

41-72-21-14

K - Fording River 75(11)A

FORDING OPERATIONS
COMINCO LTD.

SUMMARY REPORT

1975 COAL RESERVE DEVELOPMENT PROGRAM

January 30th, 1976

By: A. C. Taplin, P. Eng.
Senior Mine Geologist, Fording Operations
&
P. M. Daignault
Mine Geologist, Fording Operations

OPERATOR: FORDING OPERATIONS
COMINCO LTD.

Coal License Owners & Numbers

CAN PAC MINERALS LTD: 314 - 364 incl., 419, 420;
507 - 511 incl., 536 - 538;
554 - 560
Total: 32,735 acres

FORDING COAL LTD: **GEOLOGICAL BRANCH**
801 - 804 incl., 943, 944, 964
ASSESSMENT
Total: 2,785 acres

N.T.S. 82 J 2W 17W

00 318

K - Fording River ~~75~~ 75(1)A

OPEN FILE

FORDING OPERATIONS
COMINCO LTD.

SUMMARY REPORT

1975 COAL RESERVE DEVELOPMENT PROGRAM

January 30th, 1976

By: A. C. Taplin, P. Eng.
Senior Mine Geologist, Fording Operations
&
P. M. Daignault
Mine Geologist, Fording Operations

OPERATOR: FORDING OPERATIONS
COMINCO LTD.

Coal License Owners & Numbers

CAN PAC MINERALS LTD: 314 - 364 incl., 419, 420;
507 - 511 incl., 536 - 538;
554 - 560
Total: 32,735 acres

FORDING COAL LTD: 801 - 804 incl., 943, 944, 964.
Total: 2,765 acres

N.T.S. 82 J 2W, J7W

TABLE OF CONTENTS

	<u>PAGE NO.</u>
I <u>INTRODUCTION</u>	
II <u>INDIVIDUAL AREA PROGRAMS & RESULTS</u>	
A <u>EAGLE MTN: K-4 PIT AREAS</u>	1
B <u>WEST FACE & SOUTHWEST EAGLE MT. - RESERVE BLOCKS</u>	2
	<u>3,4</u>
C <u>CENTRAL & NORTHERN EAGLE MTN.</u>	2
D <u>CLODE PIT & "NO NAME GULCH EXTENSION"</u>	3
E <u>TURNBULL MTN.</u>	3
F <u>GREENHILLS AREA</u>	4
G <u>MT. TUXFORD SURVEY CONTROL</u>	4
III <u>LIST OF ILLUSTRATION & APPENDICES</u>	5
A <u>MAPS & SECTIONS</u>	
B <u>APPENDICES - NOS. 1,2,3</u>	
IV <u>VALUATION OF WORK</u>	6
A <u>SUMMARIES</u>	
B <u>CAPITAL COST CODE LISTINGS</u>	

FORDING COAL OPERATIONS

SUMMARY REPORT

1975 EXPLORATION AND DEVELOPMENT PROGRAM

I INTRODUCTION

In 1975 an extensive Coal Reserve Development Program was undertaken in several potential mining areas within a two mile radius of the mine plant site. The majority of the work was to upgrade geological information in areas for which there is already a preliminary design. Total drilling was 52,338 ft. in 142 holes. The bulk of the drilling, with the exception of 6 HQ diameter core holes, was in 4 7/8 inch diameter rotary holes with centre-return sampling of the coal seams intersected. Coal analyses were done for all significant seam intersections at Fording's Process Plant Laboratory. Coal seam samples, taken at two ft. intervals, were analysed for % Ash and F.S.I. values. Weighted seam composites were tested for Proximate Analyses plus F.S.I. and % Sulphur, and in addition washability tests were done on the cored seam samples.

Connors Drilling Ltd. contracted the diamond drill coring. Kenting - Big Indian were the contractors for the centre-return rotary drilling with two track-mounted (FN 110 carriers) Gardner Denver 1000 HD drills with Con Cor drill pipe and with equivalent track mounted pipe carriers. Hollowink Contracting of Fernie supplied a D-7 bulldozer and operator for drill access roads and sites throughout the exploration program, which started in June and was still active at year end. All exploration holes were logged either by Roke Oil Enterprises of Calgary using a gamma ray-neutron log combination or by Geology Dep't personnel using a Widco logging unit to give a gamma ray log only. Fording geologists mapped the various rock outcrop and seam exposures; staff surveyors provided the necessary mapping control and locations of drill holes.

Summary statements of work done and the results obtained are included for the various areas, together with radiation logs, diamond drill hole logs, plans and representative sections, and a general geological map showing location of drill holes.

II INDIVIDUAL AREA PROGRAMS AND RESULTS

A. EAGLE MTN.: K-4 PIT AREA

Four shallow centre return rotary holes (R.H.'s 403-406) were drilled in this proposed pit area to further define the location, thickness and coal quality of No. 4 seam. These holes, totalling 1530 ft. were drilled by a contractor KENTING; Big Indian; an additional 789 ft. in five standard rotary holes (R.H.'s 450-454) were completed by the Geology Dep't B-50 drill to provide additional fill-in data.

All holes were surveyed as was geological mapping of limited trench exposures. Drilling indicated that 4 seam is relatively flatly dipping in this area and is bounded by high angle faults at the western and eastern extremities of drilling. Refer to Section 486,000 N, for illustration.

Based on the K-4 drilling program, mine planning studies have resulted in a designed pit containing 600,000 long tons of metallurgical coal in No. 4 seam averaging 30 ft. in thickness, and having the following quality: (Raw Coal) 19.2% Ash, 21.1% V.C.M., 59.2% F.C., 0.38 % S. Preliminary development is planned for 1976.

B. WESTFACE & SOUTHWEST EAGLE MTN. - RESERVE BLOCKS 3,4

A total of 11,134 ft. in nineteen holes were drilled in Coal Reserve Blocks 3 and 4 which cover the area between sections 487,000 N and 491,000 N on the western flank of Eagle Mtn. The purpose of these holes was to improve seam definition and provide additional structural information. Six relatively deep (maximum 950 ft.) diamond drill core holes (D.D.H.'s 390-395), for a total of 4,408 ft., were drilled at widely spaced intervals to test for continuity of seams 9,7,5 and 4 near the highwall of a preliminary planned pit in this area. In addition thirteen centre-return rotary holes were drilled (Total 6726 ft.) to a depth of approximately 550 ft. each to intersect seams 11 through 4 projected from the trenched near surface outcrops. No. 4 seam was mapped and surveyed in approximately 4000 ft. of previously trenched outcrop.

The 1975 drilling results of Reserve Blocks 3 and 4, correlated with previous work, showed the coal seams to be dipping to east at 20 to 21 degrees and having average thicknesses as follows: 9 seam - 19.5 ft; 7 seam - 29.5 ft; 5 seam - split into two to three widely separated, thin (2 ft. - 3 ft.) seams; 4 seam - 35.5 ft.

Thrust faults, as indicated by seam repetition and increased stratigraphic section, are present in the area and further drilling will be required, prior to actual mining operations, to more fully define the geometry of these faults. (Refer to Section 488,250 N - Eagle Mtn. for illustration of structure).

As a result of the thinness of the split 5 seam at the southern end of Eagle Mtn., it has not proved practical to develop an economic open-cut method of mining the underlying 4 seam. Therefore, 4 seam in this area is not in the reserves at this time. However, this seam offers excellent potential for underground hydraulic mining, and will be under future consideration for this.

C. CENTRAL AND NORTHERN EAGLE MTN.

A total of seventeen rotary holes averaging approximately 550 ft. in depth were drilled for a total of 9,792 ft. This drilling provided improved definition of coal seams 14, 13 and 12 with respect to thickness, coal quality and local structure; this information is essential for continuation of planning studies related to expanded underground mining potential below the Seam 15 Hydraulic Mine.

The 14 seam zone consists of several apparently discontinuous seams, highly variable in thickness over short distances. The uppermost No. 14 seam thickens (up to 16.5 ft.) toward the south-eastern extremity of Eagle Mt. and offers the best potential for hydraulic mining. Seam 13 is a continuous seam varying in thickness from 15 ft. to 25 ft. and containing partings up to 5 ft. thick. Full seam coal analyses indicate an ash content of >30%. Seam 12 is a single seam of more uniform thickness (18 ft. average) and of excellent quality; 11 % Ash, 6-8 F.S.I. Additional drilling, from underground location within the 15 Seam Hydraulic Mine, will be required to outline mineable portions of these seams.

On the north end of Eagle Mt. outcrop and seam trenches were mapped and correlated with drill intersections to provide structural data on the major syncline through Eagle Mt., and thrust faulting indicated by previous drilling in the Clode Ck. area. Refer to cross-section 494,800 N (Upper Clode - Eagle Mtn) for illustration of structure. Total Cost of Eagle Mtn. programs (including K-4 pit) \$371,374.33.

D. CLODE PIT AND "NO NAME GULCH" EXTENSION

Eight centre return rotary drill holes (R.H.'s 376-382, 384) for a total of 4,154 ft. were drilled in Clode pit to penetrate normal 7, 5 and 4 seams, and repeated seams below a major flat thrust fault located at approximately 5800 ft. elevation. Horizontal displacement of seams below the thrust fault zone is approximately 1600 ft. There is a noticeable thinning of the down dip extension of 4 seam as it approaches the fault zone, and coal seams are strongly disturbed, especially in areas of less competent rock types such as mudstone and shale. Section 495,750 N, Clode Pit (Refer to Appendix) illustrates fault locations and displacement of seams.

An additional 2469 ft. in seven centre - return rotary drill holes (R.H.'s 371-375, 383, 385-386) were drilled to the east of the former pit design limit, primarily to test the extension of 9 seam in the No Name Gulch area. Drill results indicated a flattening of the seam as it approaches the axis of the Eagle Mtn. - Turnbull Mtn. syncline, and also structural dislocation due to thrust faulting. Section 496,000 N Clode Pit, illustrates the structures.

Pit design changes, based on the new drill information, resulted in an increase of approximately 900,000 L.T.R.C. for Clode pit reserves.

Total Expenditure on the above program: \$111,451.55

E. TURNBULL MTN.

Re design of the 5 and 7 seam pit (Turnbull Main Pit) resulted in the need for information on the location, thickness and quality of coal seams 9 through to 14 on the south-west nose of Turnbull Mtn. These upper seams had not been included in the previous design. Six centre return rotary holes for a total of 2,364 ft. were drilled to obtain the necessary information. Minor seam trenching and geological mapping were done in conjunction with the drilling, and the interpreted data plotted on cross-sections and seam contour plans. As a result, it has been possible to correlate structures and seam sequences mapped on the main Clode Creek haul road, prior to the drilling program. The principal structural feature in the area is a major thrust fault named the Turnbull Nose Thrust. This fault, having a horizontal displacement of approximately 1600 ft., has been tentatively correlated with the major thrust below the Clode pit.

The-Nose thrust is flat or dips at low angles to the west within most of the Turnbull area and is at an elevation of approximately 5800 ft. where exposed on the Clode Creek Haul Road. Refer to Section 498,750 N Turnbull, for illustration. Planning revisions are now in progress for the Turnbull Nose Area.

F. GREENHILLS AREA

Seventy-six centre return rotary holes were drilled for a total of 20,106 ft., over a strike length of approximately 12,000 ft. The bulk of this drilling was to improve the density of geological data on which future Truck/Shovel and drag-line pit designs will be based. Information obtained from this drilling basically confirmed previous geological interpretations for the respective areas, including the location of inferred fault structures.

In the southern Greenhills area (480,000 N - 482,500 N) 2160 ft. of drilling in twelve holes was completed to obtain additional information on "E" and "F" seams. These seams steepen in dip (up to 45° to the west) when traced along strike to the south and as they approach the Erickson Fault. Structural interpretation is complicated by the presence of several inferred high angle thrust faults. This area is under consideration as an extension of the presently designed South Greenhills Truck/Shovel pit. (Refer to Section 481,500 N for illustration of structure)

Between 482,750 N and 486,500 N, twenty rotary holes (4640 ft.) were drilled to further define "B" seam in the area of proposed B2 and B3 dragline cuts. Information on seam thickness, location, and coal quality is now available on approximately 250 ft. centres for this area. There is an apparent thinning of "B" seam between Sections 484,250 N. and 484,750 N. (Refer to Section 484,750 N.)

A total of 8946 ft. in twenty-four rotary holes was drilled to provide further data on F, E and D seams between sections 482,750 N and 489,750 N, immediately west of the Greenhills open cut high-wall. This drilled area is within the limits of the presently designed Truck/Shovel pits. Seam locations and thicknesses, with minor exceptions, were as expected.

The 1975 reserve development program was still in progress at year-end in northern Greenhills to provide data for the design of a low ratio drag-line pit to mine "F" seam.

Total cost of Greenhills and Turnbull Mtn. program: \$258,777.09


G. MT. TUXFORD SURVEY CONTROL

In addition to the afore mentioned Coal Reserve Development drilling, work was carried out to provide survey control for five topographic base maps (Scale 1" = 200') in the Mt. Tuxford and upper Fording River area. Topographic base control stations were set out and accurately located by staff surveyors using a tellurometer and survey transit. The survey work was supported by a chartered helicopter.

Total Cost of Survey Control and Maps: \$8,577.23

ACT, PMD:dd

January 30, 1976


A. C. Taplin, P. Eng.


P. M. Daignault

III LIST OF ILLUSTRATIONS & APPENDICES

A. MAPS AND SECTIONS

- 1975 EXPLORATION AND DEVELOPMENT GENERAL GEOLOGY MAP
1 inch = 1000 ft.
- GENERAL GEOLOGY AND COAL PROPERTIES MAP
1:50,000 Scale Index Map
- SECTION 488,250 N, SOUTHERN END OF EAGLE MTN.
1" = 100 ft.
- SECTION 494,800 N, UPPER CLODE - EAGLE MTN.
1" = 200 ft.
- SECTION 495,750 N, CLODE PIT
1" = 100 ft.
- SECTION 496,000 N, CLODE PIT
1" = 100 ft.
- SECTION 498,750 N, TURNBULL MT.
1" = 100 ft.
- SECTION 481,500 N, GREENHILLS
1" = 100 ft.
- SECTION 484,750 N, GREENHILLS
1" = 100 ft.
- SECTIONS 486,000 N, & 486,125 N, EAGLE MTN. SOUTH
1" = 100 ft.

B. APPENDICES

- Appendix 1 Copies of drill hole logs, including assays
- Appendix 2 Copies of gamma ray-neutron logs
- Appendix 3 Copies of Contractors Invoices and Equipment Rental Invoices

IV VALUATION OF WORK

A. SUMMARIES

1. TOTAL EXPENDITURES PER TYPES OF WORK

Drilling	Dozer Work	Radiation Logs	Assays and Washability Tests	Geological Supervision and Mapping	Truck Rentals	Misc. Equip. and Supplies	Survey & Topo. Sheets Mt. Tuxford
\$619,323.45	\$40,377.82	\$21,543.01	\$23,564.26	\$17,952.23	\$7,989.11	\$10,852.79	\$8,577.23
TOTAL EXPENDITURES: \$ 750,180.20							

2. PRORATED EXPENDITURES PER INDIVIDUAL LICENSES

C.L. 352*	\$23,164.34
C.L. 351*	189,383.31
C.L. 347*	71,071.21
C.L. 346*	94,306.26
C.L. 341*	112,076.05
C.L. 509*	72,832.10
C.L. 507*	16,552.75
C.L. 354*	13,242.20
C.L. 350*	99,316.50
<u>C.L. 345*</u>	<u>49,658.25</u>
C.L. 326	1,715.45
C.L. 554	1,715.45
C.L. 324	3,430.88
C.L. 944	1,715.45

* Denotes coal license applied for lease status.

VALUATION OF WORK: COST STATEMENT
(Sec. 27, B.C. Reg. 436/75)

ON-PROPERTY COSTS: For period from April to December, 19 75.

1. OPERATOR'S FEES, SALARIES, AND WAGES:

	Average Number of Employees	Average Rate	Average Number of Days	Amount
Professional and technical	3 1/2	\$220/DAY	81.6	21,531.21
Fording bulldozer & Operator	1	\$60/DAY	34	2,060.50
Machine operators and support				
Miners				
Other Fording personnel				157.32
Total operator's costs				\$ 23,749.03

2. CONTRACTORS AND CONSULTANTS:

Name	Service	Contract Amount
KENTING PETROLIA DRILLING LTD. 700 - 6th Ave. S.W. CALGARY, ALTA.	DRILLING CONTRACTOR	535,564.58
CONNORS DRILLING LTD. 155 West 3rd Ave. Vancouver, B.C.	DRILLING CONTRACTOR	83,758.87
ROKE OIL ENTERPRISES LTD. 516 Moraine Rd. N.E. Calgary, Alt.	RADIATION LOGGING	20,292.80
HOLLOWINK CONTRACTING LTD. Box 1274 Fernie, B.C.	BULLDOZER RENTAL	38,335.90
Total contractor and consultant costs		\$ 667,952.15

3. EQUIPMENT AND INSTRUMENTS USED: Owned _____ Rented _____

Type	Rented From	Amount
Total equipment and instrument rentals		\$ _____

4. FIELD CAMP COSTS:

	Amount	
Food <u>Paid by contractor at Elkford Camp</u>		
Accommodation		
Fuel		
Other		
Total field camp costs		\$ _____

5. SAMPLING, ANALYSIS, AND TESTING:

Service	Performed by	Amount
Proximate Analysis		
Sample Composites (full seam)	FORDING COAL LTD.	23,564.26
Washability Tests		
Totals, samplings, analysis, and testing		\$ 23,564.26

6. SUPPLIES AND MATERIALS COSTS:

	Amount	
Process supplies <u>Poly bags, drill casing, wire ties etc.</u>	11,026.54	
Operating and maintenance supplies <u>Truck repairs, insurance etc.</u>	2,338.13	
Office and technical supplies		
Other supplies and materials		
Total, supplies and materials		\$ 13,364.67

7. TRANSPORTATION COSTS (Ground transportation details):

Vehicles	Owner	Rental Rate	Amount
Two 3/4 ton 4x4's	RENTWAY CANADA LTD.	\$498.75/mo./vehicle	5,436.28

Air support details:

Aircraft Type	Owner	Charter
Helicopter	OKANAGAN HELICOPTERS LTD.	\$925.60

Total transportation costs \$6,361.88

8. RECLAMATION WORK:

\$

9. TRAVEL EXPENDITURES (operator's costs only):

Number of Personnel	Number of Trips	Amount
---------------------	-----------------	--------

Total travel expenditures \$

Total costs \$744,991.99

(Secs. 28 and 29, B.C. Reg. 436/75)

OFF-PROPERTY COSTS: Period from April to December, 19 75

Amount

- (a) Logistics and field support \$
 - (b) Technical and feasibility studies
 - (c) Preparation of ~~contour~~ contour maps (Mt. Tuxford) 4,500.00
 - (d) Supplies and services 528.76
 - (e) Mobilization and demobilization of equipment
 - (f) Travelling expenses 159.45
- (Itemize)

Total \$ 5,188.21

Supporting Cost Statements Attached (see attached invoice list)

	Amount
Roke Oil Enterprises Ltd.	20,292.80
Connors Drilling Ltd.	83,758.87
Kenting Petrolia Drilling Ltd.	535,564.58
Hollowink Contracting Ltd.	38,335.90
Rentway Canada Ltd.	5,436.28
Okanagan Helicopters Ltd.	925.60
Widco (Canada) Sales & Services Ltd.	420.22
Advance Plastics Ltd. (Poly Bags)	586.44
Cominco Ltd. (Temp. employee's room & board)	101.50
Russel Steel (Alberta) Ltd. (Casing)	9,438.45

Total supporting costs \$ 694,860.64

SUMMARY

On-property costs	\$ 744,991.99
Off-property costs	\$ 5,188.21
Total costs	\$ 750,180.20

Statement of costs verified by

(Date)

(Signature and position)

INVOICE LIST

<u>COMPANY</u>	<u>INVOICE LIST OF NOS.</u>
ROKE OIL ENTERPRISES LTD.	657, 662-664, 666, 673, 680, 689, 695, 706, 713, 729, 737, 780, 785, 798, 808
CONNORS DRILLING LTD.	6033, 5966, 5935, 5894, 6050
KENTING PETROLIA DRILLING LTD.	317, 376, 371, 333, 341, 347/348, 352, 359, 392, 393, 417/418, 425 434/ 435, 450, 467, 468, 474/ 475 476, 485, 486, 502, 512, 513, 533, 535/539, 537/538, 543, 544, 555, 561, 562
HOLLOWINK CONTRACTING LTD.	163, 172, 183, 188, 002, 015, 029
RENTWAY CANADA LTD.	4461, 7103, 7109, 9472, 12116, 12110, 14445, 14451, 16451, 16445
WIDCO (CANADA) SALES & SERVICE LTD.	1138, 1169, 1175
ADVANCE PLASTICS LTD.	01843
RUSSELSTEEL (ALBERTA) LTD.	51273
OKANAGAN HELICOPTERS LTD.	107654
COMINCO LTD.	F-575

B - CAPITAL

COST

CODE

LISTINGS

MONTH	DRILLING COSTS		BULLDOZER RENTAL ACCESS ROADS & SITES	RADIATION LOGS	ASSAYS & WASHABILITY TESTS	GEOLOGY & SUPERVISION	SURVEYING	TRUCK RENTALS	MISCELLANEOUS EQUIPMENT & SUPPLIES
	FOOTAGE RATE	DAY WORK							
	100		200	300	400	500	600	700	800
JUNE		\$ 3,000.00 MOB. & DEMOB. \$ 711.00 MOVE TO 1st SITE	\$ 5,468.24 INVOICE # 163 340.12	\$ 725.00 INVOICE # 685	\$ 644.25	\$ 1,595.24		\$ 118.00 INSURANCE \$ 498.75 INVOICE # 446	\$ 146.61 POLY BAGS. \$ 128.00 CARPETERS. \$ 15.79 WIRE TIES
	\$ 10,896.00 INVOICE # 5935	\$ 1,638.00 CORE BOXES INVOICE # 5935 \$ 4604.30 INVOICE # 5935	\$ 273.22						
JULY	\$ 16,599.00 INVOICE # 21-523 \$ 13,725.00 INVOICE # 6033	\$ 2,327.16 # 21-523 \$ 4603.74 # 6033	\$ 3,142.08 INVOICE # 172 \$ 725.00 INVOICE # 706	\$ 677.70 INVOICE # 695 \$ 725.00 INVOICE # 706	\$ 1,131.28	\$ 1,622.52		\$ 76.82	
AUGUST	\$ 22,650.00 INVOICE # 6050	\$ 3,004.67 # 6050	\$ 886.23 INVOICE # 183 \$ 27.95 SEPT. ADJ. TO INVOICE # 183	\$ 1,117.20 INVOICE # 713 \$ 564.80 INVOICE # 729	\$ 1,535.00	\$ 1,517.45		\$ 498.75 INVOICE # 7103 \$ 210.53	
SEPTEMBER					\$ 698.91				
OCTOBER					\$ 903.98				
TOTAL	\$ 63,870.00	\$ 19,888.87	\$ 10,081.92	\$ 3,809.70	\$ 4,913.42	\$ 4,735.23		\$ 1,402.85	\$ 290.40

APPROVED AMOUNT \$ 122,000.00

6 HOLES = 4408 Ft.

= \$ 24.73 OVERALL

= \$ 19.00 FT. DRILL

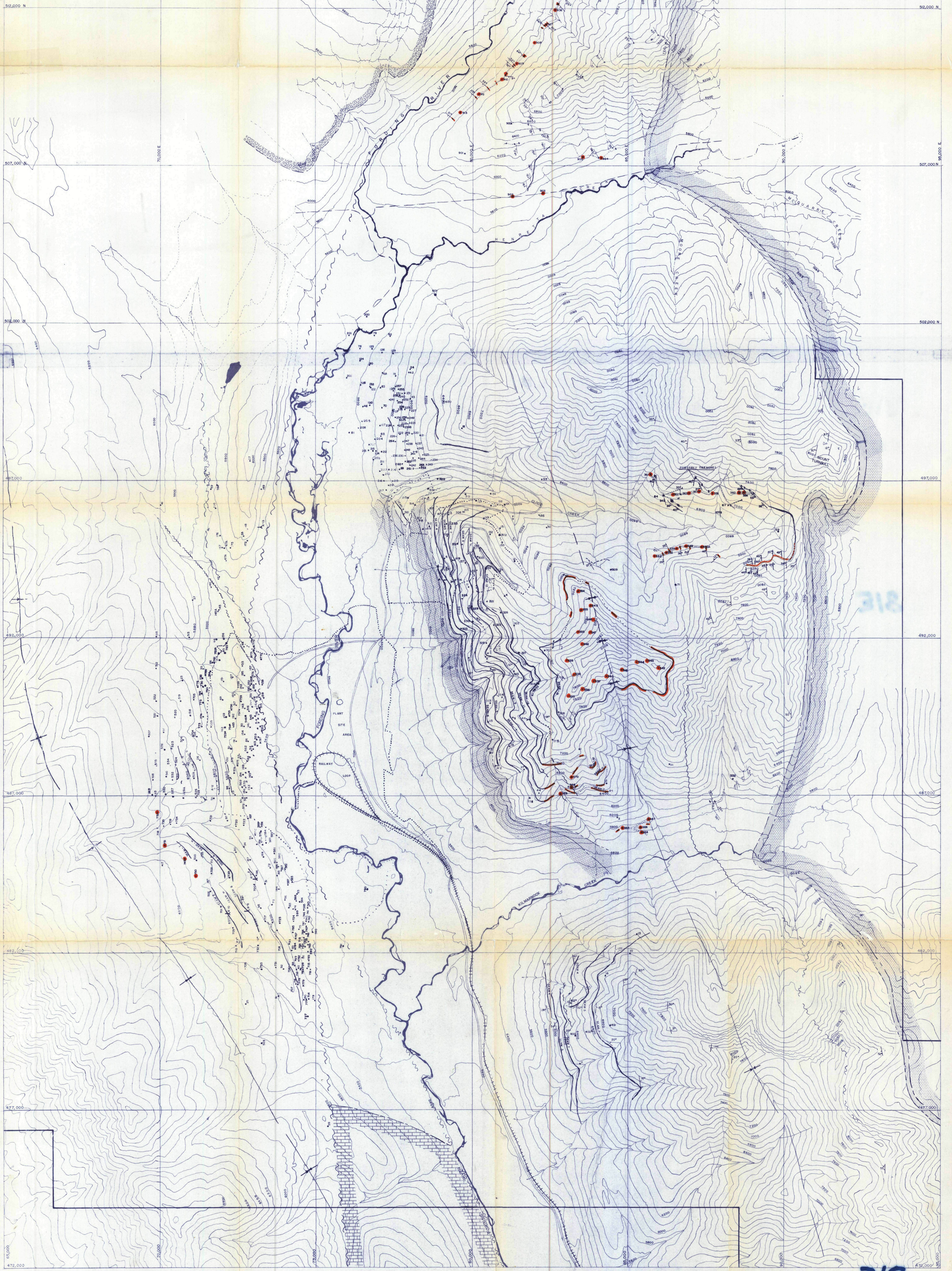
\$ 108,992.39

MONTH	DRILLING COSTS		BULLDOZER RENTAL ACCESS ROADS & SITES	RADIATION LOGS	ASSAYS	GEOLOGY & SUPERVISION	SURVEYING	TRUCK RENTALS	MISCELLANEOUS EQUIPMENT & SUPPLIES
	FOOTAGE RATE	DAY WORK & DRILL MOBILIZATION							
	---- 100	---- 110	---- 200	---- 300	---- 400	---- 500	---- 600	---- 700	---- 800
JULY									\$ 146.61 POLY BAGS
AUGUST	\$ 14,283.50 INVOICE # 0434	\$ 770.00	\$ 5,952.50 INVOICE # 183	\$ 1,288.30 INVOICE # 729					
				\$ 130.00 FILM					
SEPTEMBER	\$ 23,250.00 INVOICE # 0450		\$ 4,192.00 INVOICE # 188	\$ 954.10 INVOICE # 737	\$ 1,164.84	\$ 1,617.34 STAFF SALARY		\$ 114.76 SURVEYOR'S 4X4 - #6714 \$ 498.75 INVOICE # 12110	\$ 360.95 POLY BAGS & WIRES
	\$ 14,602.00 INVOICE # 0467	\$ 4,425.00							
	\$ 17,578.75 INVOICE # 0468	\$ 525.00							
OCTOBER	\$ 26,521.25 INVOICE # 0474	\$ 1,050.00	\$ 2,550.42 INVOICE # 002	\$ 889.00 INVOICE # 780	2,259.97	3,934.60 STAFF SALARY		\$ 74.34 CHAINS	
	\$ 28,389.00 INVOICE # 0476	\$ 105.00		\$ 2,774.70 INVOICE # 785		\$ 101.50 R. SHANKS - BOARD TO END OF SEPT.		\$ 12.44 REPAIR SUPPLIES	
	\$ 20,028.75 INVOICE # 0485	\$ 70.00		\$ 2,054.80 INVOICE # 798				\$ 216.80 SURVEYOR'S 4X4 - #6714	
	\$ 27,137.85 INVOICE # 0486	\$ 962.50		\$ 881.30 SERVICE ORDER # 2604 \$ 84.00 REPAIR WILCO LOGGER					

MONTH	DRILLING COSTS		BULLDOZER RENTAL ACCESS ROADS & SITES	RADIATION LOGS	ASSAYS	GEOLOGY & SUPERVISION	SURVEYING	TRUCK RENTALS	MISCELLANEOUS EQUIPMENT & SUPPLIES	
	FOOTAGE RATE	DAY WORK & DRILL MOBILIZATION								
 100 110 200 300 400 500 600 700 800	
OCTOBER (CONTD.)				\$ 52.85 EXPENSE ACC. W. H. SHAW \$ 3.50 BAG LUNCH	\$ 2,122.65			\$ 498.75 INVOICE # 14445		
TOTAL	\$ 17,179.00	\$ 7,907.50	\$ 12,694.92	\$ 9,116.05	\$ 5,547.48			\$ 1,415.84	\$ 507.56	EST. TOTAL TO END OF OCT. \$217,596.26
NOVEMBER	\$ 13,224.60 INVOICE # 0513 \$ 11,562.10 INVOICE # 0512	\$ 841.22 # 0513 \$ 1,464.16 # 0512	\$ 73.02 SERVICES OPERATOR \$ 706.76 INVOICE # 015	\$ 883.40 INVOICE # 808		\$ 86.30 EXPENSE ACC. R. J. SHANKS \$ 748.33 STAFF SALARY		\$ 167.84 CREDIT REPAIR WIRE TIES. PARTS FOR RENTWAY.	\$ 77.29	30 HOLES = 16,518 FT.
DECEMBER	\$ 992.25 (CREDIT TO INVOICE #434) INVOICE # 0502									
TOTAL	\$ 195,586.45	\$ 10,412.88	\$ 13,474.70	\$ 9,995.95	\$ 5,547.48	\$ 6,488.13		\$ 1,248.00	\$ 584.85	= \$ 243,338.44

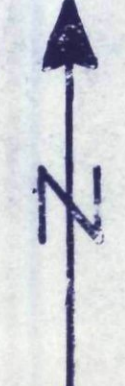
MONTH	DRILLING COSTS		BULLDOZER RENTAL & ACCESS ROADS & SITES	RADIATION LOGS	ASSAYS	GEOLOGY & SUPERVISION	SURVEYING	TRUCK RENTALS	MISCELLANEOUS EQUIPMENT & SUPPLIES
	FOOTAGE RATE ----- 100	DAY WORK & DRILL MOBILIZATION ----- 110							
JULY.		\$2,500. ⁰⁰ RIG # 5 W.B.E. DEMOS.	\$4,280. ⁹⁸ INVOICE # 172 \$630. ⁰⁰ INVOICE # 163	\$212. ⁹⁰ SERVICE ORDER # 2231 \$288. ²³ W.K.M. \$136. ⁵⁰ WIDLO PARTS	\$22,625. ⁵⁷	\$1,994. ⁴³ W.K.M. & M.K.		\$947. ⁵³ INVOICE # 710	\$18. ⁵⁸ SERVICES CAT \$9,438. ⁴⁵ 2000 FT CASING \$293. ²² POLY BAGS
AUGUST.	\$4,515. ²⁰ INVOICE # 0392 \$29,407. ⁶⁰ INVOICE # 0393 \$25,824. ⁰⁰ INVOICE # 0418 \$21,147. ³⁵ INVOICE # 0426	\$577. ⁵⁰ \$402. ⁵⁰ \$2,415. ⁰⁰ \$1,925. ⁰⁰		\$491. ³⁰ SERVICE ORDER # 2205 \$139. ¹² STAFF \$19. ⁸⁰ W.K.M.	\$1,534. ⁹⁸	\$890. ¹²		\$498. ⁷⁵ INVOICE # 9472	
SEPTEMBER.								\$498. ⁷⁵ INVOICE # 12116 \$126. ¹⁵ REPAIR SUPPLIES \$260. ¹⁷ CHARGE FROM 98206 (4959)	\$121. ⁸⁰ TAGS
OCTOBER				\$214. ⁶⁵ CHART FILM				\$498. ⁷⁵ INVOICE # 14451 \$432. ⁶⁸ CHARGE FROM 98206 (4959)	\$29. ³² WELDERS
SUB TOTAL	\$80,894. ¹⁵	\$7,820. ⁰⁰	\$4,910. ⁹⁸	\$1507. ⁵⁰	\$3,797. ⁵⁵	\$2,884. ⁵⁵		\$3,262. ⁷⁸	\$9,901. ³⁷

MONTH	DRILLING COSTS		BULLDOZER RENTAL ACCESS ROADS & SITES	RADIATION LOGS	ASSAYS	GEOLOGY & SUPERVISION	SURVEYING	TRUCK RENTALS	MISCELLANEOUS EQUIPMENT & SUPPLIES	
	FOOTAGE RATE ---- 100	DAY WORK & DRILL MOBILIZATION ---- 110								
NOVEMBER	\$14,006.70 INVOICE # 0513	\$822.94	\$4,909.63 INVOICE # 015	\$27.22 WIDCO PARTS INVOICE # 1175	\$1,273.60	\$1,526.34		\$498.75 INVOICE # 1644S		
	\$13,996.80 INVOICE # 0533	\$694.93						\$498.75 INVOICE # 16451		
	\$6,624.00 INVOICE # 0537/0538	\$3,261.00						\$80.01 CHAINS		
	\$20,747.63 INVOICE # 0535/0539	\$5,557.04						\$530.91 CHARGE FROM 78206(4955)		
	\$140.25 (CREDIT TO INVOICE # 0535) INVOICE # 0544									
	\$588.80 (DEBIT TO INVOICE # 0537/0538) INVOICE # 0543									
DECEMBER	\$24,290.00 INVOICE # 0555	\$2,304.64	\$3,880.03 INVOICE # 029	\$83.30 EXPENSE ACC. W. H. SHAW	\$2,954.69	\$2,318.28		\$467.06 CHARGE FROM 78206(4955)	\$37.42 \$38.75	
	\$6,566.00 INVOICE # 0562	\$2,913.13	\$28.28 SERVICE OPERATOR	\$201.60 WIDCO SERVICE LABOR					DACRON TAPES & H.S. STICKS	
	\$11,233.75 INVOICE # 0561			\$50.86 WIDCO SERVICE PARTS						
				\$28.58 WIDCO SALES PARTS						
TOTAL	\$178,807.60	\$23,373.68	\$12,728.92	\$1,899.06	\$8,025.84	\$6,729.17		\$5,388.26	\$9,977.54	= \$246,880.07
JANUARY 1976						\$192.50 INVOICE # F-718		\$498.75 INVOICE # 18577 \$498.75 INVOICE # 18582		



- LEGEND**
- ▲ Adits
 - Drill Holes
 - Railway
 - Main & Haul Roads
 - Cleared Mining & Plant Areas
 - Fording Property Boundary (coal licence)
 - Coal Seams
 - Synclinal Axis
 - Faults - defined, assumed
 - Strike & Dip of Bedding
 - 1974 Drilling
 - 1974 Seam Otc. Trenching

- GEOLOGY - ROCK TYPES**
- Sandstone - Current bedded, Moose mtn, Basal kootenay
 - Shale & Mudstone - Fernie formation
 - Limestone - Rundle formation
 - Blairmore - Conglomerate



318 duplicate

75-6a

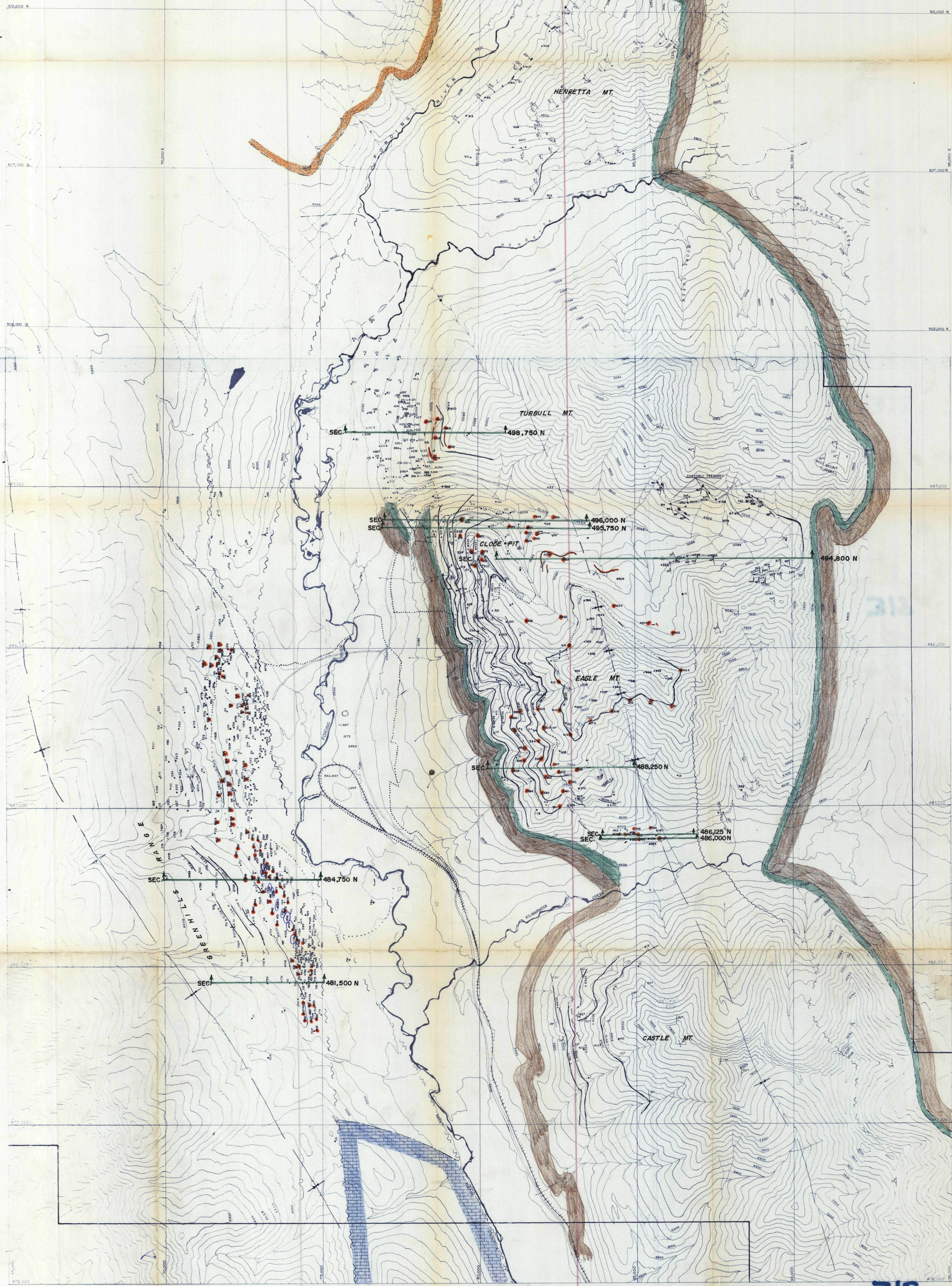
FORDING OPERATIONS

1974 EXPLORATION & DEVELOPMENT

GENERAL GEOLOGY MAP

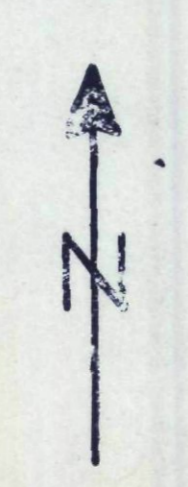
FR - 75(2)A-6

By - RBA Scale - 1" = 1000' Date - Jan 22 1971 Plate -



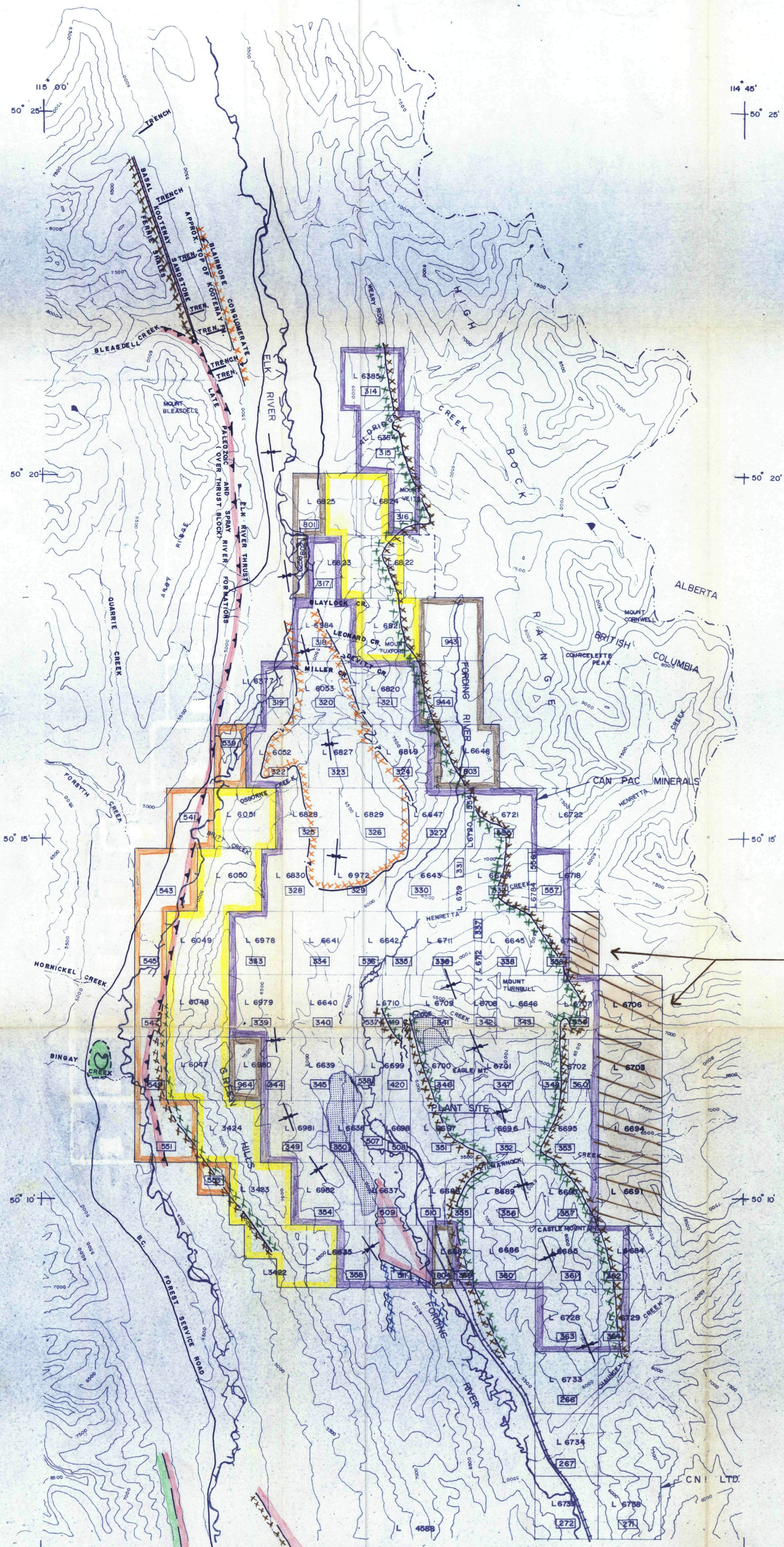
- LEGEND**
- Adits
 - Drill Holes
 - Railway
 - Main & Haul Roads
 - Cleared Mining & Plant Areas
 - Fording Property Boundary (coal licence)
 - Coal Seams
 - Synclinal Axis
 - Faults - defined, assumed
 - Strike & Dip of Bedding
 - 1975 Drilling
 - 1975 Seam Otc. Trenching

- GEOLOGY - ROCK TYPES**
- Sandstone - Current bedded, Moose mtn. Basal kootenay
 - Shale & Mudstone - Fernie formation
 - Limestone - Rundle formation
 - Biotite Conglomerate



FORDING OPERATIONS		FR 75(2)A-1	
1975 EXPLORATION & DEVELOPMENT			
GENERAL GEOLOGY MAP			
By - RBA	Scale - 1" = 1000'	Date - Jan 22 1971	Plate - 756

318



318

LEGEND

- COAL LICENSES, NOS., OWNERSHIP
- 346 CANPAC MINERALS LTD.
 - 547 COMINCO LTD.
 - 804 FORDING COAL LTD.
 - L 6048 LOT NO, COMINCO CROWN GRANTS
 - MINING AREAS
 - RAILROAD
 - EXISTING HIGHWAYS

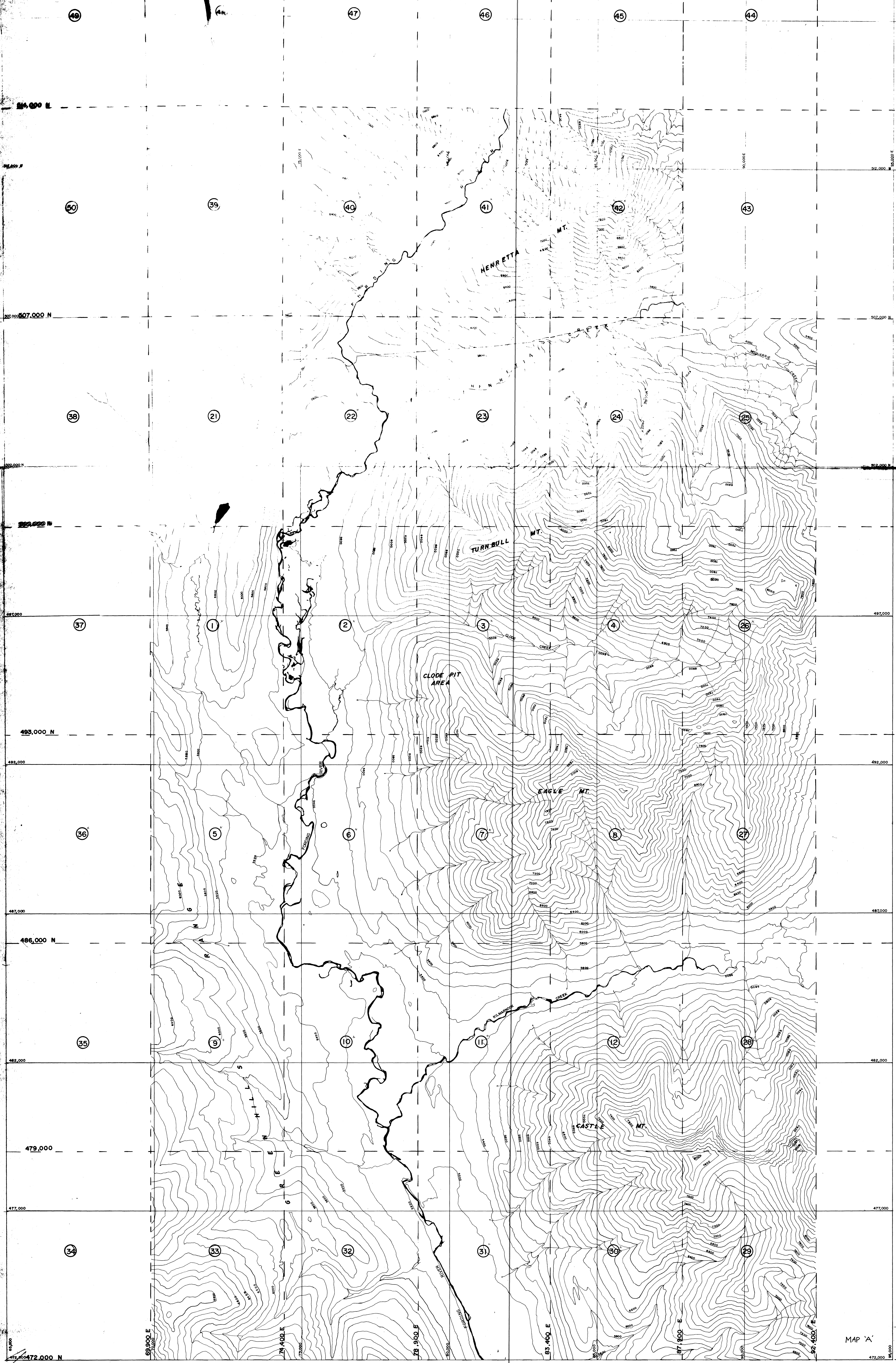
- GEOLOGY - ROCK TYPES
- SANDSTONE - BASAL KOOTENAY
 - SHALE - FERNIE FM.
 - LIMESTONE - RUNDLE FM.
 - CONGLOMERATE - BLAIRMORE FM.

- LEGEND
- CONTACT - KNOWN, ASSUMED
 - FAULTS - NORMAL, THRUST
 - SYNCLINAL AXIS
 - ANTICLINAL AXIS
 - PLATY SILTSTONE, SILTY SHALE } SPRAY RIVER FM.
 - SILTY DOLOMITIC S.S. } ROCKY MOUNTAIN FM.
 - QTZITE

FORDING OPERATIONS		GENERAL GEOLOGY	
DATE	BY	DATE	BY

318 FR-75(2)A-1

COAL and PROPERTIES
 FORDING COAL LIMITED
 1 : 50,000 DATE OCT. 7 '75



894,000 N

897,000 N

899,000 N

493,000 N

486,000 N

479,000 N

472,000 N

78,000 E

79,400 E

78,900 E

83,400 E

87,900 E

92,400 E

MAP 'A'

DEPT. OF THE ARMY
AND DISTRICT ENGINEERS
Revised AUG - 1957

Fording Operations	Comnco
INDEX MAP FOR 200' SCALE MAP PLATES	
R.K.	SCALE 1" = 1000'
	JUL ' 1975

318

FR 75(2)A-6



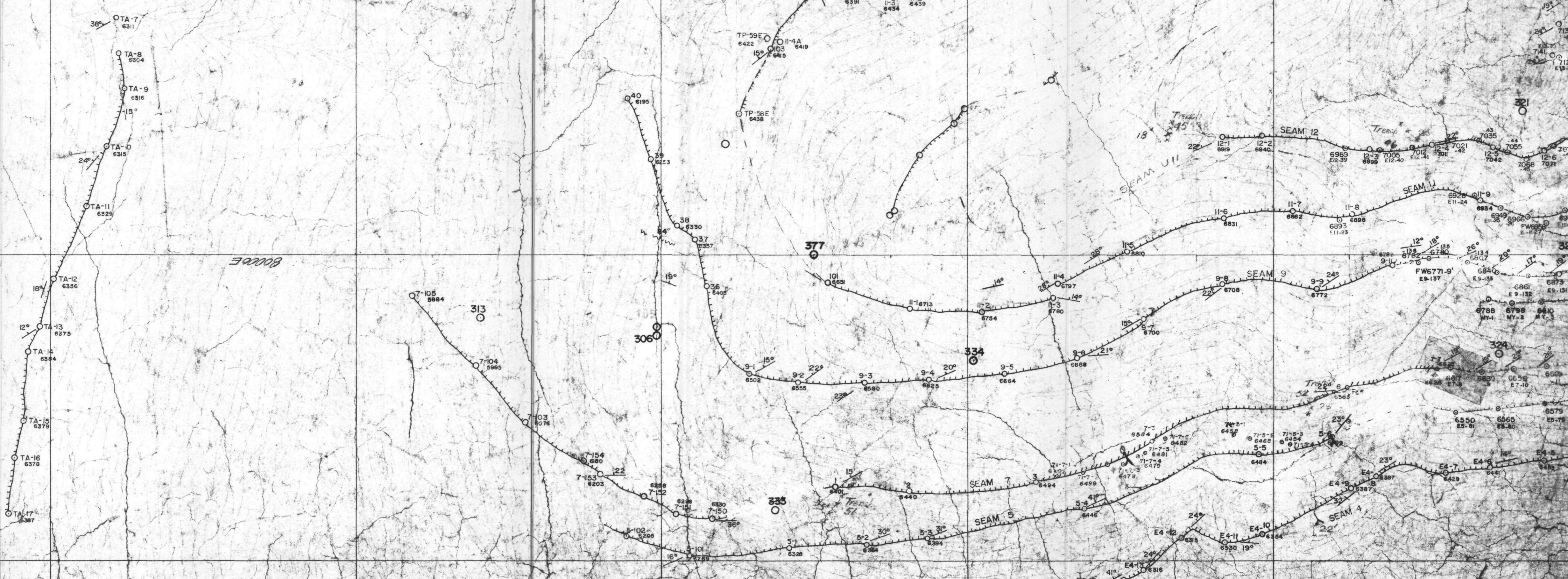
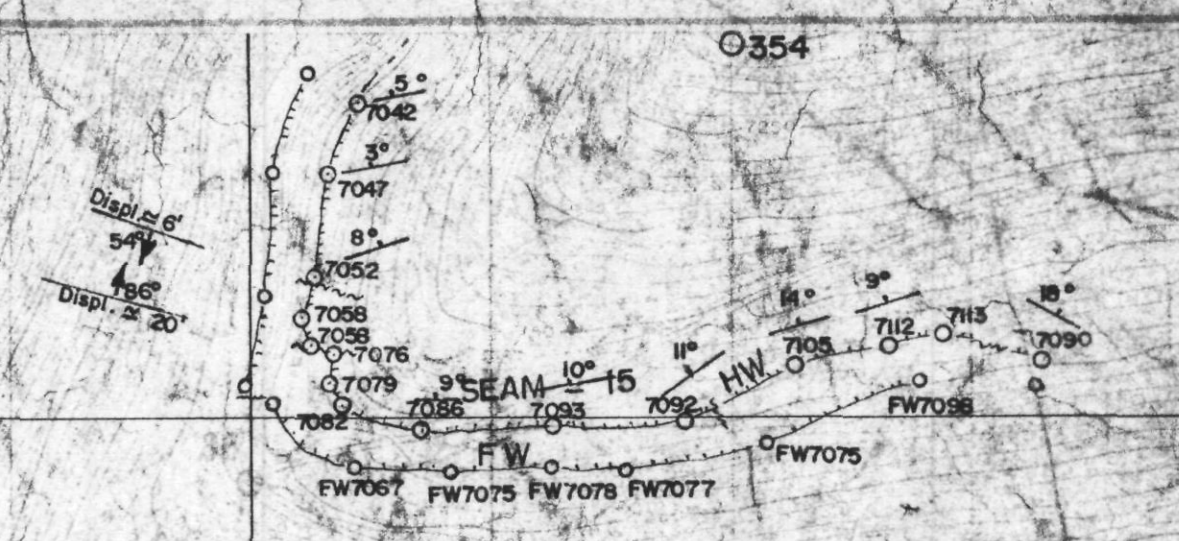
LEGEND

	BLAIRMORE CONGLOMERATE		CLIFF MARKER s.s.
	UPPER KOOTENAY FM. - Rhythmic sequence of 2-10' layers of ss, silt, sh. a few coal seams < 2'.		COAL SEAM defined, assumed
	LOWER KOOTENAY FM. - Interbedded 10-150' sequences, each consisting predominantly of either ss, or silt, & sh. Up to 6 coal seams > 3'.		GEOLOGICAL CONTACT definite, approximate
	FERNIE FM.		FAULT - high angle reverse
	SPRAY RIVER FM.		THRUST FAULT - assumed surface trace
	ROCKY MOUNTAIN GROUP		ADIT
			1974 DRILLING - rotary drill hole

After Mr. Wolfard Aug. 1967 (Plate ER-4)

FROM 100 SCALE PLAN IN MS 398 ADITS NOT SEEN IN 1967
 FROM PLAN 1909-7E ADIT SEEN 1967
 GEOL. FROM PLAN 1909-7E ADIT SEEN 1967

4470cc N



BOULE

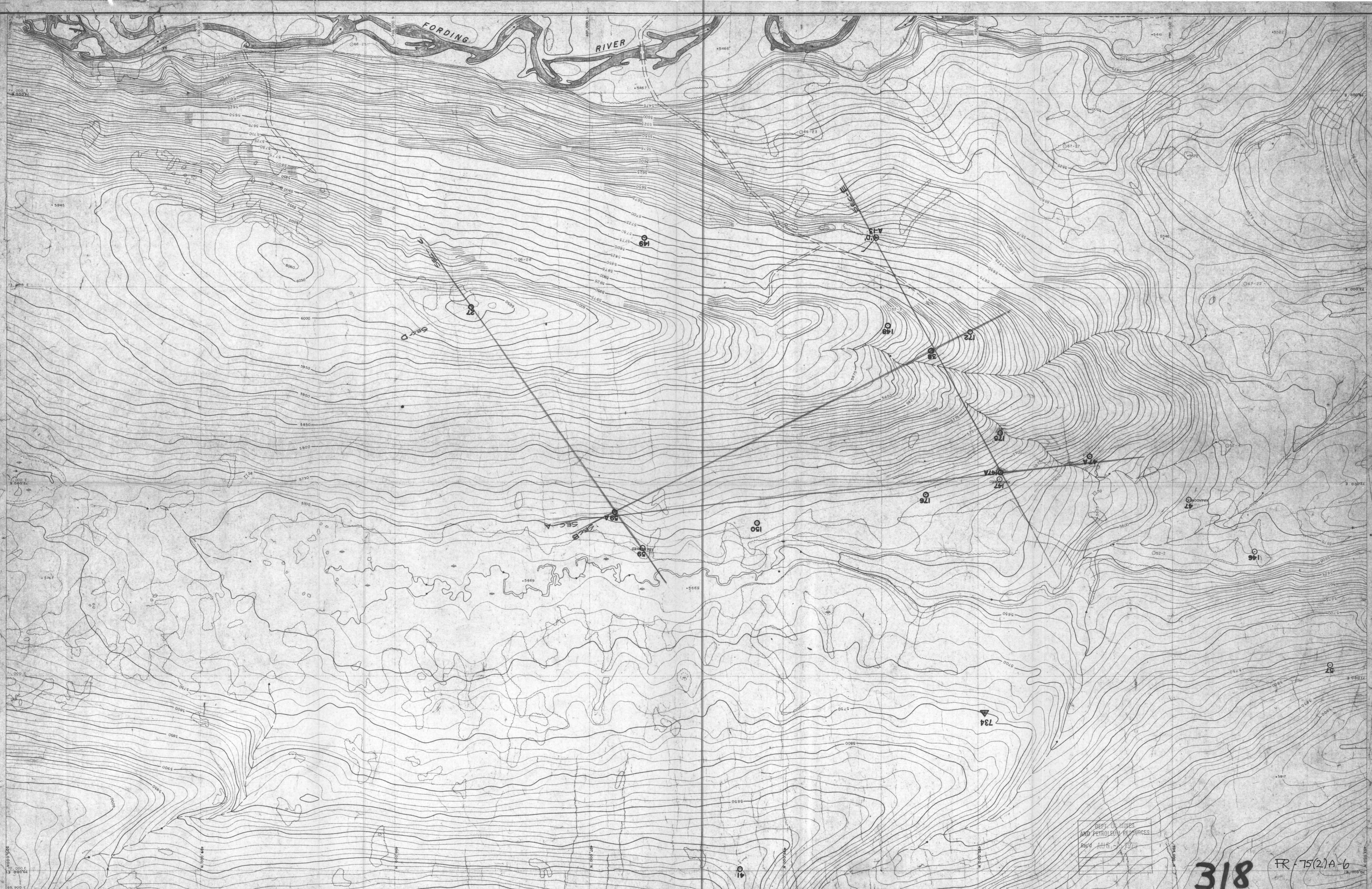
DEPT. OF MINES AND TECHNICAL RESOURCES

UPDATED MAP As of July, 1975



Geology Seam Outcrop Survey

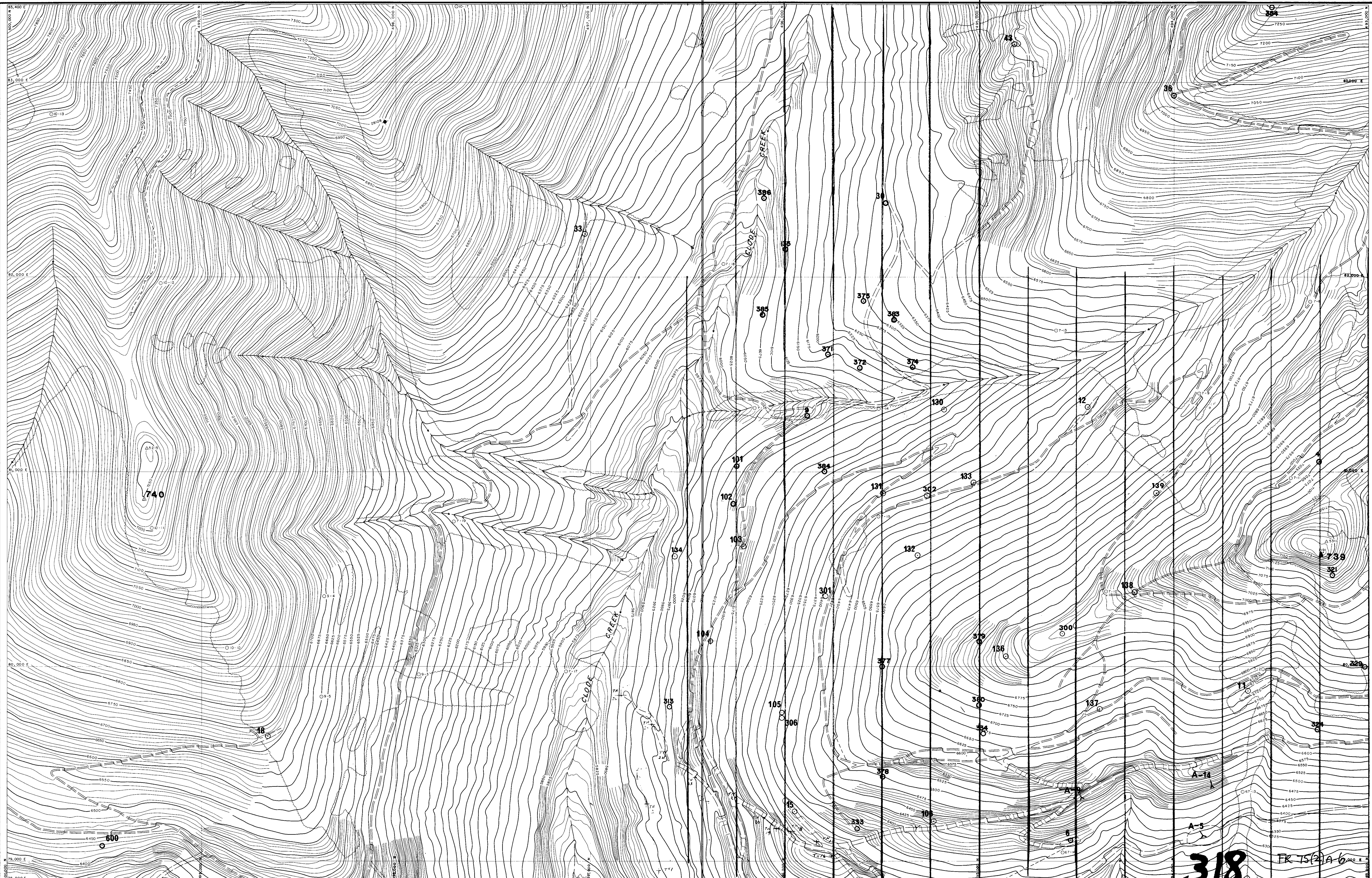
318 FRTS(2)A-6



DEPT. OF MINES
AND PETROLEUM RESOURCES
Revised AUG., 1975

318 FR/75(2)A-6

Job No. J. 83 001		Topographic compilation by McElhanney Surveying & Engineering Ltd. from aerial photography flown in 1968.		Drawn by		Function ENGINEERING		Function GEOLOGY		Scale 1 Inch = 200 Feet	
Drawing No. FCO A 1		Fair drawings by: McELHANNEY SURVEYING & ENGINEERING LTD. Job No. 05390-3		Checked by		Engineering		Activity DRILL HOLES, SEAM OUTCROP		Drawing No. FCO A 1	
Reference		Issued 10		Approved:		Common		Section GREEN HILLS N. AREA		Revision	
Reference		No. Made by Date Description		Project Eng.		Job TOPOGRAPHICAL MAP		KEY MAP		210-0683	
Reference		Updated MAP		As of July, 1975							



318 FR 75(2)A 6

Job No. J.
Drawing No.

Topographic compilation by Lockwood Survey Corporation from aerial photography flown in 1968.
Fair drawings by:
McELHANNAY SURVEYING & ENGINEERING LTD.
Job No. 05390-3

LEGEND
Seam 'B' [Symbol] Seam 4 [Symbol]
Seam 'D' [Symbol] Seam 5 [Symbol]
Seam 'E' [Symbol] Seam 7 [Symbol]

Issued to

Revisions	No.	Made by	Date	Description

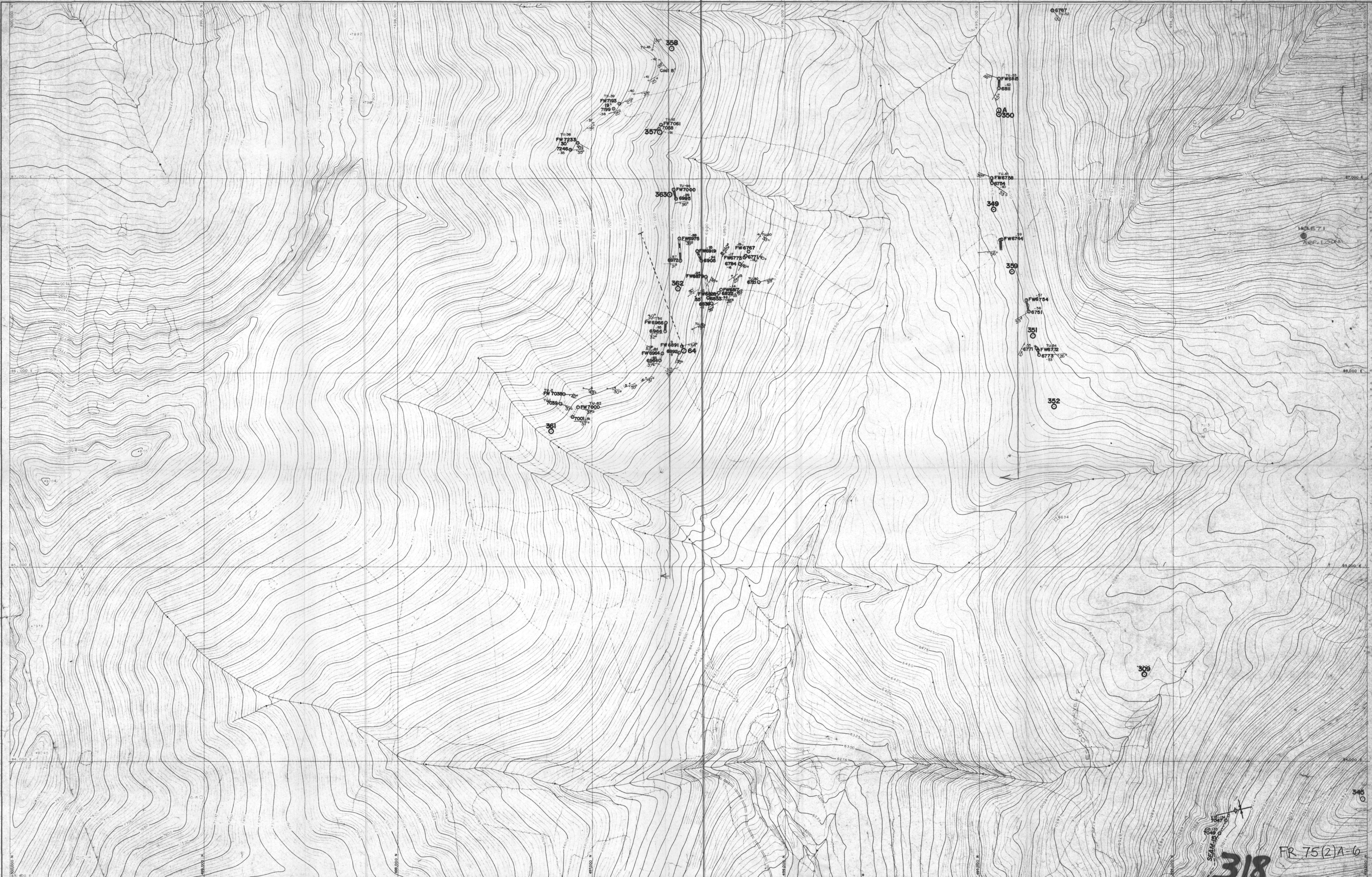
DEPT. OF MINES AND PETROLEUM RESOURCES
Rec'd AUG - 6 1975

Engineering
Common

Function
Activity
Section
Job
CLODE PIT AREA

Scale 1 Inch = 200 Feet
Drawing No. 3
KEY MAP

UPDATED MAP
As of July, 1975



Job No. **J.**
 Drawing No. **FCO A 4**

Revision
 Topographic compilation by
 McELHANNAY SURVEYING & ENGINEERING, LTD
 Job No. 05390-11

Reference	Issued to	Reference

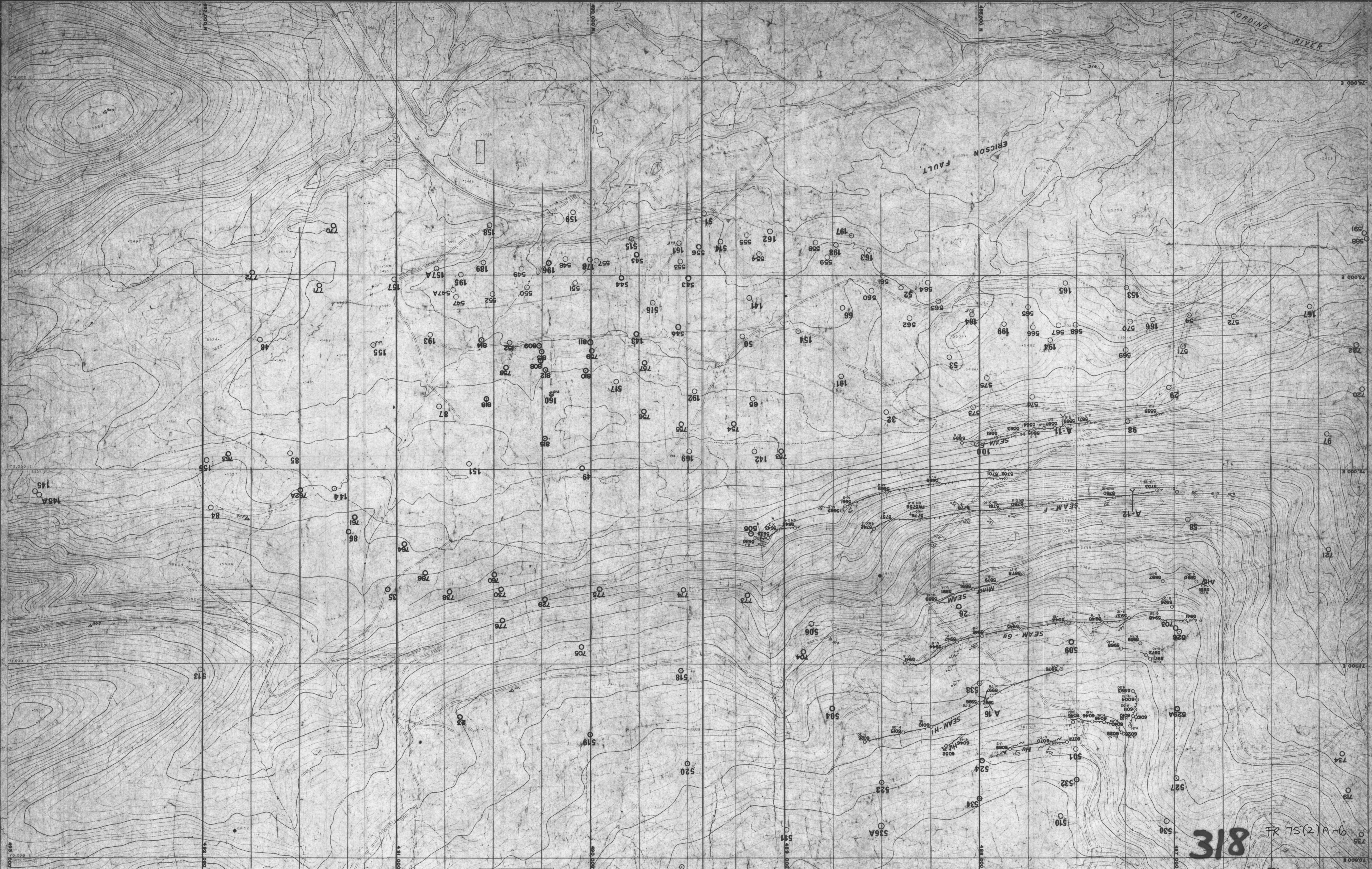
DEPT. OF MINES
 AND PETROLEUM RESOURCES
 Rec'd AUG 5 1975

Drawn by
 Checked by
 Design/Eng.
UPDATED MAP
 As of July, 1975

Engineering

GEOLOGY
DRILL HOLES SEAM Otc.
 UPPER CLODE AREA
 TOPOGRAPHICAL MAP
 KEY MAP

Scale 1 Inch to 200 Feet
 Drawing No. **FCO A 4**
 Revision
 26 27
 3 7
 318 FR 75(2)A-6
 210-0050



318 FR 75(2)A-6

Job No.	J
Drawing No.	

Dates of Photography - July 28, 1968 & Oct 14, 1970
 Reference
 McELHANNAY SURVEYING & ENGINEERING LTD
 Job No. 05390 - 16

Revised To

DEPT. OF MINES
 AND PETROLEUM RESOURCES
 Recd. AUG - 3 1971

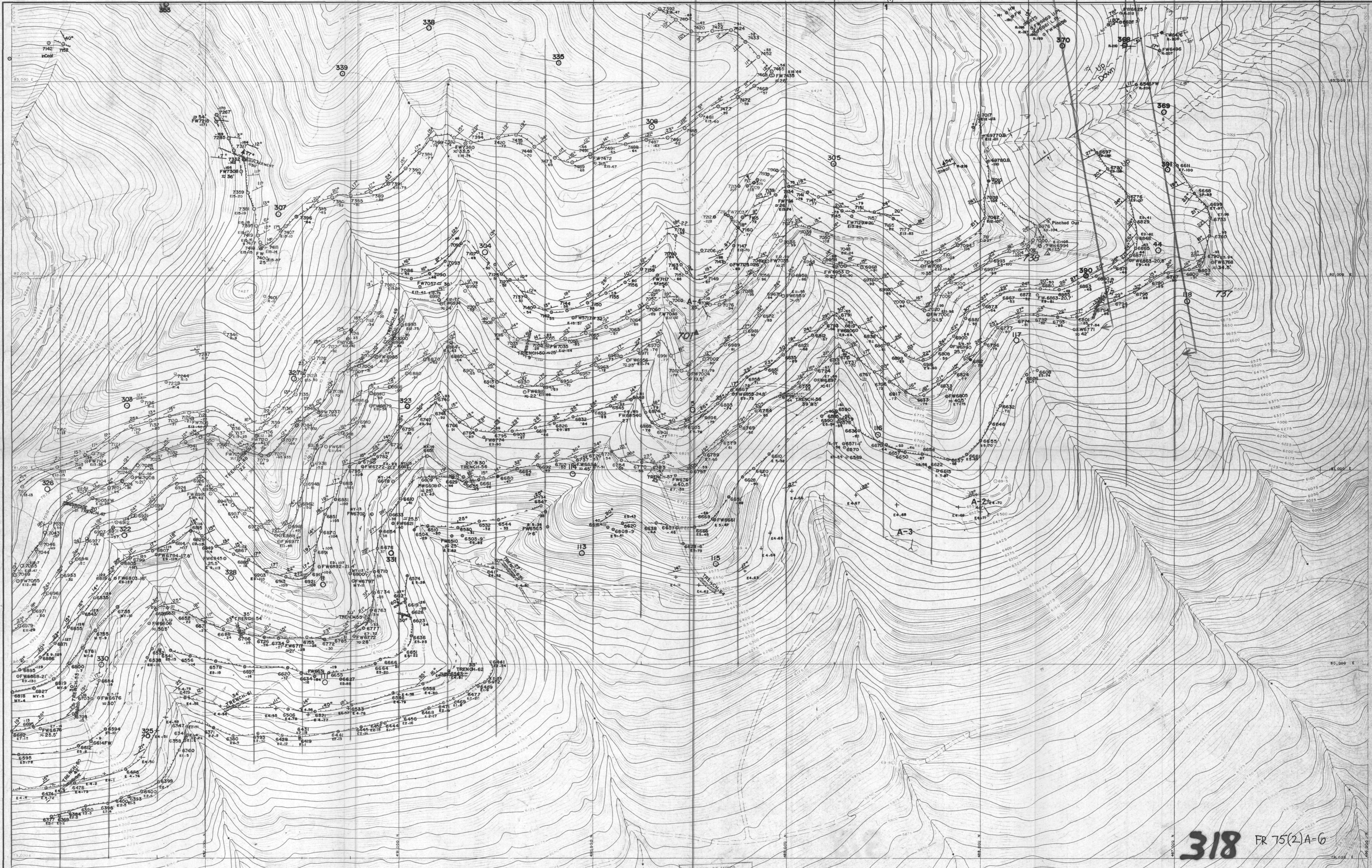
50-12-76	CLEARED AREA TO CUT 76
522	
523	
524	
525	
526	
527	
528	
529	
530	
531	
532	
533	
534	
535	
536	
537	
538	
539	
540	
541	
542	
543	
544	
545	
546	
547	
548	
549	
550	
551	
552	
553	
554	
555	
556	
557	
558	
559	
560	
561	
562	
563	
564	
565	
566	
567	
568	
569	
570	
571	
572	
573	
574	
575	
576	
577	
578	
579	
580	
581	
582	
583	
584	
585	
586	
587	
588	
589	
590	
591	
592	
593	
594	
595	
596	
597	
598	
599	
600	

Drawn by
 Checked by
 UPDATED MAP
 As of July, 1975

Engineering

Function GEOLOGY
 Activity DRILL HOLE & SEAM OUTCROP SURVEY
 Section 808 GREENHILLS
 Job KEY MAP

Scale 1 Inch to 200 Feet
 Drawing No. FCO A 5 2
 210-0520



318 FR 75(2)A-6

Job No. **J**
 Drawing No. _____

Topographic compilation by Lockwood Survey Corporation from aerial photography flown in 1939.
 Fair drawings by
 McELHANNEY SURVEYING & ENGINEERING LTD.
 Job No. 05390-3

Seam B' _____
 Seam D' _____
 Seam E' _____

Seam 4 _____
 Seam 5 _____
 Seam 7 _____

DEPT. OF MINES AND PETROLEUM RESOURCES
 AUG - 5 1975
 Drawn by **R.K.**
 Checked by _____

UPDATED MAP
 As of July, 1975

Engineering

Function **Geology**
 Section **Seam Outcrop Survey**
 Job **Eagle Mt. West Face**

Scale 1 inch = 200 Feet
 Drawing No. _____
 Revision **7**
 KEY MAP



Job No. J.
 Drawing No. FCO A 8

Topographic compilation by
 McELHANNAY SURVEYING & ENGINEERING LTD.
 Job No. 05390-11

Issued to
 Surveied Seam Outcrop
 Outcrop traced from C.P.O.G. maps

Revisions	No.	Made by	Date	Description

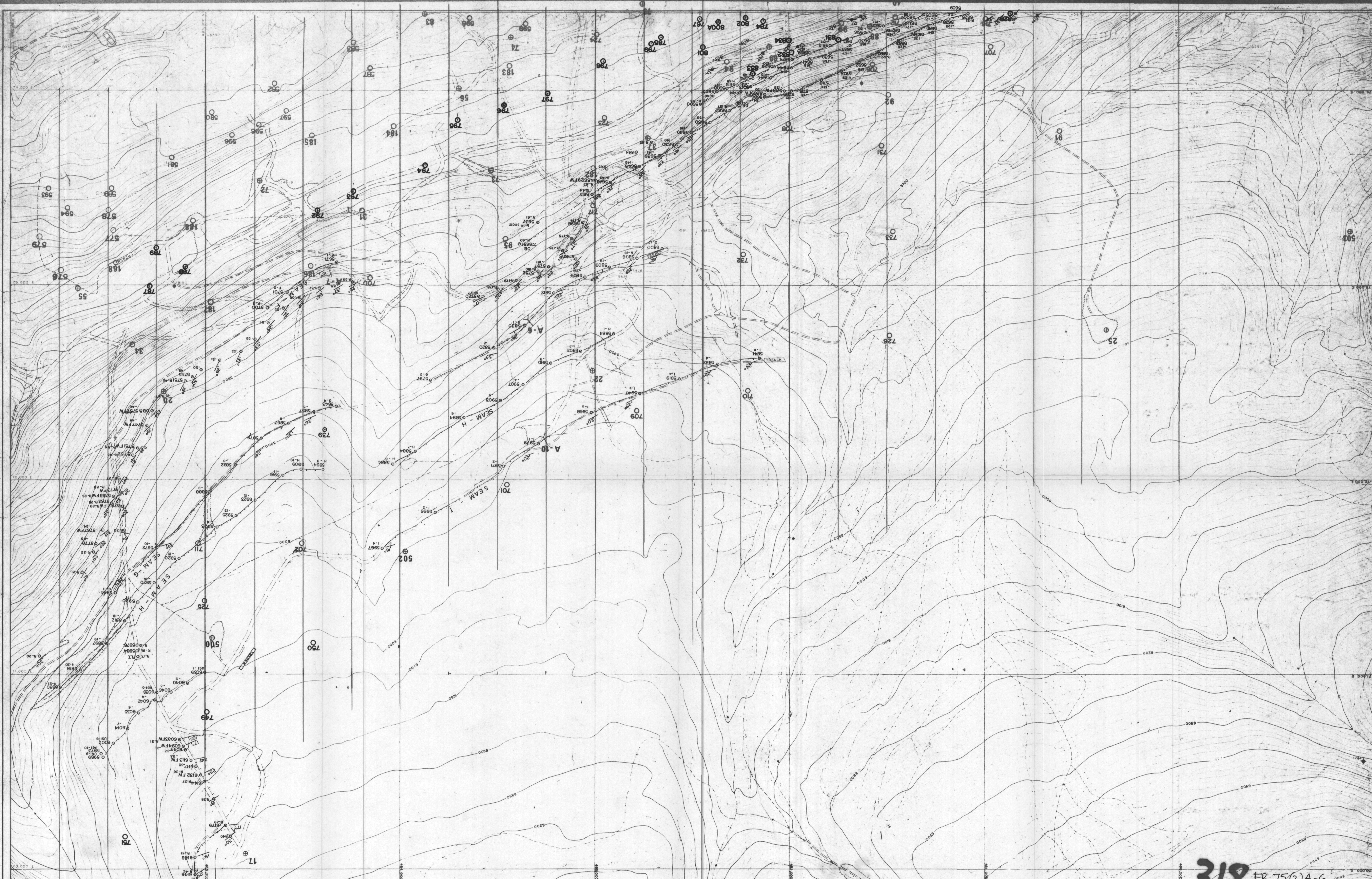
DEPT. OF MINES
 AND
 PETROLEUM RESOURCES
 Redd. Act No. 1974

Engineering
 Drawn by
 Checked by
 Design Eng.
 Proj. Eng.
 Approved

GEOLOGY
 DRILL HOLES, SEAM Etc.
 EAGLE MT.
 TOPOGRAPHICAL MAP
 KEY MAP

Scale 1 Inch to 200 Feet
 Drawing No. FCO A 8

UPDATED MAP
 As of July, 1975



318 FR 75(2)A-6

Job No. J. 813-001
 Drawing No. FCO A 9 2

Topographic compilation by
 McElhoney Surveying & Engineering Ltd
 from aerial photography flown on July 28, 1968
 Job No. 05890-11

DEPT. OF MINES
 AND PETROLEUM RESOURCES
 Rec'd AUG - 5 1975

Revisions	No.	Made by	Date	Description
1	1		16 - 0 - 30	(Roads updated to July 1969 for 5' contour area)
2	2		Oct 1970	

Drawn by
 Checked by
 Design Eng
 Proj. Eng
 Approved

Engineering

Function **GEOLOGY**
 Activity **DRILL HOLES & SEAM OUTCROP**
 Section **GREENHILLS**
 Job **TOPOGRAPHICAL MAP**

Scale 1 inch to 200 Feet
 Drawing No. FCO A 9 3
 KEY MAP

UPDATED MAP
 As of July, 1975



318 FR 75(2)A-6

Job No. J. 813-001
 Drawing No. FCO A 10 2

Topographic compilation by Lockwood Survey Corporation from aerial photography flown in 1968.
 Fair drawings by:
 McELHANNY SURVEYING & ENGINEERING LTD.
 Job No. 05390-3

Reference

DEPT. OF MINES AND PETROLEUM RESOURCES
 ROAD AUG - 5 1975

No.	Revisions	Made by	Date	Description
2			4-5-70	
1			2-4-70	ROADS UPDATED

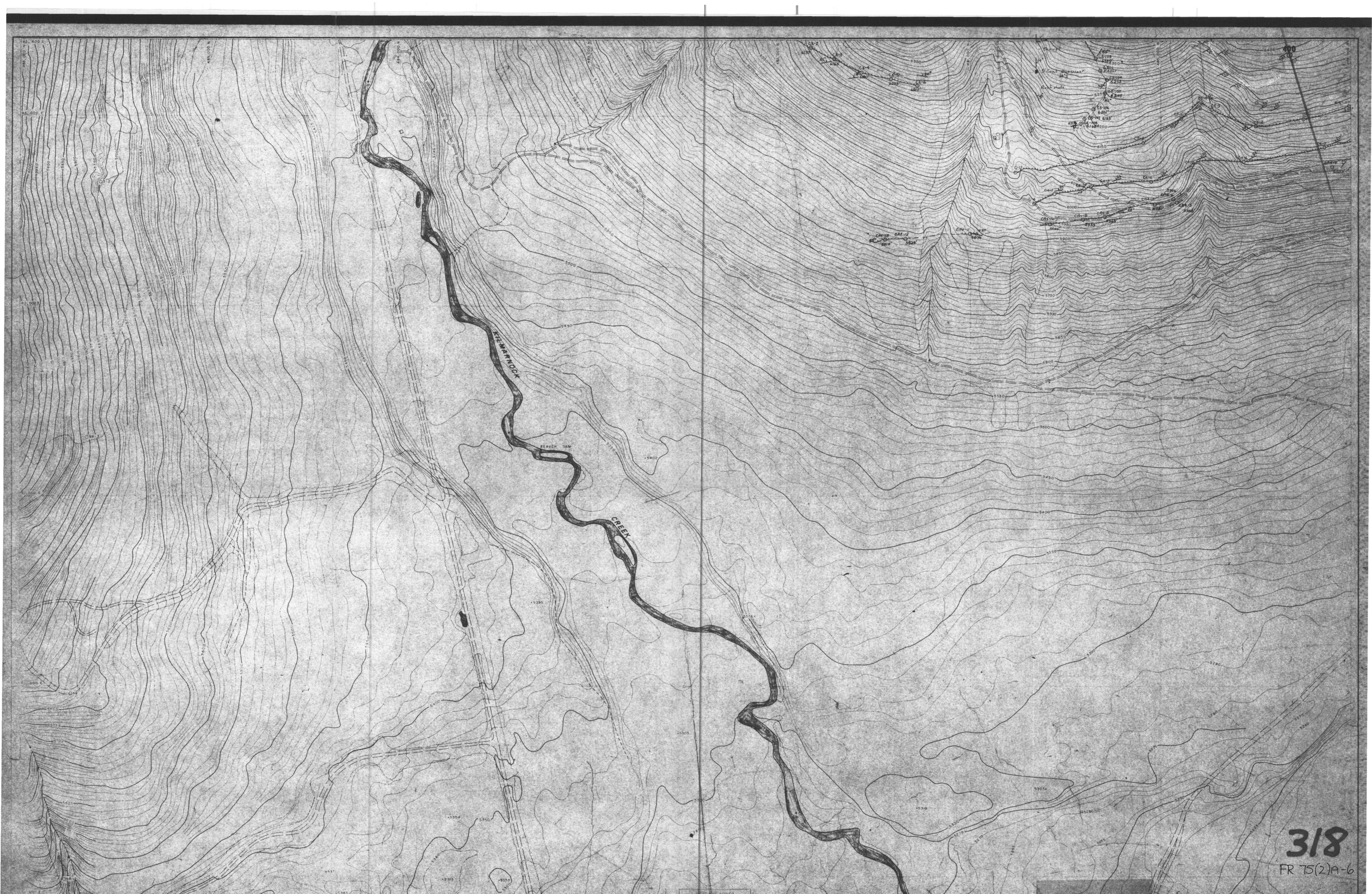
Drawn by
 Checked by
 Design Eng.
 Proj. Eng. Approved

Engineering

Function GEOLOGY
 Activity DRILL HOLES
 Section GREENHILLS
 Job TOPOGRAPHICAL MAP

Scale 1 Inch = 200 Feet
 Drawing No. FCO A 10 2
 Revision

UPDATED MAP
 As of July, 1975



318
FR 75(2)A-6

No. J. 813-001
Drawing No. CO A 11


Topographic compilation by McElhenny Surveying & Engineering Ltd. from aerial photography flown in 1968.
Fair drawings by McELHANNY SURVEYING & ENGINEERING LTD.
Job No. 05390-3

Reference

Revisions

No.	Made by	Date	Description

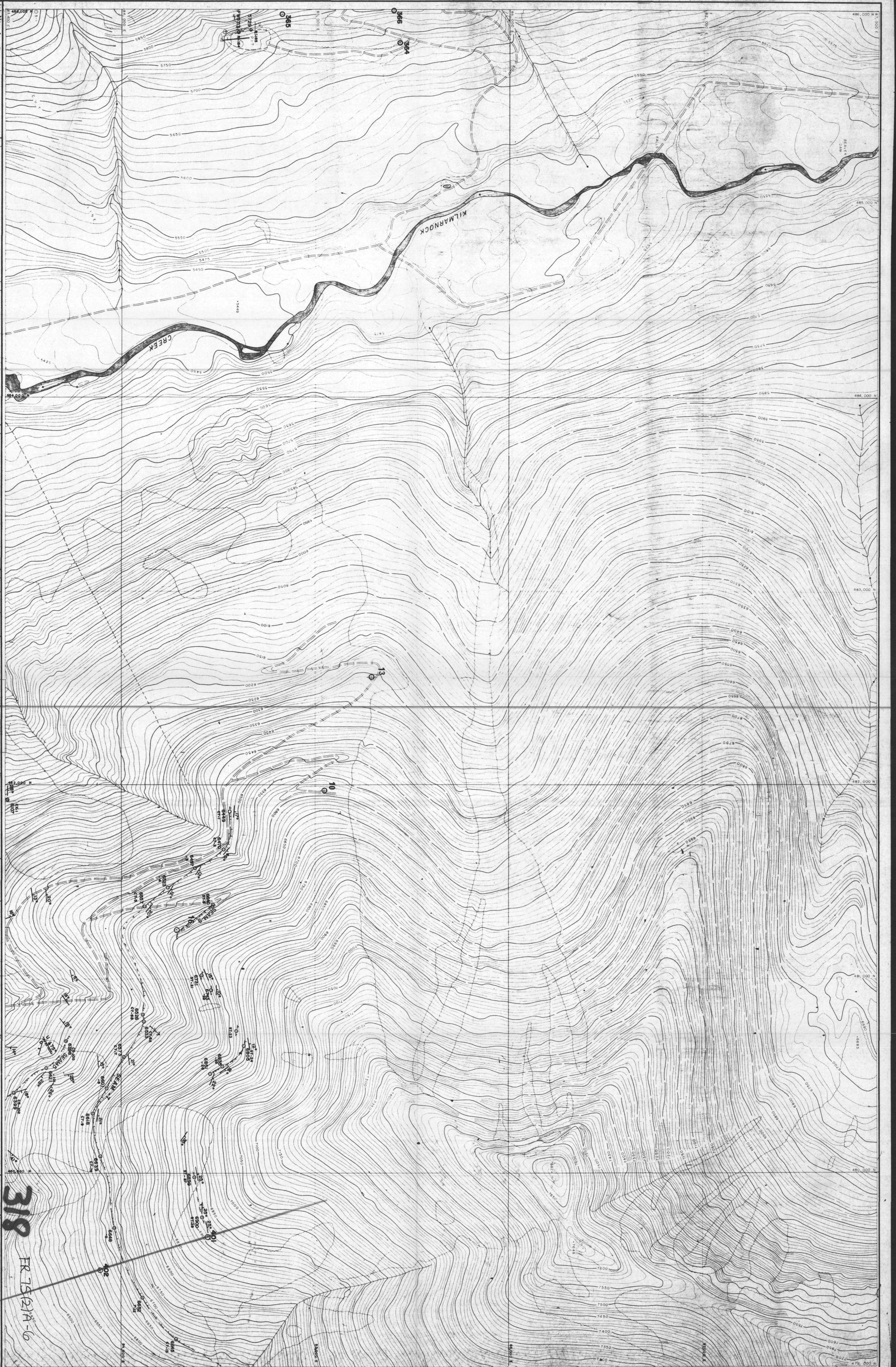
Drawn by
Checked by
UPDATED MAP
As of July, 1973

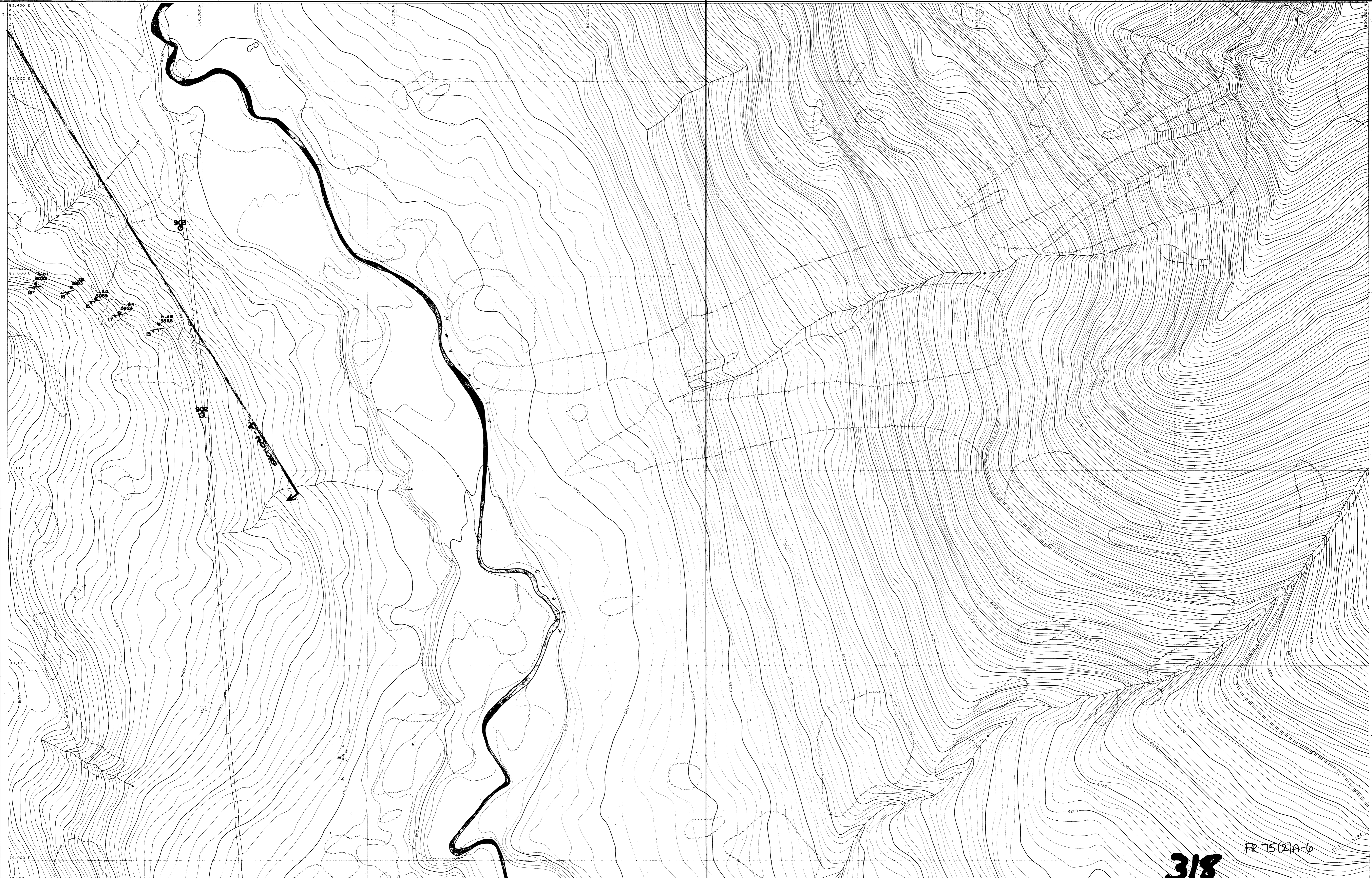
Engineering 

Function: Geology
Activity: Seam outcrop survey
Section: MINING AREAS
Job: TOPOGRAPHICAL MAP

Scale: 1 Inch = 200 Feet
Drawing No. FCO A 11
KEY MAP

Job No. J. 83-001
 Drawing No. FCO A 12
 Revision
 Reference
 Topographic compilation by McLennan Surveying & Engineering Ltd. from aerial photography flown in 1968
 Full drawing by
 MCLENNAN SURVEYING & ENGINEERING LTD.
 Job No. 05380-3
 Issued to
 Reference
 Revisions
 No. Made by Date Description
 Drawn by
 Checked by
 Updated Map
 As of July 1975
 Engineering
 Geology
 SEAM OUTCROP SURVEY
 MINING AREAS
 TOPOGRAPHICAL MAP
 Scale 1 inch = 200 Feet
 Drawing No. FCO A 12
 Revision
 210-0000





FR 75(2)A-6

318

Job No.	J.
Drawing No.	

Topographic compilation by
 Reference
 McELHANNEY SURVEYING & ENGINEERING LTD.
 Job No. 05894 - 2

Issued to	
-----------	--

Reference	
-----------	--

Revisions	No.	Made by	Date	Description

DEPT. OF MINES
 AND PETROLEUM RESOURCES
 Rec'd 6/16 - 15/1973

Drawn by
 Checked by
 Design Eng.
 Approved
UPDATED MAP
 As of July, 1973

Engineering

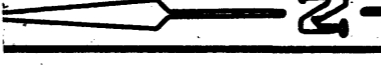


Function
 Activity
 Section **HENRETTA**
 Job

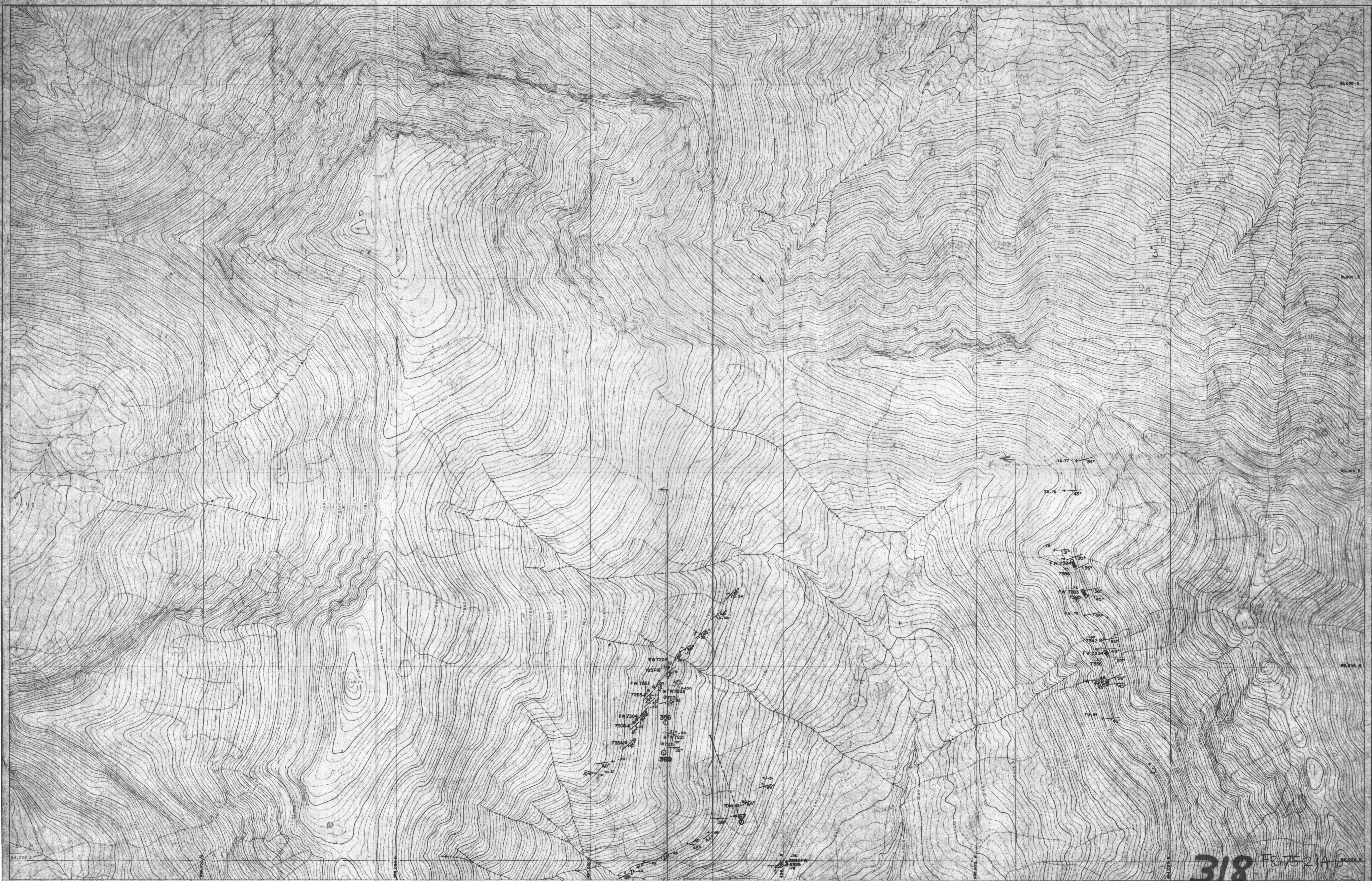
42	24	4
41	23	3
40	22	2

KEY MAP

Scale 1" = 200'	
Drawing No.	
Revision	23

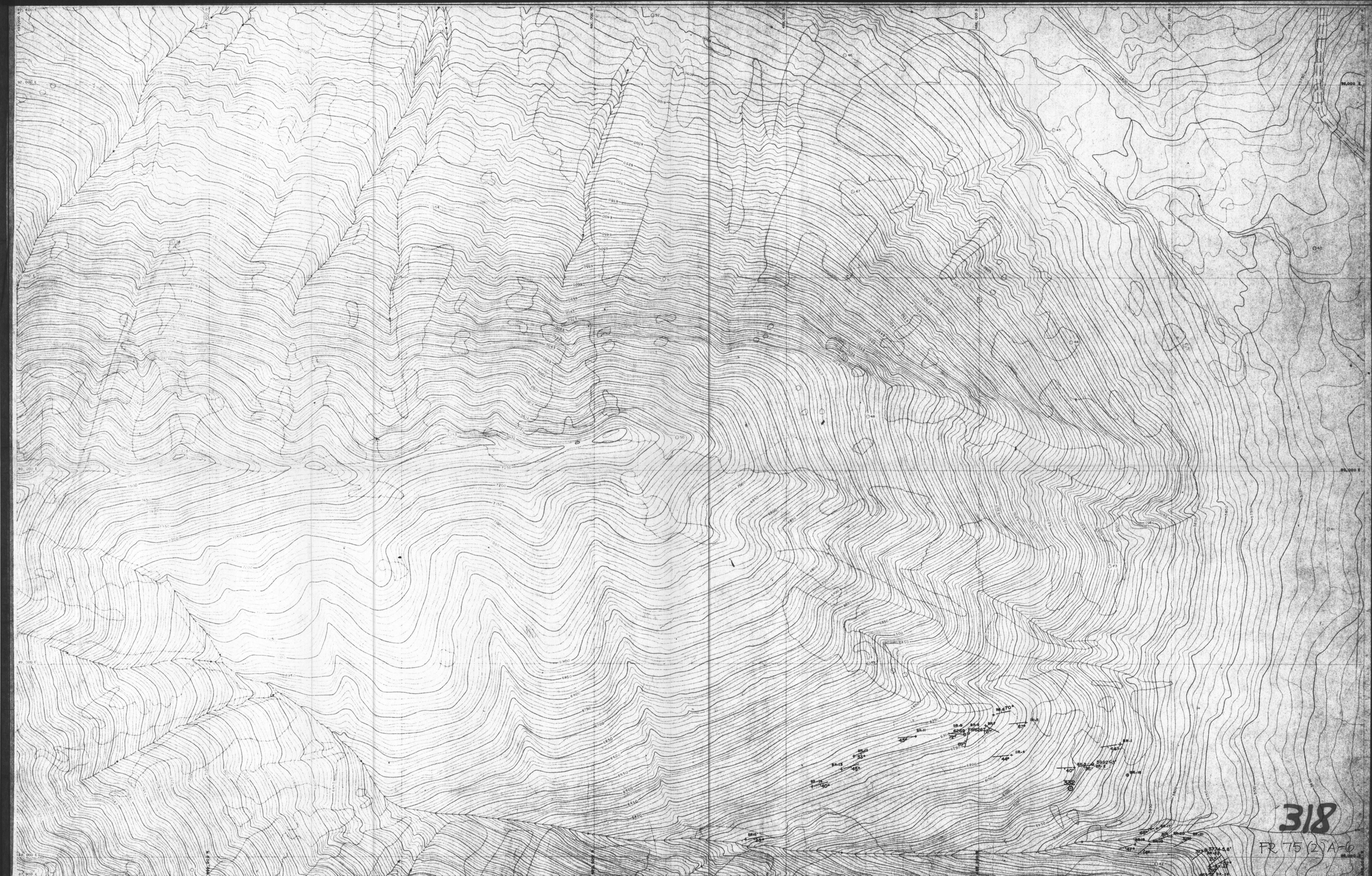


SEAM OTC. SURVEY - GEOLOGY



318 F2752(A)

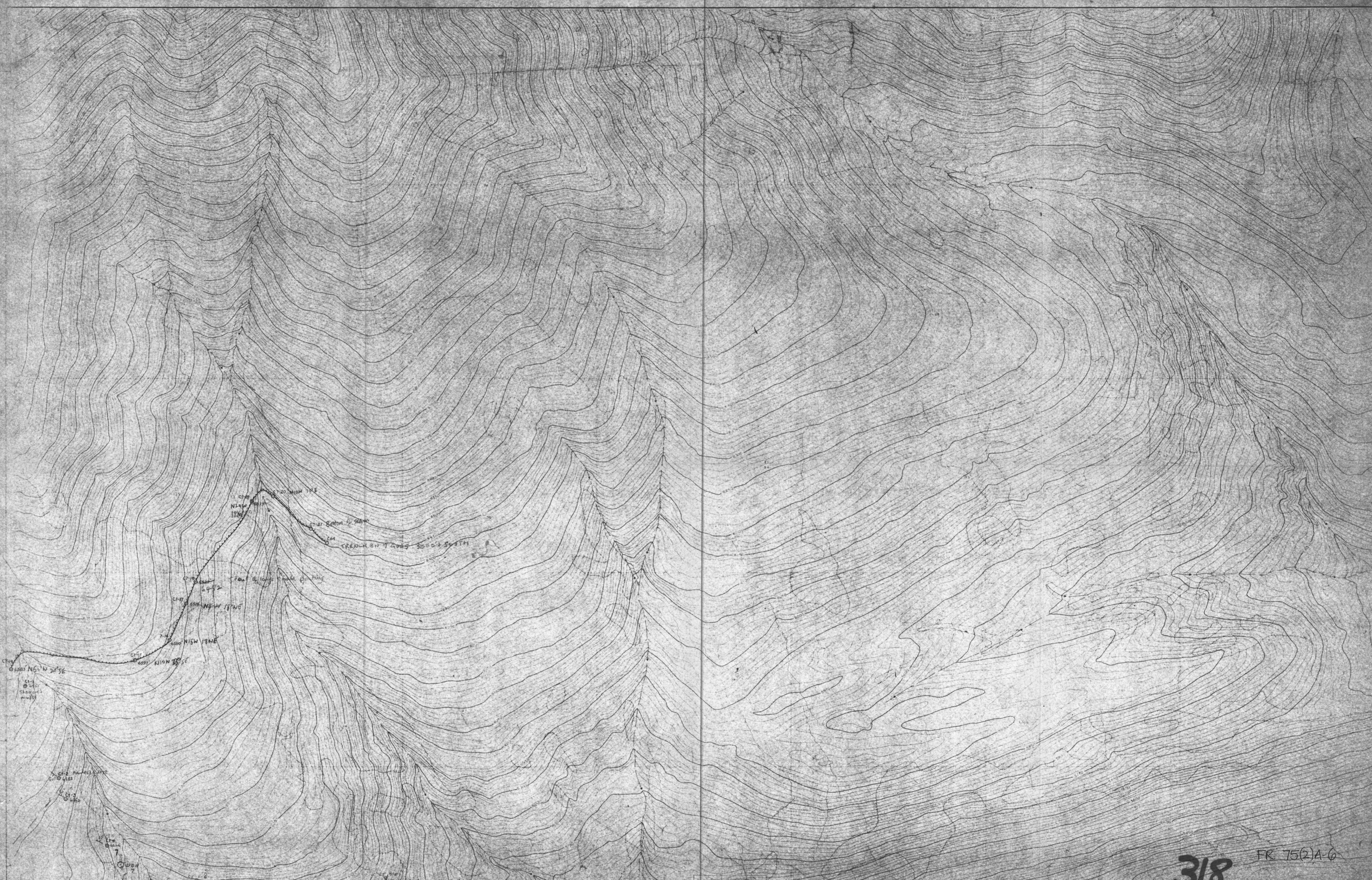
Job No. J. 813.001	Topographic compilation by McELHANEY SURVEYING & ENGINEERING LTD.	Function FORDING COAL	Scale 1 inch to 200 Feet
Drawing No. FCO A 26	Revision	Activity GEOLOGY	Drawing No. FCO A 26
Reference	Reference	Section SEAM OUTCROP SURVEY	Revision
Issued to	Revisions	Job TOPOGRAPHICAL MAP	KEY MAP
Job No. 05390-11	No. Made by Date Description	Engineering	
		Drawn by	
		Checked by	
		UPDATED MAP	
		As of July, 1975	
		NOTE: THIS DRAWING SUPERSEDES PREVIOUS SHEET OF SAME NO.	




318

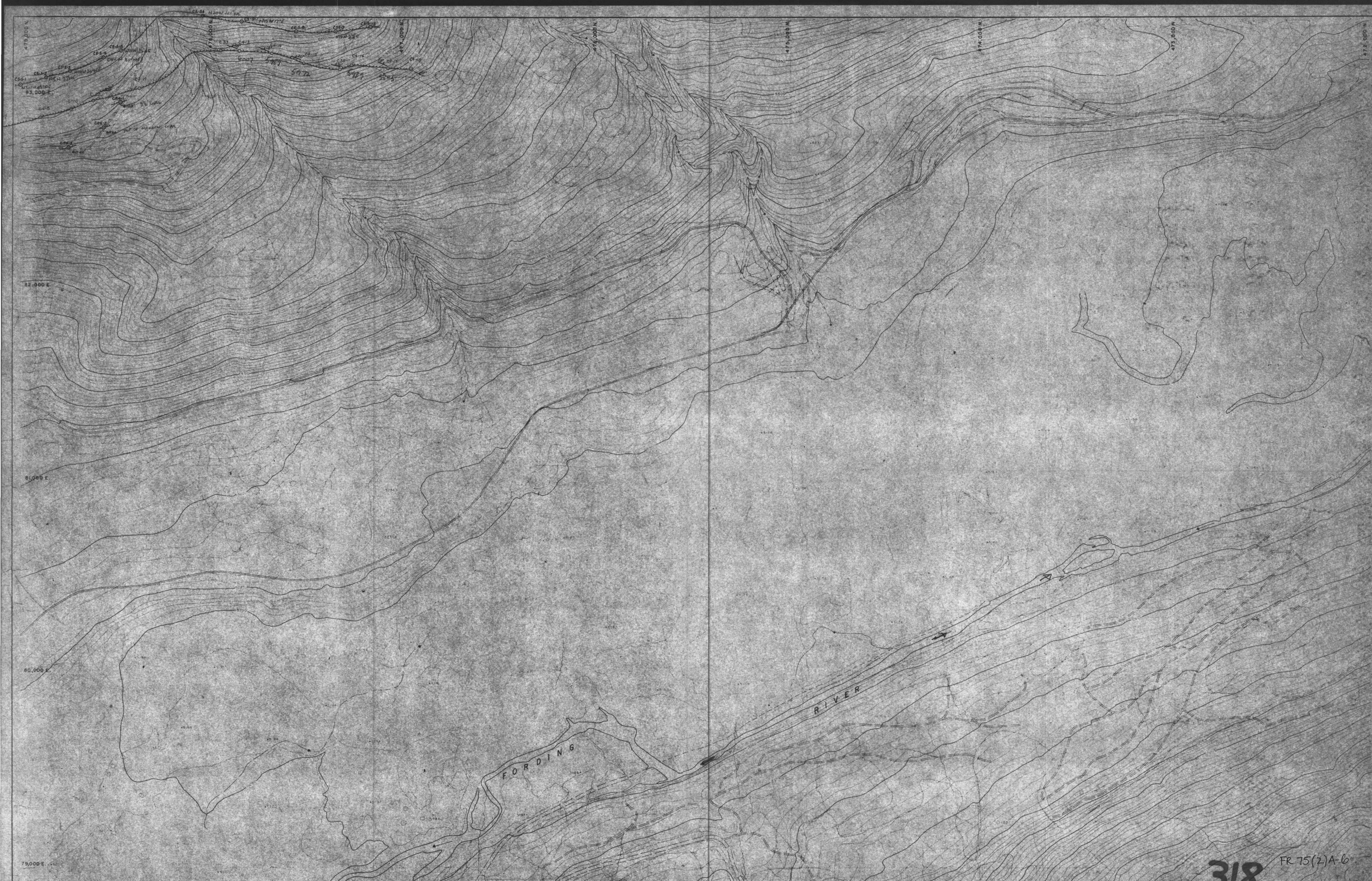
FR 75 (2) A-6

Job No. J. 813.001		Topographic compilation by McELHANNY SURVEYING & ENGINEERING LTD.		AND PETROLEUM RESOURCES		Drawn by Checked by Design Eng.		Function Activity Section Job		Scale Drawing No.	
FCO A 27		Job No. 05390-11		Reference		Engineering		EORDING GOAL PROJECT COMPLEX MINING AREA TOPOGRAPHICAL MAP		1 Inch to 200 Feet FCO A 27	
Revisions		Issued to		Description		UPDATED MAP As of July, 1975		KEY MAP			



318 FR 75(2)A-6

Job No. J. 813.001	Topographic compilation by McLHANNAY SURVEYING & ENGINEERING LTD	Scale 1 inch to 200 Feet
Drawing No. FCO A 30	Reference	Job No. 05390-11
Revisions	No. Made by Date Description	Function FORDING COAL
		Activity Geology
		Section Seam outcrop survey
		Job TOPOGRAPHICAL MAP KEY MAP
		Engineering 
		Updated Map As of July, 1975 <i>PC</i>



318 FR 75(2)A-6

Job No. J. 813.001	Topographic compilation by
Drawing No. FCO A 31	McELHANNAY SURVEYING & ENGINEERING LTD.
Revision	Issued to
Reference	Reference
Job No. 05390-11	

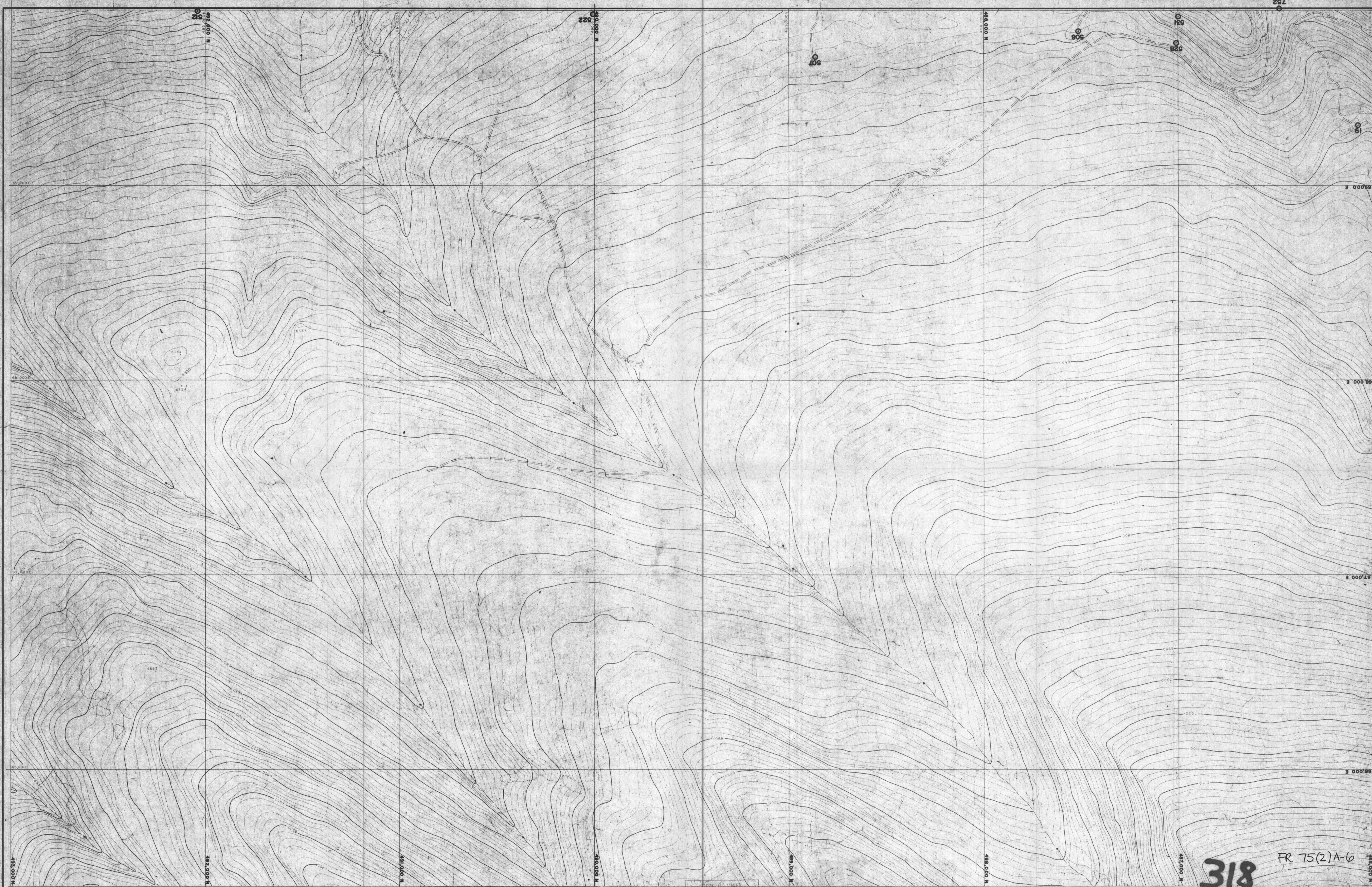
No.	Made by	Date	Description
			ROADS UPDATED

Drawn by
Checked by
UPDATED MAP
As of July, 1973

Engineering

Function: Geology
Activity: Seam outcrop survey
Section: MINING AREA
Job: TOPOGRAPHICAL MAP
KEY MAP

Scale: 1 inch to 200 feet
Drawing No. FCO A 31
Revision



318 FR 75(2)A-6

Job No. J.
Drawing No.

Date of Photography - Oct 14, 1970
McELHANNAY SURVEYING & ENGINEERING LTD.
Job No. 05390 - 16

Issued to

Reference

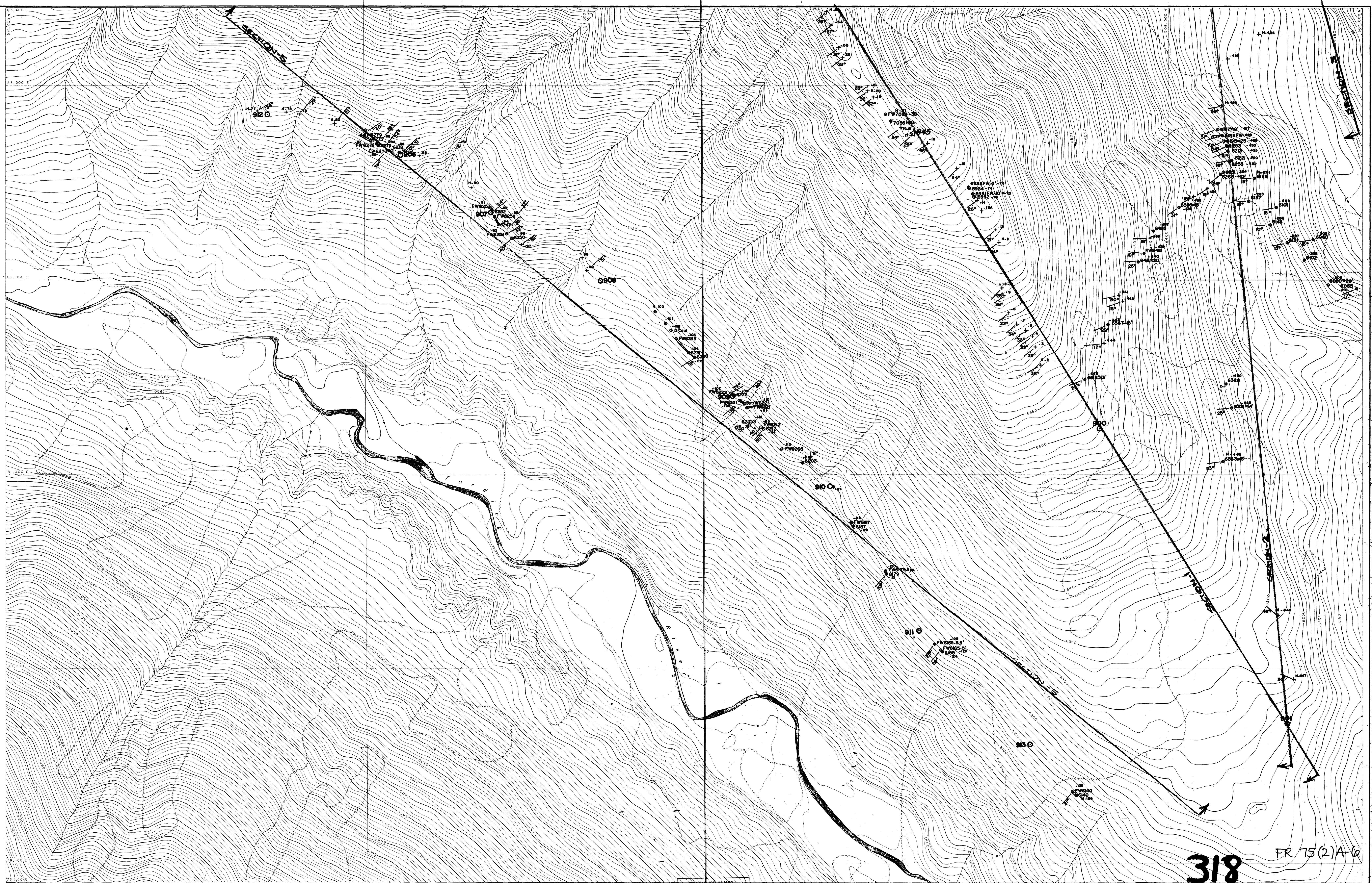
Revisions
No. Made by Date Description

AND PETROLEUM RESOURCES
Revised AUG 10 1975
Drawn by
Checked by
UPDATED MAP
As of July, 1975

Engineering
Domingo

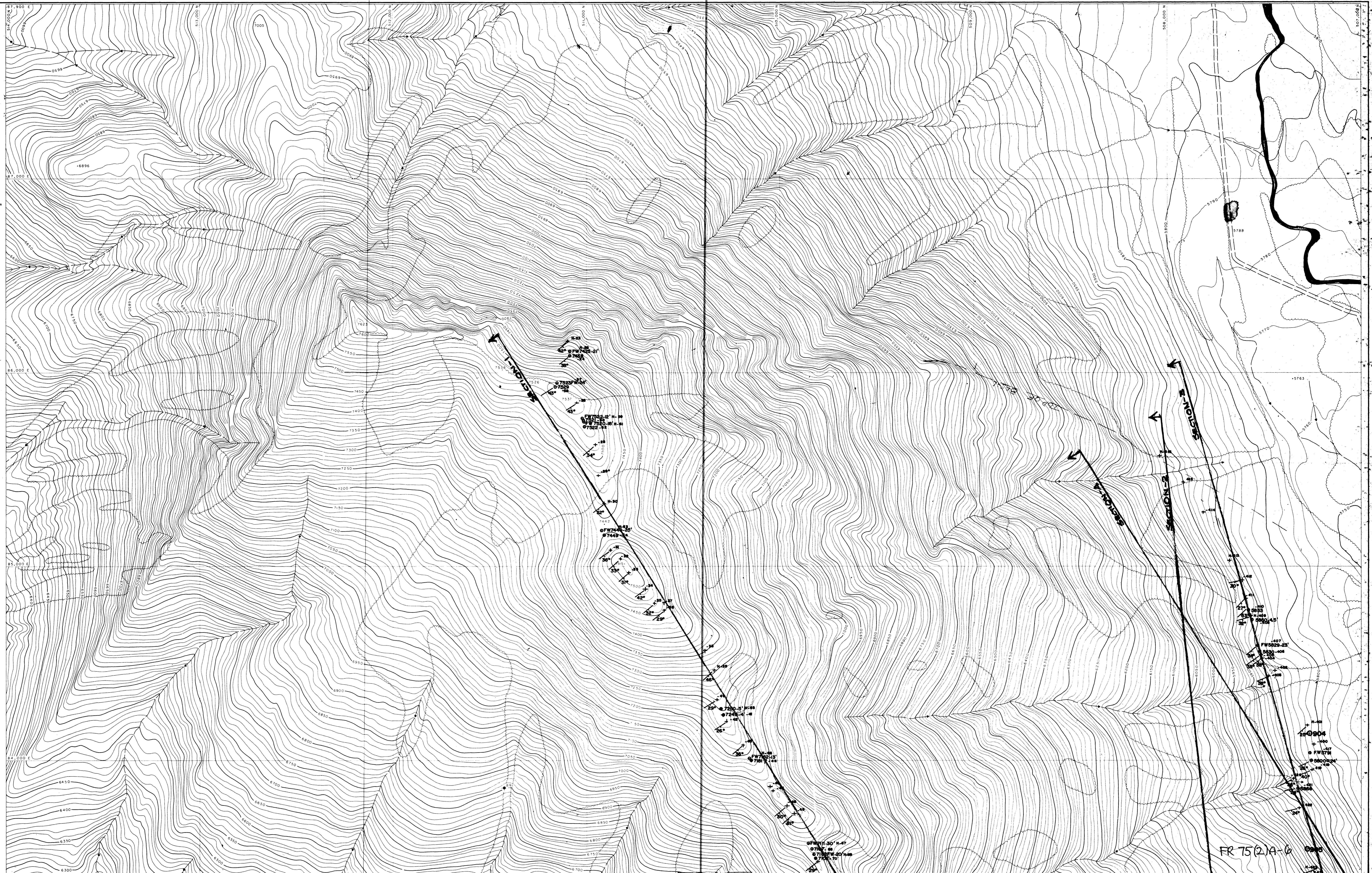
Function GEOLOGY
Activity DRILL HOLES, SEAM OUTCROP
Section UPPER GREENHILLS
Job

Scale 1 Inch to 200 Feet
Drawing No. FCB A 36
KEY MAP



318 FR 75(2)A-6

Job No. J.	Topographic compilation by	Engineering	Function	Scale 1" = 200'
Drawing No.	McELHANNEY SURVEYING & ENGINEERING LTD. Job No. 05894-2	Command	Activity	Drawing No.
Reference	Issued to	Section	Job	Revision
Revisions	No. Made by Date Description	KEY MAP		41
AND PETROLEUM RESOURCES Rec'd Atty - 3 1975		UPDATED MAP As of July, 1975		SEAM OTC SURVEY - GEOLOGY



Job No. **J.**
 Drawing No. _____
 Revision _____

Reference
 Topographic compilation by
 McELHANNEY SURVEYING & ENGINEERING LTD.
 Job No. 05894-2


Issued to _____

Reference

Revisions

No.	Made by	Date	Description

AND PERTINENT REQUIREMENTS
 Rec'd AUG - 8 1975
 Drawn by
 Checked by
 Design Eng.

Engineering


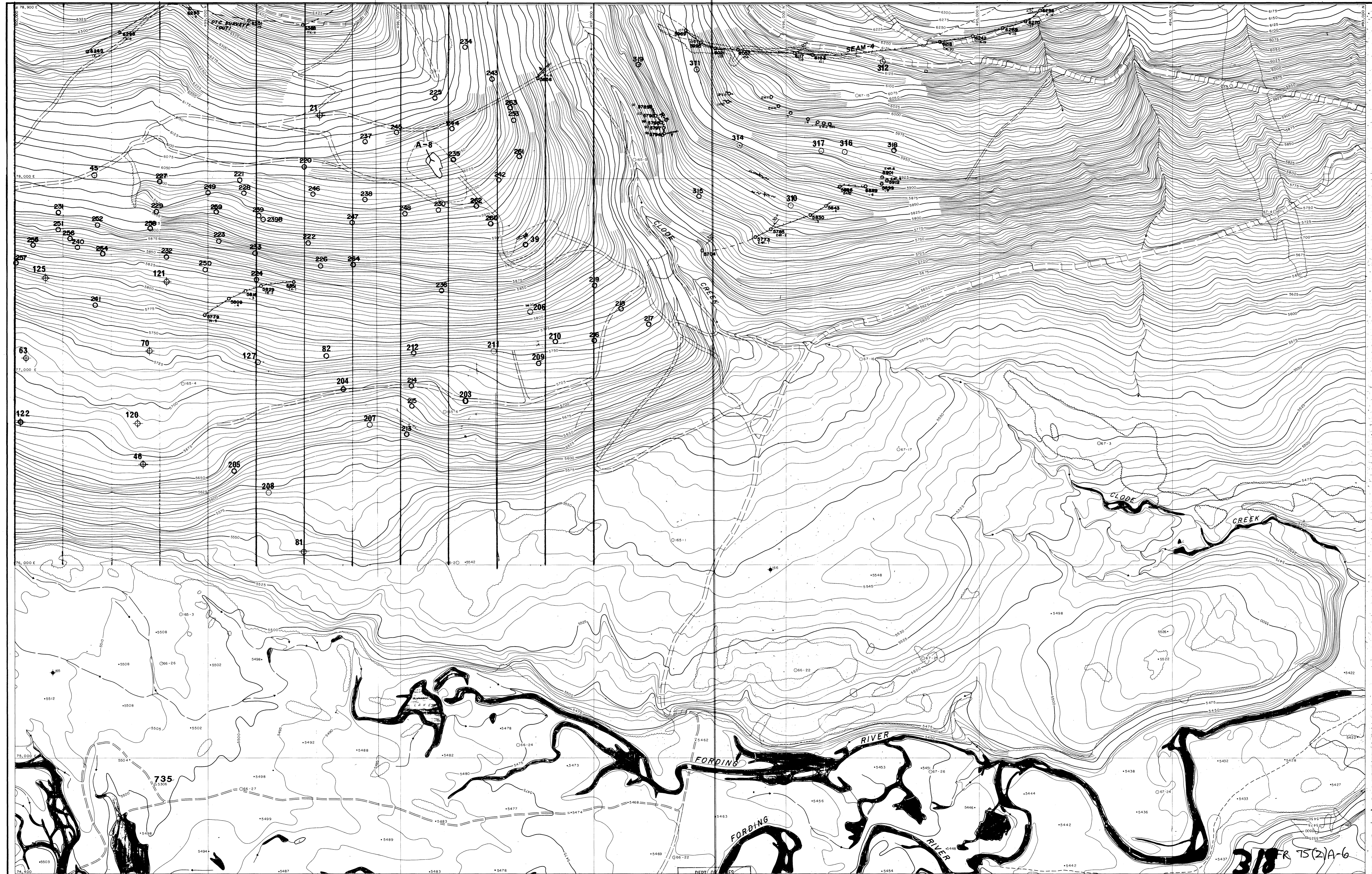
Function
 Activity
 Section
HENRETTA
 Job

Scale 1" = 200'
 Drawing No. **318**
 KEY MAP
 23
 24
 41
 23

Revision
42
 SEAM OTC SURVEY - GEOLOGY
 210-0650

UPDATED MAP
 As of July, 1975

FR 75(2)A-6



318 75(2)A-6

Job No. J.
Drawing No. _____
Revision _____


Topographic compilation by Lockwood Survey Corp.
ation from aerial photography flown in 1968
Fair drawings by:
McELHANNAY SURVEYING & ENGINEERING LTD.
Job No. 05390-3

LEGEND
Seam 'B' _____ Seam 4 _____
Seam 'D' _____ Seam 5 _____
Seam 'E' _____ Seam 7 _____

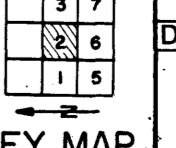
ISSUED TO _____
No. Made by Date Description

DEPT. OF MINES
AND PETROLEUM RESOURCES
Rec'd AUG 3 1975

Drawn by _____
Checked by _____
Design Eng. _____
Asst. _____
UPDATED MAP
As of July, 1975

Engineering 

Function GEOLOGY
Activity DRILL HOLES SEAM etc
Section TURNBULL
Job _____

Scale 1 Inch = 200 Feet
Drawing No. _____ Revision _____
KEY MAP  2