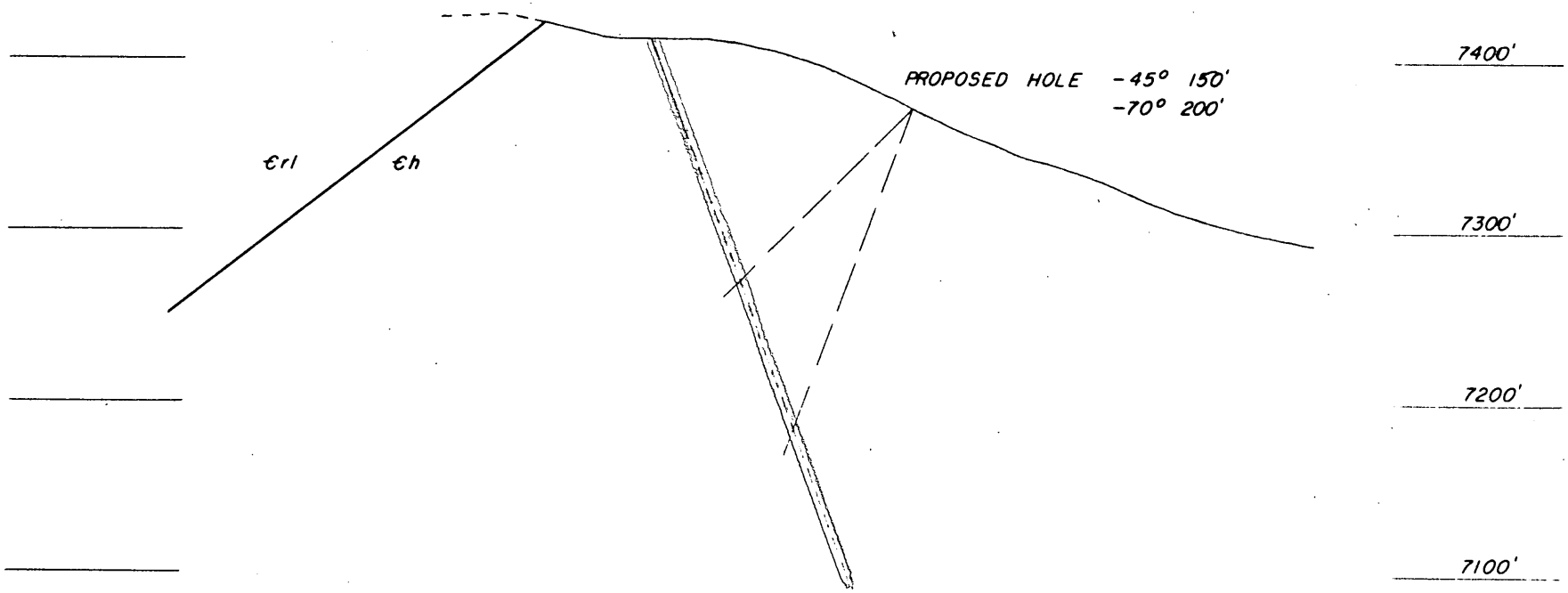


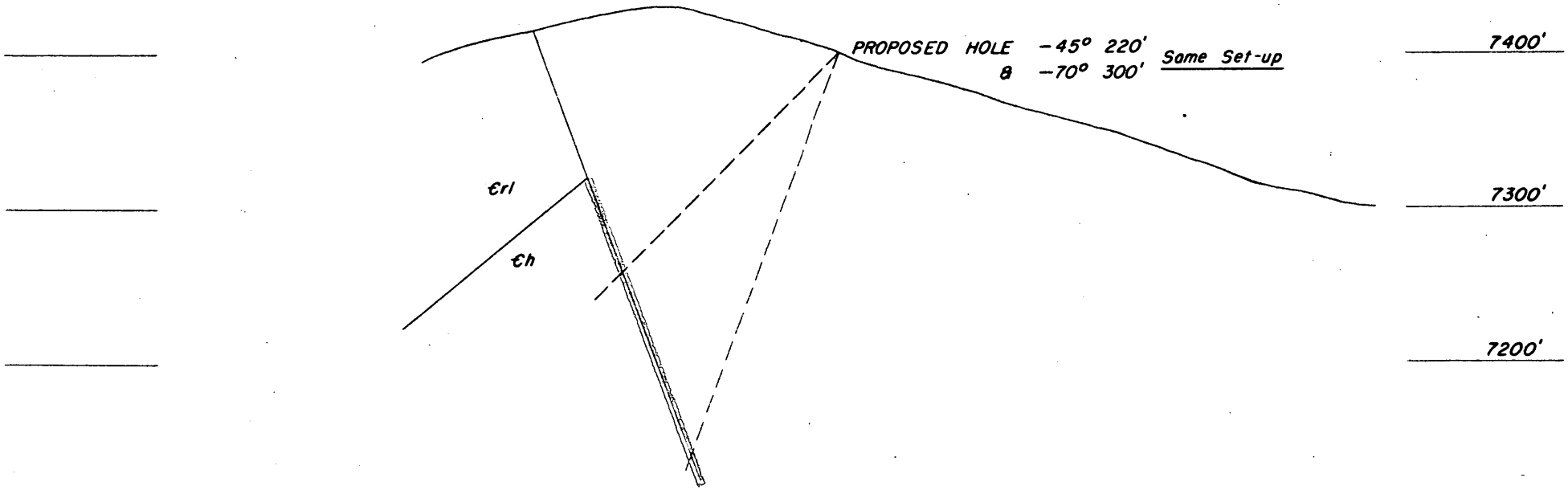
FIG. 5

"ALBANENE" No. 196M K&E CO., N.Y.
REG. U.S. PAT. OFF

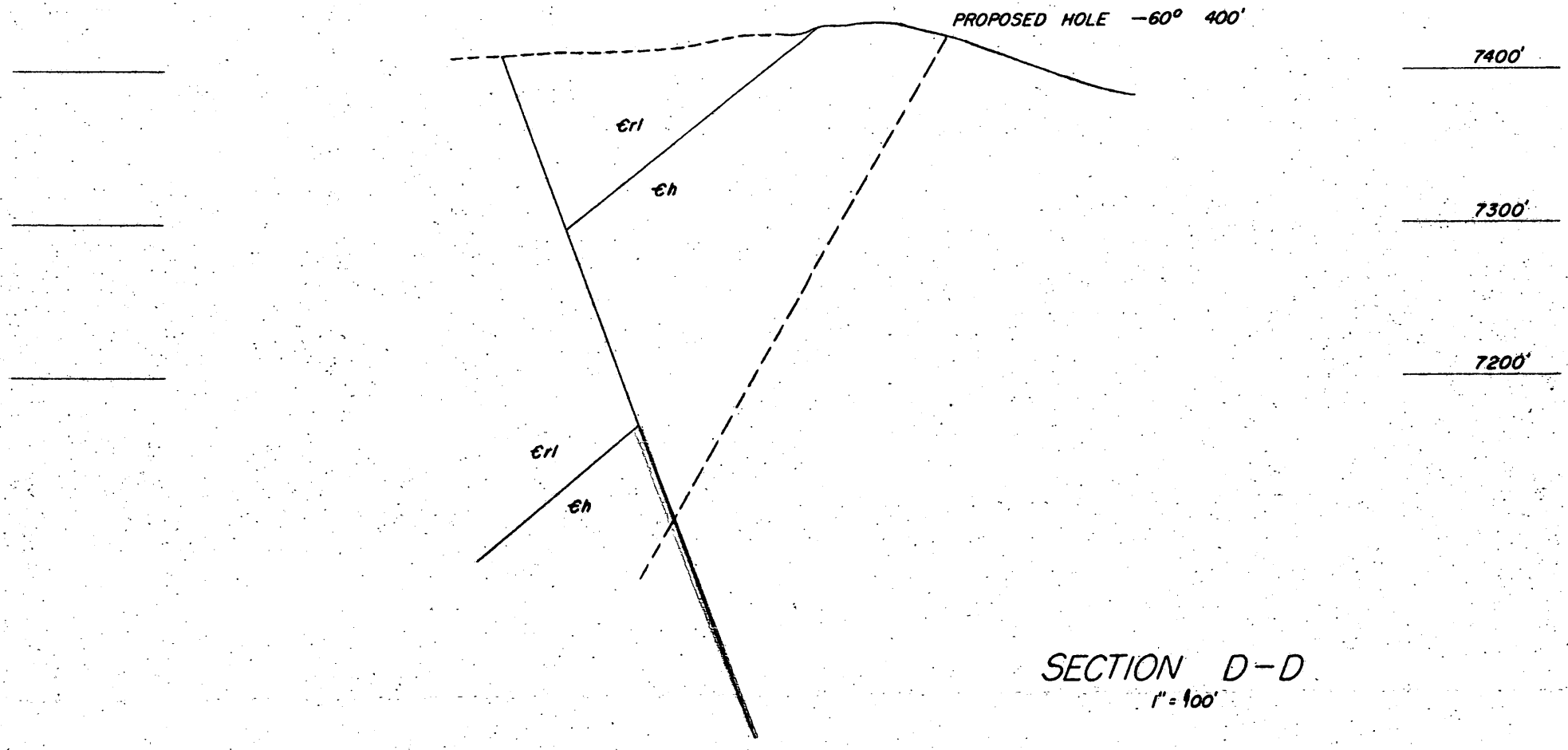


SECTION B-B

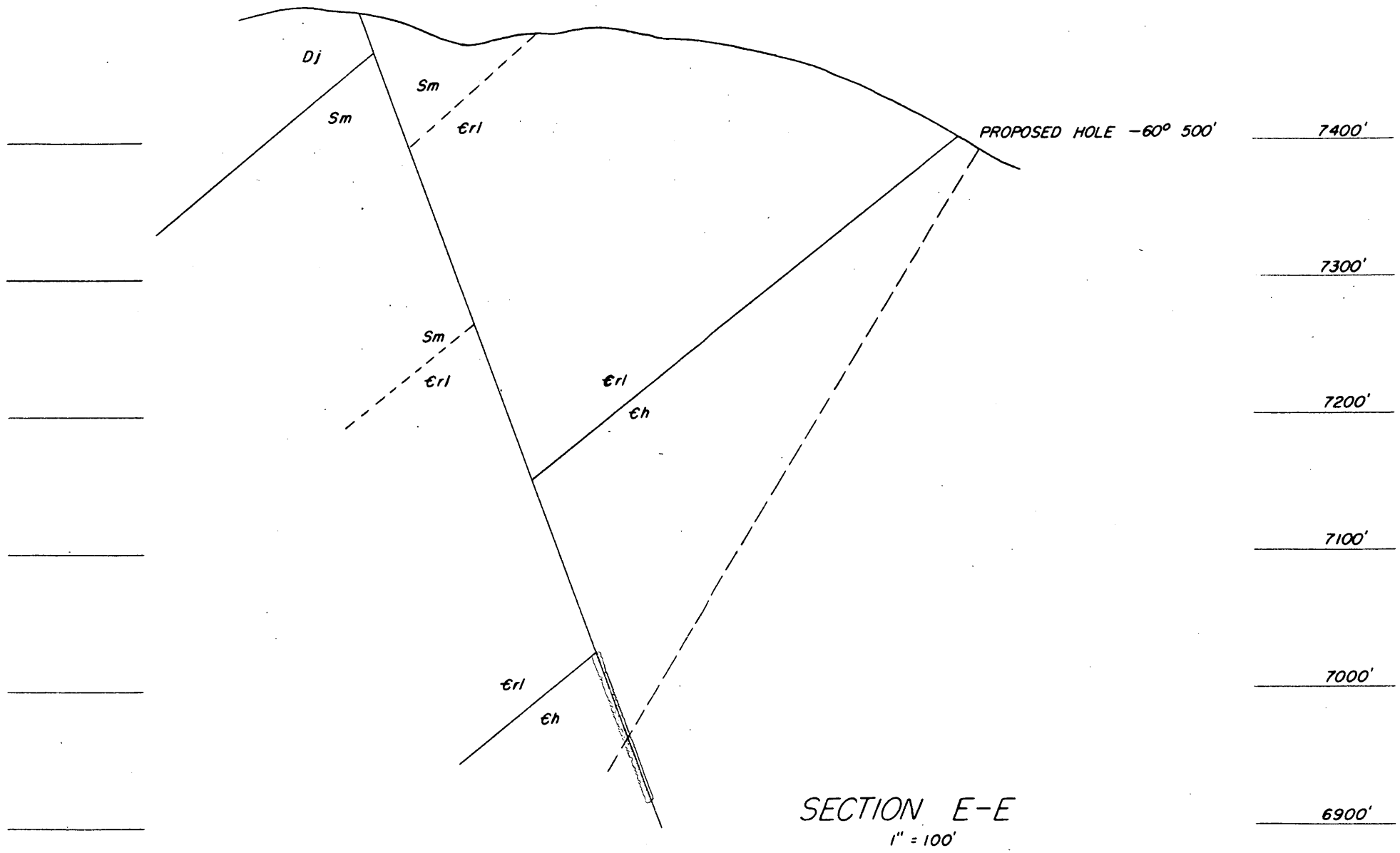
1" = 100'

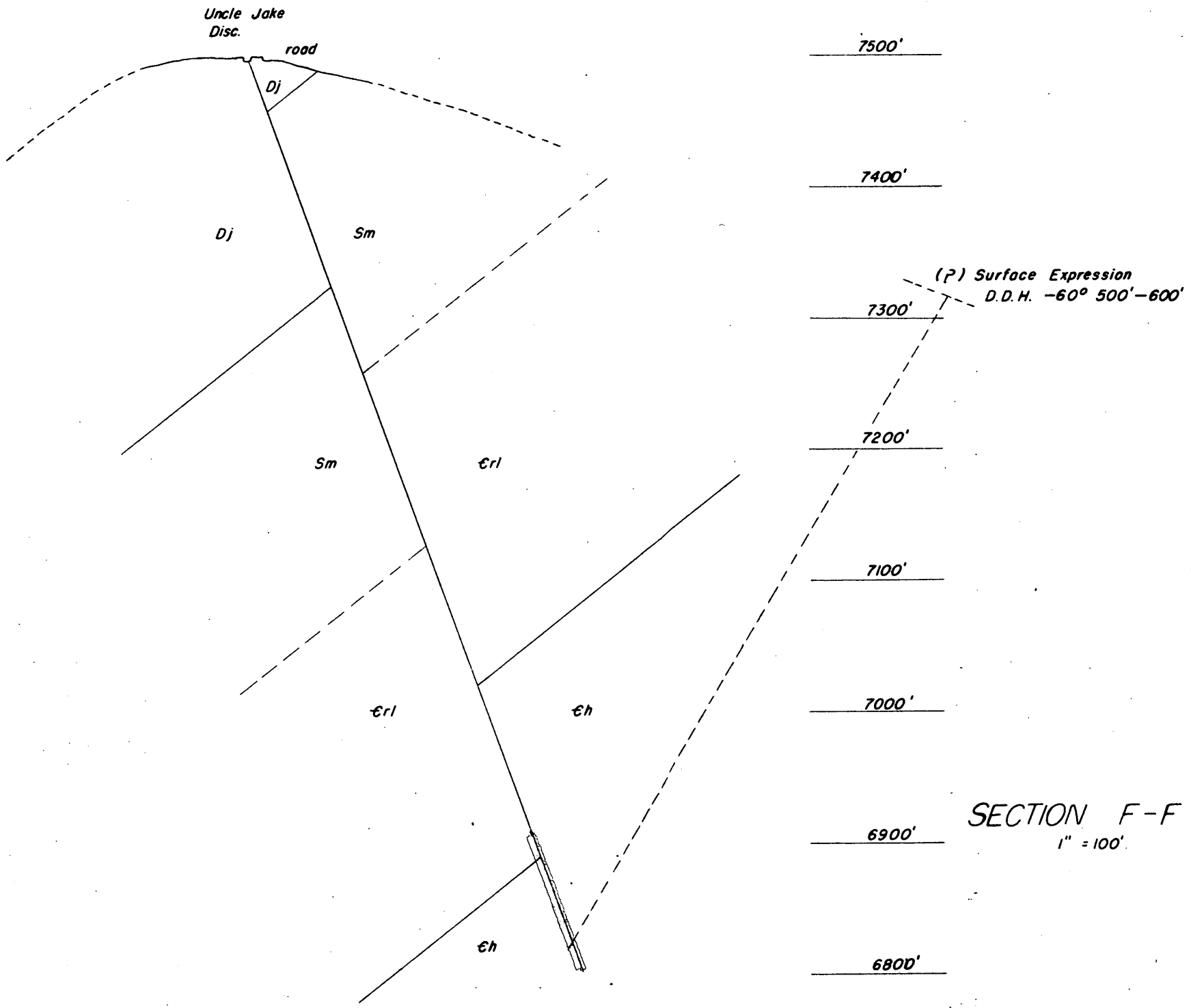


SECTION C-C
1" = 100'

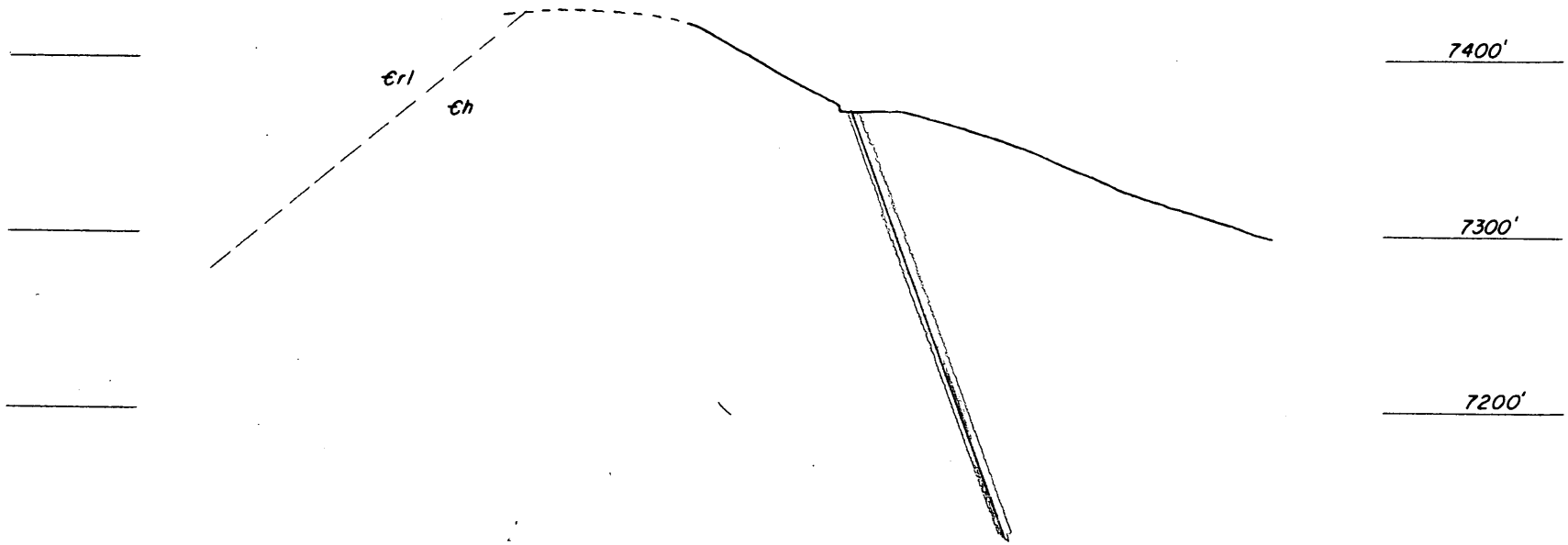


SECTION D-D
1" = 100'

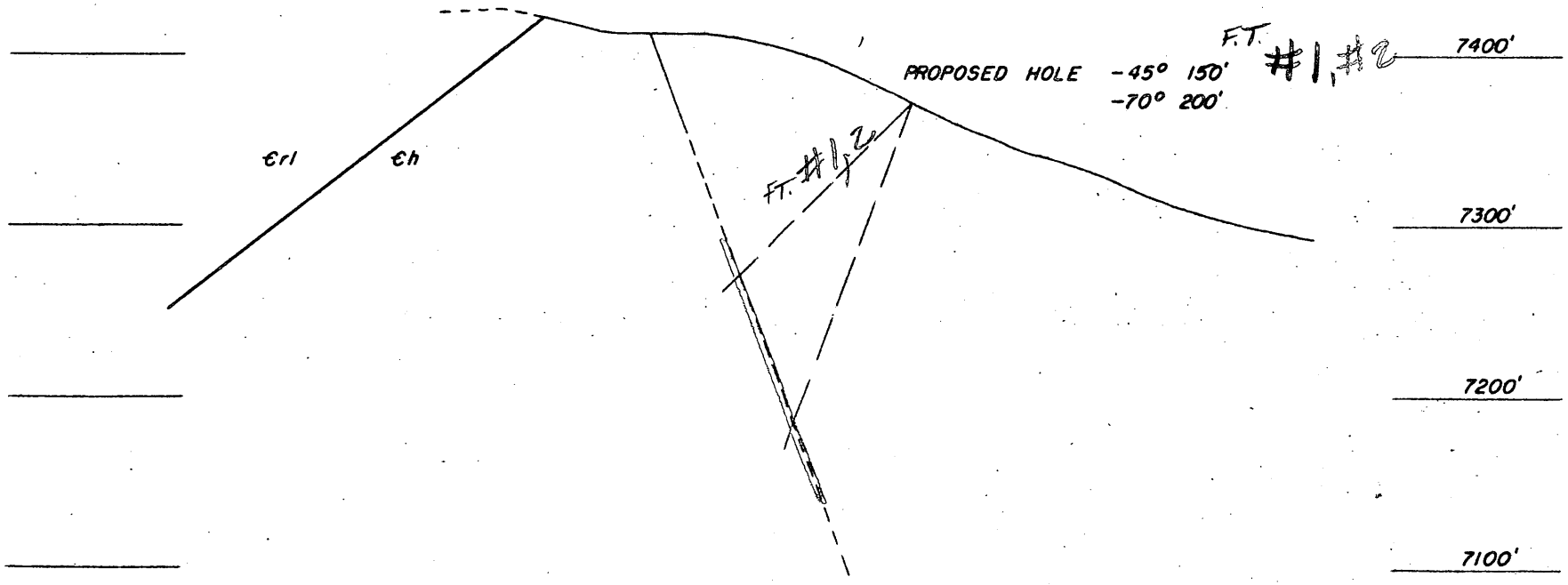

Dj
Sm
Sm
Єrl
PROPOSED HOLE -60° 500'
7400'
7300'
Sm
Єrl
Єrl
Єh
7200'
7100'
Єrl
Єh
7000'
6900'
SECTION E-E
1" = 100'



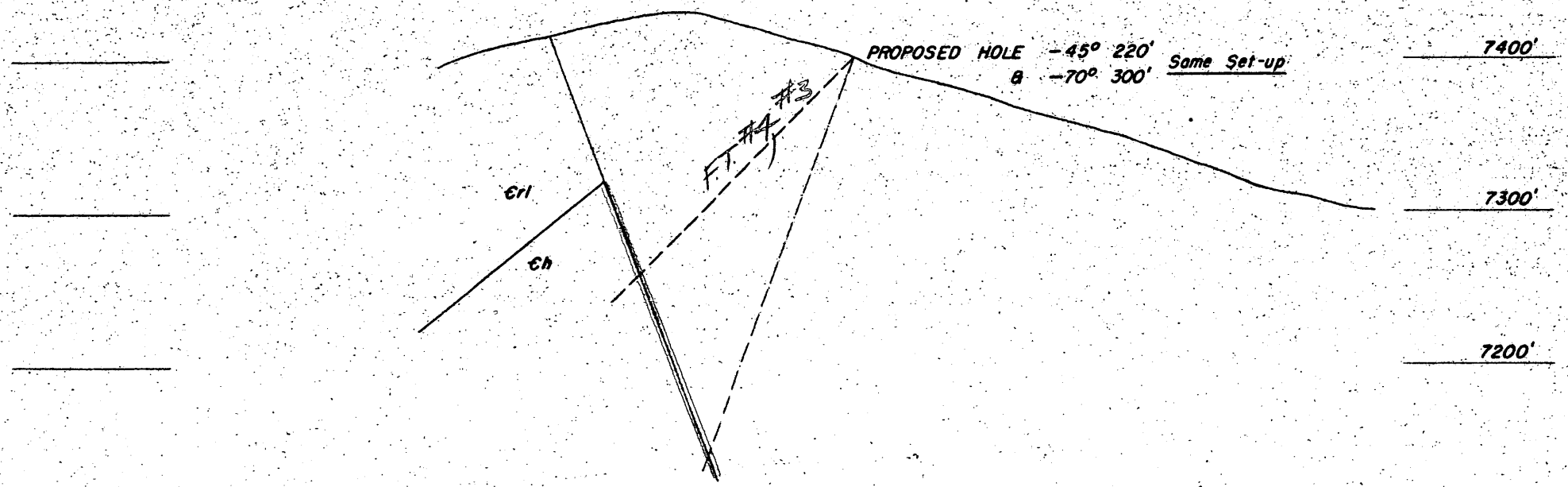
SECTION F-F
1" = 100'



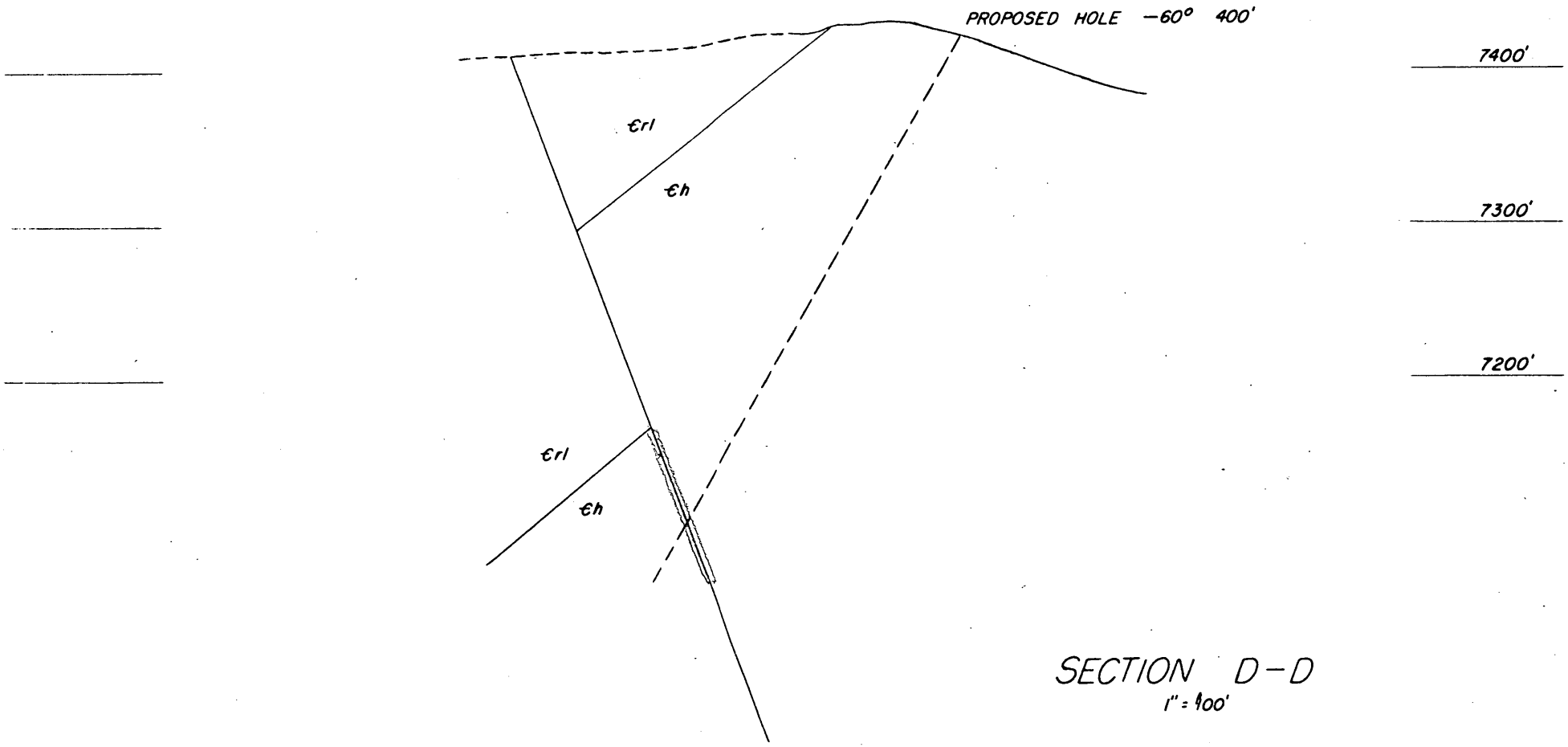
SECTION G-G
1" = 100'



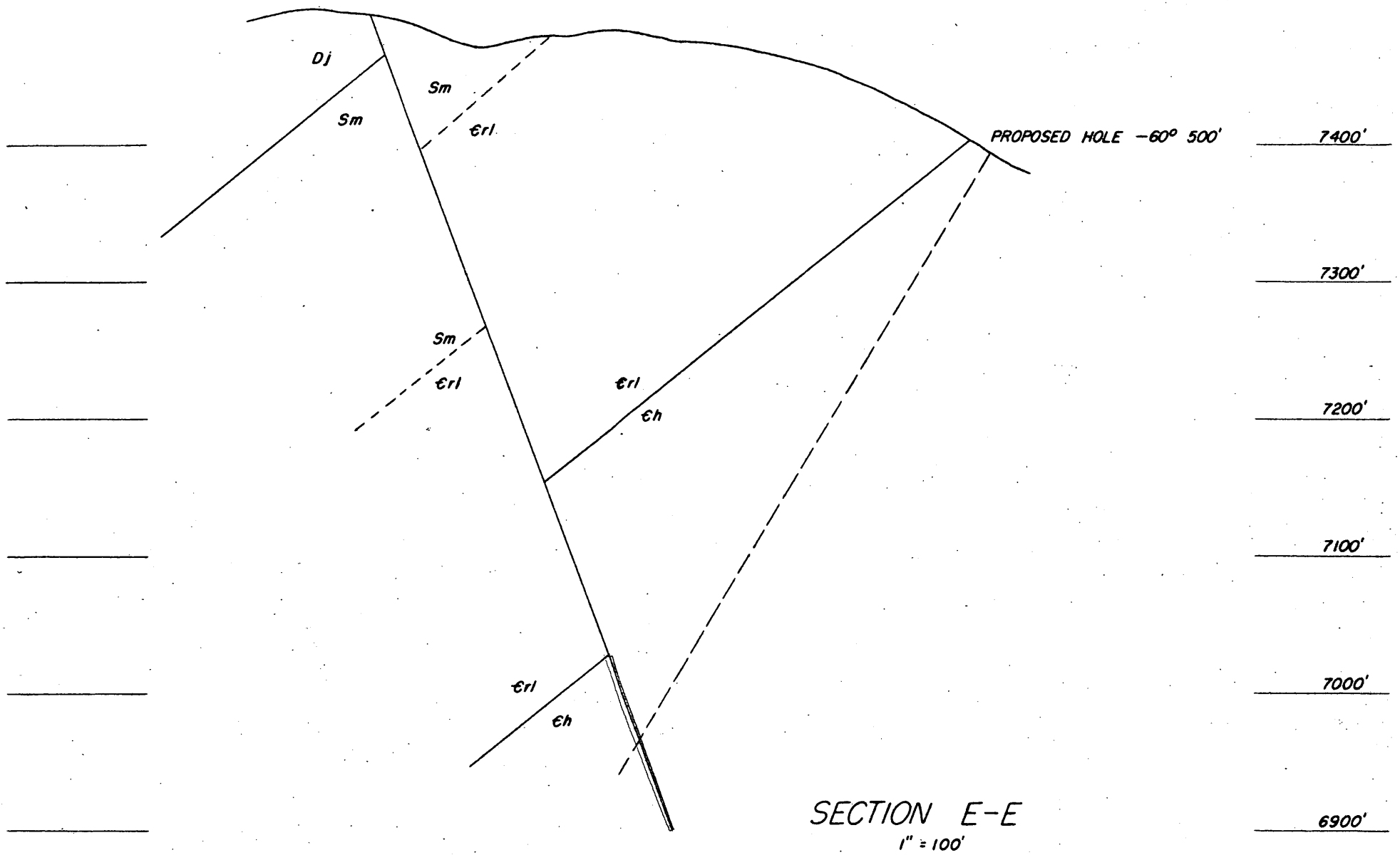
SECTION B–B
1" = 100'

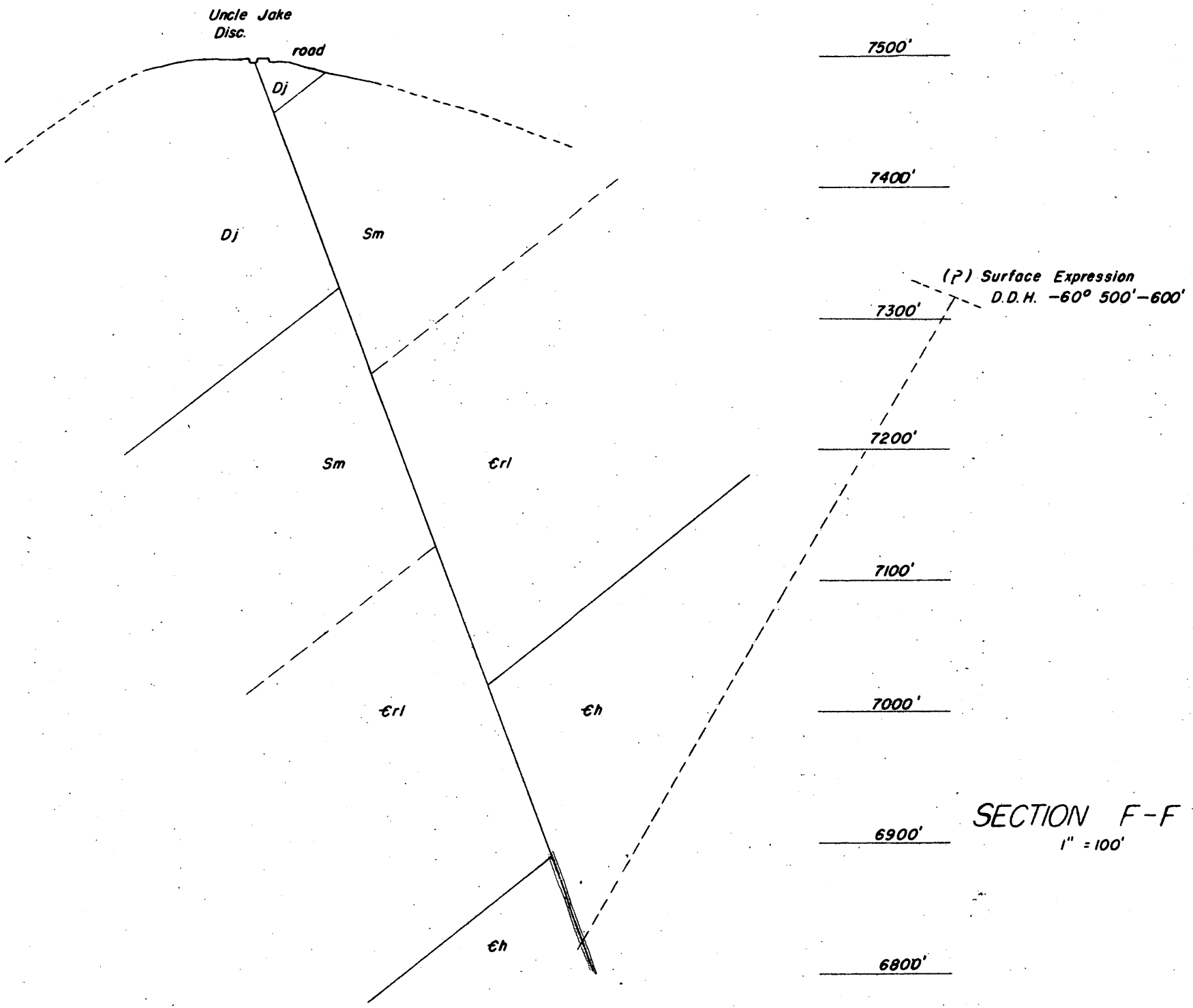


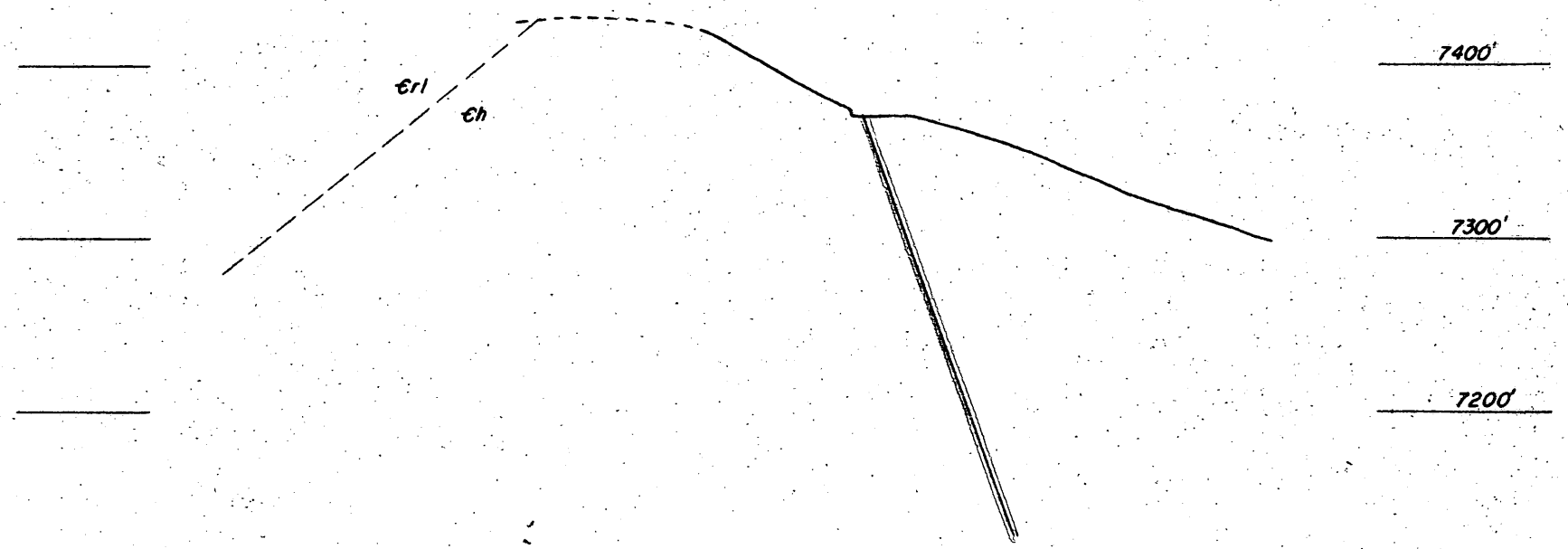
SECTION C-C
1" = 100'



SECTION D-D
1" = 100'


Dj
Sm
Sm
€rl
PROPOSED HOLE -60° 500'
7400'
7300'
Sm
€rl
€rl
€h
7200'
7100'
€rl
€h
7000'
6900'
SECTION E-E
1" = 100'


Uncle Jake
Disc.
road
Dj
Dj
Sm
Sm
Єrl
Єrl
Єh
Єh
7500'
7400'
7300'
7200'
7100'
7000'
6900'
6800'
(?) Surface Expression
D.D.H. -60° 500'-600'
SECTION F-F
1" = 100'



SECTION G-G
1" = 100'

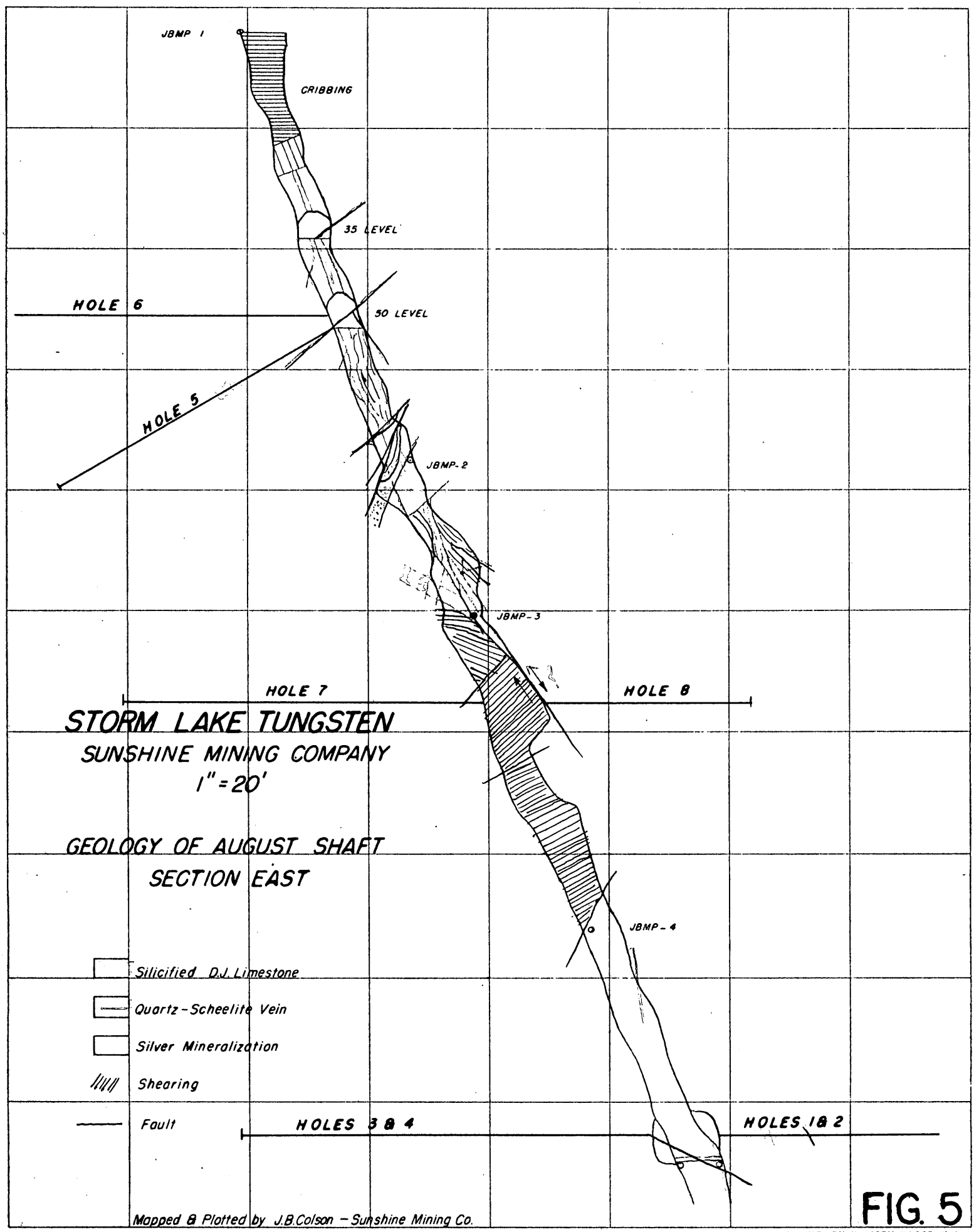
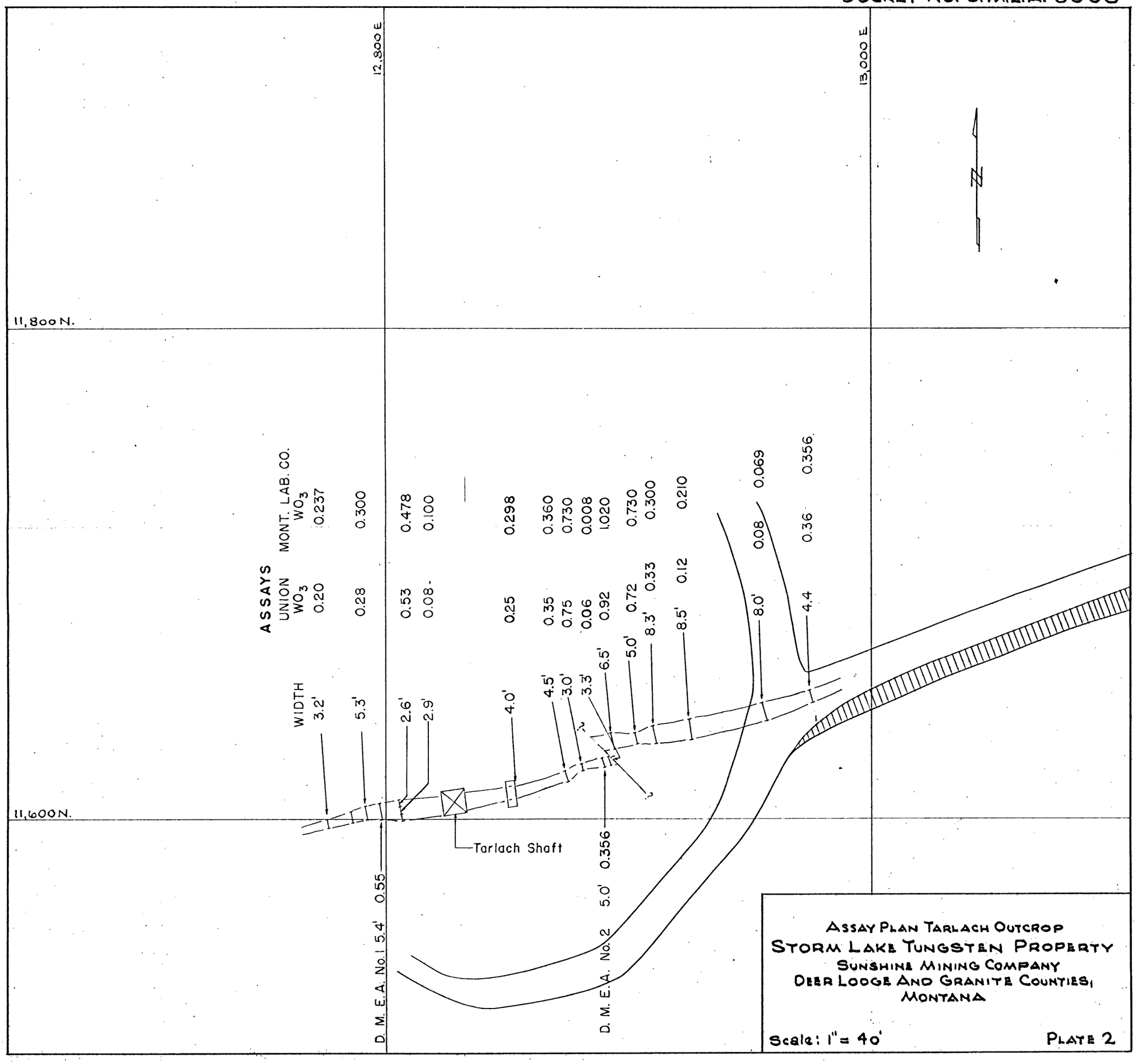


FIG. 5

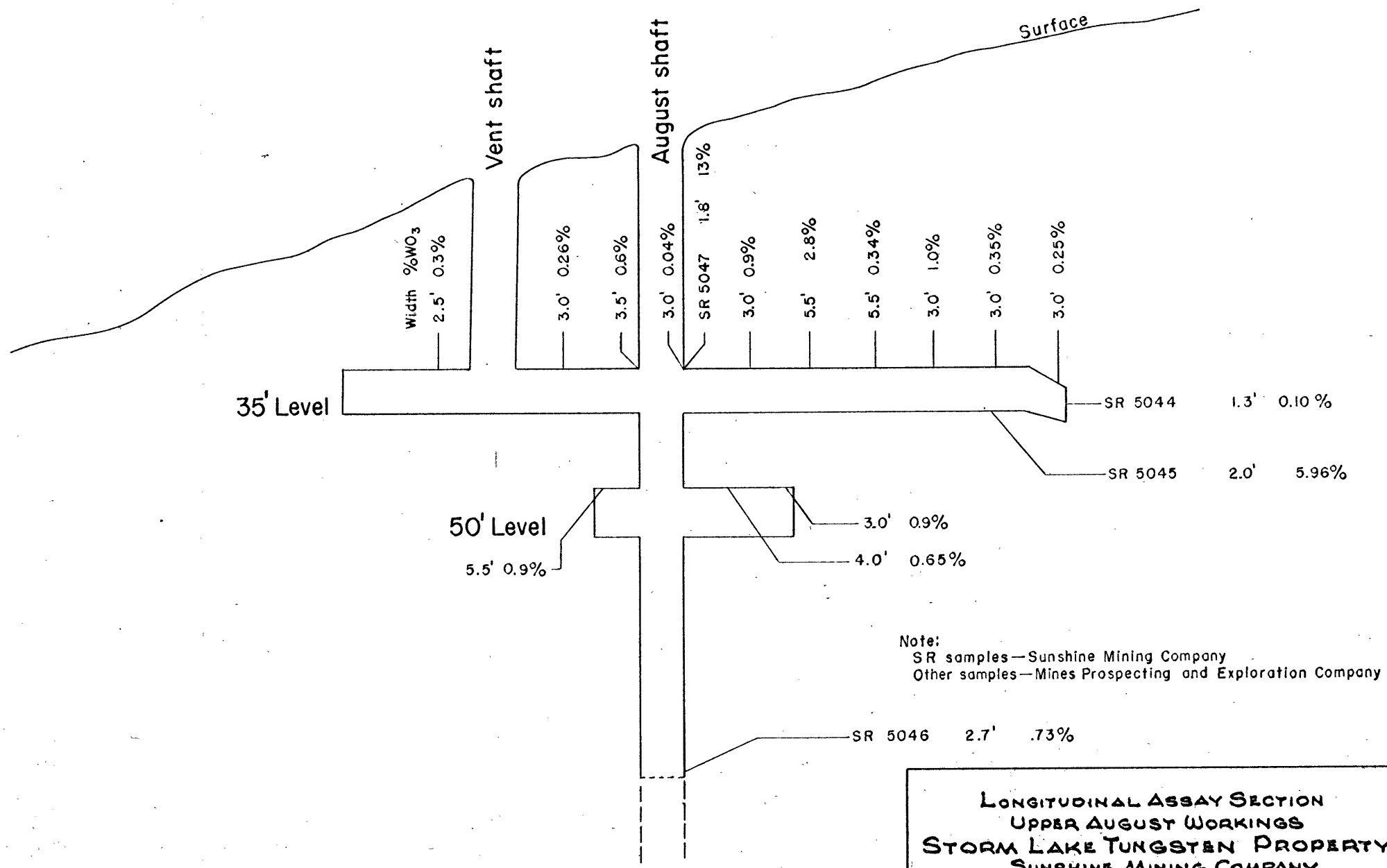
"ALBANENE" NO. 190M K&E CO., N.Y.
REG. U.S. PAT. OFF



ASSAY PLAN TARLACH OUTCROP
STORM LAKE TUNGSTEN PROPERTY
SUNSHINE MINING COMPANY
DEER LODGE AND GRANITE COUNTIES, MONTANA

Scale: 1" = 40'

PLATE 2



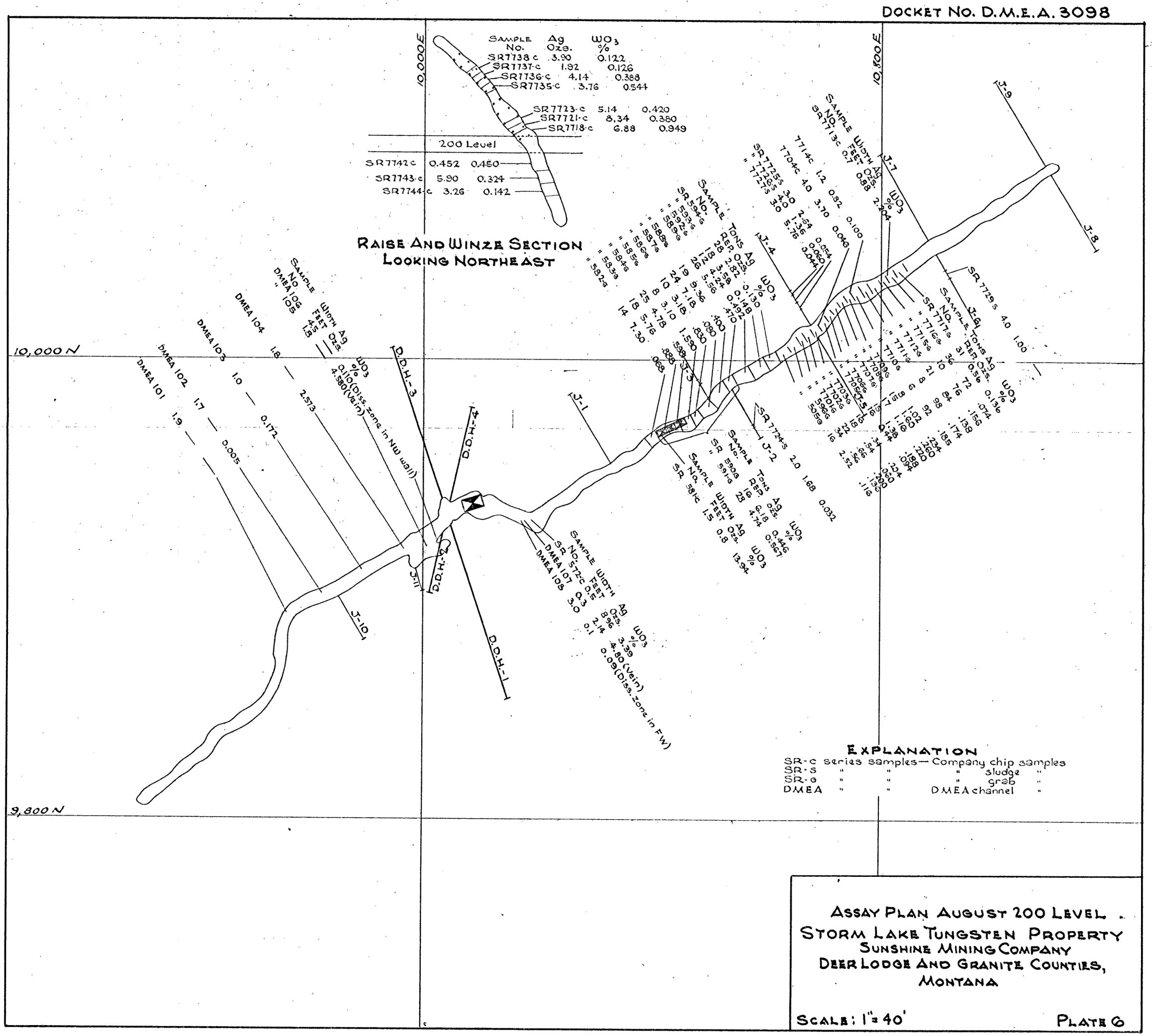
Note:
SR samples—Sunshine Mining Company
Other samples—Mines Prospecting and Exploration Company

LONGITUDINAL ASSAY SECTION
UPPER AUGUST WORKINGS
STORM LAKE TUNGSTEN PROPERTY
SUNSHINE MINING COMPANY
DEER LODGE AND GRANITE COUNTIES,
MONTANA

Scale: 1" = 20'

PLATE 3

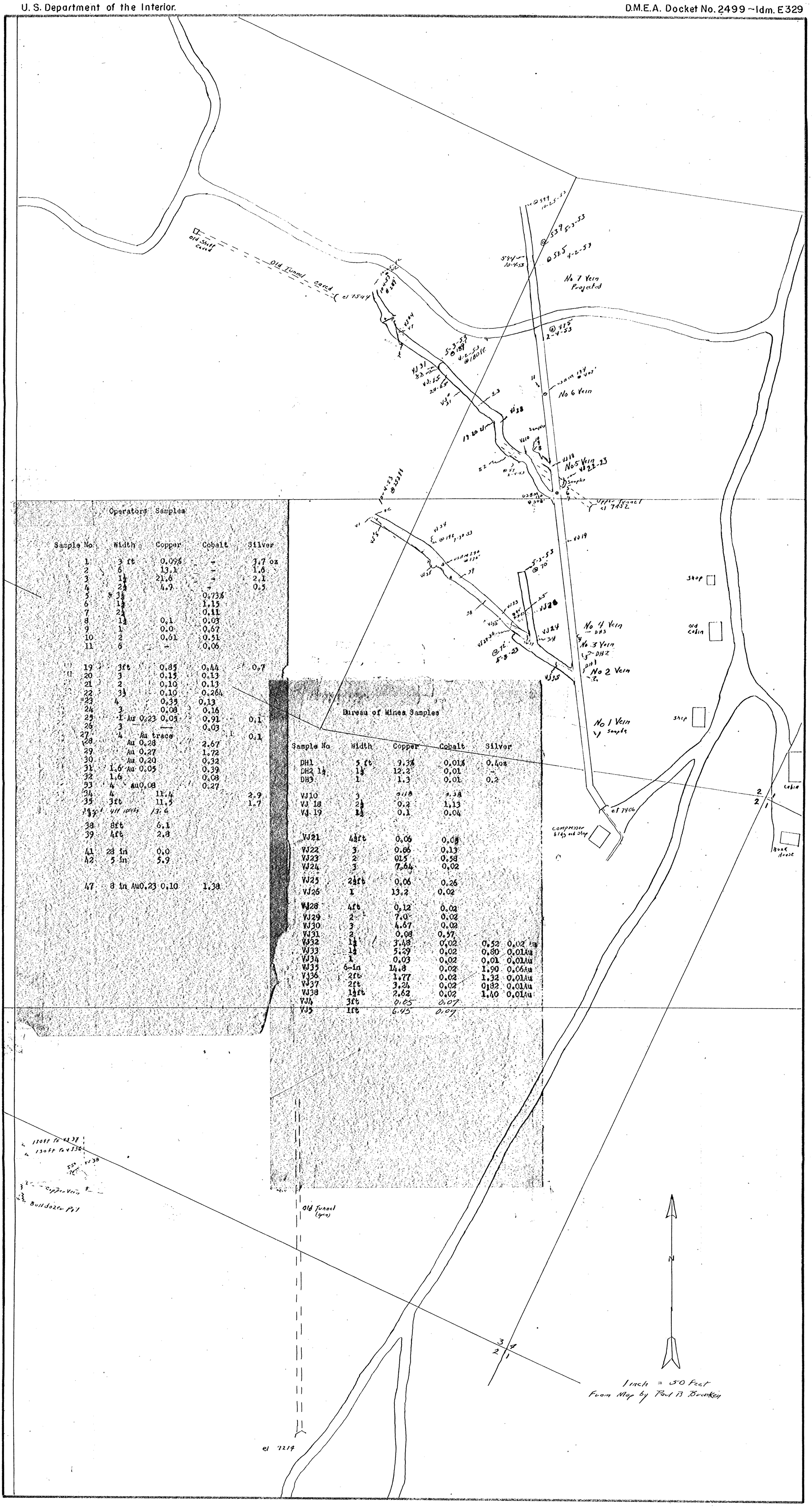
DOCKET NO. D.M.E.A. 3098



ASSAY PLAN AUGUST 200 LEVEL
STORM LAKE TUNGSTEN PROPERTY
SUNSHINE MINING COMPANY
DEER LODGE AND GRANITE COUNTIES,
MONTANA

SCALE: 1" = 40'

PLATE 6

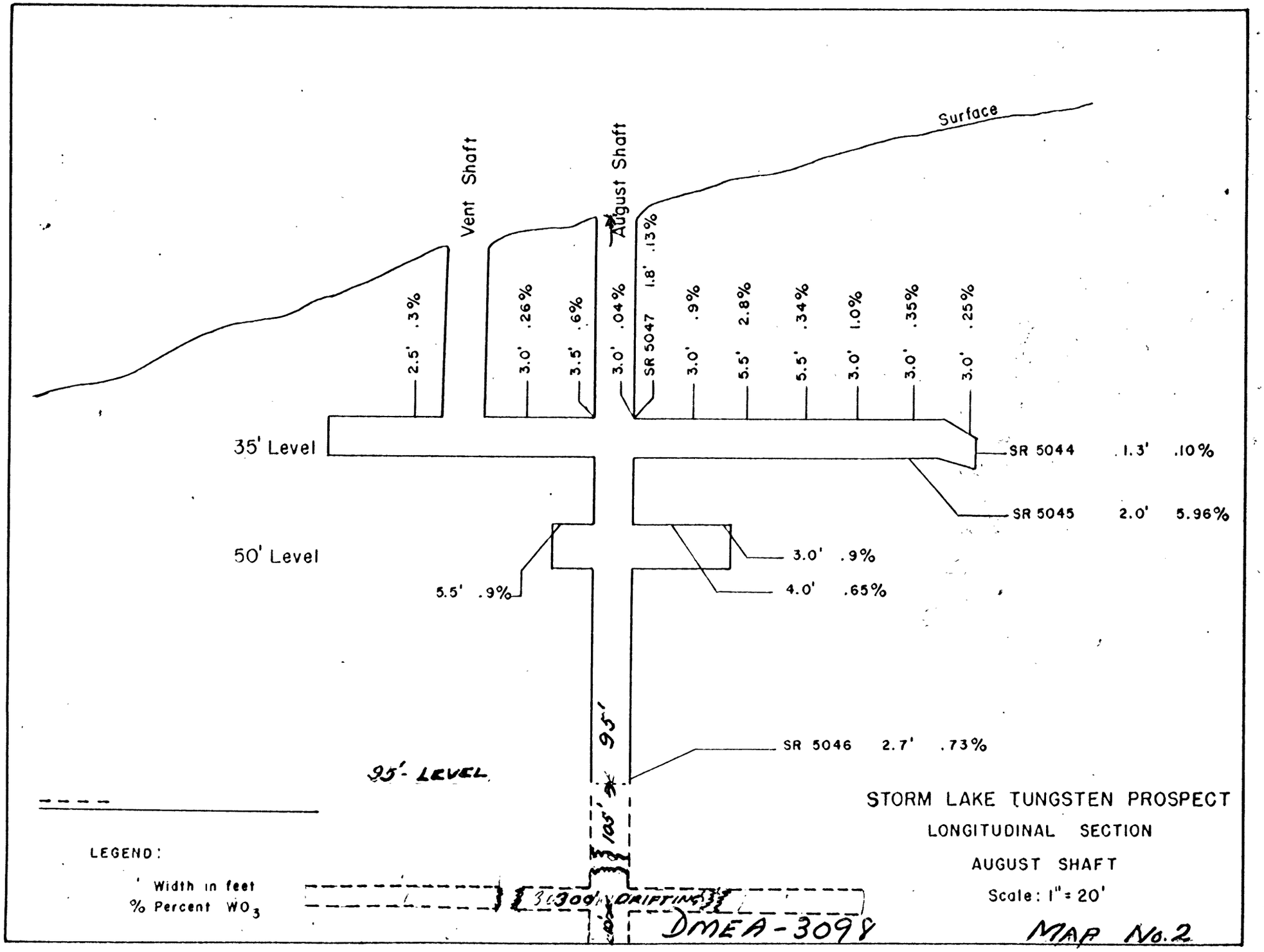


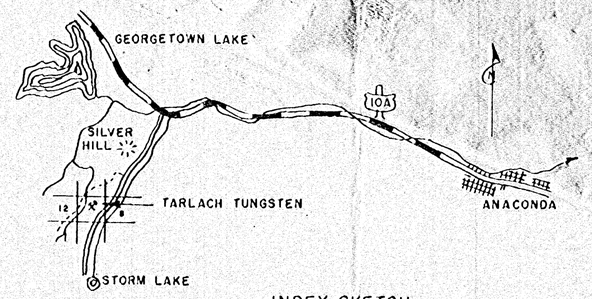
Operators Samples

Sample No	Width	Copper	Cobalt	Silver
1	3 ft	0.09%	–	3.7 oz
2	6	13.1	–	1.6
3	1½	21.6	–	2.1
4	2½	4.9	–	0.5
5	3½		0.73%	
6	1½		1.15	
7	2½		0.11	
8	1½	0.1	0.03	
9	1	0.0	0.67	
10	2	0.61	0.51	
11	6	–	0.06	
19	3ft	0.85	0.44	0.7
20	3	0.15	0.13	
21	2	0.10	0.13	
22	3½	0.10	0.264	
23	4	0.35	0.13	
24	3	0.08	0.16	
25	1 Au 0.23	0.05	0.91	0.1
26	3	—	0.03	
27	4	Au trace		0.1
28	Au 0.28		2.67	
29	Au 0.27		1.72	
30	Au 0.20		0.32	
31	1.6 Au 0.05		0.39	
32	1.6		0.08	
33	4 Au 0.08		0.27	
34	4	11.4		2.9
35	3ft	11.5		1.7
36	4ft	10.4		
37	4ft	13.6		
38	8ft	6.1		
39	4ft	2.8		
41	28 in	0.0		
42	5 in	5.9		
47	8 in Au 0.23	0.10	1.38	

Bureau of Mines Samples

Sample No	Width	Copper	Cobalt	Silver	
DH1	5 ft	9.3%	0.01%	0.4oz	
DH2	1½	12.2	0.01	–	
DH3	1	1.3	0.01	0.2	
VJ10	3	0.18	0.38		
VJ 18	2½	0.2	1.13		
VJ 19	1½	0.1	0.04		
VJ21	4½ft	0.06	0.08		
VJ22	3	0.66	0.13		
VJ23	2	015	0.58		
VJ24	3	7.64	0.02		
VJ25	2½ft	0.06	0.26		
VJ26	1	13.2	0.02		
VJ28	4ft	0.12	0.02		
VJ29	2	7.0	0.02		
VJ30	3	4.67	0.02		
VJ31	2	0.08	0.57		
VJ32	1½	3.48	0.02	0.52	0.02 Au
VJ33	1½	5.29	0.02	0.80	0.01Au
VJ34	1	0.03	0.02	0.01	0.01Au
VJ35	6-in	14.8	0.02	1.90	0.06Au
VJ36	2ft	1.77	0.02	1.32	0.01Au
VJ37	2ft	3.24	0.02	0.82	0.01Au
VJ38	1½ft	2.62	0.02	1.40	0.01Au
VJ4	3ft	0.05	0.07		
VJ5	1ft	6.45	0.09		

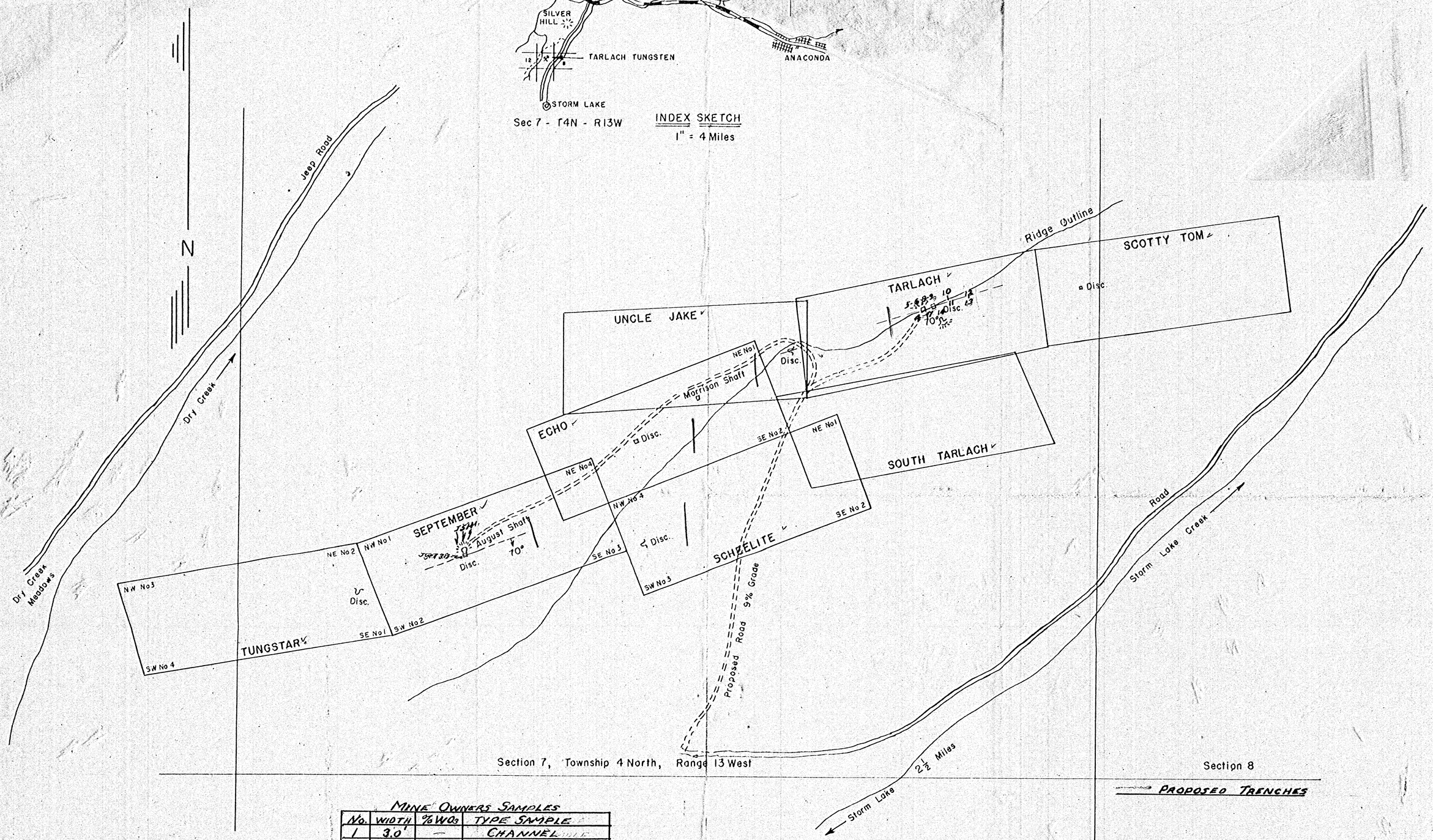

Surface
Vent Shaft
August Shaft
2.5' .3%
3.0' .26%
3.5' .6%
3.0' .04%
SR 5047 1.8' .13%
3.0' .9%
5.5' 2.8%
5.5' .34%
3.0' 1.0%
3.0' .35%
3.0' .25%
35' Level
SR 5044 1.3' .10%
SR 5045 2.0' 5.96%
50' Level
5.5' .9%
3.0' .9%
4.0' .65%
95'
SR 5046 2.7' .73%
95' LEVEL
105'
300' DRIFTING
LEGEND:
' Width in feet
% Percent WO_3
STORM LAKE TUNGSTEN PROSPECT
LONGITUDINAL SECTION
AUGUST SHAFT
Scale: 1" = 20'
DMEA-3098
MAP No. 2



Sec 7 - T4N - R13W

INDEX SKETCH

1" = 4 Miles



MINE OWNERS SAMPLES

No.	WIDTH	% WO_3	TYPE SAMPLE
1	3.0'	—	CHANNEL
2	4.4'	—	"
3	5.0'	0.80	"
4	3.0'	0.60	"
5	2.6'	1.40	"
6	8.0	0.40	"
7	4.0'	0.02	"
8	6.0'	0.05	"
9	8.0'	1.10	"
10	2.0'	2.80	"
11	0.5'	5.70	"
12	7.0'	0.02	"
13		5.30	DUMP SAMPLE
14	0.93% Cu 3.9 oz Ag 6.4% WO_3 SELECT		

U.S BUREAU OF MINES SAMPLES

No.	WIDTH	% WO_3	Oz. Ag	Oz. Au	% Cu	% Mo
JWT 313	1'	0.92	2.50	—	0.08	
JSM-1	DUMP	0.36	1.52	—	—	0.37
JSM-2	"	0.15	1.42	—	—	0.26
JSM-3	"	0.79	0.26	—	—	0.56

MAP No. 1

CLAIM MAP

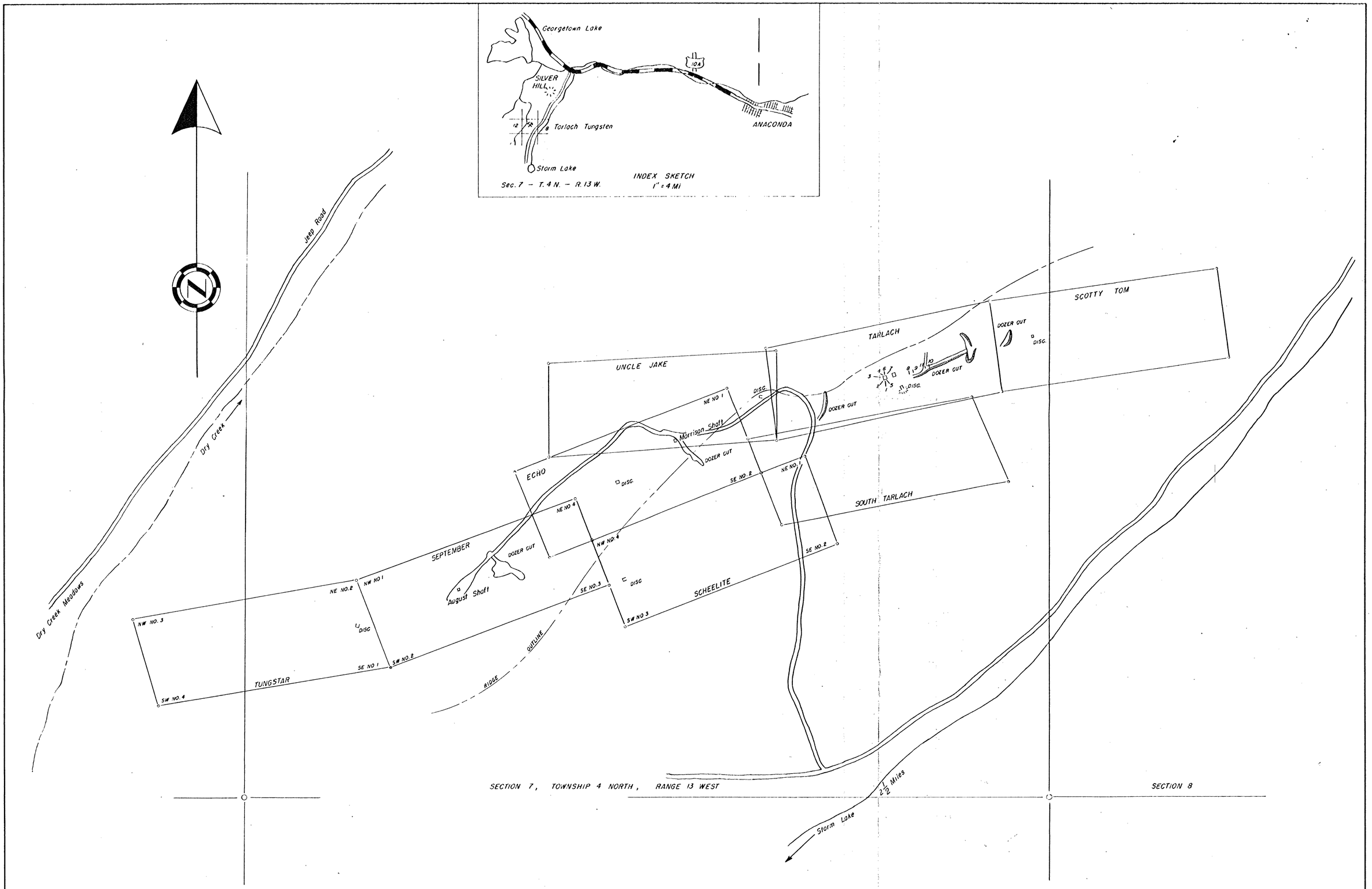
STORM LAKE TUNGSTEN PROSPECT

DEER LODGE COUNTY, MONTANA

SCALE: 1" = 400'

Surveyed by: Elstone & Wallace
August 10, 1952

DMEA-3098



CLAIM MAP

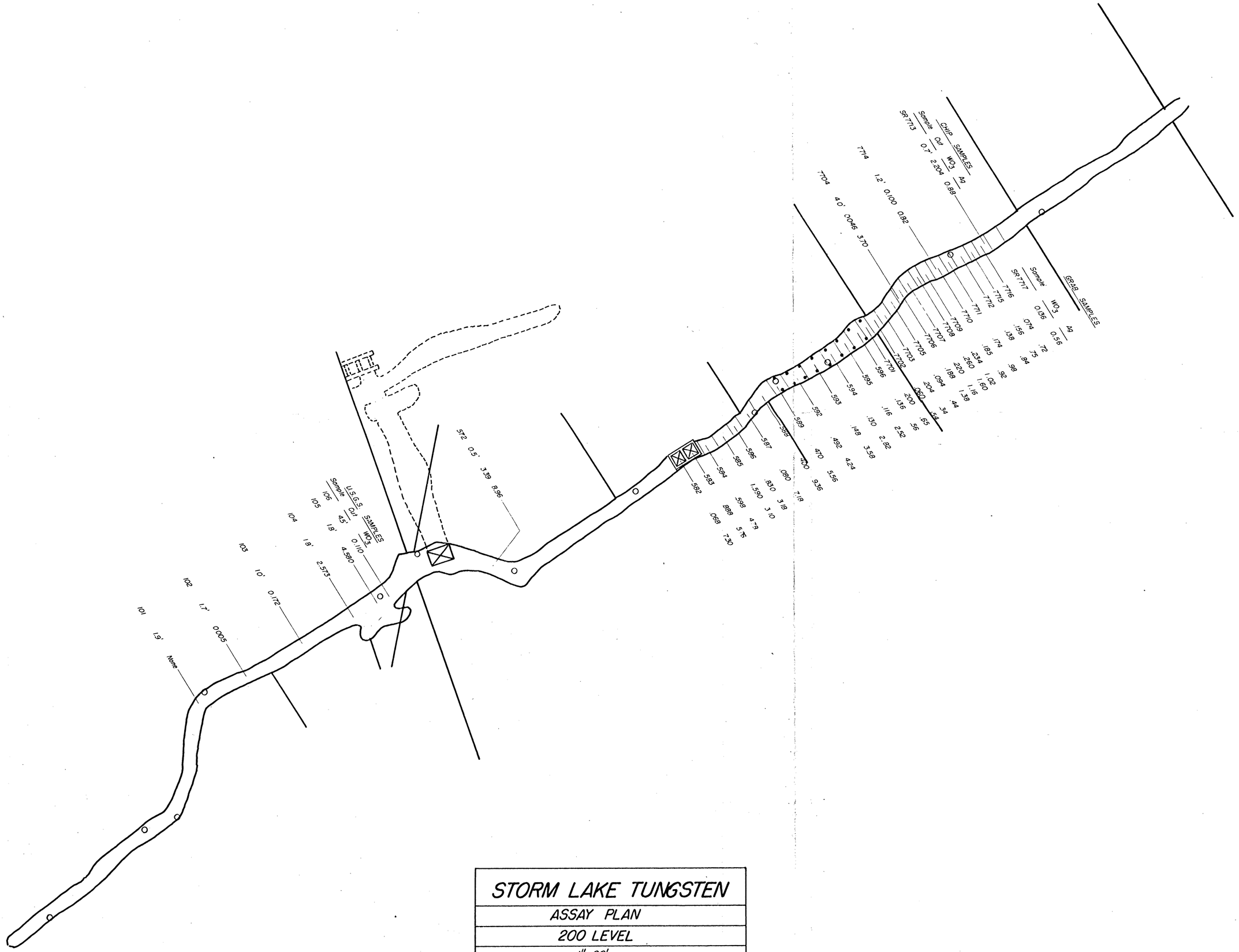
STORM LAKE TUNGSTEN PROSPECT

DEER LODGE COUNTY, MONTANA

SCALE : 1" = 400'

Surveyed by: Elstone & Wallace
August 10, 1952.

FIG. 1



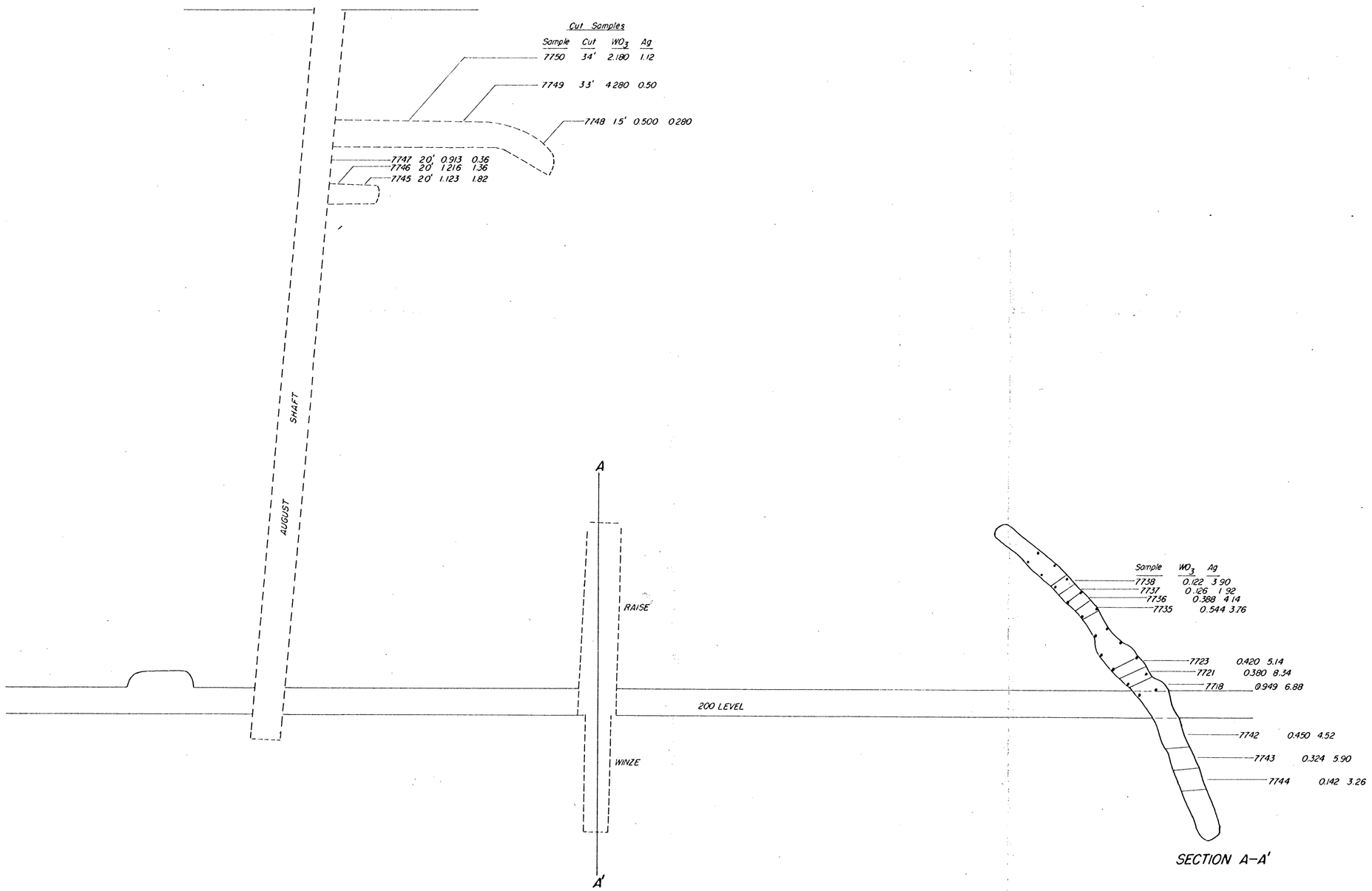
STORM LAKE TUNGSTEN

ASSAY PLAN

200 LEVEL

1" = 20'

FIG. 4

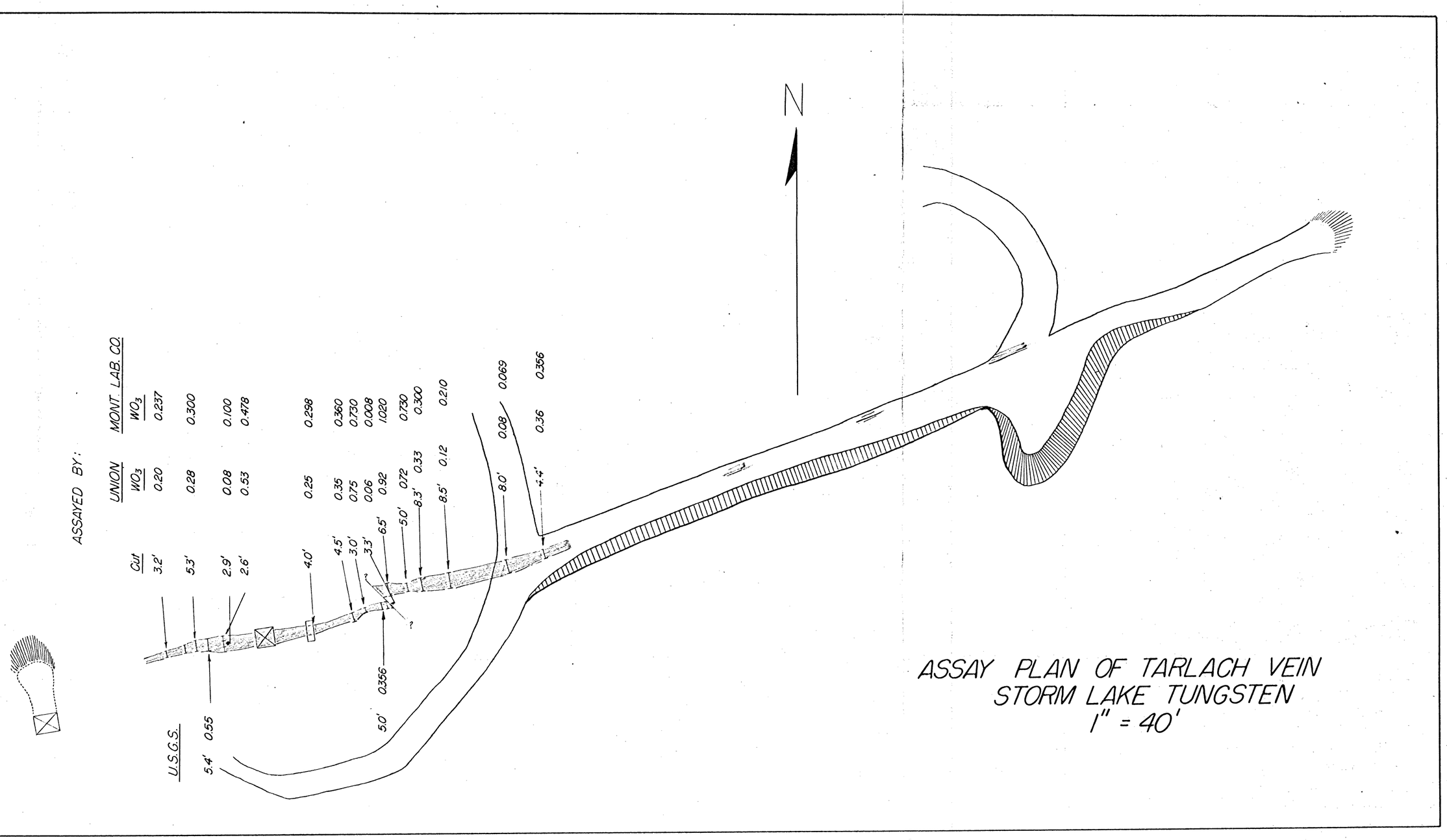


LONGITUDINAL SECTION

AUGUST SHAFT WORKINGS

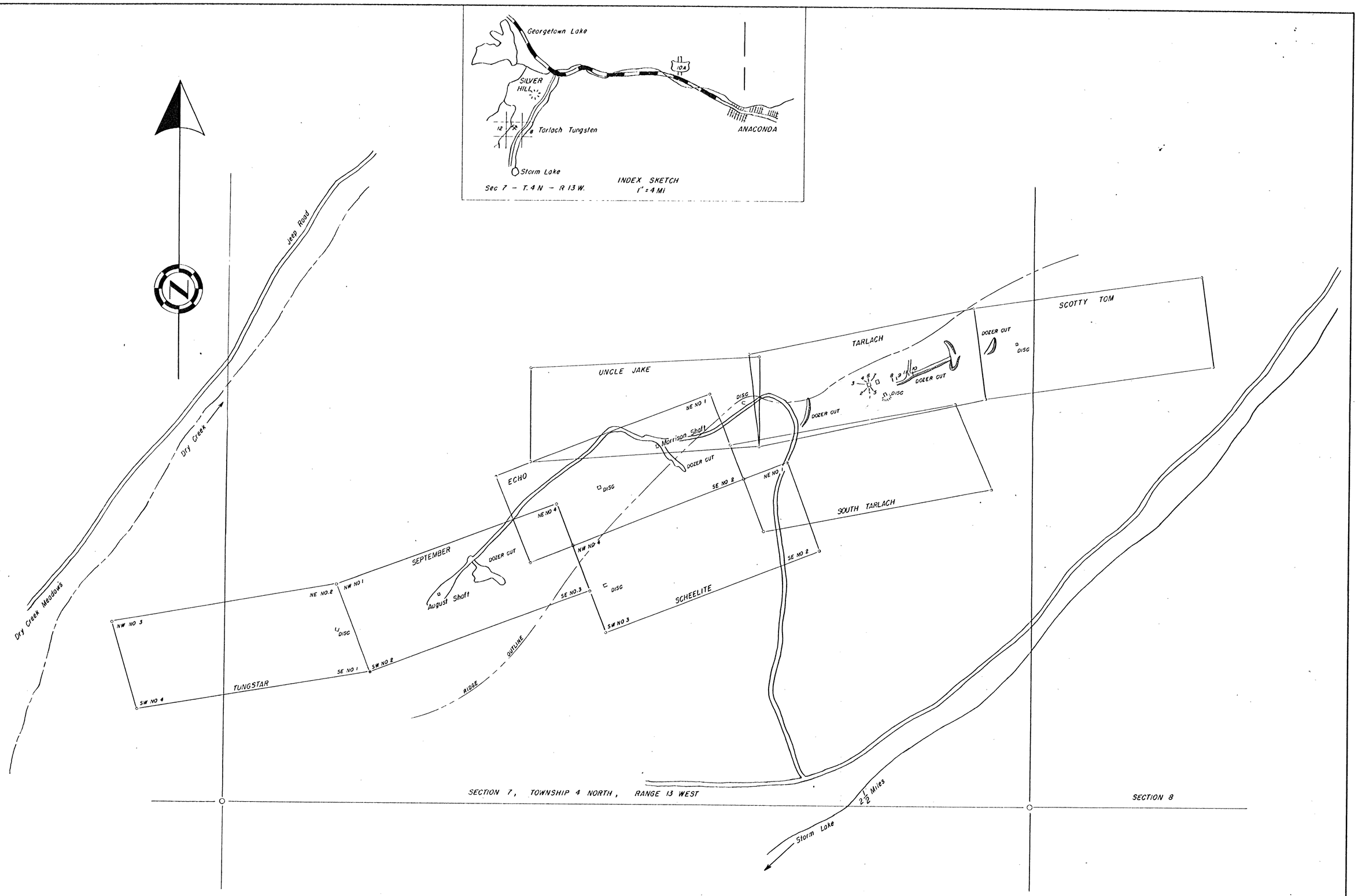
1"=20'

FIG. 6



ASSAY PLAN OF TARLACH VEIN
STORM LAKE TUNGSTEN
1" = 40'

FIG. 8



CLAIM MAP

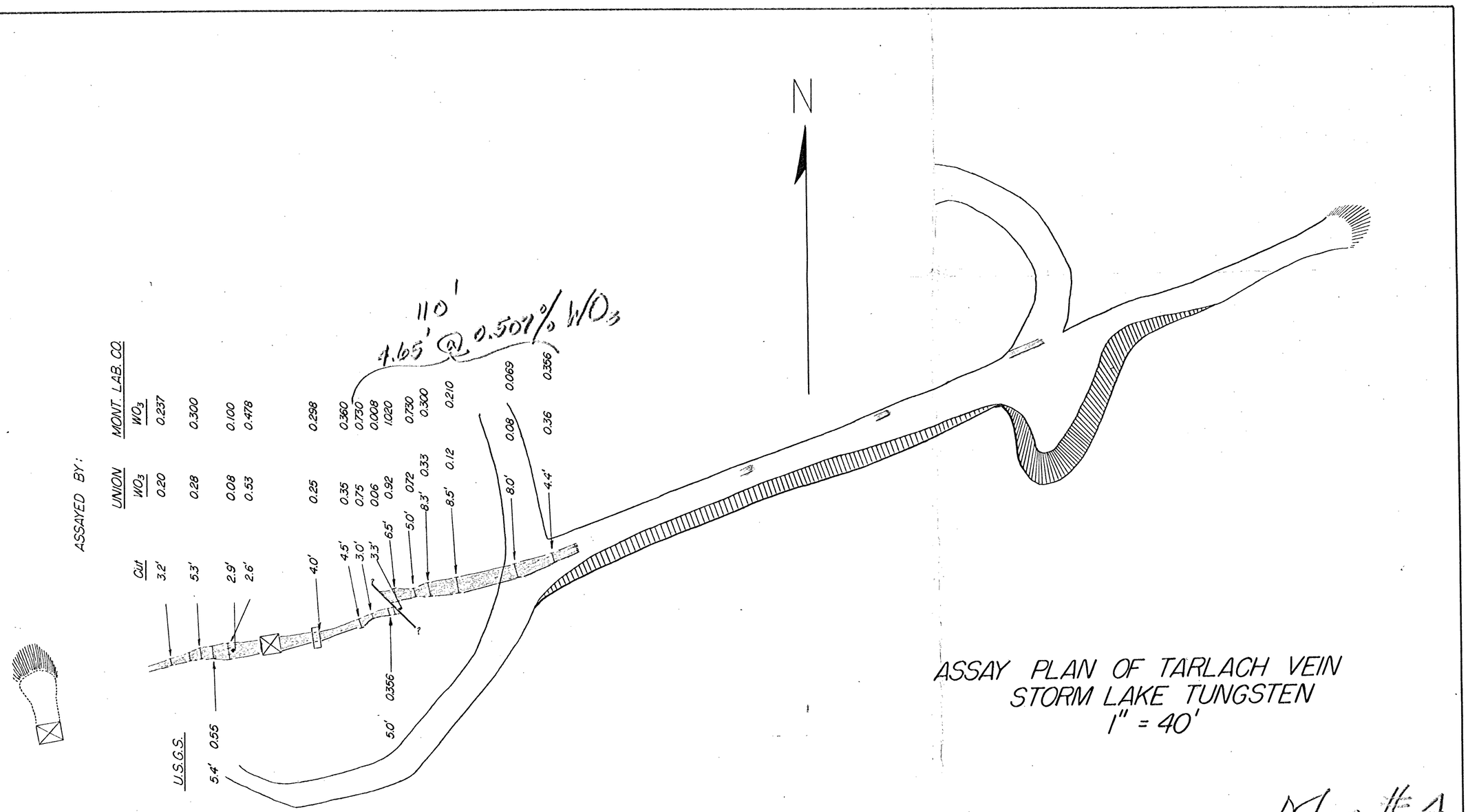
STORM LAKE TUNGSTEN PROSPECT

DEER LODGE COUNTY, MONTANA

SCALE : 1" = 400'

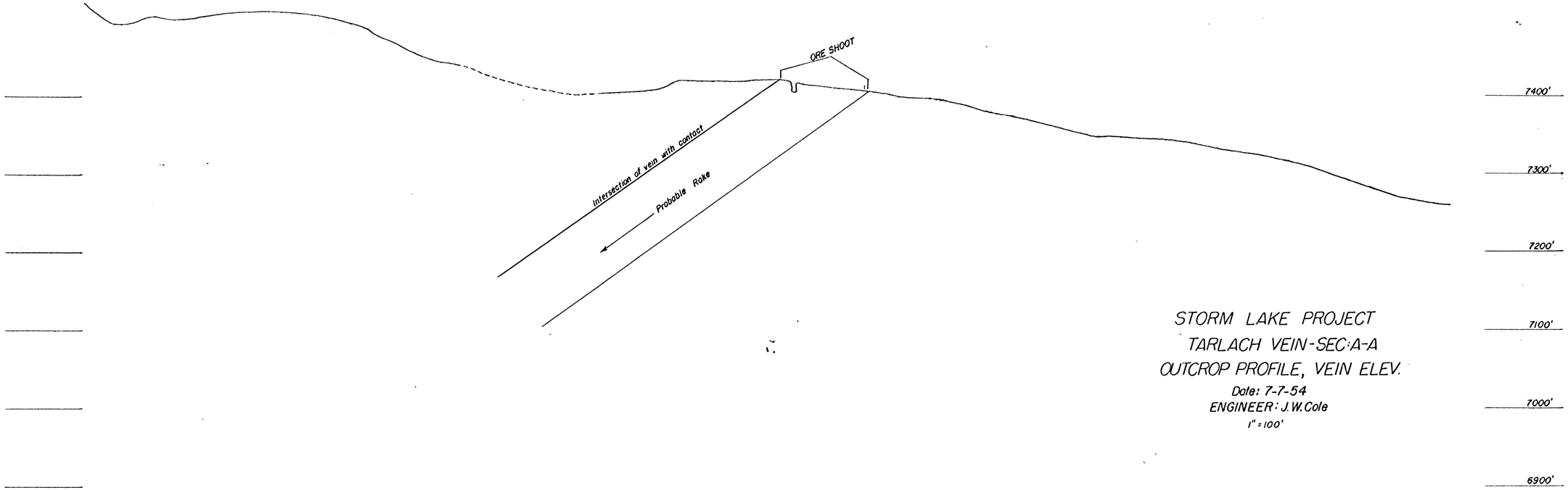
Surveyed by: Elstone & Wallace
August 10, 1952.

FIG. 1



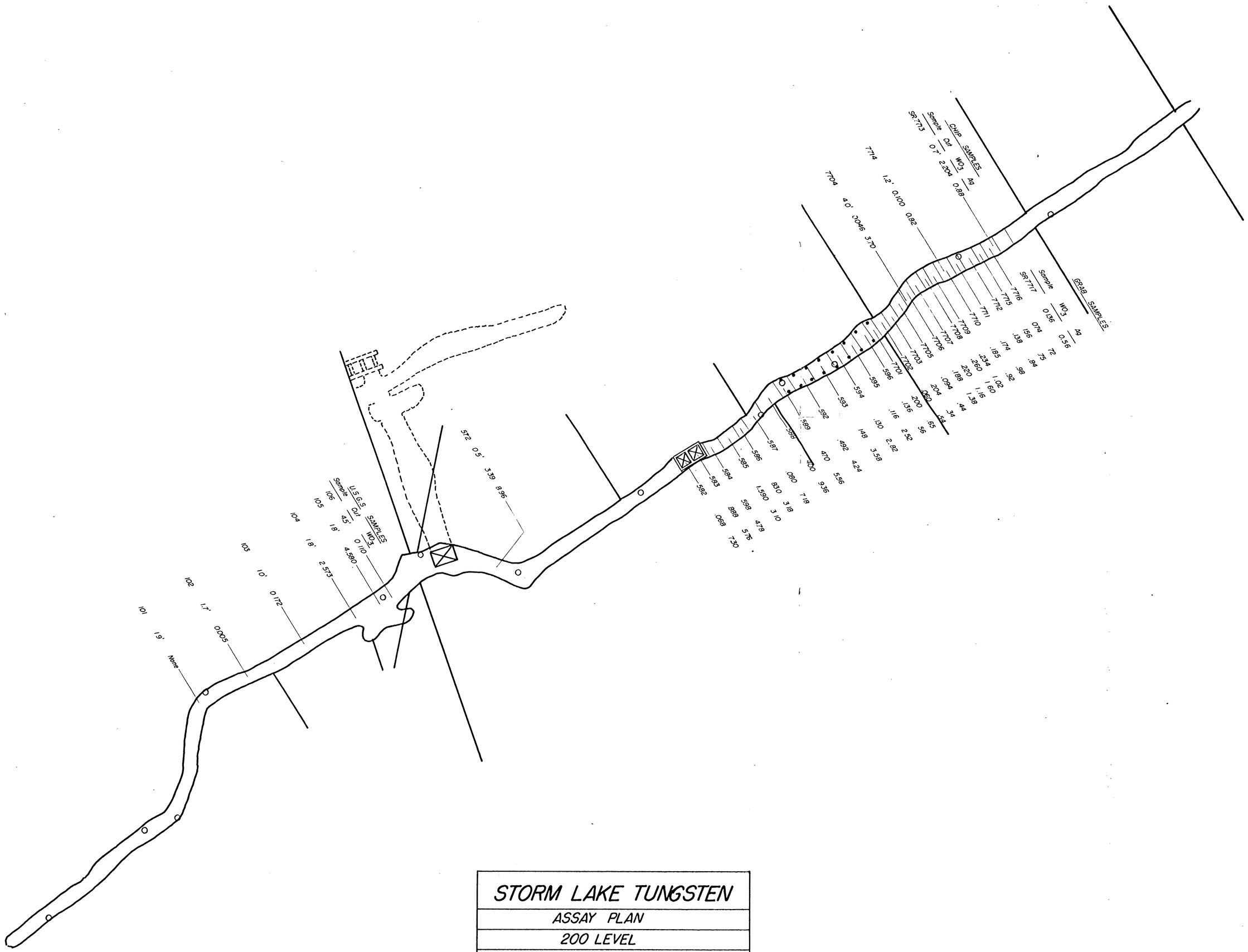
ASSAY PLAN OF TARLACH VEIN
STORM LAKE TUNGSTEN
1" = 40'

Map #4



STORM LAKE PROJECT
TARLACH VEIN-SEC:A-A
OUTCROP PROFILE, VEIN ELEV.
Date: 7-7-54
ENGINEER: J.W.Cole
1" = 100'

Map #5



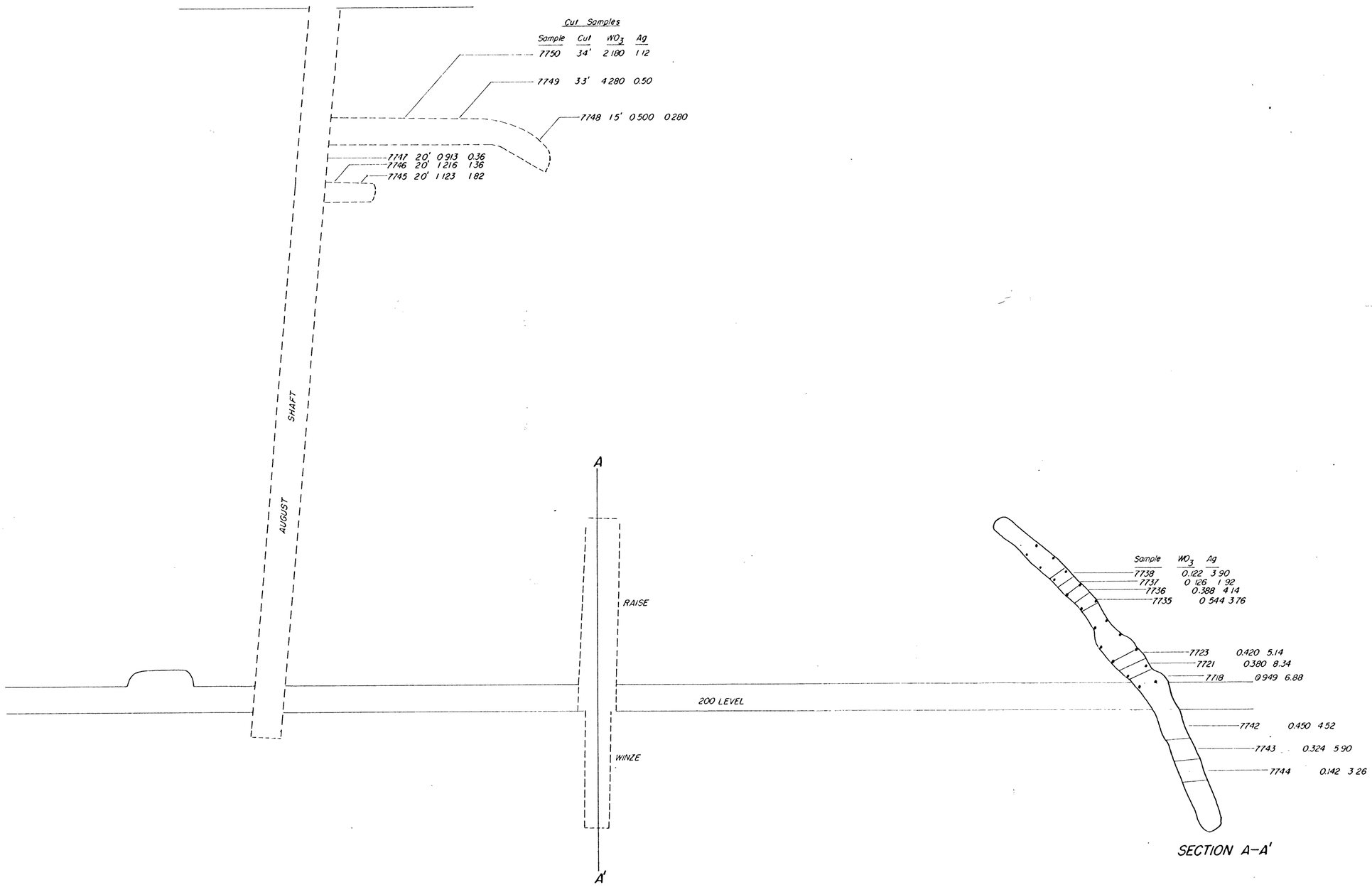
STORM LAKE TUNGSTEN

ASSAY PLAN

200 LEVEL

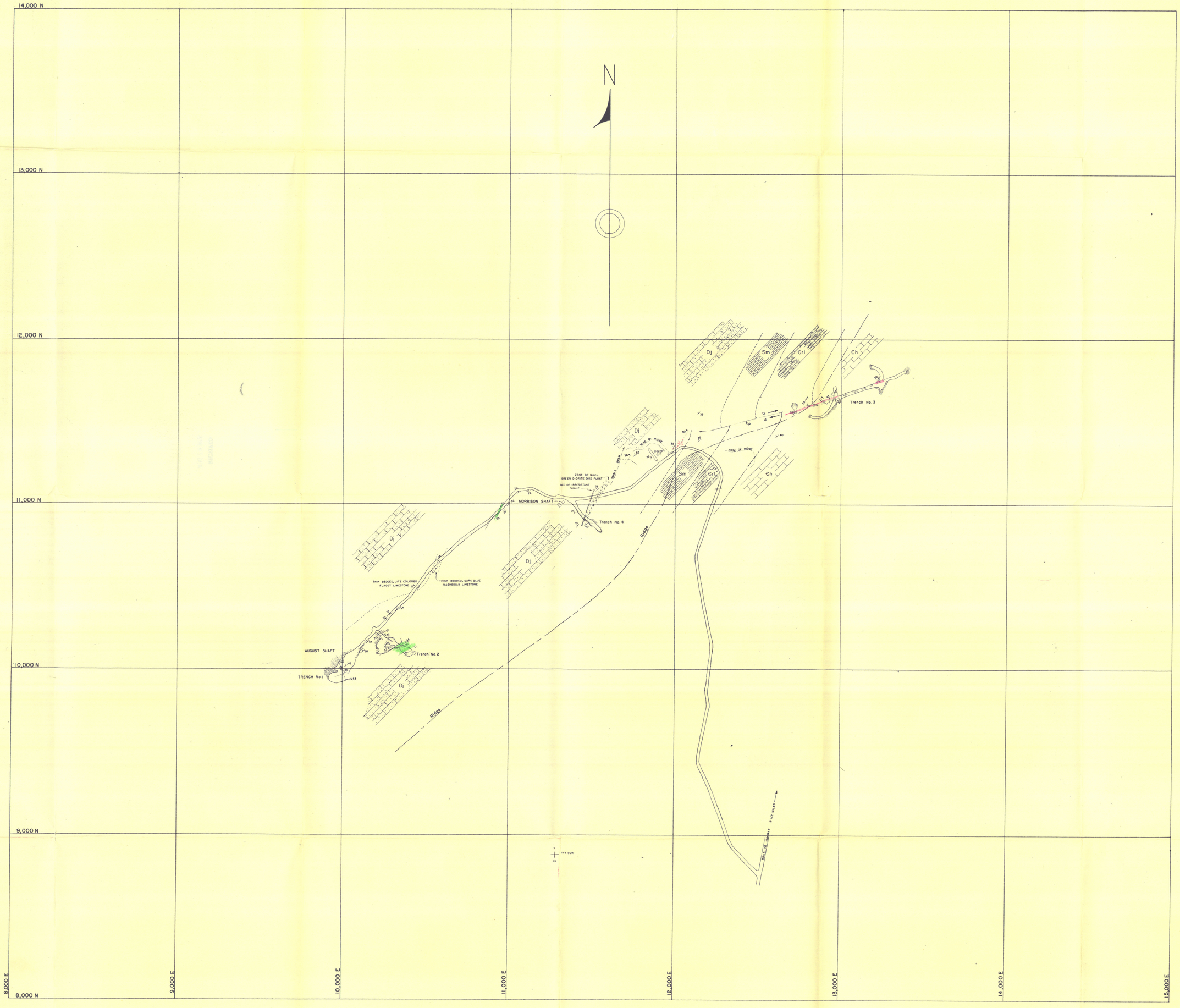
1" = 20'

FIG. 4



LONGITUDINAL SECTION
AUGUST SHAFT WORKINGS
1"=20'

FIG. 6



LEGEND

Dj — Devonian Jefferson
WHITE TO BLACK MAGNESIAN LIMESTONE WITH LITTLE CHERT FOSSILS - INCONSPICUOUS

Sm — Silurian Maywood
RED, GRAY, & DRAB SHALES & FLAGGY LIMESTONES, CALCAREOUS SANDSTONE NEAR BASE

Crl — Cambrian Red Lion
MAINLY LIMESTONE WITH CLOSELY SPACED THIN SILICEOUS LAMINAE CALCAREOUS SHALE AT BASE

Ch — Cambrian Hasmark
WHITE MAGNESIAN LIMESTONE IN UPPER PART. DARK CALCAREOUS SHALE LOCALLY WANTING IN MIDDLE. PALE GRAY MAGNESIAN LIMESTONE IN LOWER PART.

BASIC DIORITE DIKE

TUNGSTEN CARRYING LIME

QUARTZ-SCHEELITE VEIN

YELLOW-BROWN-OXIDIZED VEIN

FAULT

CONTACT

RIDGE LINE

BEDDING

SHEARING

STORM LAKE TUNGSTEN

DEER LODGE NATIONAL FOREST
GRANITE COUNTY
PHILIPSBURG, MONTANA
SCALE : 1" = 200'

FIG. 2

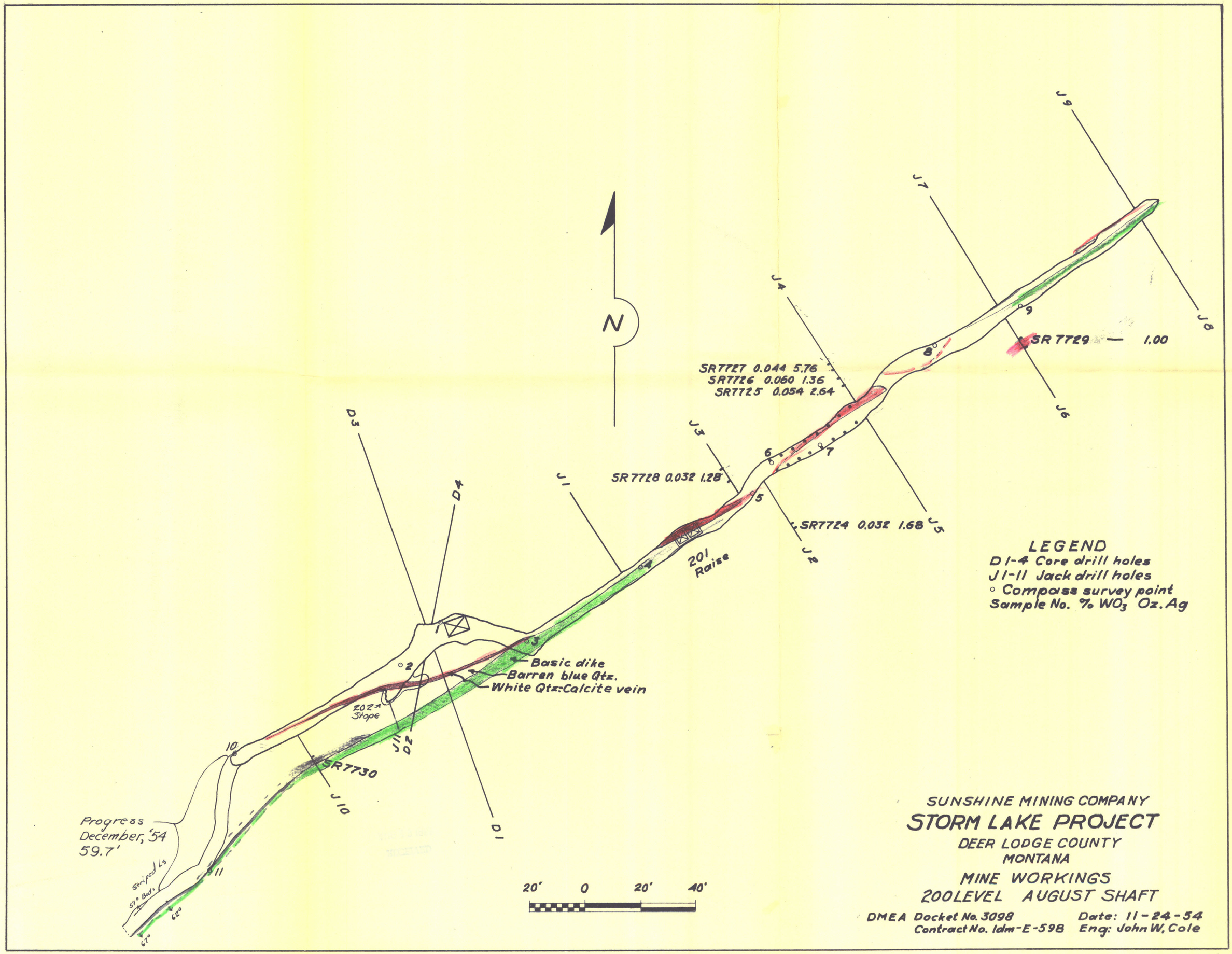
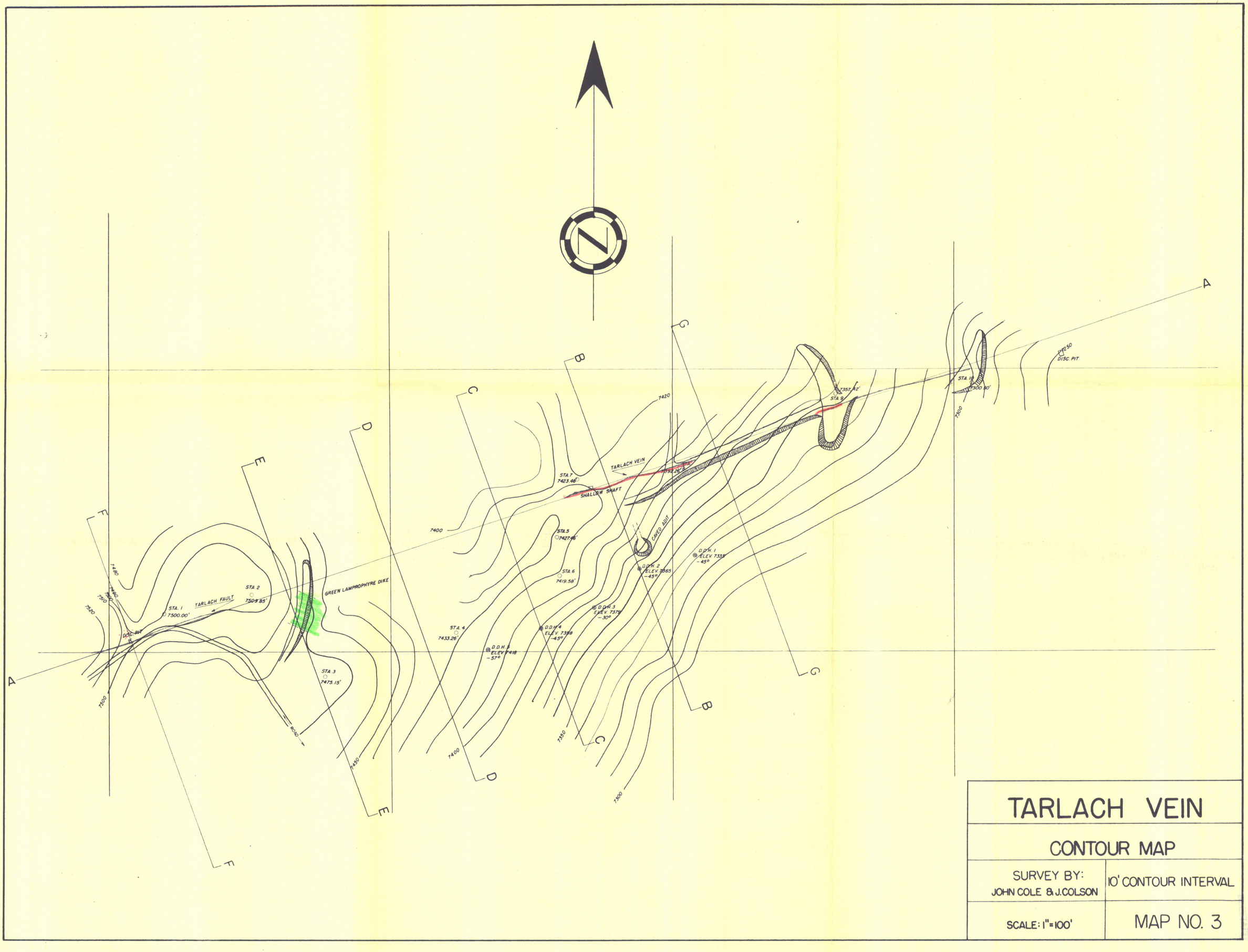
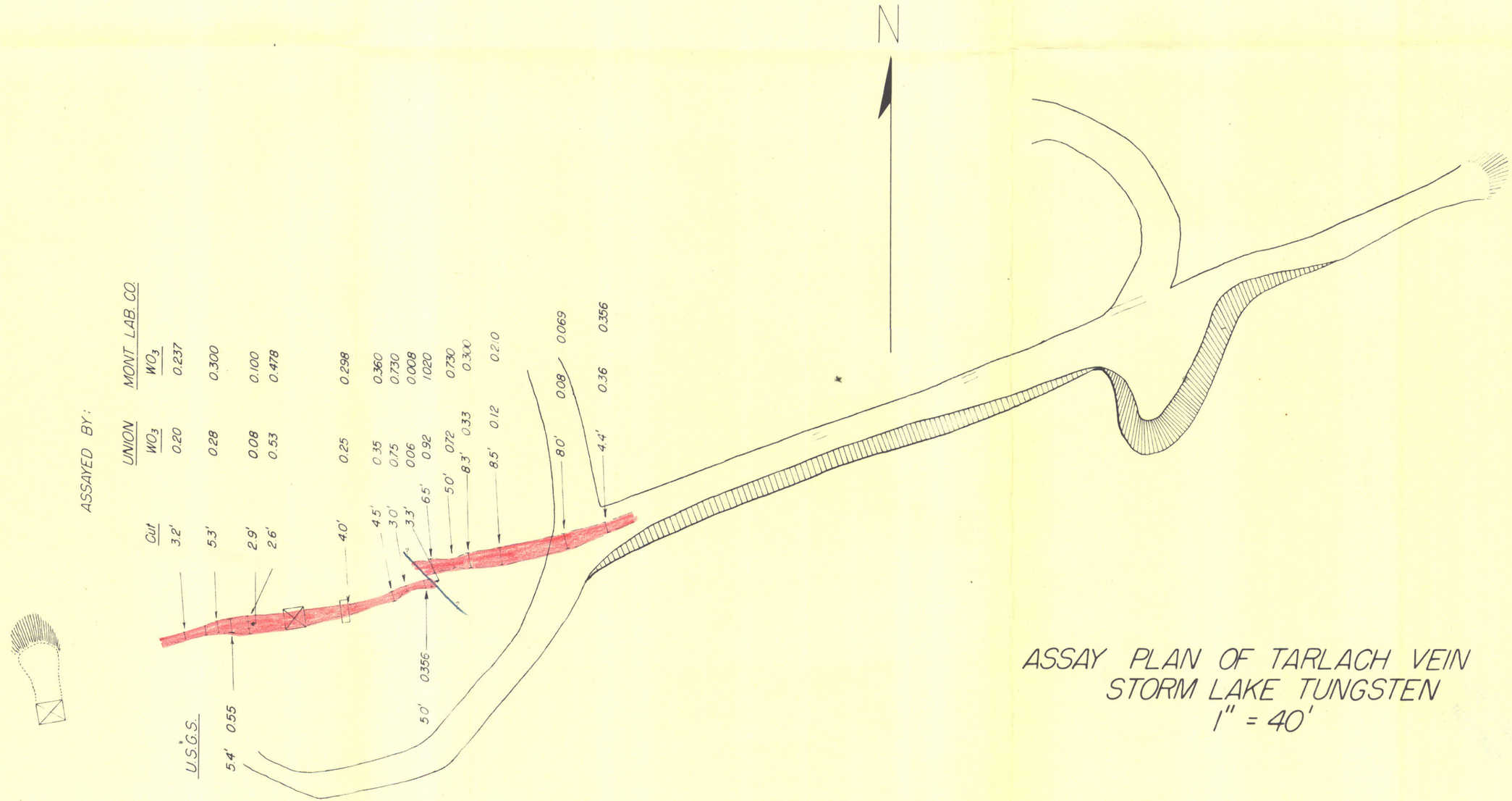

N
J9
J7
J8
J4
J6
J3
J5
J1
J2
D3
D4
D1
D2
J10
J11
SR7729 — 1.00
SR7727 0.044 5.76
SR7726 0.060 1.36
SR7725 0.054 2.64
SR7728 0.032 1.28
SR7724 0.032 1.68
201 Raise
202 Stope
SR7730
Basic dike
Barren blue Qtz.
White Qtz.-Calcite vein
Progress December, '54 59.7'
Striped Ls
51° Beds
62°
67°
20' 0 20' 40'
LEGEND
D 1-4 Core drill holes
J 1-11 Jack drill holes
○ Compass survey point
Sample No. % WO_3 Oz. Ag
SUNSHINE MINING COMPANY
STORM LAKE PROJECT
DEER LODGE COUNTY
MONTANA
MINE WORKINGS
200 LEVEL AUGUST SHAFT
DMEA Docket No. 3098
Contract No. Idm-E-598
Date: 11-24-54
Eng: John W. Cole

FIG. 3



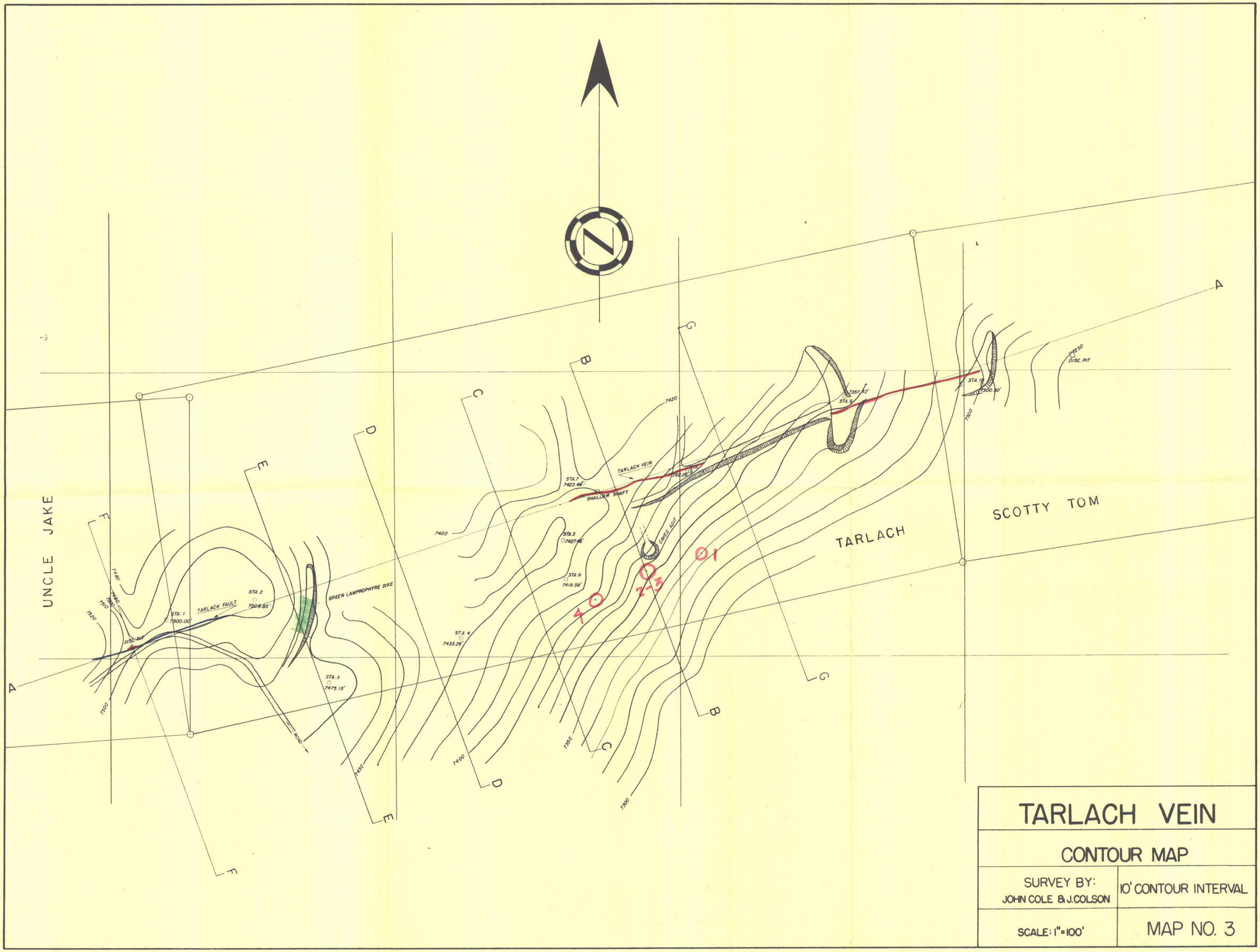
TARLACH VEIN	
CONTOUR MAP	
SURVEY BY: JOHN COLE & J. COLSON	10' CONTOUR INTERVAL
SCALE: 1" = 100'	MAP NO. 3

FIG. 7



ASSAY PLAN OF TARLACH VEIN
STORM LAKE TUNGSTEN
1" = 40'

FIG. 8



TARLACH VEIN

CONTOUR MAP

SURVEY BY: JOHN COLE & J. COLSON	10' CONTOUR INTERVAL
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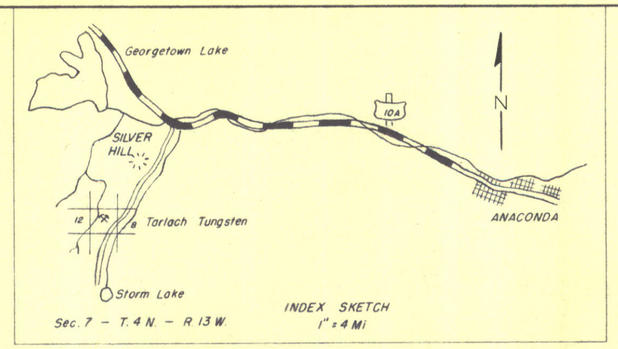
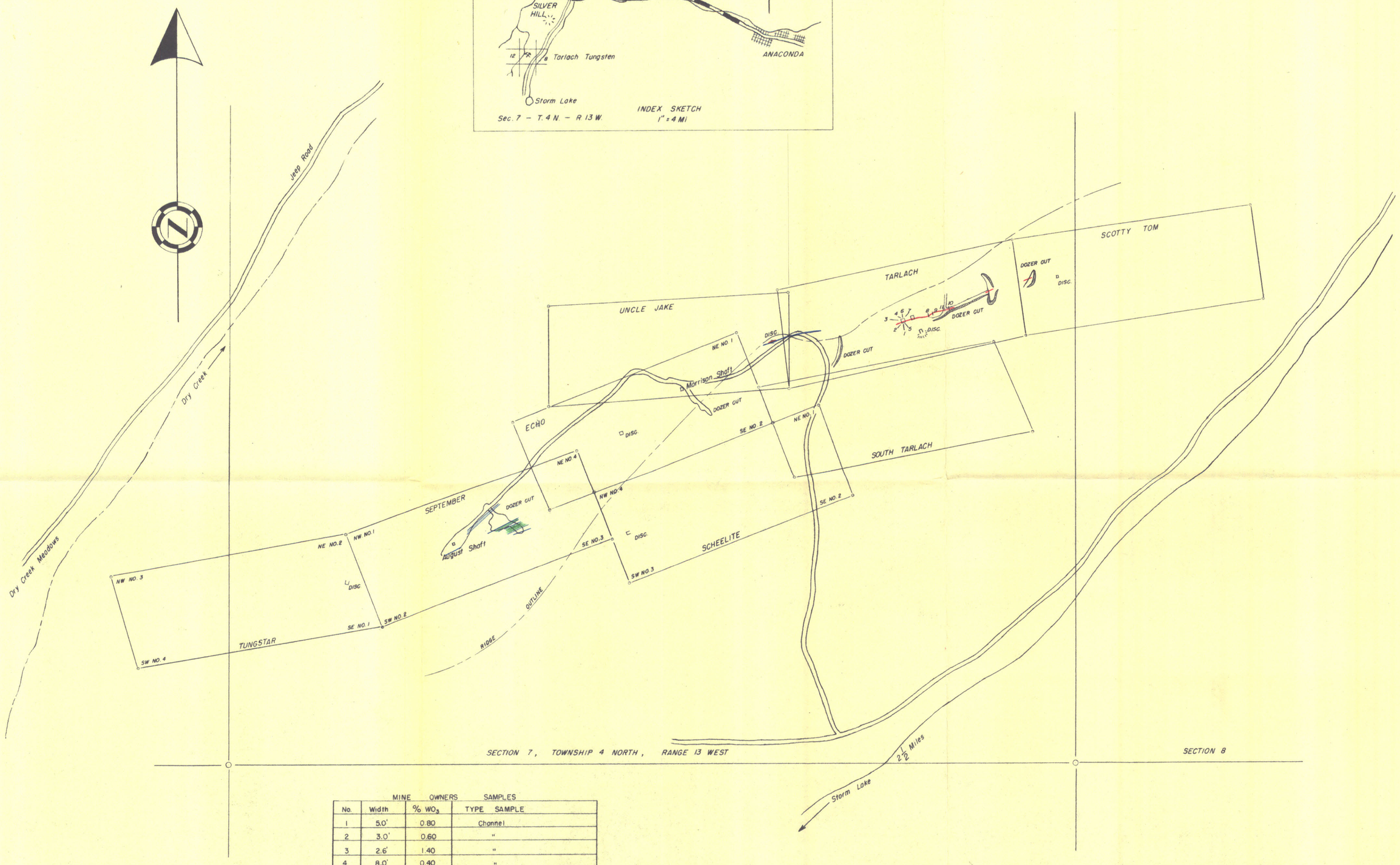




MINE OWNERS SAMPLES

No.	Width	% WO_3	TYPE SAMPLE
1	5.0'	0.80	Channel
2	3.0'	0.60	"
3	2.6'	1.40	"
4	8.0'	0.40	"
5	4.0'	0.02	"
6	6.0'	0.05	"
7	8.0'	1.10	"
8	2.0'	2.80	"
9	0.5'	5.70	"
10	7.0'	0.02	"
11		5.30	DUMP SAMPLE
12	0.93 % Cu.	9.9oz. Ag	6.4 % WO_3 (Select)

CLAIM MAP

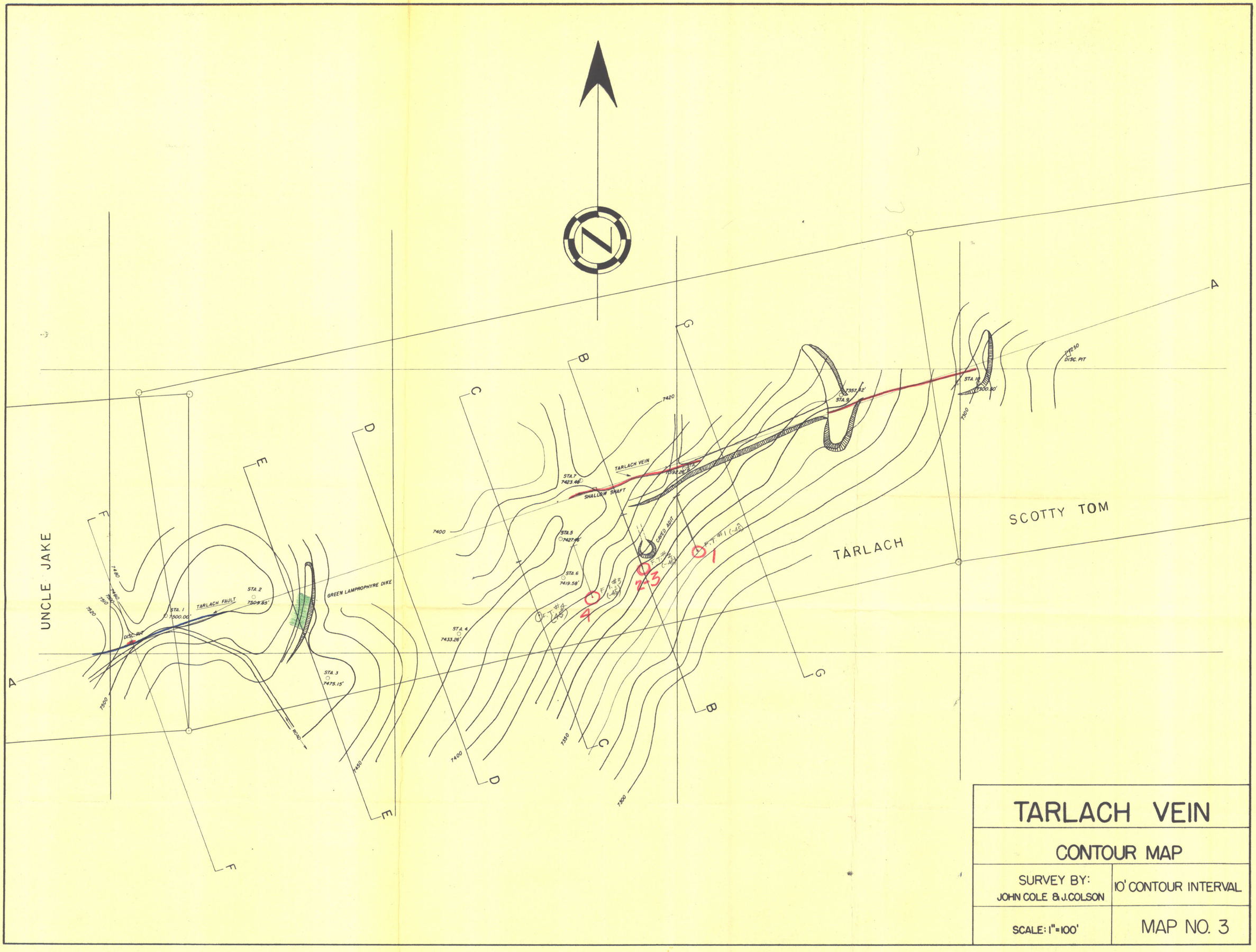
STORM LAKE TUNGSTEN PROSPECT

DEER LODGE COUNTY, MONTANA

SCALE : 1" = 400'

Surveyed by: Elstone & Wallace
August 10, 1952.

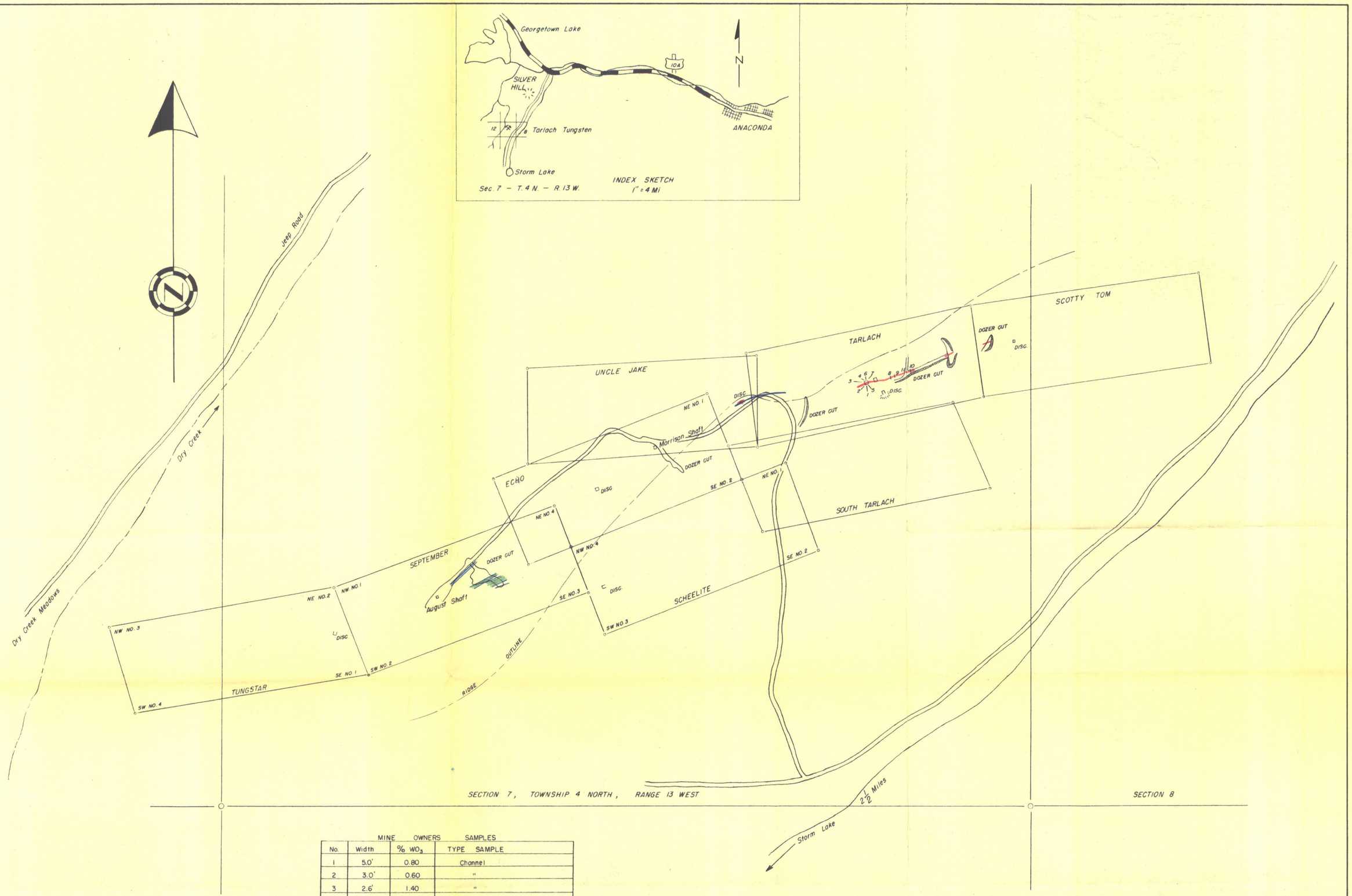
Map #6



TARLACH VEIN

CONTOUR MAP

SURVEY BY: JOHN COLE & J. COLSON	10' CONTOUR INTERVAL
SCALE: 1" = 100'	MAP NO. 3



MINE OWNERS SAMPLES

No.	Width	% WO_3	TYPE SAMPLE
1	5.0'	0.80	Channel
2	3.0'	0.60	"
3	2.6'	1.40	"
4	8.0'	0.40	"
5	4.0'	0.02	"
6	6.0'	0.05	"
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CLAIM MAP

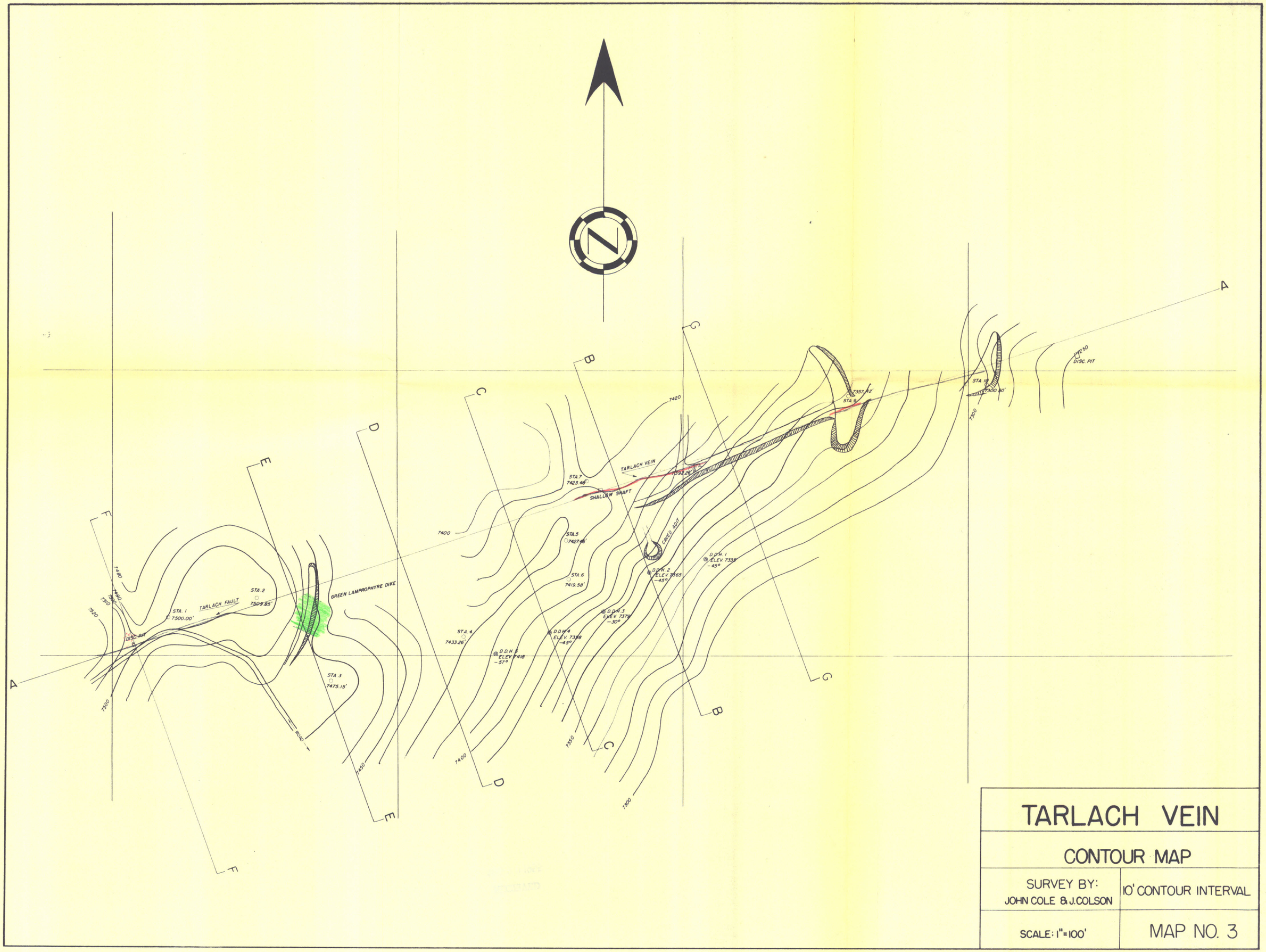
STORM LAKE TUNGSTEN PROSPECT

DEER LODGE COUNTY, MONTANA

SCALE : 1" = 400'

Surveyed by: Elstone & Wallace
August 10, 1952.

Map #6



TARLACH VEIN

CONTOUR MAP

SURVEY BY: JOHN COLE & J.COLSON	10' CONTOUR INTERVAL
SCALE: 1"=100'	MAP NO. 3

FIG. 7

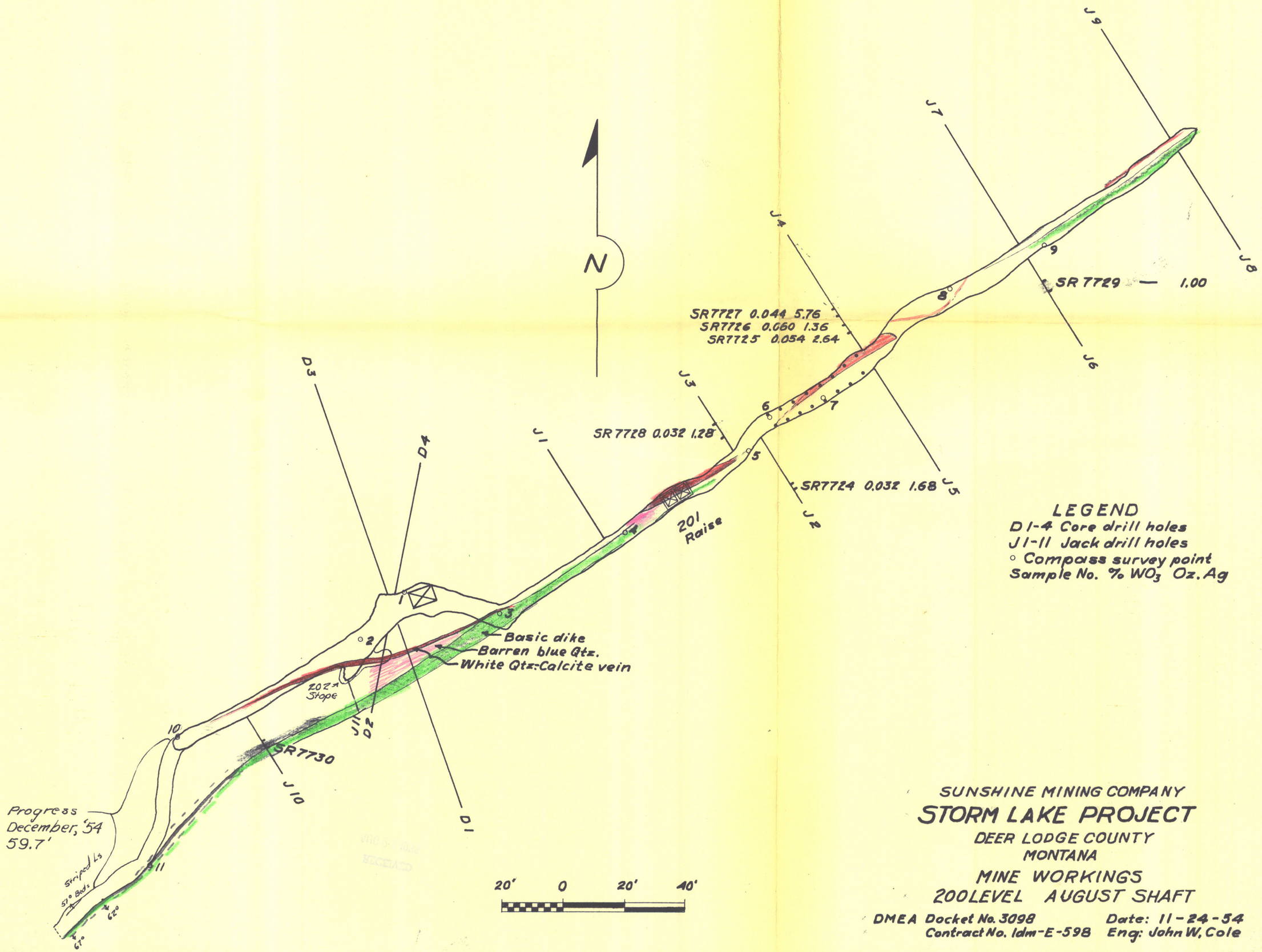

N
J9
J7
J8
J4
J6
J3
J5
J1
J2
D3
D4
D1
D2
J11
J10
SR7729 — 1.00
SR7727 0.044 5.76
SR7726 0.060 1.36
SR7725 0.054 2.64
SR7728 0.032 1.28
SR7724 0.032 1.68
201 Raise
Basic dike
Barren blue Qtz.
White Qtz-Calcite vein
202 Stope
SR7730
Progress December, '54 59.7'
Striped Ls
51° Beds
62°
67°
20' 0 20' 40'
LEGEND
D 1-4 Core drill holes
J 1-11 Jack drill holes
○ Compass survey point
Sample No. % WO_3 Oz. Ag
SUNSHINE MINING COMPANY
STORM LAKE PROJECT
DEER LODGE COUNTY
MONTANA
MINE WORKINGS
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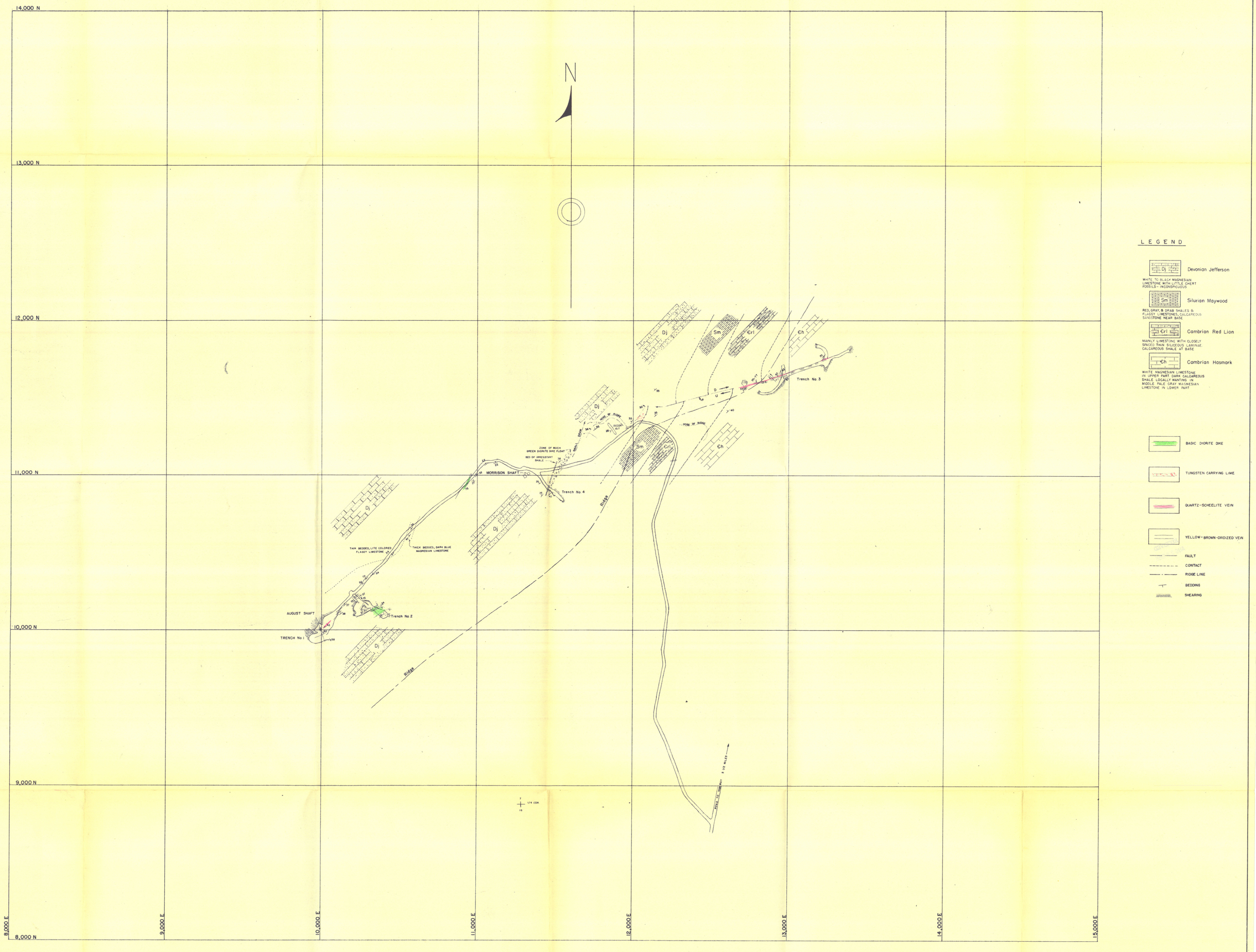
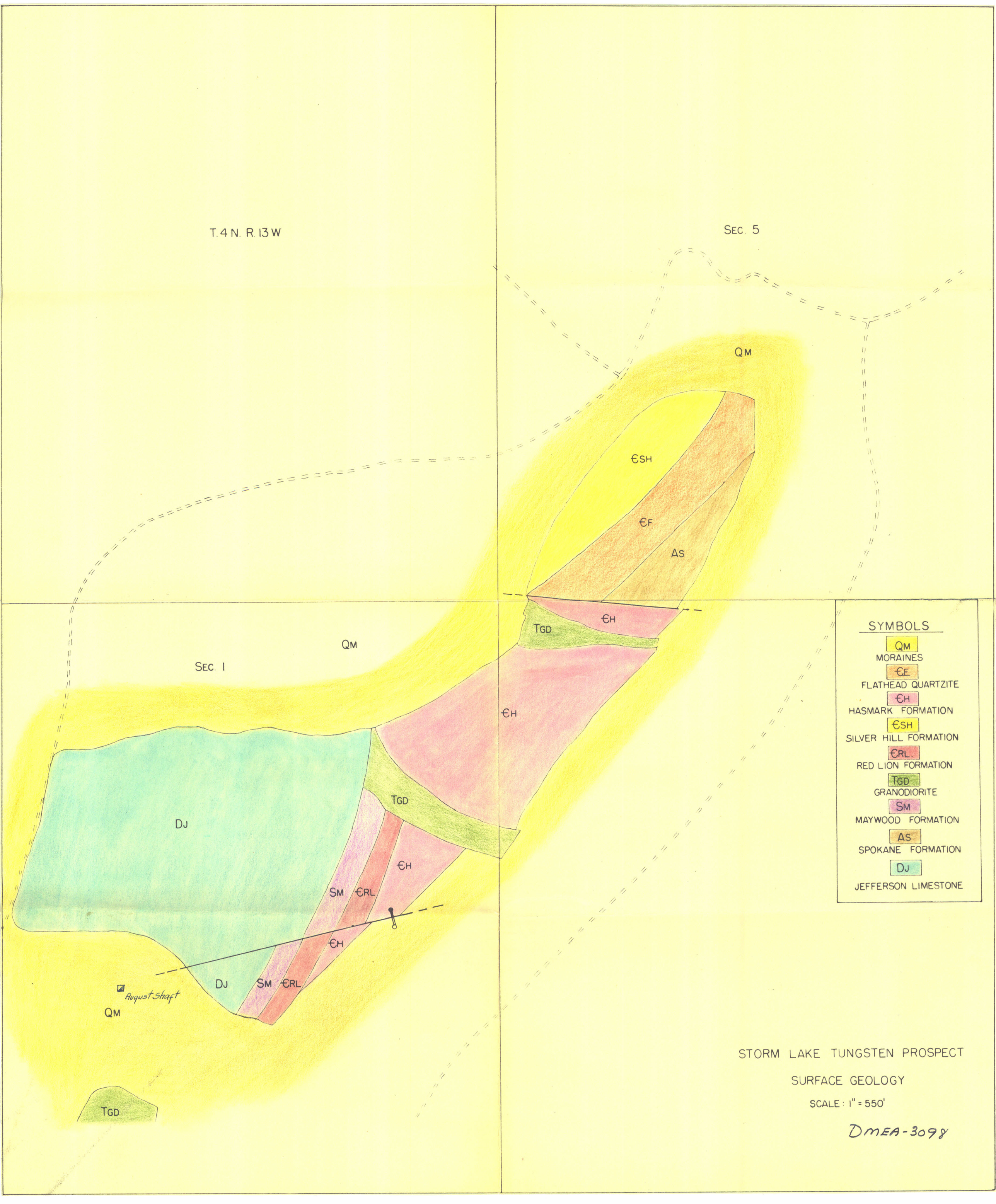
FIG. 3



STORM LAKE TUNGSTEN

DEER LODGE NATIONAL FOREST
GRANITE COUNTY
PHILIPSBURG, MONTANA
SCALE: 1" = 200'

FIG. 2

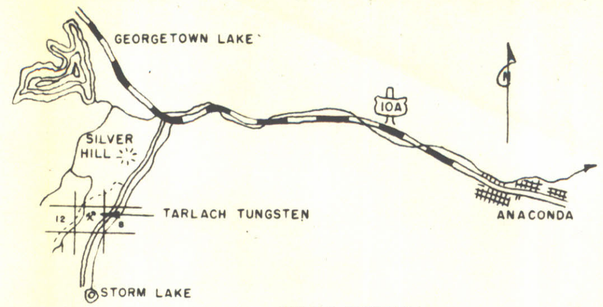


STORM LAKE TUNGSTEN PROSPECT

SURFACE GEOLOGY

SCALE: 1" = 550'

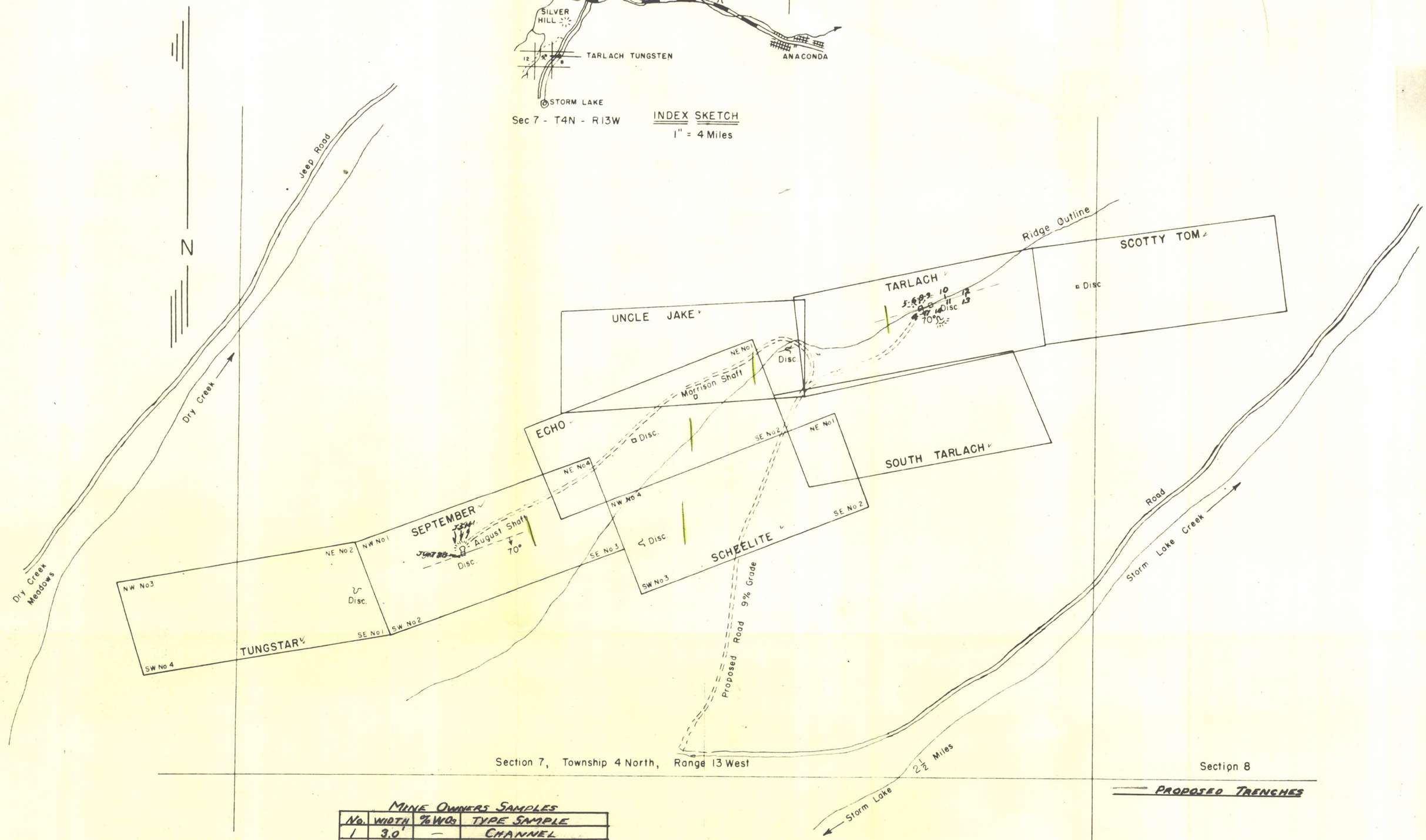
DMEA-3098



Sec 7 - T4N - R13W

INDEX SKETCH

1" = 4 Miles



MINE OWNERS SAMPLES

No.	WIDTH	% WO_3	TYPE SAMPLE
1	3.0'	—	CHANNEL
2	4.4'	—	"
3	5.0'	0.80	"
4	3.0'	0.60	"
5	2.6'	1.40	"
6	8.0	0.40	"
7	4.0'	0.02	"
8	6.0'	0.05	"
9	8.0'	1.10	"
10	2.0'	2.80	"
11	0.5'	5.70	"
12	7.0'	0.02	"
13		5.30	DUMP SAMPLE
14	0.93% Cu 9.90z Ag 6.4% WO_3 SELECT		

U.S BUREAU OF MINES SAMPLES

No.	WIDTH	% WO_3	Oz. Ag	Oz Au	% Cu	% Mo
JWT3B	1'	0.92	2.50	—	0.08	
JSM-1	DUMP	0.36	1.52	—	—	0.37
JSM-2	"	0.15	1.42	—	—	0.26
JSM-3	"	0.79	0.26	—	—	0.56

MAP No. 1

CLAIM MAP

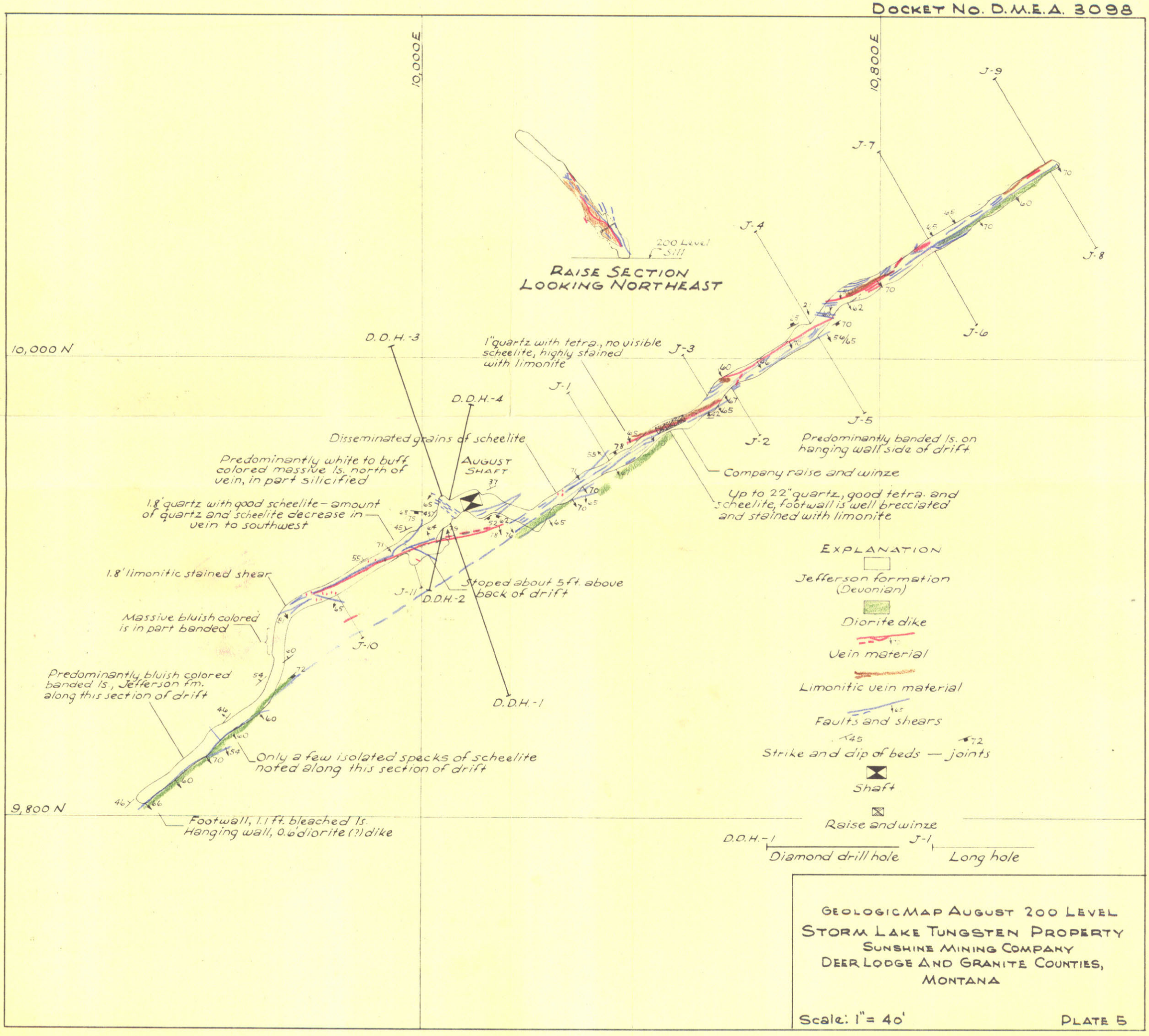
STORM LAKE TUNGSTEN PROSPECT

DEER LODGE COUNTY, MONTANA

SCALE: 1" = 400'

Surveyed by: Elstone & Wallace
August 10, 1952

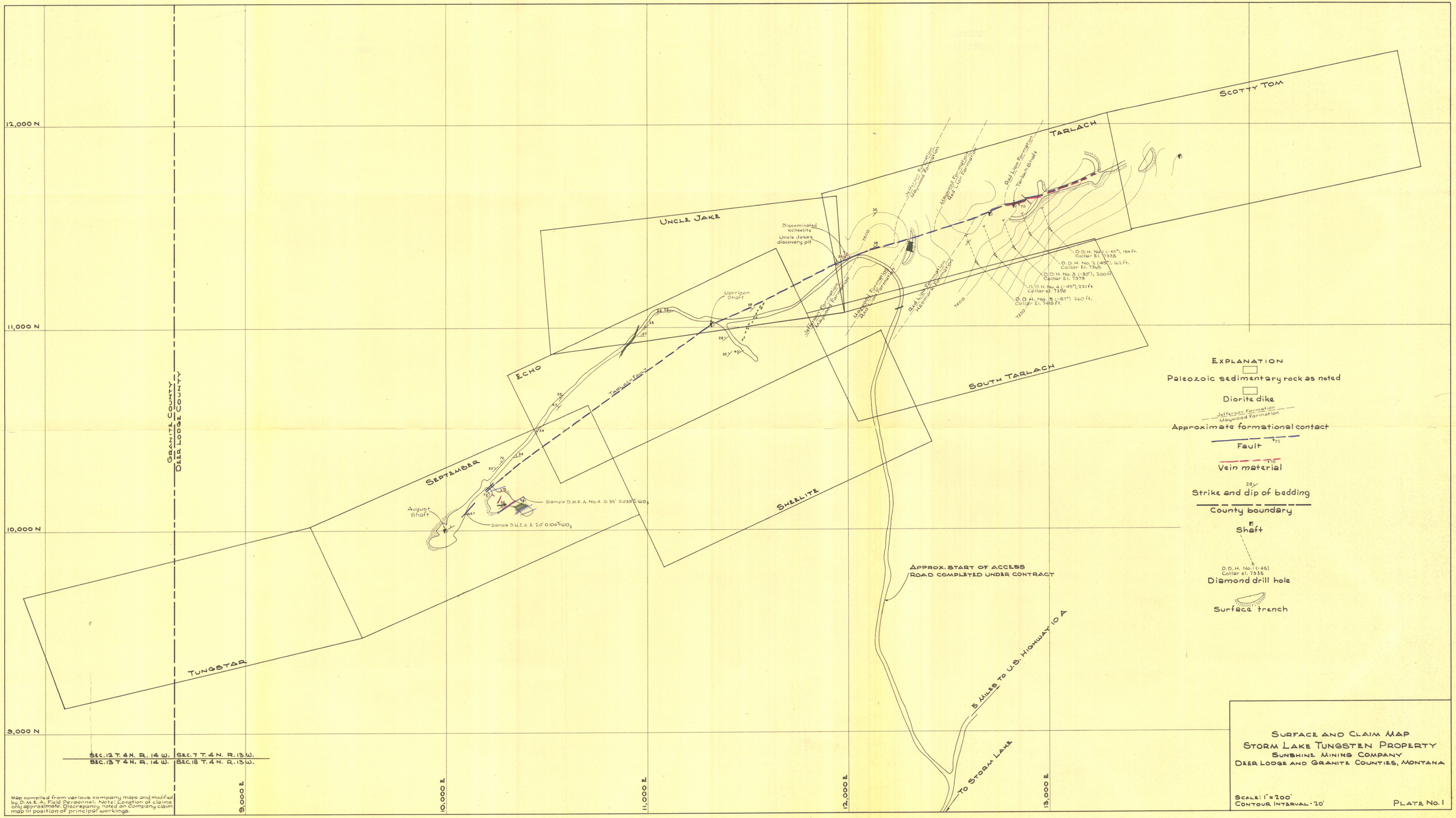
DMEA-3098



GEOLOGIC MAP AUGUST 200 LEVEL
STORM LAKE TUNGSTEN PROPERTY
SUNSHINE MINING COMPANY
DEER LODGE AND GRANITE COUNTIES, MONTANA

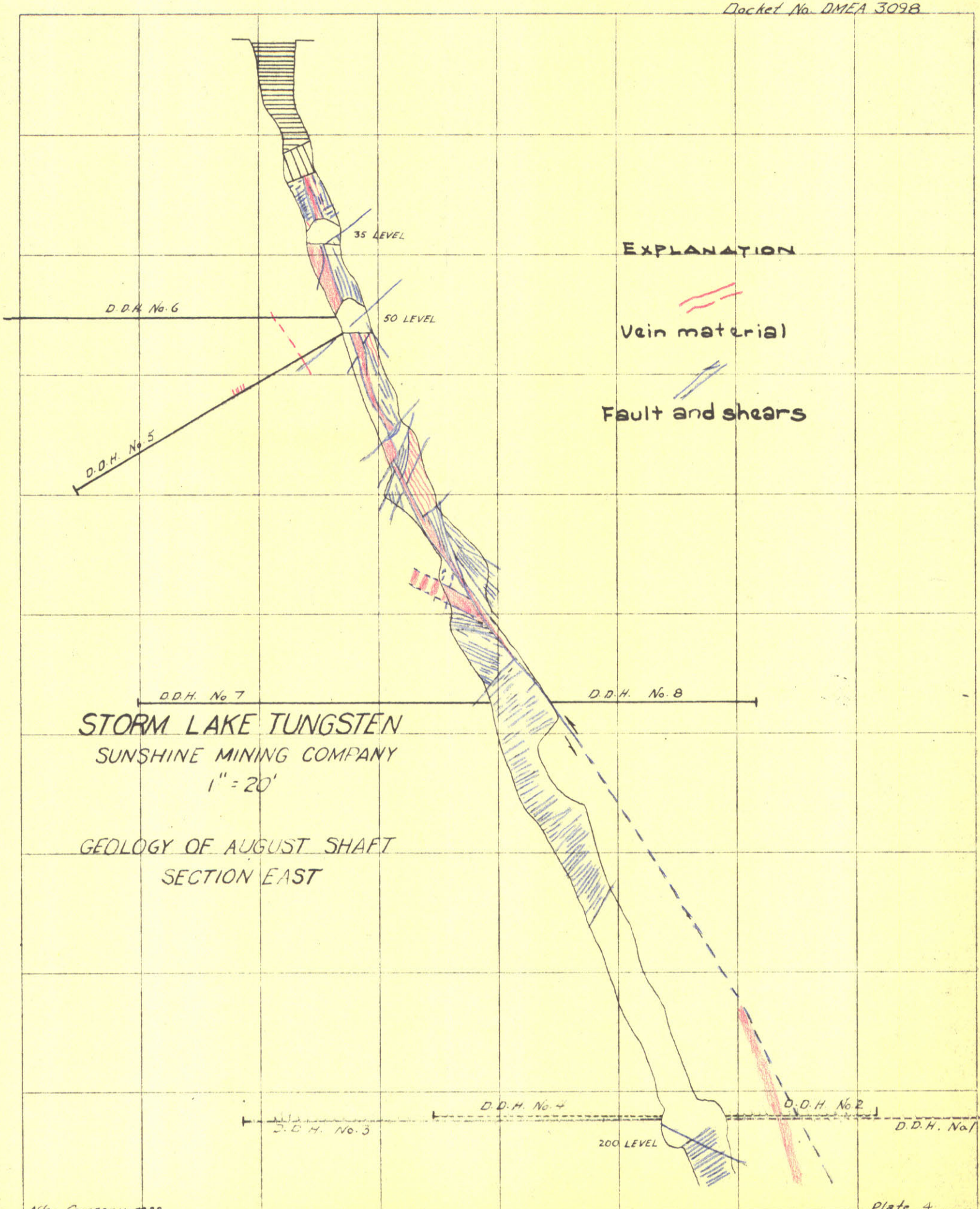
Scale: 1" = 40'

PLATE 5



Map compiled from various company maps and modified by D.M.E.A. Field Personnel. Note: Location of claims only approximate. Discrepancy noted on Company claim map in position of principal workings.

Docket No. DMEA 3098



After Company map

Plate 4

"ALBANENE" No. 195M K&E CO., N.Y.
REG. U.S. PAT. OFF.