

OPEN FILE

FORDING RIVER OPERATIONS
SUMMARY REPORT
1978 COAL RESERVE DEVELOPMENT PROGRAM
March 28, 1979

K - FORDING RIVER

Submitted by: D.L. Johnston, P. Eng.,
Mine Manager
Fording River Operations
P.M. Daignault,
Senior Mine Geologist
Fording River Operations

Prepared by: K.A. Komenac,
Exploration Geologist
Fording River Operations

Coal License Owners & Numbers

Fording Coal Limited: 314-334, 336-340, 342-344, 348, 353, 355-364,
510, 511, 554-560, 801-804, 943, 944, 964,
3899-3903.
Total 29,935 acres/12,114.3 hectares

Cominco Limited: 539, 541, 543, 545, 547, 549, 551, 553
Total 3,200 acres/ 1,295 hectares

Coal Lease Owner and Numbers

Fording Coal Limited: Coal Lease Nos. 1 & 2
Total 8050 acres/3258 hectares

GEOLOGICAL BRANCH ASSESSMENT REPORT

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V. APPENDICES

* 1. Technical Reports

FOR ANALYSIS DATA

REFER TO CONFIDENTIAL

COAL ANALYSIS FILE

- a) Petrographic Analysis - Cascade Coal Petrography Limited
- b) Gieseler Fluidity Tests - Birtley Coal & Minerals Testing

- * 2. Copies of drillhole logs including assays & washability tests.
- 3. Copies of geophysical logs.
- * 4. Copies of diamond drill core structural logs.
- 5. Copies of Invoices for Supporting Cost Statement.

* Note: Core - logging and coal sample analysis for several drillholes is still in progress. Necessary information will be forwarded when available.

Note: This report is comprised of three volumes:

Volume 1: Sections I, II, III, IV

Volume 2: Sections V - Appendix 1

Volume 3: Sections V - Appendixes 2,3,4.5
(Government copy only)

LIST OF ILLUSTRATIONS

<u>Illustration No.</u>	<u>Description</u>
1	General Geology and Coal Properties Map. 1:50,000 Scale Index Map
2	1978 Exploration, Development and Geological and Environmental Assessment Program. 1"=1000' Scale General Geology Map
3	1978 Geological and Environmental Assessment Program. 1"=1000' Elk Valley General Geology Map.
4	Columnar Sections - Elk Valley Diamond Drill Holes. 1"=1000' Vert. Scale.
5	1978 Exploration & Development Greenhill South - Burnt Ridge Area. Map 1"=200' Scale
6	Geological Section 480,000 N. 1"=100' Scale Greenhills S. Area
7	Geological Section 481,750 N. 1"=100' Scale Greenhills S. Area
8	1978 Exploration & Development Map 1:2000 Scale Greenhills N. Upper Seams Area
9	Geological Sections. 148400 N, 148950 N, & 149300 N. 1:1000 Scale Greenhills N. Upper Seams Area
10	1978 Exploration Map ✓ 1"=200' Lake Mt. N. Area
11	Section - G, & Longitudinal Section 1"=200' Lake Mt. N. Area
12	1978 Exploration, Development & Geological Assessment Program Map 1"=200' Turnbull Mt. & West Turnbull Area
13	Geological Section 500,500 N. 1"=100' West Turnbull
14	Geological Section 503,000 N. 1"=100' West Turnbull
15	1978 Exploration & Development 1"=200' Clode Pit
16	Geological Section 495,750 N. 1"=100' Clode Pit
17	Geological Section 496,500 N. 1"=100' Clode Pit

FORDING RIVER OPERATIONS

SUMMARY

1978 EXPLORATION AND DEVELOPMENT PROGRAM

I. INTRODUCTION

Fording River Operations 1978 Coal Reserve Development Program included an extensive drilling program plus a selective geological and topographical mapping program. With the exception of 3 diamond core holes drilled in the Elk Valley and 3 centre-return rotary holes drilled in the Brownie-McQuarrie Creek Areas, all work was done within a 3 mile radius of the plant site. Fifty percent of the work was to upgrade geological information in areas for which there is already a pit design; fifty percent was outside of present coal reserve boundaries.

The majority of the drilling was done by contractors, during the period May 2 to December 4. Fill-in and exploration drilling by the Geology Department's Mobile B-50 rotary drill continued throughout the year.

This report covers results of the 1978 Exploration program of Fording River Operations and forms the basis for work credits claimed for the Coal License requirements under the Coal Act (1974), specifically Sections 19, 21, and 23.

II. SUMMARY

One hundred and thirty-two holes were completed for a total of 67,282 ft./20,508m.: 17,874 ft./5448m. of drilling was in 15 HQ Diamond core holes, 44,025 ft./13419m. in 84 centre-return 4 7/8 in. dual-wall rotary holes, and 5383 ft./1641m. in 33 conventional 3 7/8 in. diameter single-wall rotary holes. Coal analysis was done for all significant seams at Fording's Process Plant Laboratory. Coal seam interval samples were analysed for % Ash and FSI. Weighted seam composites were tested for Proximate Analysis, FSI, % Sulphur and calorific value. Washability tests were done for all seam cores. The washed products from seam cores, plus selected washed seam composites from rotary holes were sent to outside laboratories for petrographic analysis, fluidity, dilatation, hardness, ultimate analysis and ash analysis tests. All drillholes were down-the-hole geophysically logged using either the gamma ray or gamma ray-neutron method. All diamond core holes plus the deeper rotary holes were directionally logged. In addition, the three diamond core holes in the Elk Valley were logged with caliper, sidewall densilog, and focused beam methods, to test the effectiveness of these methods in this area.

Pre-logging of access road right-of-ways and drillsite locations was undertaken on all timbered areas prior to drilling. All merchantable material was salvaged and sold. Non-merchantable material was slashed and buried.

The contractors which had a major involvement in the 1978 Exploration and Development Program are briefly summarized as follows.

1. SDS Drilling Limited - centre-return (dual wall) rotary drilling. Equipment used included: One Gardner-Denver 1,000 HD Drill mounted on a Nodwell FN110 carrier; one Sanderson Cyclone TH70 drill mounted on a Kenworth Tandem; and one Gardner-Denver 1700 Drill, with mud pump and tanks, mounted on an International truck. Pipe carriers for the three drills were a Nodwell FN800 and two Kenworth Tandems.
2. Connors Drilling Limited - Diamond core drilling (HQ). Equipment used included: 1 Boyles BBS-56A Diamond drill and two Longyear S-38 diamond drills.
3. G.J. Ackles Limited - water haulage to supply the diamond drills.
4. Latka Contracting - pre-logging access road and drillsite locations.

5. Rudy A. Johnson Contracting Limited - road building, drillsite construction, towing drills and equipment with a Caterpillar D-8K tractor.
6. Roke Oil Enterprises Limited - down-the-hole geophysical logging.
7. Cascade Coal Petrography Limited - Petrographic analysis.
8. Birtly Engineering Limited - Various coal tests including fluidity, dilatation, hardness, ultimate analysis, and ash analysis.

Fording Geologists and summer students mapped the various rock outcrops and seam exposures, did the geological and structural logging and colour photography of diamond drill core, and installed and monitored the piezometers on various drillholes. Staff surveyors provided the necessary mapping control and located the drill holes.

Summary statements of work done and the results obtained are included for each of the exploration areas. Also included are geophysical logs, diamond and rotary hole geological logs, diamond drill core structural logs, technical reports on various laboratory tests, together with plans, representative sections, and general geological maps showing the location of drill holes and access roads.

III. INDIVIDUAL AREA PROGRAMS AND RESULTS

A. Greenhills Area

Total drilling in the Greenhills area included 4615 ft./ 1407m. in 3 diamond core holes, 20,504 ft./ 6250m. in 43 centre-return rotary holes and 4370 ft./ 1332m. in 29 conventional rotary holes.

The original proposal for 24 centre-return rotary holes and 3 diamond core holes was designed to obtain coal quality and seam definition information for the medium and high volatile coal in this area. The 3 diamond core holes also provided continuity information for seams "B" to "I" plus structural data from this stratigraphic interval. All of these holes (DDH1120 to 1122; RH1123 - 1146 inclusive) were completed. Petrographic analysis, fluidity tests, and washabilities were done on all coal cores. Petrography and fluidity tests were also done on selected seam composites from rotary drill samples.

In addition to the originally proposed program, 19 centre-return rotary holes (RH1139a, 1147 - 49 inclusive and 1160 - 1174 inclusive) for 8425 ft./ 1256 m. were completed in the South Greenhills and 29 conventional rotary holes (RH 1048, 1103 to 1111 inclusive & 1200 - 1210 inclusive) for 4370 ft./ 1332m. were completed in the South Greenhills and K seam areas.

Results from the diamond drilling program established with one notable exception, the continuity of seams Eu, El, D, and B for several hundred feet down-dip from existing and designed pits. In hole 1122, B seam has been totally removed by normal faulting. Two major faults were encountered in the bottom third of this hole, one which displaces B seam, and a lower fault which displaces much of the basal sandstone unit with the shale beds of the Fernie formation.

The results of the rotary drilling program are summarized as follows:

1. High volatile coal areas.

Holes that penetrated the I,J,K, seam interval show that with the exception of I seam, which has a reasonably consistent thickness (10 - 15 ft./ 3.0 - 4.5 m.), the high volatile coal seams in the Greenhills are extremely variable in thickness and location with respect to each other. "J" seam is generally split into two seams which vary in thickness from 3 ft./ 1m. to 10 ft./ 3m.. Seam K, although quite variable in South Greenhills, is reasonably uniform in the North, maintaining a thickness of 15 ft./ 4.5m. to 22 ft./ 6.7m. Extensive drilling for seam "K" is anticipated for the future.

2. Medium volatile coal areas.

The majority of holes drilled in the South Greenhills, penetrated the G and H seam horizon. Results show these seams to maintain consistent thicknesses (ave. 25 ft./ 7.6m. and 20 ft./ 6.1m. respectively) throughout the area. "G" seam reaches thicknesses up to 35.0ft./ 10.7m. in several locations. At least two zones of thrust faulting with displacements in the order of 50 ft./ 15m. were identified, causing repetition of the seams along the fault planes.

The seam definition and coal quality information collected for seams "G & H" was sufficient to allow for the design of additional Truck/Shovel - Dragline pits in South Greenhills. The resulting increase to Proven coal reserves was 1.8×10^6 L.T.R.C.

3. Low-Medium volatile coal areas.

Holes drilled in the Burnt Ridge area provided "fill-in" information for seam "B" to "F" within the presently designed dragline mining area. These holes were precisely located in order to upgrade the interpretation on the effects that several zones of thrust-faulting have on the coal seams. In addition, several holes drilled in the south-east corner of Burnt Ridge, provided information on the location and effects of the major Ericson fault.

Redesign and extensions to previous designs, based on the information gained from fill-in rotary drilling on Burnt Ridge, resulted in a net increase of 0.4×10^6 LTRC to proven reserves. These additions were primarily from seams D, Eu, E1 & F.

References

- (i) Illustration No. 5 - 1978 Exploration & Development
Greenhill South - Burnt Ridge Area
- (ii) Illustration No. 6 - Geological Section 480,000 N.
- (iii) Illustration No. 7 - Geological Section 481,750 N.
- (iv) Illustration No. 8 - 1978 Exploration & Development Map
1:2000 Greenhills N Upper Seams
- (v) Illustration No. 9 - Geological Sections 148400 N,
148950 N, & 149300 N.

Cost of Greenhills Program \$374,878.77

B. Lake Mountain

Nine of a proposed 10 centre return rotary holes were drilled (4921 ft./ 1500m.) on the western dip-slope face of Lake Mountain. All holes were logged using the gamma-neutron method. Drilling was initiated to investigate encouraging intersections obtained from preliminary drilling in 1977. Drillhole results show that the seams in the "H" to "K" interval have been severely thinned. (less than 5 ft.)

A limited field mapping program, confined primarily to road cut exposures was conducted. Bedding attitudes showed marked change in dip direction from a north-west dip in the southern region to almost due north in the northern region. Consequently, the northernmost drillholes penetrated rock units that are stratigraphically above the coal bearing interval of Kootenay formation.

To minimize environmental damage and reclamation costs, all right-of-ways were cleared prior to road and drillsite construction.

References

- (i) Illustration No. 10 - 1978 Exploration Map
- (ii) Illustration No. 11 - Section - G, & Longitudinal Section

Cost of Lake Mountain Program \$72,752.57

C. Turnbull Area

Total drilling on the Turnbull Mountain and Fording Valley bottom areas included 9,307 ft./2837m. in 9 diamond core holes, 10,252 ft./3218m. in 18 centre-return rotary holes, and 495 ft./151m. in 2 conventional rotary holes.

Piezometers were installed in the diamond drill holes to monitor the water pressures at several horizons. The core was structurally logged to provide essential data on ground stability. Washability tests were done on all seam cores, and selected cores were tested for petrography and fluidity.

The rotary drill holes supplied information on fault locations coal quality, and seam location, continuity and thickness. This information was required to assist in the developing of seam contours in several areas of the proposed Turnbull Pits and for fill-in between diamond drill holes on the valley floor.

Results from the drilling program on Turnbull Mountain show the seam and fault locations to be essentially as projected.

Drill holes located on the Fording Valley bottom immediately west and north of Turnbull Mountain intersected seams below the Major Thrust Zone. Previous work in this area was very limited and confined to the southern half of the proposed West Turnbull Pit.

Some of the significant results from this program are as follows:

1. The major coal seams are several hundred feet deeper than projected.
2. The north plunging Turnbull Anticline which begins to develop in the Southern Area, continues and increases in magnitude to the north.
3. The Number 2 Thrust Zone, defined in 1977 as occurring on the west limb between seams R5 and R4, is much more extensive in stratigraphic influence to the north. This zone affects the entire sequence below seam R7u causing the R7u to R5 interval to be doubled in several locations. Thrust faulting has caused severe splitting, thinning, and repeating of seam R4 in almost all areas. The R7u to R4 stratigraphic interval has been increased by several hundreds of feet.
4. The alluvial and glacial overburden is often in excess of 100 feet deep.
5. Several drillholes encountered significant artesian water pressures and continued to flow for several months after drilling was completed.
6. Diamond drill holes #283 & 284, located on the Henretta Valley floor to the east of the Fording Valley, established some tentative correlations between information on Henretta Mountain - (pre 1975) and the Fording Valley - Turnbull Mountain Area.

All drill holes were geophysically logged using the gamma ray-neutron method. Directional logs were run in all holes drilled in excess of 700 feet.

All access roads right-of-ways and drillsites located in forested areas were logged prior to construction. Merchantable timber was recover and non-merchantable material was slashed and buried. Many drillsites were reclaimed and re-seeded shortly after completion of drilling.

References

- (i) Illustration No. 12 - 1978 Exploration, Development & Geological Assessment Program Map
- (ii) Illustration No. 13 - Geological Section 500,500 N.
- (iii) Illustration No. 14 - Geological Section 503,000 N.

Cost of Turnbull Program \$459,601.49

D. Clode Pit

Eleven centre-return rotary holes (7,751 ft./2363m.) and 2 conventional rotary holes (518 ft./158m.) were drilled from the pit floor to determine the continuity of seams R7, R5, and R4. These seams are below the major thrust fault zone which defines the bottom limit of Clode Pit as presently designed.

Drilling results show these seams to be reasonably continuous both laterally and down dip, except for the up-dip areas where the seams are affected by the Major Thrust Zone. Near normal seam thicknesses are maintained.

Large scale open pit mining for the repeat seams is not economically feasible, although selected areas may be feasible for mining on a small scale, as minor extensions to the present pit design.

This area may have potential for underground mining and future drilling is anticipated to determine this potential.

References

- (i) Illustration No. 15 - 1978 Exploration & Development
- (ii) Illustration No. 16 - Geological Section 495,750 N.
- (iii) Illustration No. 17 - Geological Section 496,500 N.

Cost of Clode Program \$26,548.06

E. Elk Valley Area

A program of 3 deep diamond core holes was instigated to assess the 8 coal licenses (Cominco Ltd., License group 55, C.L. 539 - 553 inclusive) held in the Elk Valley area.

Three diamond core holes (3252 ft./1205m) were completed over a strike length of approximately 5,000 ft./1525m. south of the Britt Creek substation. All holes were collared along the Kan-Elk powerline road at the western base of the Greenhills range and drilled through Kootenay formation strata, of the west limb of the Greenhills syncline. An additional hole, collared on the Elk River flood plain was abandoned in unconsolidated overburden at 215 ft./66m.

Although significant coal seams were intersected in all three holes, correlation between holes is made difficult by the long distance between holes and apparent structural complexities. Any correlation between these holes and holes drilled on the east limb area is not apparent at this time.

Basal Kootenay sandstone (Moose Mountain Member) was not reached in any of the holes due to excessive water pressures and hole caving at depth. Artesian conditions were encountered and holes continued to flow for varying time periods after cessation of drilling.

All cores were structurally and stratigraphically logged. Coal seam cores were subjected to various tests, including washability, proximate analysis, sulphur & FSI determination, petrographic analysis and fluidity tests. Geophysical logs for each hole included gamma ray-neutron, directional, caliper, sidewall density, and focused beam.

References

- (i) Illustration No. 3 - 1978 Geological & Environmental Assessment Program
- (ii) Illustration No. 4 - Columnar Sections _ Elk Valley Diamond Drill Holes.

Cost Elk Valley Program \$129,028.30

F. Brownie - McQuarrie Creek Area

The exploration work done in the Brownie-McQuarrie Creek Area, in conjunction with an on-going environmental impact study, was initiated to assess the five new coal licenses (Fording Coal Limited CL 3899 - 3902 inclusive) granted in 1978.

A total of 3 centre-return rotary holes were drilled (597ft/182m.); one in the Kilmarnock Creek Valley near the confluence of Brownie Creek, and 2 along an existing seismic road in the McQuarrie Creek Valley.

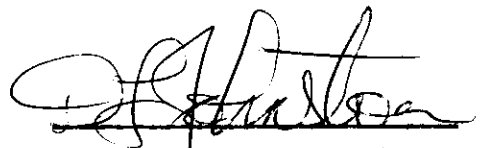
Drill chip samples together with gamma-neutron logs, showed the strata in this area to be a very hard, cherty, dolomitic sandstone, most likely from the Spray River Formation.

Reference

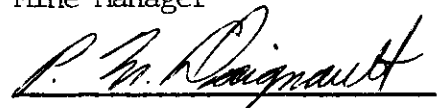
- (i) Illustration No. 2 - 1978 Exploration, Development & Geological & Environmental Assessment Program.

Cost of the Brownie-McQuarrie Creek program \$78,551.68

Submitted by:

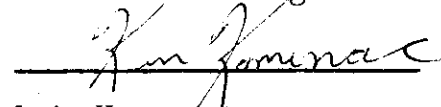


D.L. Johnston, P.Eng.
Mine Manager



P.M. Daignault
Senior Mine Geologist

Prepared by:



K.A. Komenac
Exploration Geologist

:lh

IV VALUATION OF WORK

A. SUMMARIES

1. TOTAL EXPENDITURES PER TYPES OF WORK

<u>Drilling</u>	<u>Dozer Work</u>	<u>Radiation Logs</u>	<u>Sample Processing</u>	<u>Geological Supervision & Mapping</u>
\$819,291.76	\$70,345.54	\$56,879.11	\$18,245.00	\$17,810.10
<u>Camp Costs</u>	<u>Truck Rentals</u>	<u>Misc. Equip. & Supplies</u>	<u>Core Storage</u>	<u>Reclamation Logging</u>
\$51,813.53	\$14,709.21	\$34,590.26	\$22,715.91	\$22,552.45
<u>Surveying \$ Topographic Maps</u>				
\$12,408.00				
TOTAL EXPENDITURES		\$1,141,360.87		

2. PRORATED EXPENDITURES PER INDIVIDUAL LICENSES

LICENSEE	LICENSE GROUP	INDIVIDUAL LICENSE NO.	EXPENDITURES
Cominco Ltd.	55	CL 541	56,387.65
Cominco Ltd.	55	543	71,766.11
Fording Coal Ltd.	197	CL 340	64,749.79
Fording Coal Ltd.	198	CL 336	84,181.93
Fording Coal Ltd.	Ungrouped	CL 3900	23,652.59
Fording Coal Ltd.	Ungrouped	CL 3901	3,371.25
Fording Coal Ltd.	Ungrouped	CL 3902	3,371.25
Fording Coal Ltd.	Ungrouped	CL 3903	47,616.59
<hr/>			
TOTAL			355,097.16

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

ON-PROPERTY COSTS: For period from January 1 to December 31, 19 78

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

	Average Number of Employees	Average Rate	Average Number of Days	Amount
Professional and technical				
Machine operators and support				
Miners Reclamation -				3,493.02
Fording				
Other Fording Personnel				17,810.10
Total operator's costs \$				21,303.12

2. CONTRACTORS AND CONSULTANTS:

Name	Service	Contract Amount
Refer to attached List		
"Contractors & Consultants"		1,017,238.14
Total contractor and consultant costs \$		1,017,238.14

3. EQUIPMENT AND INSTRUMENTS USED: Owned _____ Rented _____

Type	Rented From	Amount
Total equipment and instrument rentals \$		

4. FIELD CAMP COSTS:

	Amount	
Food - Cal Van Canus Catering	51,813.53	
Accommodation - Services Limited		
Fuel		
Other		
Total field camp costs \$		51,813.53

5. SAMPLING, ANALYSIS, AND TESTING:

Service	Performed by	Amount
Petrographic	Cascade Coal	
	Petrography Limited	
See "Contractors & Consultants"	(18245")	
Totals, samplings, analysis, and testing \$		

6. SUPPLIES AND MATERIALS COSTS:

	Amount	
Process supplies Poly Bags Wire Ties, Tags, Etc.	3,790.19	
Core Storage Facilities	22,715.91	
Operating and maintenance supplies		
Office and technical supplies Repairs widco, truck repairs	2,221.54	
Other supplies and materials Drill casing, supplies, repairs	7,828.96	
Total, supplies and materials \$		36,556.60

7. TRANSPORTATION COSTS (Ground transportation details):

Vehicles	Owner	Rental Rate	Amount
2 - 3/4 ton 4x4's			
	Rentway Canada Ltd.,		\$14,449.48

Air support details:

Aircraft Type	Owner	Charter
.....
.....
.....

Total transportation costs \$ 14,449.48

8. RECLAMATION WORK:

Pre-Logging: See Consultants & Contractors \$

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

Number of Personnel	Number of Trips	Amount
.....

Total travel expenditures \$

Total costs \$ 1,141,360.87.

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

OFF-PROPERTY COSTS: Period from to, 19.....

- (a) Logistics and field support \$
- (b) Technical and feasibility studies \$
- (c) Preparation of reports \$
- (d) Supplies and services \$
- (e) Mobilization and demobilization of equipment \$
- (f) Travelling expenses \$

(Itemize)

Supporting Cost Statements Attached

Total \$

Amount

Total supporting costs \$

SUMMARY

On-property costs \$ 1,141,360.87

Off-property costs \$

Total costs \$ 1,141,360.87

Statement of costs verified by

(Date)

(Signature and position)

ATTACHMENT TO "VALUATION OF WORK: COST STATEMENT"

2. CONTRACTORS AND CONSULTANTS

<u>NAME & ADDRESS</u>	<u>SERVICE</u>	<u>CONTRACT AMOUNT</u>
Roke Oil Enterprises Ltd., 516 Moraine Road, N.E. Calgary, Alberta T2A 2P2	Radiation Logging	\$ 57,788.62
SDS Drilling Limited 4636 - 1 Street, S.E. Calgary, Alberta T2G 2P2	Drilling Contractor	\$445,767.24
Connors Drilling 205 - 1201 W. Pender St., Vancouver, B.C.	Drilling Contractor	\$373,524.52
C-II Industries Ltd., Box 1274 Ferne, B.C. VOB IMO	Bulldozer Rental	\$ 8,425.15
Cascade Coal Petrography Ltd., 588 Cleveland Cres., S.E. Calgary, Alberta T26 4A9	Sample Processing	\$ 18,245.00
Rudy A. Johnson Contracting Ltd., R.R. 1, Sparwood, B.C. VOB 2G0	Bulldozer Rental	\$ 67,458.00
G.S. Ackels Ltd., Box 1617 Sparwood, B.C. VOB 2G0	Water Haulages	\$ 7,680.00
Bothemley Contracting Box 352 Elkford, B.C. VOB IHO	Bulldozer Rental	\$ 2,782.00
Latka Contracting Box 457, Blairmore, Alberta TOK OEO	Reclamation Logging	\$ 9,674.62
BC Research		\$ 13,484.99
Crowsnest Helicopters Ltd., Sparwood, B.C.		\$ 2,358.00
McElhanney Surveying & Engineering Ltd. 200-1200 W. Pender St., Vancouver B.C. V6E 2T3		\$ 10,050.00
TOTAL		\$1,017,238.14

INVOICE LIST

<u>COMPANY</u>	<u>INVOICE NOS.</u>
Ackels, G.J. Limited	1102, 1146
Advance Plastics Limited	008366, 007145, 007561, 008066
B.C. Government	1680, 026340
Bothamley Contracting	1
Cascade Coal Petrography Ltd.	1106, 1107, 1099
C-11 Industries Limited	41, 54, 35, 40, 55, 47
Connors Drilling Limited	8826, 8866, 8785, 8505, 8537, 8431, 8404, 8466, 8580, 8668
Cook's Pharmacy	1
Cal-Van Catering Services	1- 16 inclusive
Expense Account	1- 16 inclusive
General Fasteners Limited	14157
Johnson, Rudy A Contracting Ltd.	101, 102, 103, 104, 105, 107, 108, 119, 112, 116
Kodak Canada Ltd.	5103366D, 51024883, 51043677, 5100579-1
Kootenay Truck & Saw Service Ltd.	4597
Latka Contracting	021966, 49545
Lowen's Plumbing & Heating Ltd.	1335
Lens and Shutter	11911
Malkin and Pinton	881538CA-1
McGauley Redi-Mix	3258
Nelson Daily News	4856, 4262
Peerless Pipe & Equipment	C40914, C40916
Russel Sheet	044247, 043301
Roke Oil Enterprises Ltd.,	1467, 1476, 1493, 1489, 1437, 1435, 1432, 1403, 1336, 1317, 1330, 1289, 1416, 1303
Rentway Canada Ltd.	86773, 84344, 83141, 80811, 78364, 76062, 73840, 86774, 84345, 83142, 80812, 78365, 76063, 73841, 89215, 89216
Simplex Burcraft	7910, 7868
Tested Truss Systems	R0022-794
Thiessen Equipment Ltd.	3846

Invoice List (cont'd)

<u>COMPANY</u>	<u>INVOICE NOS.</u>
B.C. Research	27357
Crowsnest Helicopters Ltd.	1
McElhanney	9021349, 9021428

ATTACHMENT TO "SUPPORTING COST STATEMENTS"

Roke Oil Enterprises Ltd.	\$ 57,788.62
SDS Drilling Ltd.	\$ 445,767.24
Connors Drilling Ltd.	\$ 373,524.52
C-11 Industries Ltd.	\$ 8,425.15
Rudy A. Johnson Contracting Ltd.	\$ 67,458.00
G.J. Ackels Ltd.	\$ 7,680.00
B.C. Government	\$ 1,185.90
Cascade Coal Petrography Ltd.	\$ 18,245.00
Bothamley Contracting	\$ 2,782.00
Cooks Pharmacy	\$ 66.24
Cal Van (Canus) Catering Services	\$ 51,813.53
Kodak Canada Ltd.	\$ 48.20
Kootenay Truck and Saw Servicing Ltd.	\$ 422.84
Latka Contracting	\$ 9,674.62
Lowens Plumbing & Heating Ltd.	\$ 10.76
Lens & Shutter	\$ 87.91
Malkin & Pinton	\$ 206.64
McGauley Redi-Mix	\$ 230.69
Nelson Daily News	\$ 140.54
Peerless Pipe & Equipment	\$ 49.79
Russel Steel	\$ 5,781.58
Rentway Canada Ltd.	\$ 14,449.48
Simplex Burcraft	\$ 78.76
Tested Fruss Systems	\$ 336.44
Thiessen Equipment	\$ 184.80
BC Research	\$ 13,484.99
Advance	\$ 251.93
Crowsnest Helicopters Ltd.	\$ 2,358.00
McElhanney Ltd.	\$ 10,050.00
GRAND TOTAL	<hr/> <u>\$1,092,584.07</u> <hr/>

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE OR LOGGING DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
	----- 010		----- 020		----- 100	----- 200	----- 250	----- 300	----- 400	----- 500	----- 600	----- 700	----- 800	----- 900
JULY									Cost Coll. \$222.56					
AUGUST									Cost Coll. \$254.79					
SEPTEMBER									Cost Coll. \$39.48					
OCTOBER									Cost Coll. \$86.69					
NOVEMBER									Cost Coll. \$135.05					
DECEMBER									Cost Coll. \$70.33					
JANUARY									Cost Coll. \$65.64					
TOTAL														
						<u>GRAND TOTAL</u>		\$ 874.54						

CAPITAL COST CODE LISTINGS

C 3631 --- WEARY RIDGE

1978 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE LOGGING OR DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
	----- 010		----- 020											
APRIL					R. JOHNSON # 101	K. HANSEN EXPENSE ACC				CAL-VAN				R. JOHNSON # 101
					\$3,264.00	\$83.17				\$36.00				\$680.00
					C-11 IND. # 35	K. KOSAR EXP. ACC.				ROCKE # 043301				
					\$1,286.95	\$151.95				\$4789.22				
MAY	CONNORS # 8431	HICKELS # 1103	S. D. S. # 0280		C-11 IND. # 40	LENS & SHUTTER # 11911				CAL-VAN \$2,520.00				
	\$43,551.00	\$4,080.00	\$31,629.50		\$177.25	\$87.91				CAL-VAN \$2,178.00				
		CONNORS # 8404	S. D. S. # 0278											
		\$1,253.00	\$29,656.00	S. D. S. # 0276	R. JOHNSON # 102				COST COLLECTION					COST COLLECTION
	CONNORS # 8466			\$3,000.00	\$5,644.00	MAY COST COLLECTION			\$101.59	CAL-VAN \$864.00				\$1,327.71
	\$15,876.00					\$2,060.26								
JUNE	CONNORS # 8537		S. D. S. # 0309		R. JOHNSON # 103				RENTWAY \$685.42	CAL-VAN \$572.00				COST COLLECTION \$606.67
	\$13,754.80		\$6,725.00		\$6,052.00									
			S. D. S. # 0311		C-11 IND. # 47					CAL-VAN \$1530.00				COST COLLECTION \$1,639.00
			\$3,092.50		\$773.10					ROOM & BOARD				
			S. D. S. # 0307		JUNE COST COLLECTION					REBATE -\$1,159.26				
			\$50,010.75		\$80.89									
					C-11 IND. # 07-115					CAL-VAN \$89.55				
					\$768.95					\$552.84				

C3632 --- GREENHILLS UPPER SEAM 1978 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE OR LOGGING DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
	----- 010		----- 020											
JULY	CONNORS # 8580		S. D. S. # 523		R. JOHNSON # 104					COST COLLECTION			CASCADE # 1087	COST COLLECTION
	\$15,880.21		\$32,065.50	S. D. S. # 527	\$8,976.00					\$17.64			\$2,020.00	\$251.06
				\$3,683.08						Room & BOARD REBATE	\$1,980.00			\$367.60
										\$686.46	ROKE # 1330			\$657.00
										CAL-VAN	\$2,675.19			\$1,434.10
										\$4,286.00	\$4,598.90			
										CAL-VAN				
										\$509.48				
										CAL-VAN				
										\$100.00				
										CAL-VAN				
										\$1,112.00				
										CAL-VAN				
										\$882.00				
AUGUST	COST COLLECTION # 43.20		S. D. S. # 534		R. JOHNSON # 105				RENTWAY	CAL-VAN	ROKE # 1336			COST COLLECTION
			\$16,749.05		\$1,326.00				\$728.46	\$1,140.00	\$1,966.80			\$839.56
										SIMPLEX BURCRAFT	ROKE # 1336			
										# 7910	\$3,198.03			
					C-11 INDUSTRIES					\$78.76				
					\$219.75					NELSON DAILY NEWS				
										# 4856				
										\$140.54				
										CAL-VAN				
										\$3,258.00				
										\$100.00				

C3632 --- GREENHILLS UPPER SEAM

1978 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE OR LOGGING DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
	-----	010	-----	020										
				----- 100	----- 200	----- 250	----- 300	----- 400	----- 500	----- 600	----- 700	----- 800	----- 900	
AUGUST										F. C. # 14455 \$426.91				
										COST COLLECTION \$16.89				
SEPT.						KODAK #100579-1 \$8.72 COST COLLECTION \$2.90 \$151.74			RENTWAY CAL-VAN \$37.74 RENTWAY \$532.63		PROVINCE OF B.C. #026340 \$592.95			COST COLLECTION \$196.06
OCTOBER														COST COLLECTION \$5.00
NOVEMBER						KODAK #5102488-3 \$13.07			RENTWAY \$1,012.59 RENTWAY \$436.56	F. C. # 17584 \$40.27 F. C. # 17582 \$175.00	ROKE # 1437 \$159.50			COST COLLECTION \$743.85
													CASCADE # 1014 \$1,000.00	
													CASCADE # 1106 \$750.00	
													CASCADE # 1107 \$1,500.00	

C3632 --- GREENHILLS UPPER SEAM

1978 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE OR LOGGING DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE	
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES											
	----- 010		----- 020		----- 100	----- 200	----- 250	----- 300	----- 400	----- 500	----- 600	----- 700	----- 800	----- 900	
DECEMBER															COST COLLECTION \$ 953.50 \$ 1,029.55 \$ 195.67
JANUARY 79									RENTWAY \$ 425.25	ADVANCE PLASTICS #008366 \$ 251.83			CASCADE #1116 \$ 3,250.00	BIRTLEY #1116 \$ 675.00	
TOTAL	\$ 89,105 ²¹	\$ 5,333 ⁰⁰	\$ 169,928 ³⁰	\$ 6683 ⁰⁸	\$ 28,568 ⁸⁹	\$ 2,559 ⁷²			\$ 3,960 ²⁴	\$ 23,971 ²¹	\$ 24,064 ⁸⁴	\$ 592 ⁹⁵	\$ 9,195 ⁰⁰	\$ 10,916 ³³	
										<u>GRAND TOTAL \$ 374,878.77</u>					

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE LOGGING OR DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE	
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES											----- 010
MAY			S.D.S. # 0281 \$26,289.00	S.D.S. # 0276 \$500.00	R. JOHNSON # 102 \$1,904.00				RENTWAY \$193.20	CAL-VAN \$810.00		KOOTENAY SAW INV \$45.97			
JUNE					R. JOHNSON # 103 \$1,190.00				RENTWAY \$692.33	\$648.00 ROKE # 1289 \$405.00 ROOM & BOARD REBATE -\$200.16	\$1,019.40	\$422.84 COST COLLECTION \$1,021.31 MARKIN & PINTON #881538-CAL \$206.64			
										COST COLLECTION \$151.79		COST COLLECTION \$1,968.23 \$61.18 \$274.00			
												ROKE # 1303 \$1,202.01 C-11 INDUSTRIES \$955.64			
JULY			S.D.S. # 525 \$16,660.60		R. JOHNSON # 104 \$544.00				COST COLLECTION \$9.89	CAL-VAN; \$360.00 \$285.74		F.C. # 14461 \$41.33 F.C. # 15113 \$183.56			
												ROKE # 1330 \$418.50			

C3634 - - - LAKE MT. AREA

1978 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE OR LOGGING DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
	----- 010		----- 020		----- 100	----- 200	----- 250	----- 300	----- 400	----- 500	----- 600	----- 700	----- 800	----- 900
AUGUST			S.D.S. # 533 \$5,464.50						RENTWAY	CAL-VAN		COST COLLECTION		
									\$1,019.18	\$1,026.06	ROKE # 1336	\$737.33		
										COST COLLECTION	\$1,582.73	F.C. # 14461		
										\$352.45		\$69.93		
SEPTEMBER									RENTWAY			COST COLLECTION		
									\$157.92			\$28.80		
OCTOBER										\$2,250.00				
									RENTWAY	CASCADE #1116				
									\$346.68					
NOVEMBER									RENTWAY					
									\$540.12					
DECEMBER									RENTWAY					
									\$281.34					
JANUARY 79									RENTWAY					
									\$262.50					
TOTAL			\$48,414.10	\$500.00	\$3,638.00				\$3,503.16	\$6,498.88	\$4,227.74	\$5,970.79		
									GRAND TOTAL	\$72,752.57				

C3634 - - - LAKE MT. AREA

1978 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE LOGGING OR DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
	----- 010		----- 020		----- 100	----- 200	----- 250	----- 300	----- 400	----- 500	----- 600	----- 700	----- 800	----- 900
APRIL														
MAY	CONNORS #8431		S.D.S. #0279		R. JOHNSON #102				RENTWAY	CAL-VAN	COST COLLECTION			R. JOHNSON #101
	\$2,000.00		\$21,255.75		\$2,448.00				\$164.47	\$1,332.00	\$27.72			\$748.00
	CONNORS #8466		S.D.S. #0277							CAL-VAN				COST COLLECTION
	\$21,206.73		\$38,778.00							\$2,196.00				\$999.38
				S.D.S. #0276										
				\$1,500.00										
JUNE									RENTWAY	Room & BOARD REBATE				TESTED TRUSS
									\$605.79	-\$761.59				#R0022794
														\$336.44
														COST COLLECTION
														\$131.30
														\$56.62
JULY											ROKE #1303			
											\$3,879.20			
									COST COLLECTION					COST COLLECTION
									\$8.65					\$396.00

P3602 --- TURNBULL MT. AREA

1978 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE OR LOGGING DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
	----- 010		----- 020		----- 100	----- 200	----- 250	----- 300	----- 400	----- 500	----- 600	----- 700	----- 800	----- 900
AUGUST		COST COLLECTION \$ 192.72				COST COLLECTION \$ 181.80			COST COLLECTION \$ 391.81					COST COLLECTION \$ 1,782.56
SEPTEMBER									COST COLLECTION \$ 138.18					COST COLLECTION \$ 42.97
						COST COLLECTION \$ 2.91			COST COLLECTION \$ 303.35	COST COLLECTION \$ 86.40			CASCADE # 1099 \$ 2,550.00	COST COLLECTION \$ 224.40
														F.C. # 16169 \$ 60.86
NOVEMBER									COST COLLECTION \$ 472.60		ROKE # 1437 \$ 35.50		CASCADE # 1014 \$ 1,750.00	COST COLLECTION \$ 210.96
										CAL-VAN \$ 100.00			CASCADE # 1106 \$ 1,250.00	COST COLLECTION \$ 195.68
DECEMBER									COST COLLECTION \$ 246.17				CASCADE # 1116 \$ 500.00	
JANUARY									RENTWAY \$ 229.68					
TOTAL	\$ 23206 ⁷³	\$ 192.72	\$ 60033 ⁷⁵	\$ 1500 ⁰⁰	\$ 2448 ⁰⁰	\$ 184.71			\$ 3060 ⁷⁰	\$ 5,375 ⁷⁷	\$ 3542 ⁴²		\$ 6050 ⁰⁰	\$ 5,185 ⁷⁷

P3602 --- TURNBULL MT. AREA

1978 DRILLING PROGRAM

GRAND TOTAL \$ 111,179.97

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE LOGGING OR DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
	----- 010		----- 020		----- 100	----- 200	----- 250	----- 300	----- 400	----- 500	----- 600	----- 700	----- 800	----- 900
APRIL										McGALLEY \$230.69				R. JOHNSON #101 \$748.00
MAY	CONNORS #8431 \$2,000.00	CONNORS #8404 \$1,253.00		S.D.S. #0276 \$2,000.00	R. JOHNSON #102 \$5,440.00					COST COLLECTION \$15.68				COST COLLECTION \$921.91
	CONNORS #8466 \$1,920.60									LOWENS #1335 \$10.76				
JUNE	CONNORS #8505 \$49,336.76		S.D.S. #0311 \$22,349.25		C-11 IND. #55 \$300.40				RENTWAY \$456.94	CAL-VAN \$2,284.00 CAL-VAN \$2,448.00		COST COLLECTION \$452.28		COST COLLECTION \$161.78 \$67.93
	CONNORS #8537 \$29,888.42		S.D.S. #0310 \$42,572.25		R. JOHNSON #103 \$7,446.00					CONNORS #8505 \$1,836.60				\$144.00 \$148.65
			S.D.S. #0307 \$1,020.00							PEERLESS #40914 \$45.71				\$2.98 \$35.22
										PEERLESS #4916 \$4.08				
											ROKE #1303			
										CONNORS #8537 \$4,270.17				\$3,477.60

C3633 - - - WEST TURNBULL AREA

1978 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE LOGGING OR DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE											
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES																					
	-----	010	-----	020	-----	100	-----	200	-----	250	-----	300	-----	400	-----	500	-----	600	-----	700	-----	800	-----	900	
JUNE										S.D.S. # 0910 \$680.00		C-11 IND. \$1,136.86													
										ROOM & BOARD REBATE -\$1,077.53															
										F.C. # 14798 \$1,102.50															
										COST COLLECTION \$111.31	ROKE # 1817 \$1,398.35														
										\$5.57															
										\$231.46															
JULY	CONNORS # 8580 \$17,795.35		S.D.S. # 524 \$8,878.25		R. JOHNSON # 104 \$1,088.00	COST COLLECTION \$22.50				CAL-VAN \$2,234.00		BOTHAMLEY CONSTRUCT. \$2,782.00												COST COLLECTION \$618.00	
										CAL-VAN \$864.00	ROKE # 1330 \$5,366.51														\$1,281.40
										COST COLLECTION \$432.00															\$432.00
										\$108.00															\$276.85
										\$37.53															
AUGUST	CONNORS # 8668 \$508.62		S.D.S. # 538 \$638.06							\$5.29															COST COLLECTION \$797.29
										Russelsted # 044247 \$92.36		LATKA CONSTRUCT. \$641.00													

C3633 --- WEST TURNBULL AREA

1978 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE LOGGING OR DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE											
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES																					
	-----	010	-----	020	-----	100	-----	200	-----	250	-----	300	-----	400	-----	500	-----	600	-----	700	-----	800	-----	900	
JANUARY 79										RENTWAY CAL-VAN * 283.50					* 804.20										
TOTAL	\$ 101,449. ⁹⁵	\$ 1,253. ⁰⁰	\$ 94,492. ²⁴	\$ 2,000. ⁰⁰	\$ 16,266. ⁴⁰	\$ 25. ⁴¹			\$ 2,102. ⁴⁸	\$ 20,430. ²⁵	\$ 11,715. ³⁶	\$ 7,890. ⁰⁹		\$ 6,614. ⁴¹											
										GRAND TOTAL 264,239. ⁵⁹															

C3533 - - - WEST TURNBULL AREA

1978 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE OR LOGGING DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	ROOM & BOARD
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
	----- 210		-----		----- 220	----- 240	-----	-----	----- 230	----- 250	----- 260	----- 290	----- 280	----- 270
SEPTEMBER	CONNORS # 8285 \$19,138.41				R. JOHNSON # 107 \$1,800.00	EXPENSE ACCOUNT M. SCHAUMBERGER \$36.19 \$130.02 D. MacFARLANE \$142.60						LATKA #591.12 R. JOHNSON # 108 \$1,350.00		
OCTOBER	CONNORS # 8826 \$16,349.56				R. JOHNSON # 112 \$1,950.00					COST COLLECTION \$5.85	ROKE # 1403 \$1,895.19	LATKA #021966 \$1,123.50		CAL-VAN \$225.00 \$1,845.00
	CONNORS # 8866 \$21,867.24													
											ROKE # 1432 \$1,082.76	LATKA \$2,066.00		CAL-VAN \$2,130.00
NOVEMBER					R. JOHNSON # 116 \$75.00	COST COLLECTION STAFF SALARIES \$2,926.00								\$884.00 \$705.00
												LATKA \$2,968.00		
DECEMBER					C-11 INDUSTRIES \$144.00						ROKE # 1435 \$1,130.85			
JANUARY						STAFF PAY \$16,206.45								
TOTAL	\$57,355.21				\$3,969.00	\$4855.45				\$5.85	\$4,108.80	\$8,098.62		\$5,789.00

C3700 --- NORTH TURNBULL AREA 1070 DRILLING PROGRAM

GRAND TOTAL * 84,181.93

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE LOGGING OR DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
	-----	010	-----	020	-----100	-----200	-----250	-----300	-----400	-----500	-----600	-----700	-----800	-----900
MAY									COST COLLECTION \$ 70.47					
JUNE			S.D.S. # 0310 \$12,280.25						RENTWAY \$432.00 \$254.63	CAL-VAN CAL-VAN				
										\$509.48 ROOM & BOARD REBATE -\$95.70				
JULY			S.D.S. # 524 \$8,785.00						COST COLLECTION \$ 3.71		RORE # 1303 \$938.72			
AUGUST			COST COLLECTION \$320.64						RENTWAY \$382.19	COST COLLECTION \$666.00	RORE # 1330 \$739.25			
									RENTWAY \$59.22	\$ 8.13 RORE 0.1				
SEPTEMBER									RENTWAY \$130.00	COST COLLECTION \$ 6.20				

P 3601 --- CLODE PIT

1978 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE LOGGING OR DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	PRE-LOGGING ACCESS ROADS	PETROGRAPHIC ANALYSIS	CORE STORAGE
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
	----- 010	----- 020	----- 100	----- 200										
NOVEMBER									RENTWAY					
									\$202.54					
DECEMBER									RENTWAY					
									\$105.33					
										\$750.00				
										CASCADE COAL				
										\$116				
TOTAL			\$21,385.89						\$1208.09	\$2276.11	\$1,677.57			
									<u>GRAND TOTAL</u>			\$26,548.06		

P 3601 --- CLODE PIT

1978 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE OR LOGGING DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	ROOM & BOARD	PETROGRAPHIC ANALYSIS	CORE STORAGE
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
	-----110		-----		-----120	-----140	-----	-----	-----130	-----150	-----160	-----170	-----180	-----
SEPTEMBER	CONNORS #8785 \$34,524.35				R. JOHNSON #107 \$2,250.00									
						EXPENSE ACCOUNT N. BRAL \$90.00								
OCTOBER	CONNORS #8826 \$19,740.57				R. JOHNSON #112 \$3,712.50					COST COLLECTION #115.20	ROKE #1403 \$1,655.39	CAL-VAN \$225.00		
	CONNORS #8866 \$20,011.96					STAFF PAY \$1,500.00				F.C. #17589 \$288.75		\$1,845.00		
										COST COLLECTION #181.50	ROKE #1416 \$926.50			
												CAL-VAN		
											ROKE #1435	\$2,130.00		
NOVEMBER	CONNORS #8906 \$17,138.03	ACKELS #1146 \$3,600.00			R. JOHNSON #116 \$1,612.50	KODAK #5103326 D \$4.36				COST COLLECTION #78.37	\$545.05	\$884.00		
						COST COLLECTION #66.24				\$175.20		\$705.00		
						F.C. #17638 \$3.31				F.C. #17775 \$39.95		\$2,190.00		
											ROKE #1467 \$3,228.37			

C3700--- ELK VALLEY AREA

1070 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE OR LOGGING DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	ROOM & BOARD	PETROGRAPHIC ANALYSIS	CORE STORAGE
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
	-----	110	-----		-----120	----- 140	-----	-----	----- 130	----- 150	----- 160	----- 170	----- 180	-----
NOVEMBER						KODAK #5104367-7 \$ 4.62								
DECEMBER						KODAK \$17.43 Staff Pay \$600.00					COST COLLECTION \$62.77			
JANUARY						STAFF PAY \$2,498.85				COST COLL. EXP. ACC. \$ 42.99				
TOTAL	\$1,414.91	\$3,600.00			\$7,575.00	\$10,184.91				\$921.96	\$6,418.08	\$8,039.00		
										GRAND TOTAL	\$128,153.76			

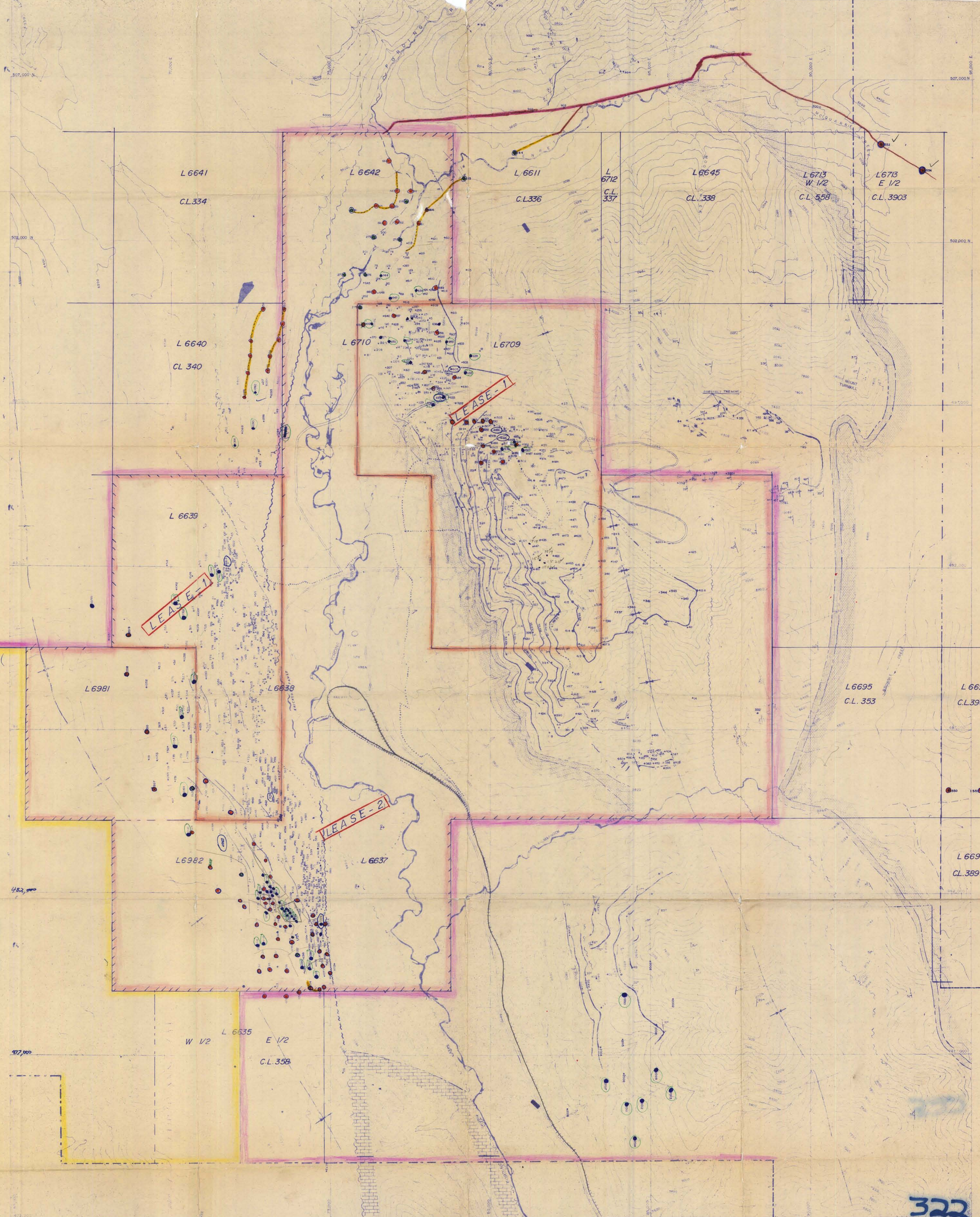
C3700--- ELK VALLEY AREA

1970 DRILLING PROGRAM

MONTH	DIAMOND DRILLING		ROTARY DRILLING		BULLDOZER RENTAL	GEOLOGICAL SUPERVISION CORE LOGGING OR DATA REVIEW	RECLAMATION	SURVEYING	TRUCK RENTAL	MISC. EQUIPMENT SUPPLIES & SERVICES	RADIATION LOGS BORE HOLE SURVEYS	ROOM & BOARD	ENVIRONMENTAL STUDY	TOPOGRAPHICAL SURVEYING
	FOOTAGE RATE	DAY WORK & SUPPLIES	FOOTAGE RATE	DAY WORK & SUPPLIES										
				310	320					350	360	370	385	395
AUGUST					R. JOHNSON #105 \$1,360.00									
SEPTEMBER			S.D.S. #562 \$40,470.52		R. JOHNSON #107 \$3,900.00									
					C-II INDUSTRIES \$459.00									
					C-II INDUSTRIES \$789.75									
OCTOBER					C-II INDUSTRIES \$1,371.50					COST COLLECTION \$11.50	RORE #1391 \$579.00	CAL-VAN \$1,080.00		Crowsnest Helicopters #2 \$2,358.00
											RORE #1403 \$145.00	\$336.04		
												\$1,661.00		
												\$495.38		MLEHoney #902134 #9021428 #10050
JANUARY														B.C. RESEARCH INV. #27357 \$13,484.99
TOTAL			\$40,470.52		\$7,880.25					\$11.50	\$724.00	\$3,572.42	\$13,484.99	\$12,408.00

C3700 --- BROWNIE CREEK AREA 1970 DRILLING PROGRAM

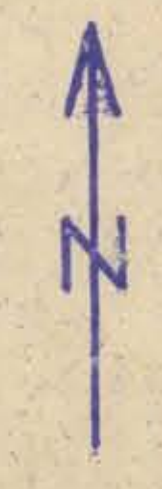
GRAND TOTAL * 78,551.68



- Adits
- Drill Holes
- Railway
- Main & Haul Roads
- Cleared Mining & Plant Areas
- Fording Property Boundary (coal licence)

- LEGEND**
- Coal Seams
 - Synclinal Axis
 - Faults - defined, assumed
 - Strike & Dip of Bedding
 - 1978 DIAMOND DRILL HOLE
 - 1978 ROTARY DRILL HOLE
 - 1978 NEW (DRILL ACCESS) ROAD

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

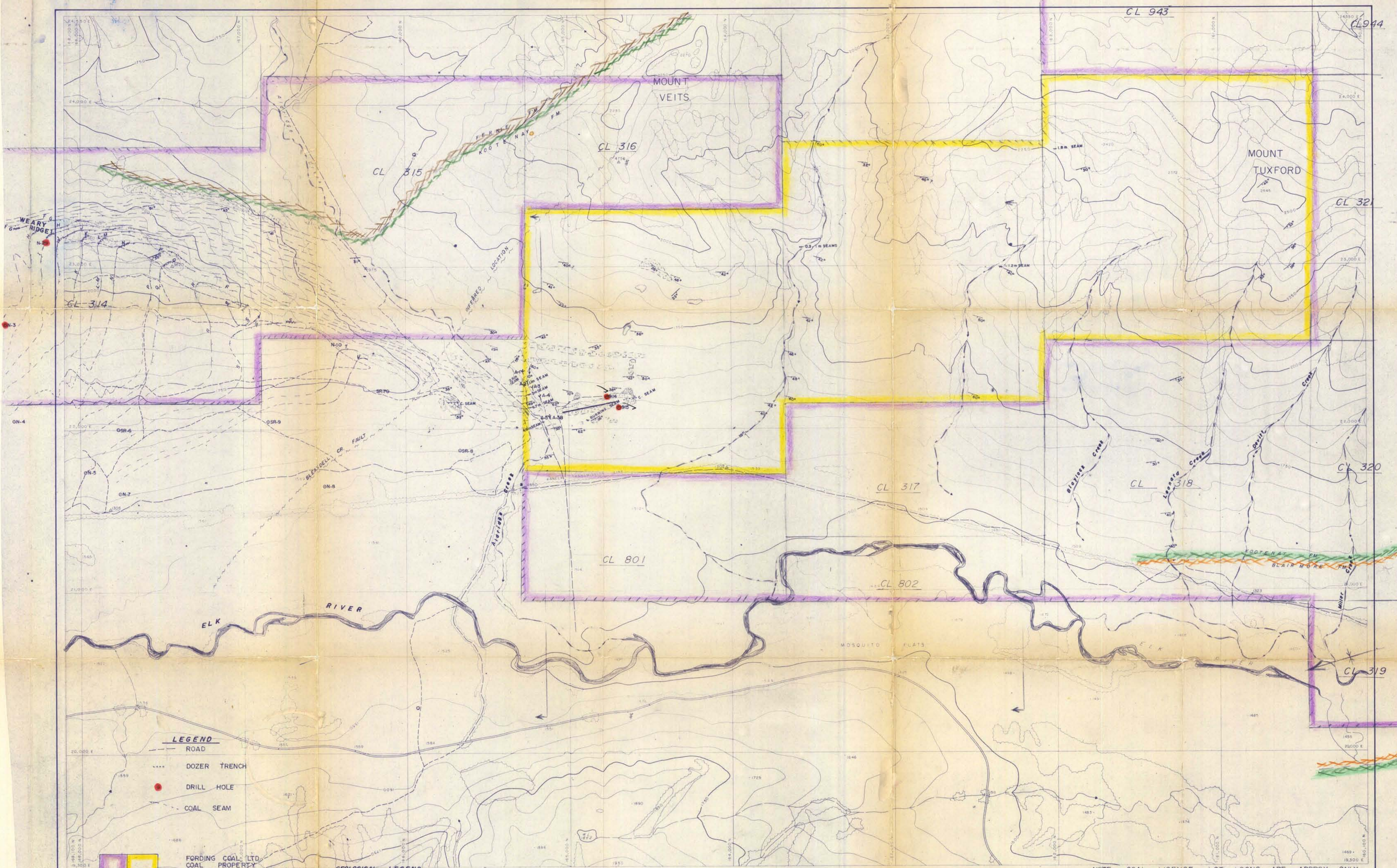


322

ILLUST. NO. 2

K-FORDING R. 78/216
 FORDING COAL LTD.
 FORDING RIVER OPERATIONS
 1978 EXPLORATION & DEVELOPMENT AND
 GEOLOGICAL & ENVIRONMENTAL ASSESSMENT
 PROGRAM
 GENERAL GEOLOGY MAP

By - RBA	Scale - 1" = 1000'	Date - DEC. 1975	Plate -
----------	--------------------	------------------	---------



LEGEND

- ROAD
- DOZER TRENCH
- DRILL HOLE
- COAL SEAM

FORDING COAL LTD.
COAL PROPERTY
(COAL LICENSE, CROWN GRANT)

GEOLOGICAL LEGEND

- BLAIRMORE FM.
- UPPER KOOTENAY FM.
- LOWER KOOTENAY FM.
- FERNIE FM.
- SYNCLINE

NOTE- COAL LICENSE LOT LOCNS ARE APPROX. ONLY

Job No 06333-6 Date Flown August 1977
McLHANNAY SURVEYING & ENGINEERING LTD.
1:10 000

Metric Sheet Index

22	28
21	27

Revisions	No	Made by	Date	Description

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

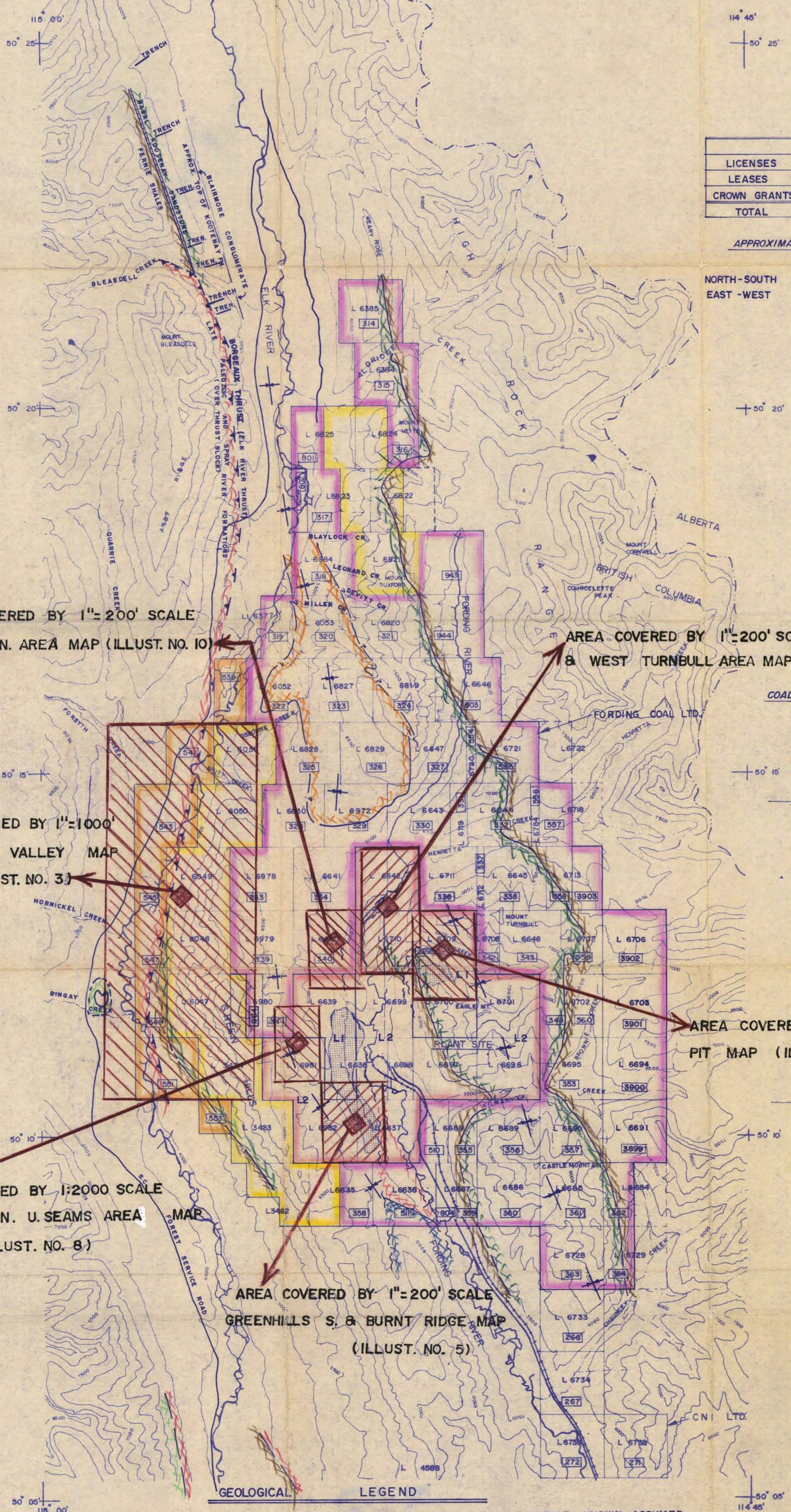
AUG 79
GEOLOGICAL MAPPING & EXPLORATION DRILLING
ALDRIDGE CREEK AREA
GENERAL GEOLOGY



Metric Scale 1:10000
100 0 100 200 300 400 500

322

Co-ordinates and Elevations on this Map are in Metres



LAND TENURE

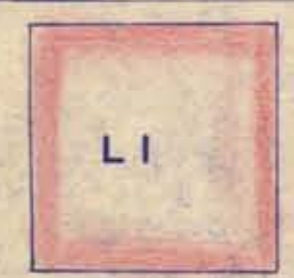
	NO.	AREA - ACRES	AREA - HECTARES
LICENSES	70	33 135	13 464
LEASES	2	8 050	3 261
CROWN GRANTS	15	7 360	2 981
TOTAL		48 545	19 706

APPROXIMATE MAXIMUM PROPERTY DIMENSIONS

NORTH-SOUTH	15.9	MILES ; 25.5	KILOMETERS
EAST-WEST	8.4	MILES ; 13.5	KILOMETERS

LEGEND

COAL LEASES (NOS. OWNERSHIP)



L1 FORDING COAL LTD.

COAL LICENSES (NOS. OWNERSHIP)



346 FORDING COAL LTD.



547 COMINCO LTD.

CROWN GRANTS (LOT NOS. OWNERSHIP)



L 6048 COMINCO LTD.



MINING AREAS



RAILROAD



EXISTING HIGHWAYS

AREA COVERED BY 1"=200' SCALE LAKE MT. N. AREA MAP (ILLUST. NO. 10)

AREA COVERED BY 1"=200' SCALE TURNBULL MT. & WEST TURNBULL AREA MAP (ILLUST. NO. 12)

AREA COVERED BY 1"=1000' SCALE ELK VALLEY MAP (ILLUST. NO. 3)

AREA COVERED BY 1"=200' SCALE CLODE PIT MAP (ILLUST. NO. 15)

AREA COVERED BY 1:2000 SCALE GREENHILLS N. U. SEAMS AREA MAP (ILLUST. NO. 8)

AREA COVERED BY 1"=200' SCALE GREENHILLS S. & BURNT RIDGE MAP (ILLUST. NO. 5)

GEOLOGICAL LEGEND

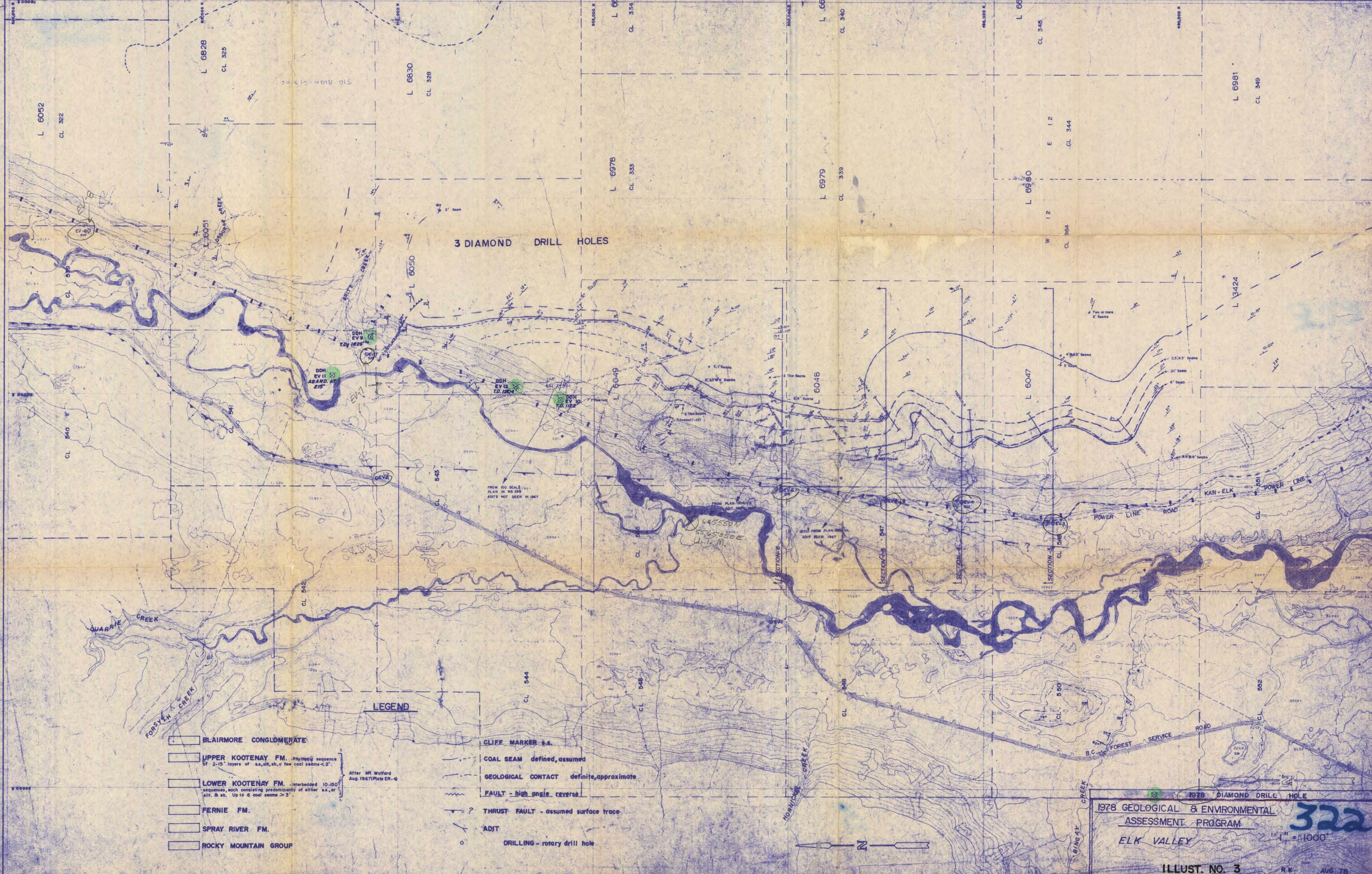
	BLAIRMORE FORMATION (CONGLOMERATE)
	KOOTENAY FORMATION (BASAL SANDSTONE)
	FERNIE FORMATION (SHALE)
	SPRAY RIVER FORMATION (PLATY SILTSTONE, SILTY SHALE)
	ROCKY MOUNTAIN FORMATION (SILTY DOL., DOLOMITIC SS., QTZITE)
	RUNDLE FORMATION (LIMESTONE)

LEGEND

	CONTACT - KNOWN, ASSUMED
	FAULTS - NORMAL, THRUST
	SYNCLINAL AXIS
	ANTICLINAL AXIS

322
ILLUST. NO. 1

FORDING RIVER OPERATIONS		GENERAL GEOLOGY & COAL PROPERTIES	
RR	RR	FORDING COAL LIMITED	
RR	RR	DATE OCT. 7 1975	



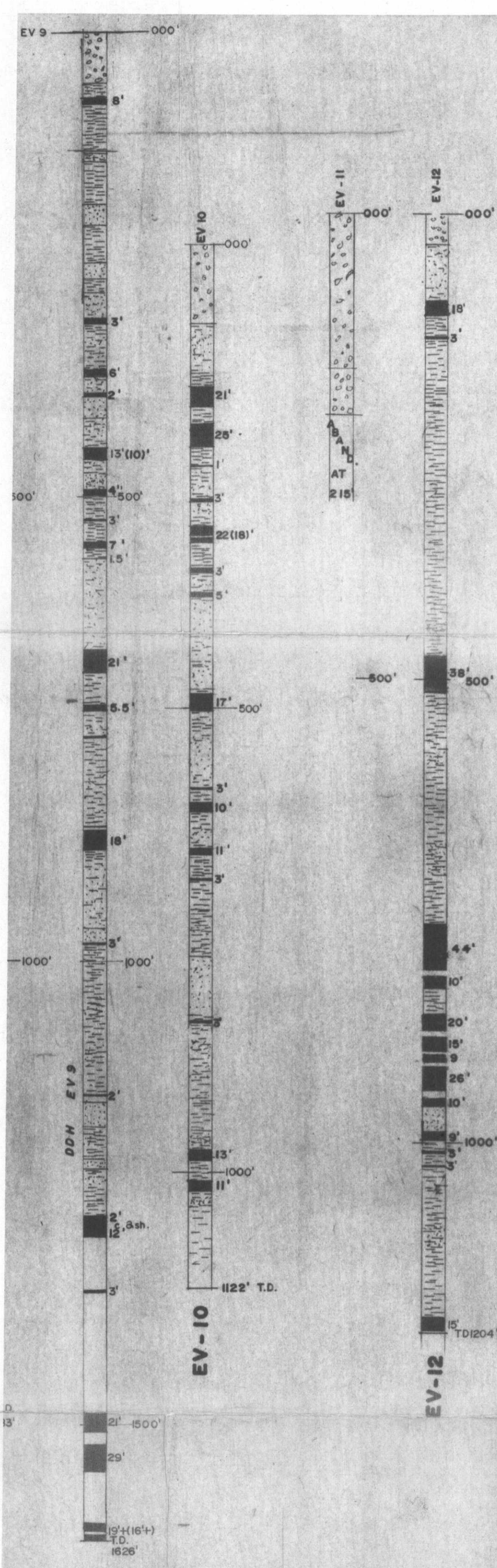
3 DIAMOND DRILL HOLES

- LEGEND**
- | | | | |
|--|---|--|--|
| | BLAIRMORE CONGLOMERATE | | CLIFF MARKER s.s. |
| | UPPER KOOTENAY FM. Rhythmic sequence of 2-15' layers of ss, sh, sl, a few coal seams < 2'. | | COAL SEAM defined, assumed |
| | LOWER KOOTENAY FM. Interbedded 10-150' sequences, each consisting predominantly of either ss, or sl, 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 |
| | | | DRILLING - rotary drill hole |

1978 DIAMOND DRILL HOLE
 1978 GEOLOGICAL & ENVIRONMENTAL ASSESSMENT PROGRAM
 ELK VALLEY
 ILLUST. NO. 3
 R.K. AUG 78

322

1" = 1000'



322

COLUMNAR SECTIONS

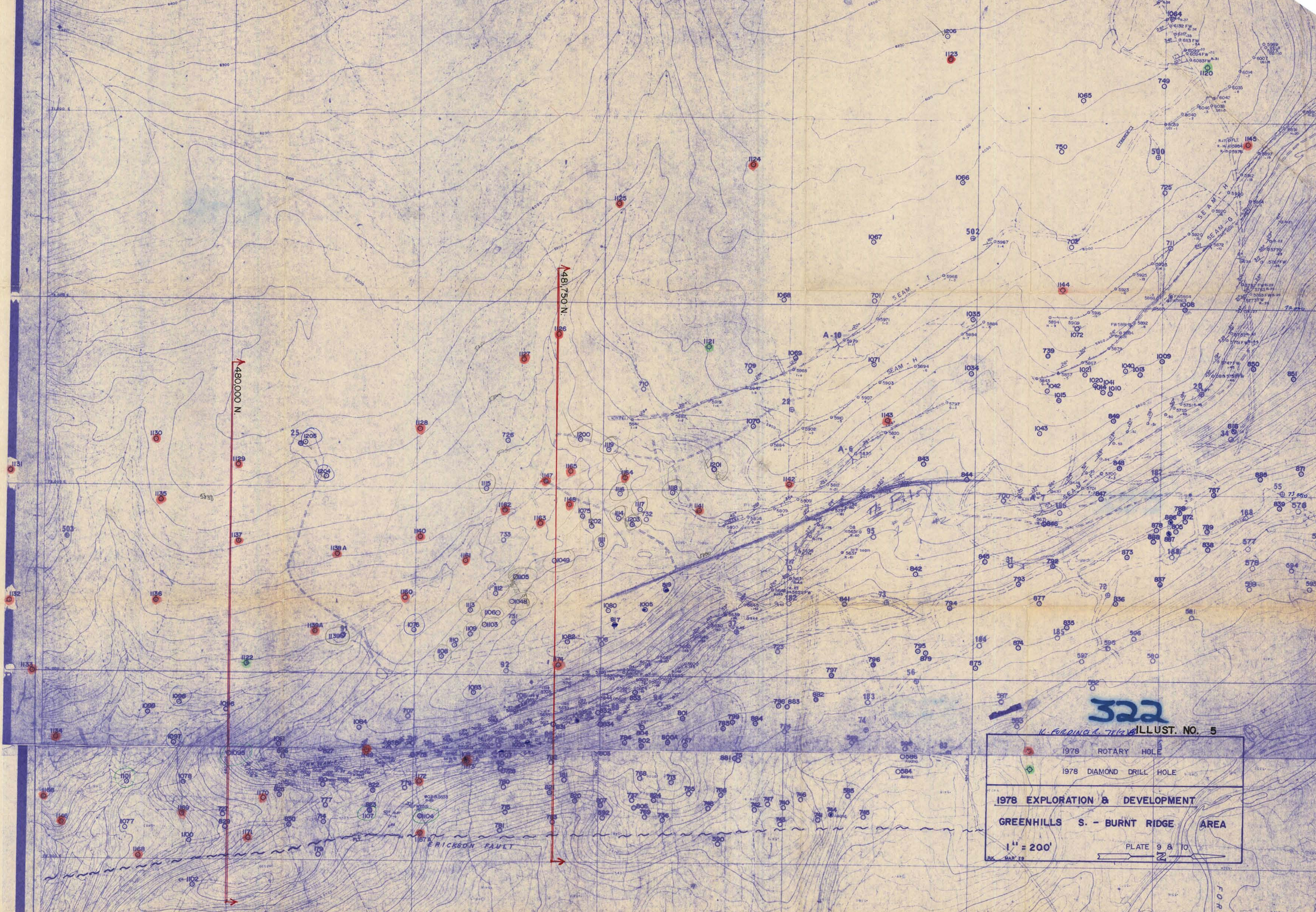
DIAMOND DRILL HOLES

ELK VALLEY AREA

VERT. SCALE 1" = 100'

ILLUST. NO. 4

K. FORDING R. 78(2)B.



322

ILLUST. NO. 5

1978 ROTARY HOLE

1978 DIAMOND DRILL HOLE

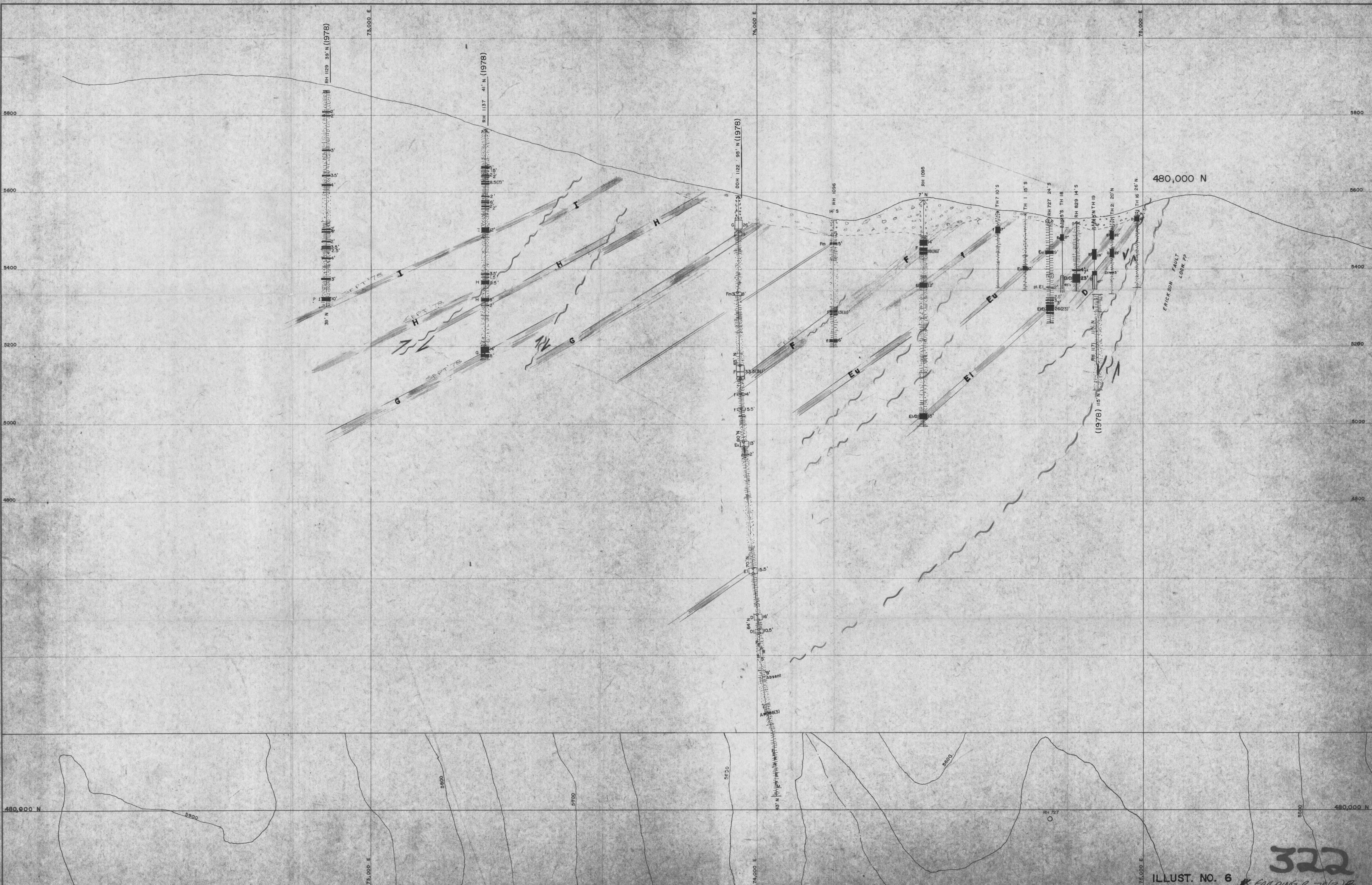
1978 EXPLORATION & DEVELOPMENT

GREENHILLS S. - BURNT RIDGE AREA

1" = 200'

PLATE 9 & 10

MAR 78



480,000 N

ERICKSON FAULT
LOCK


322

ILLUST. NO. 6

FORDING & SONS

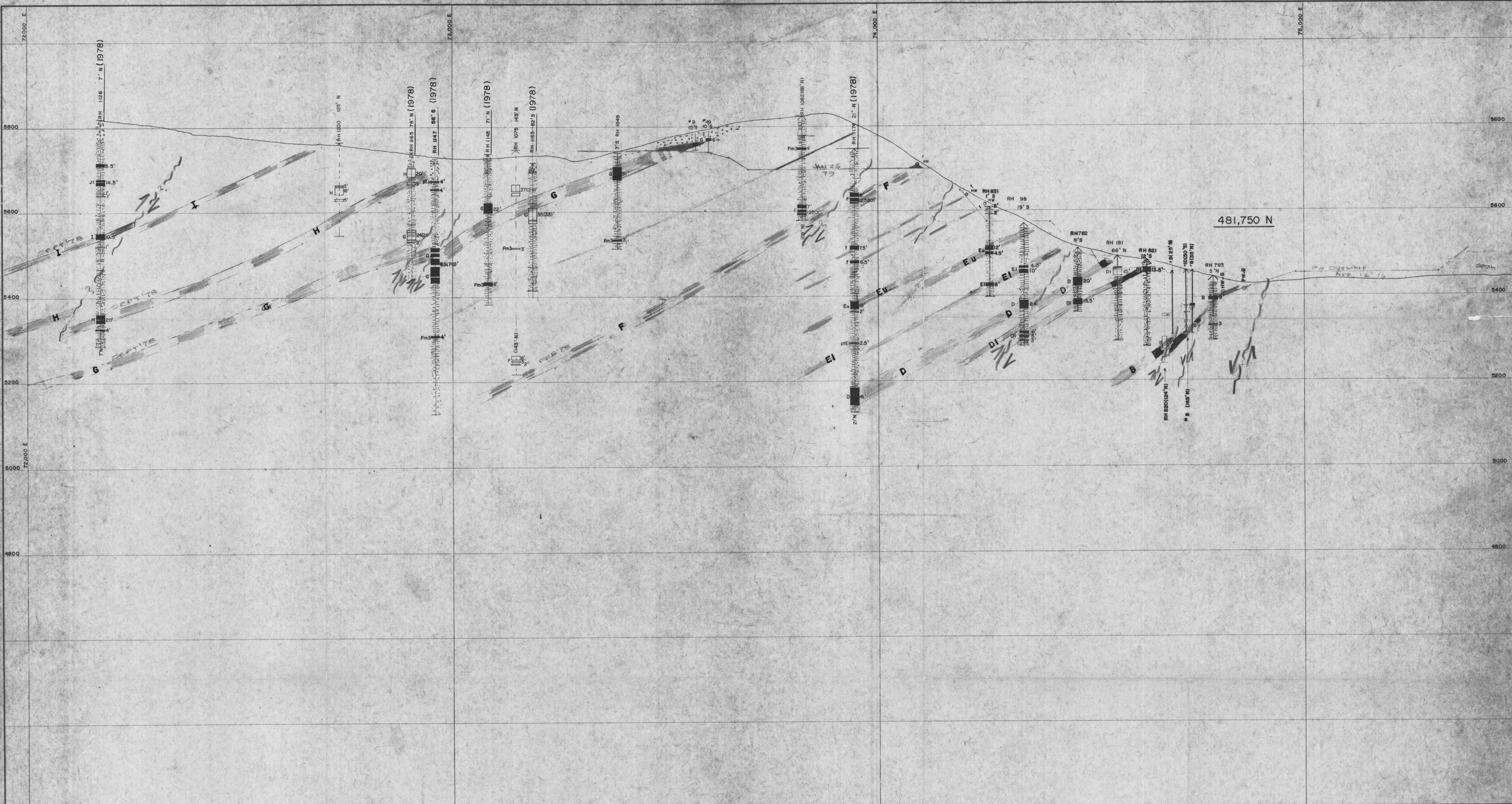
Revisions			
No.	Made by	Date	Description

Revisions			
No.	Made by	Date	Description

Drawn by	R.K.
Fording Operations	
	

GEOLOGICAL SECTIONS
GREENHILLS 480,000 N

Scale 1 inch = 100 Feet
Drawing No.

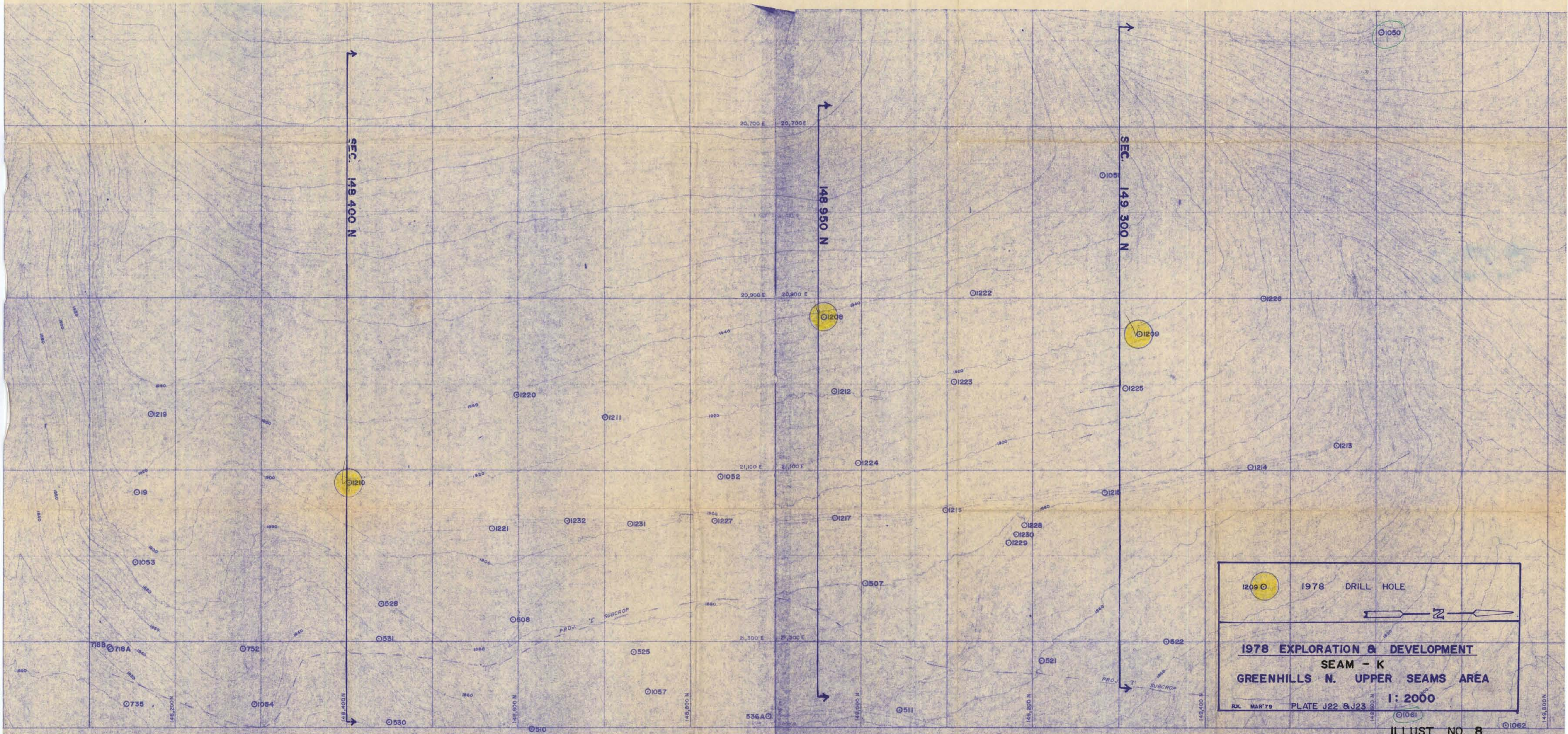


Revisions				Revisions				Revisions				Revisions			
No.	Made by	Date	Description	No.	Made by	Date	Description	No.	Made by	Date	Description	No.	Made by	Date	Description

Drawn by RK
Fording Operations

GEOLOGICAL SECTIONS
GREENHILLS 481,750 N

ILLUST. NO. 7 K-FORDING R. 762 B
 Scale 1 Inch = 100 Feet
 Drawing No. 322

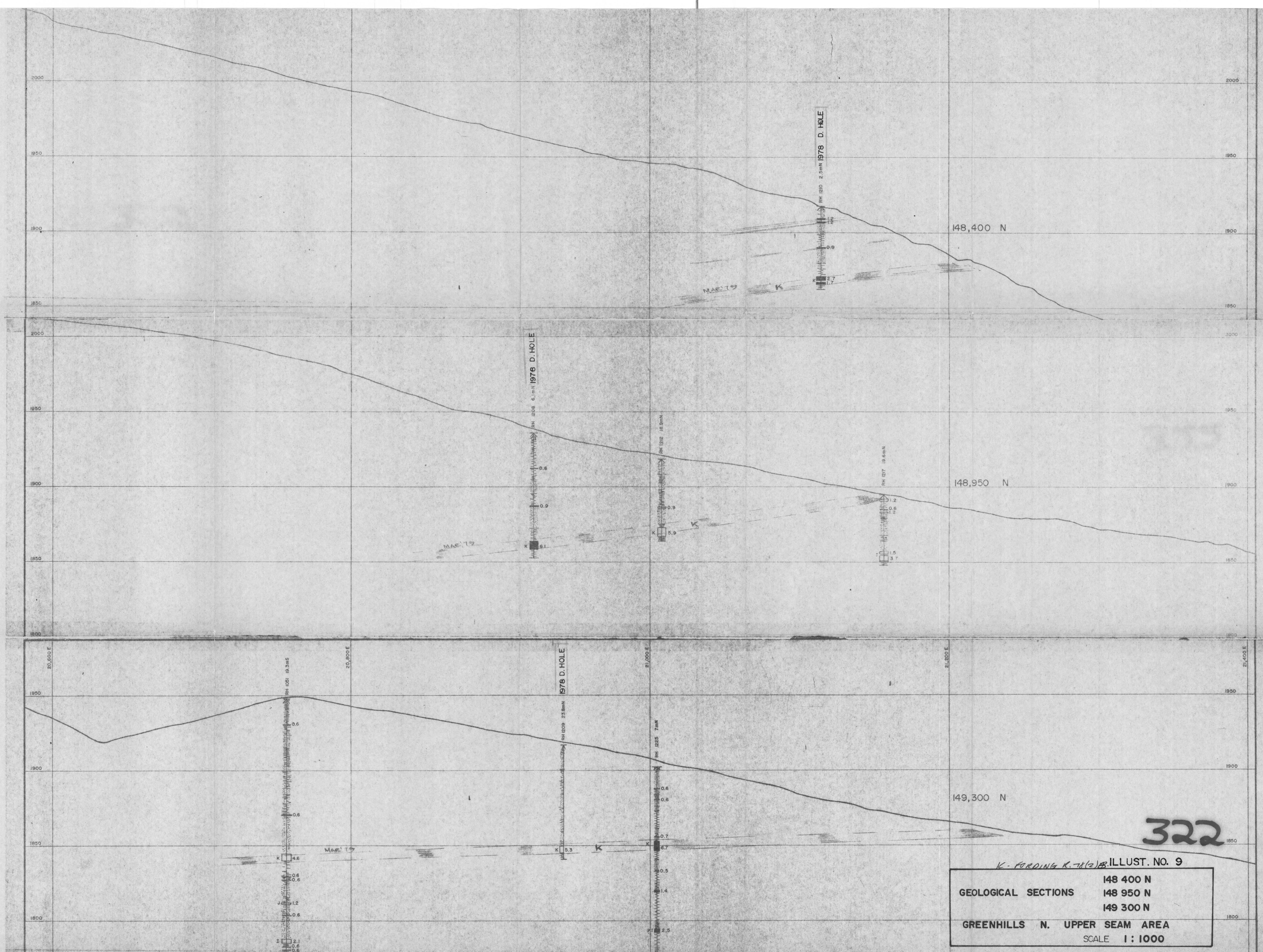


	1209	1978	DRILL HOLE
1978 EXPLORATION & DEVELOPMENT SEAM - K GREENHILLS N. UPPER SEAMS AREA 1:2000			
RX MAR 79		PLATE J22 & J23	

ILLUST. NO. 8

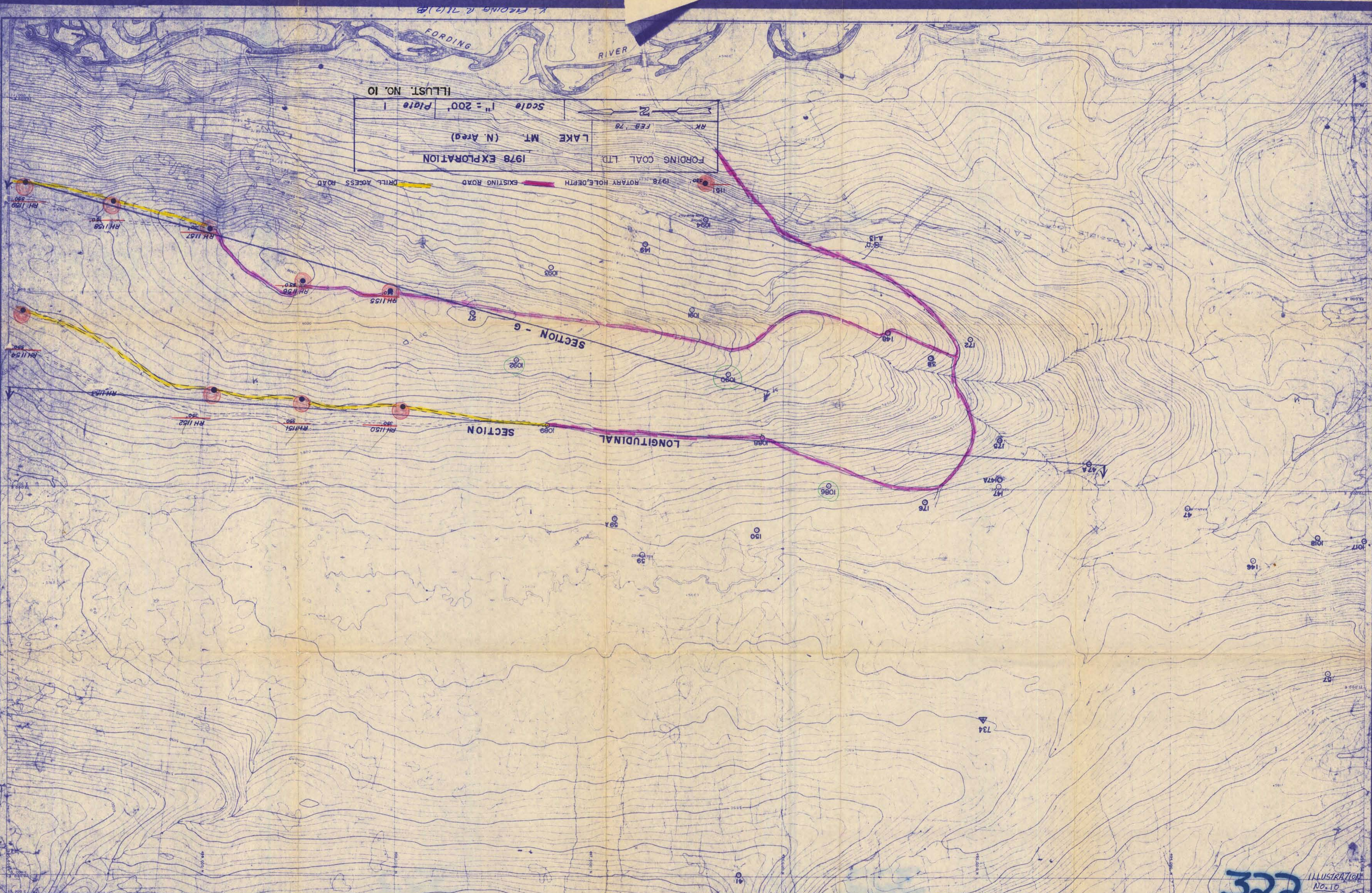
322

K. FORING R. 78 (2) B



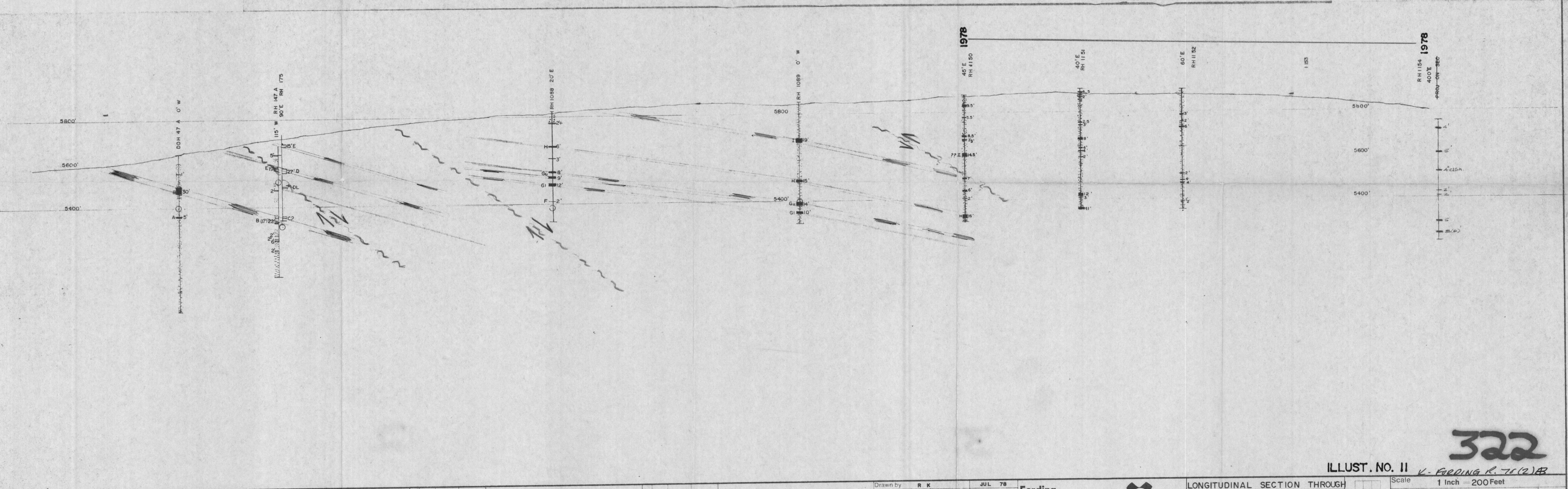
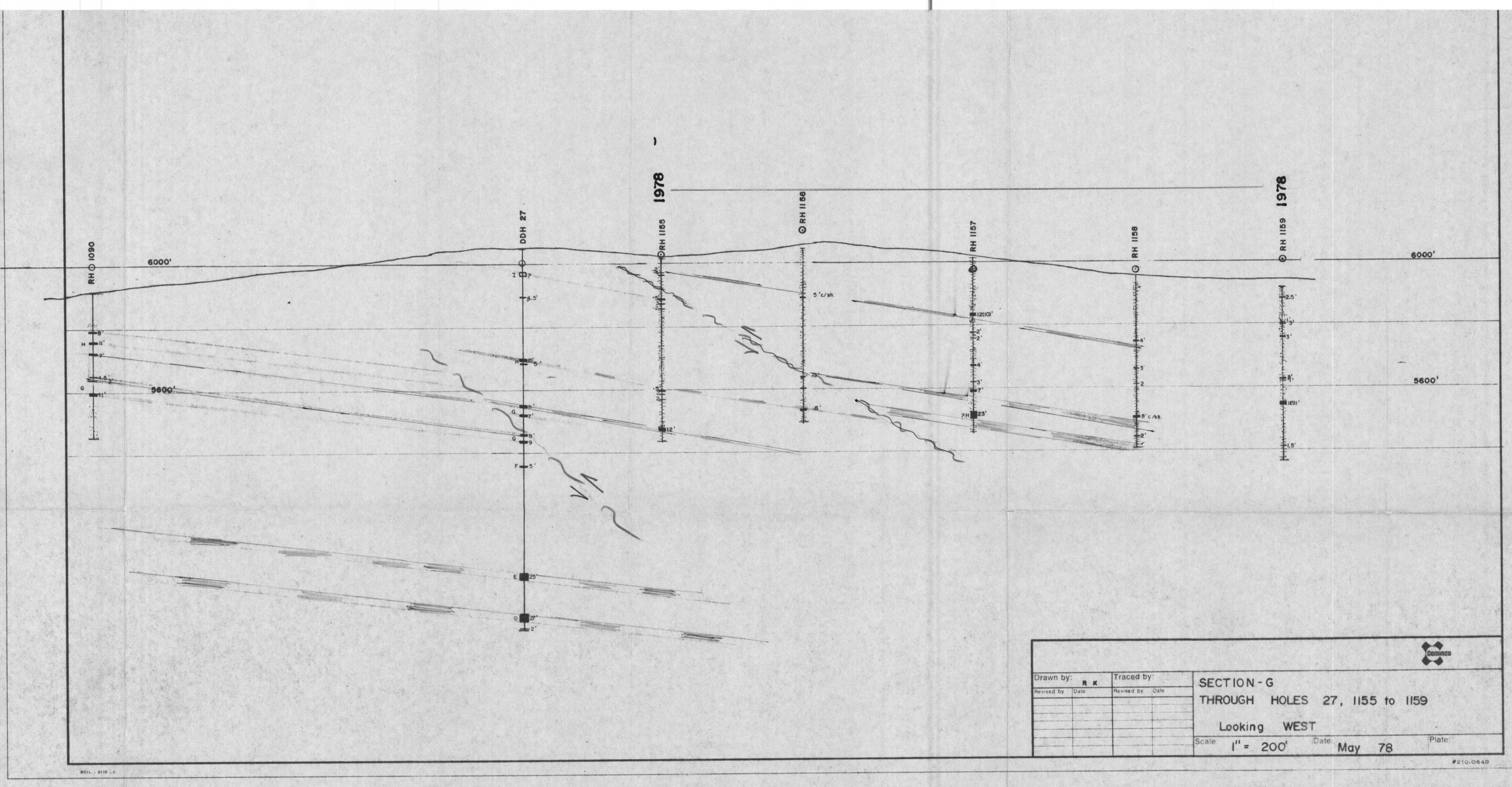
K-FORDING R. 74(2)B. ILLUSTR. NO. 9

	148 400 N
GEOLOGICAL SECTIONS	148 950 N
	149 300 N
GREENHILLS N. UPPER SEAM AREA	
SCALE 1 : 1000	



Job No. J. 83 001	Topographic compilation by McElhanney Surveying & Engineering Ltd. from aerial photography flown in 1968.	Drawn by	Checked by	Approved	Function	Scale
Revision	Fair drawings by McELHANNAY SURVEYING & ENGINEERING LTD. Job No. 05280-3	Design Eng.	Proj. Eng.		Activity	Drawing No.
Reference		No.	Made by	Date	Description	Revision
Issued to						

322 ILLUSTRATION No. 10



322

Revisions				Revisions				Revisions			
No.	Made by	Date	Description	No.	Made by	Date	Description	No.	Made by	Date	Description

Drawn by: R K

JUL 78

Fording Operations

LONGITUDINAL SECTION THROUGH

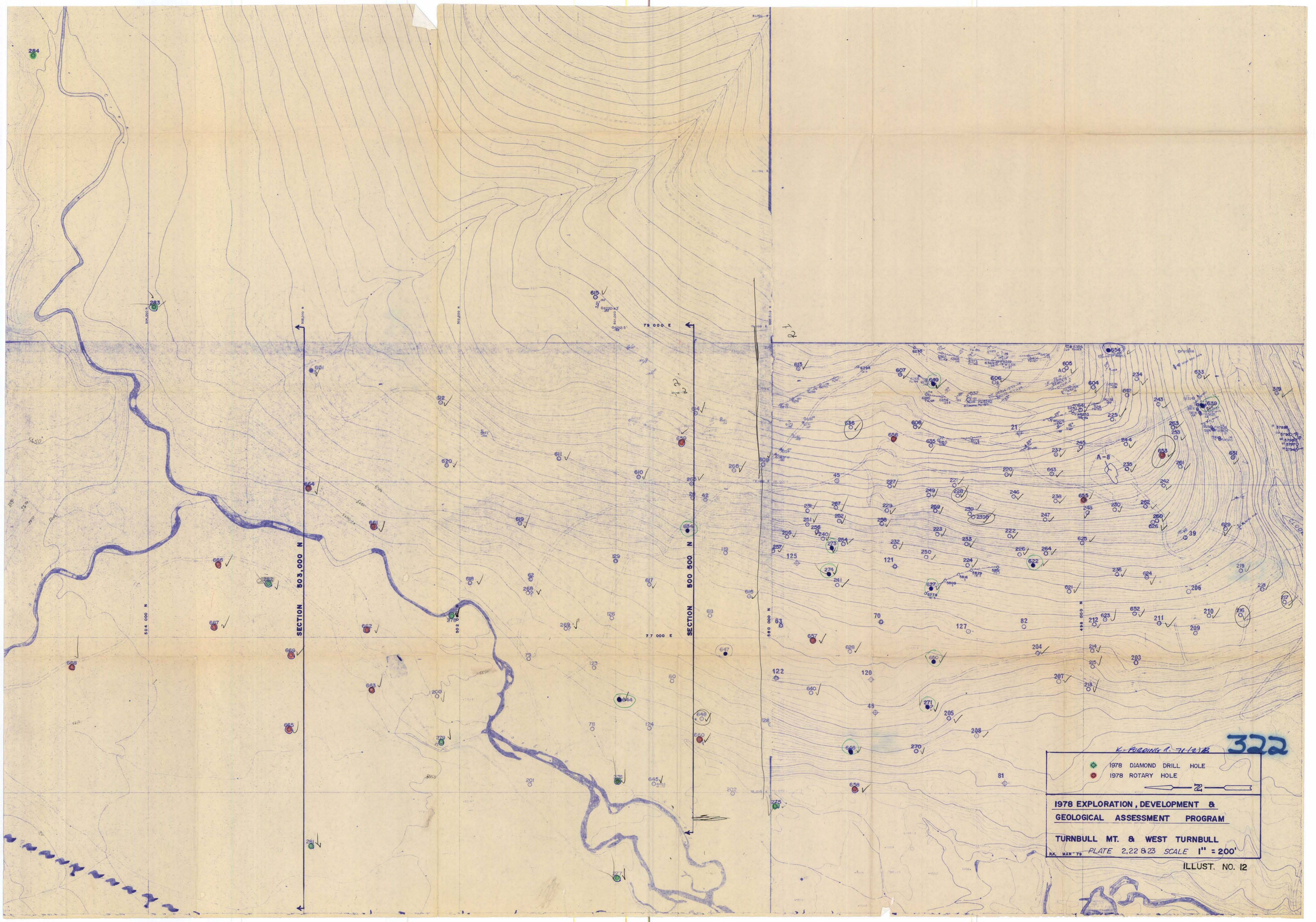
47A, 1088 1089

LOOKING WEST

LAKE MT.

Scale 1 Inch = 200 Feet

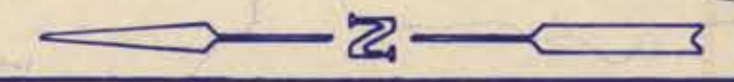
Drawing No. KEY MAP



322

K. FORDING (1-71-12)B

- 1978 DIAMOND DRILL HOLE
- 1978 ROTARY HOLE

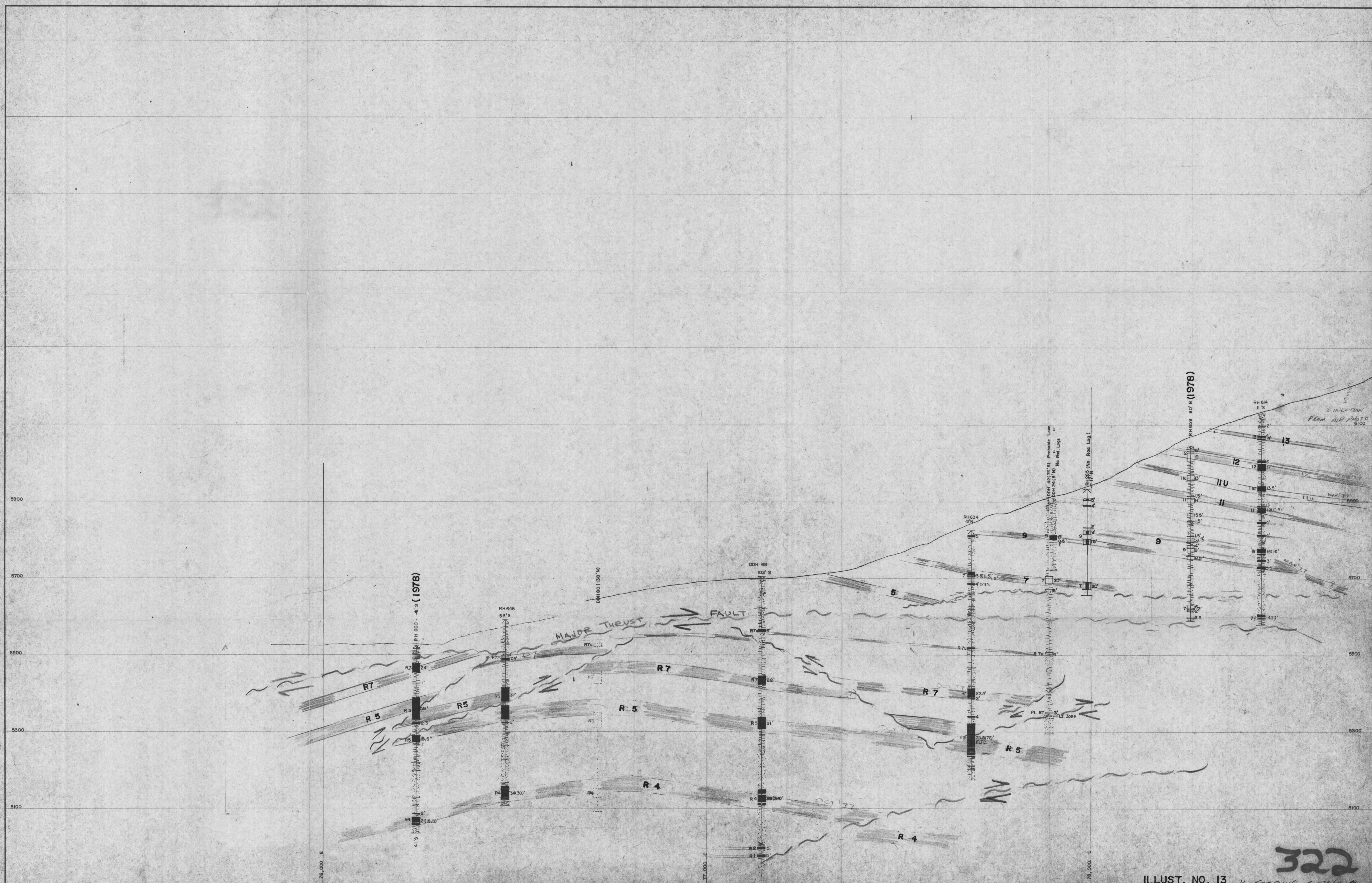


1978 EXPLORATION, DEVELOPMENT & GEOLOGICAL ASSESSMENT PROGRAM

TURNBULL MT. & WEST TURNBULL

PLATE 2,22 & 23 SCALE 1" = 200'

ILLUST. NO. 12



322

ILLUST. NO. 13 K. FORDING E. 71(2)B

Revisions			
No.	Made by	Date	Description

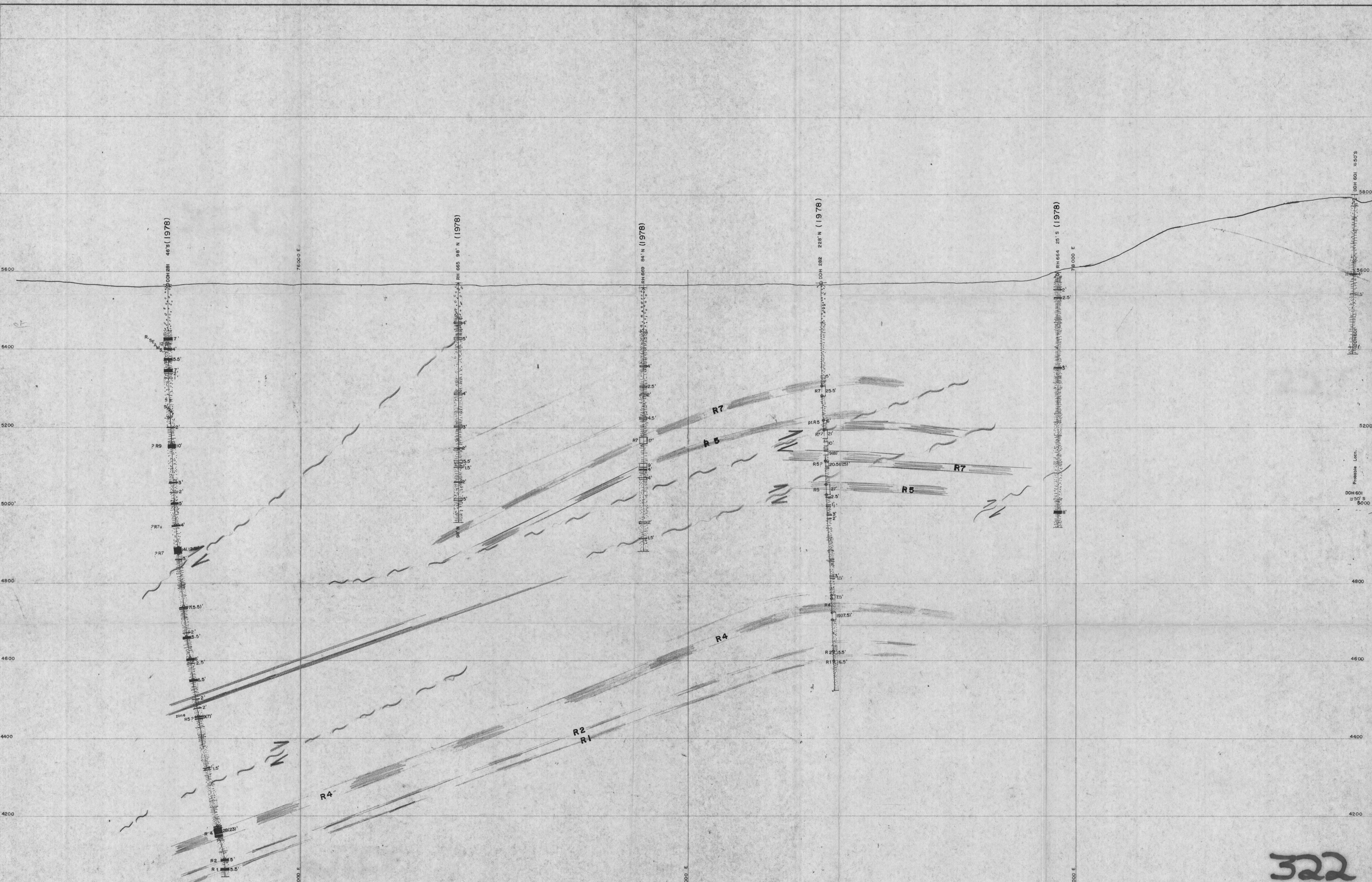
Revisions			
No.	Made by	Date	Description

Revisions			
No.	Made by	Date	Description
1	R.K.	OCT 77	1974: TOPOGRAPHY

Drawn by R.K. Nov. 10, 72
Fording Operations

GEOLOGICAL SECTIONS
 TURNBULL 500,500 N

Scale 1 Inch = 100 Feet
 Drawing No.
 322



322

ILLUST. NO. 14 K-FORDING R. 78 (2) B

Revisions				Revisions				Revisions			
No.	Made by	Date	Description	No.	Made by	Date	Description	No.	Made by	Date	Description

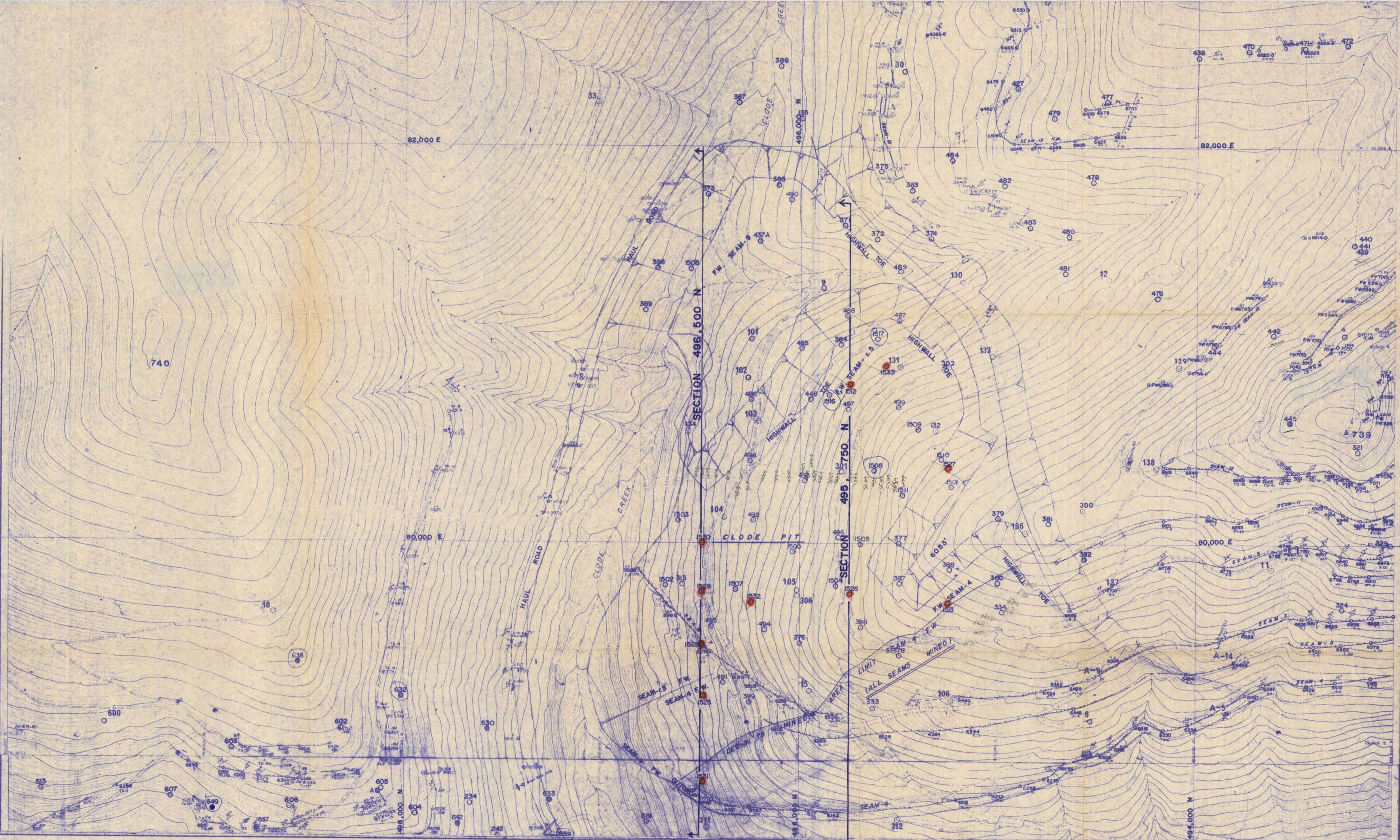
Drawn by R K
DEC '77

Fording Operations



WEST TURNBULL
503,000 N

Scale 1 Inch = 100 Feet
Drawing No.



V-FURDING C. 71(2)B ILLUSTR. NO. 15

● 1978 DRILL HOLE

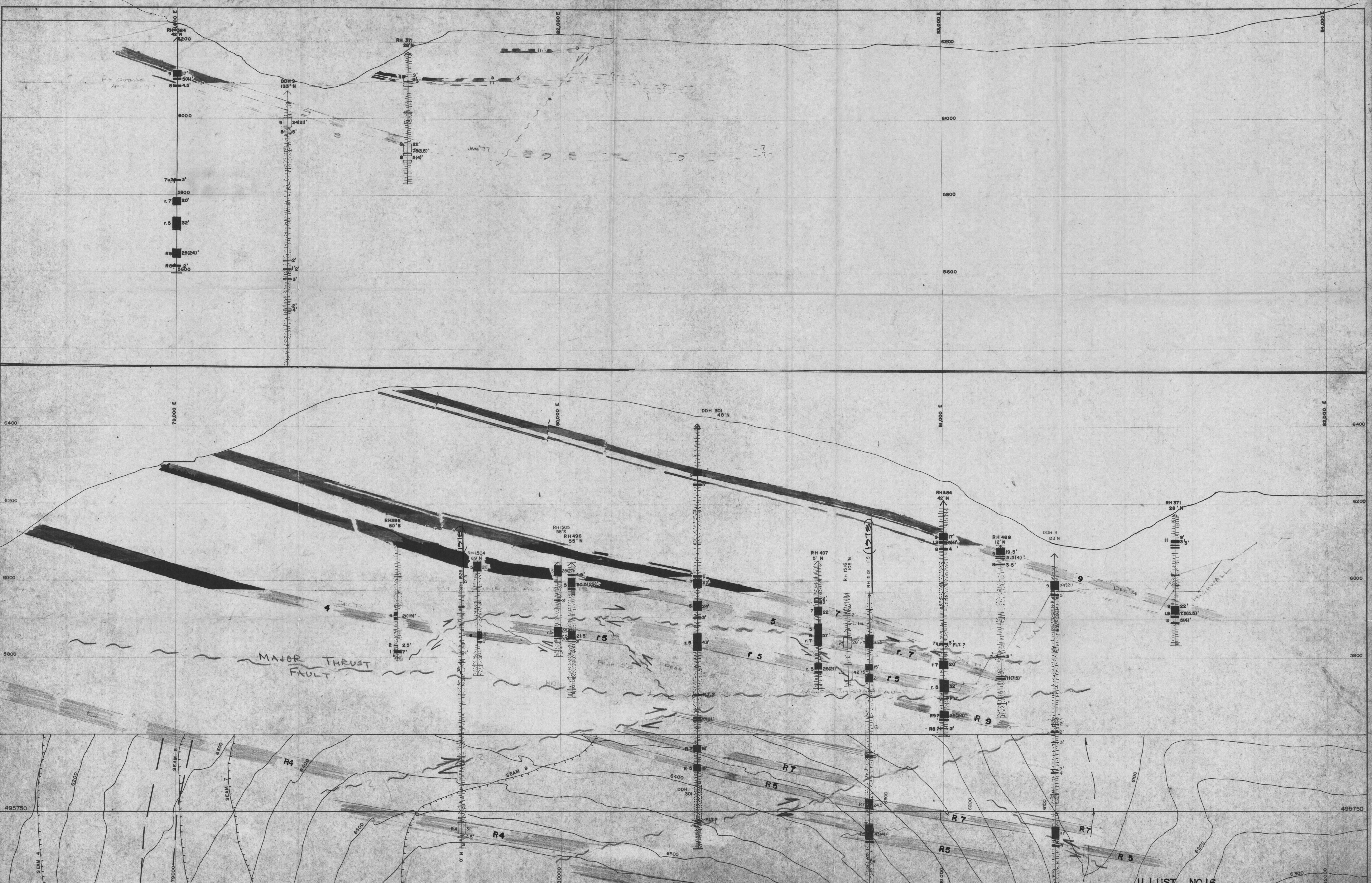
1978 EXPLORATION & DEVELOPMENT
(REPEAT SEAM DRILLING)

CLODE PIT

PLATE 3 SCALE 1" = 200'

RK. MAR 79

322



REVISIONS	REVISIONS	REVISIONS	REVISIONS
No.	Made by	Date	Description

Drawn by **R4**

29 2/71

Fording Operations

ILLUST. NO.16

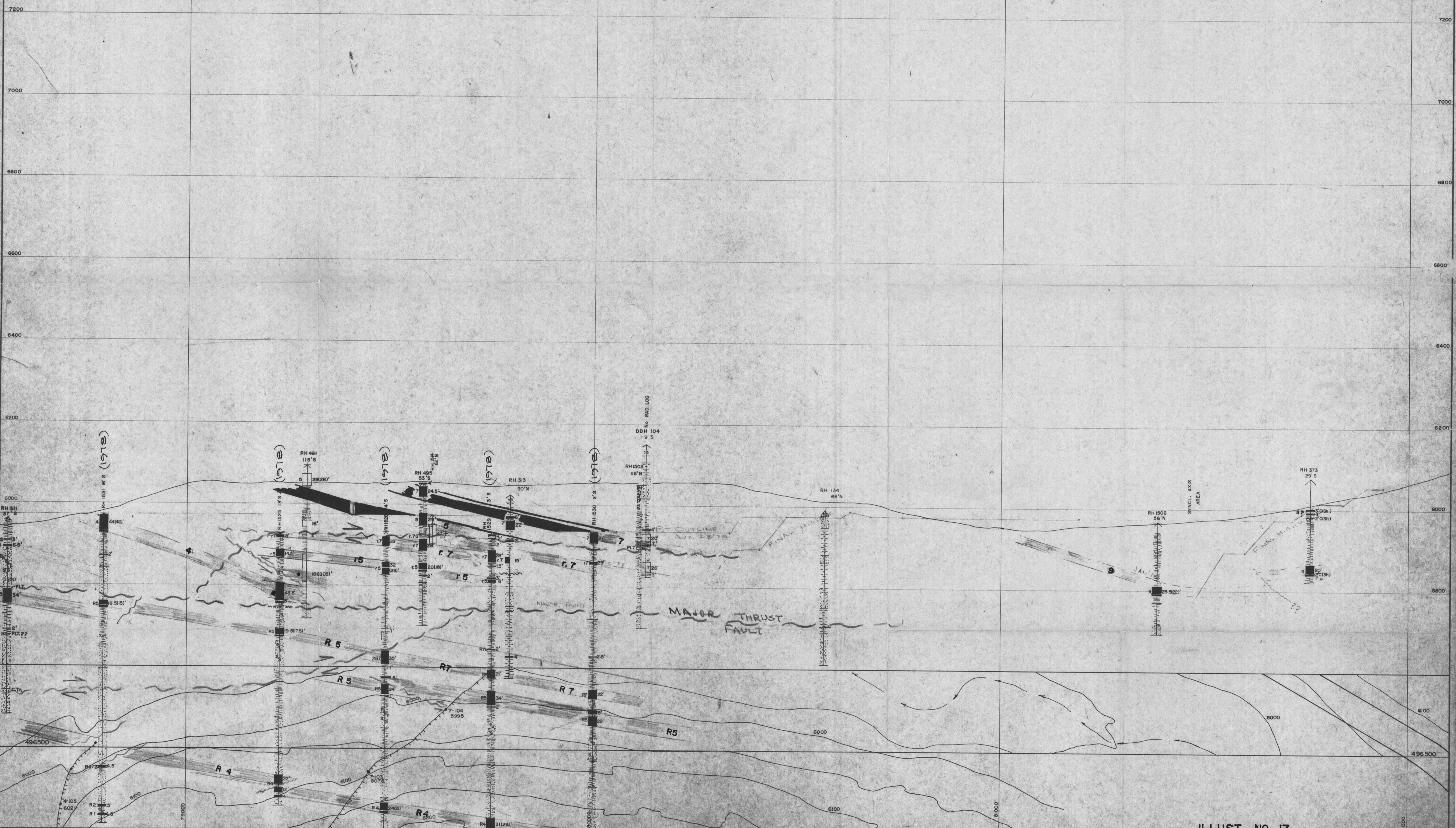
K-FORPING C. 78 (2) 15

Scale 1 inch = 100 Feet

Drawing No. **322**

GEOLOGICAL SECTIONS

CLODE PIT = 495750 N



REVISIONS			
No.	Made by	Date	Description

Drawn by *RBA* 6/11/71

Fording Operations



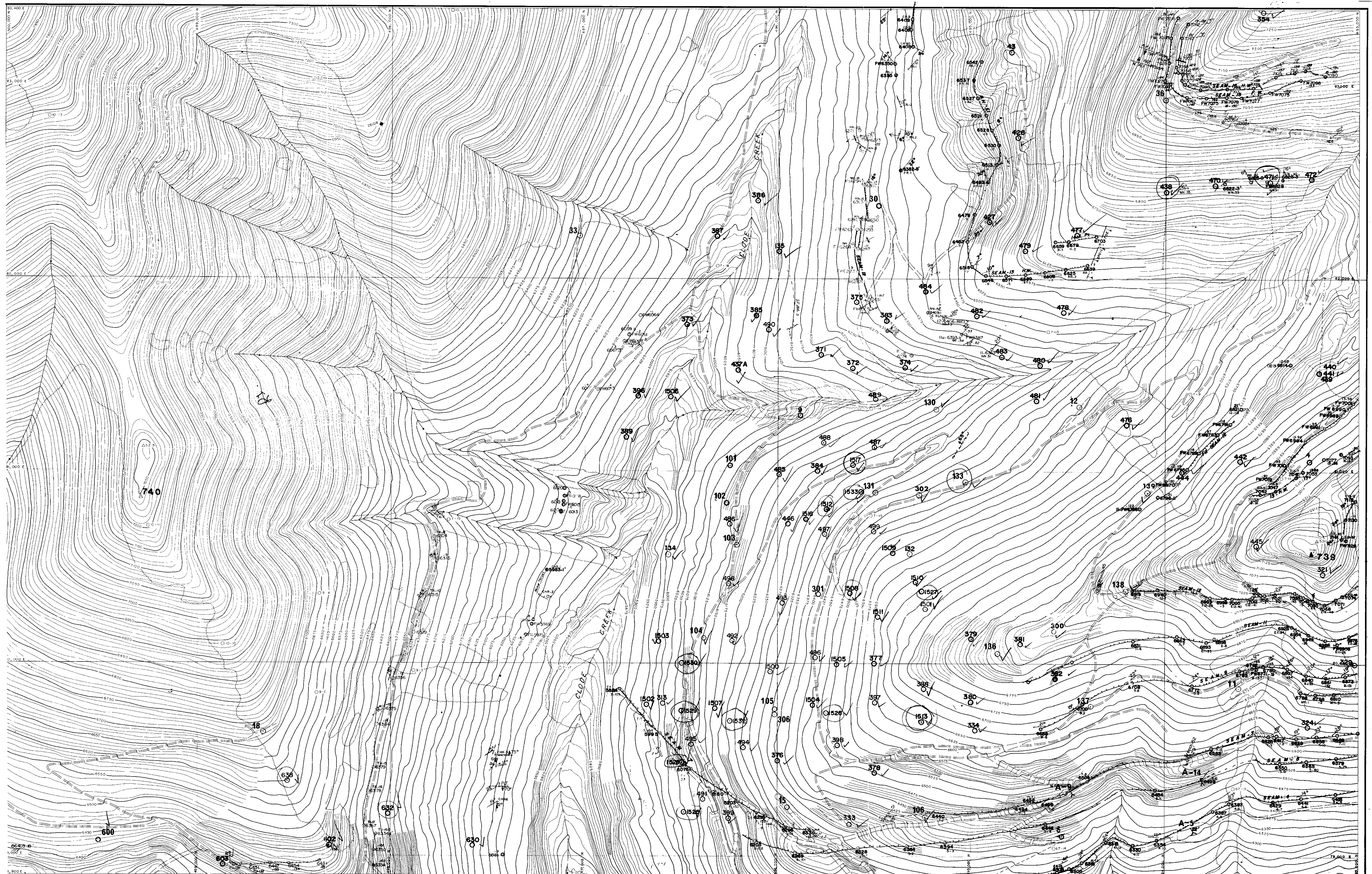
GEOLOGICAL SECTIONS

CLODE CR. = 496500 N

ILLUST. NO. 17 *K-FORING 11-71 (2) B*

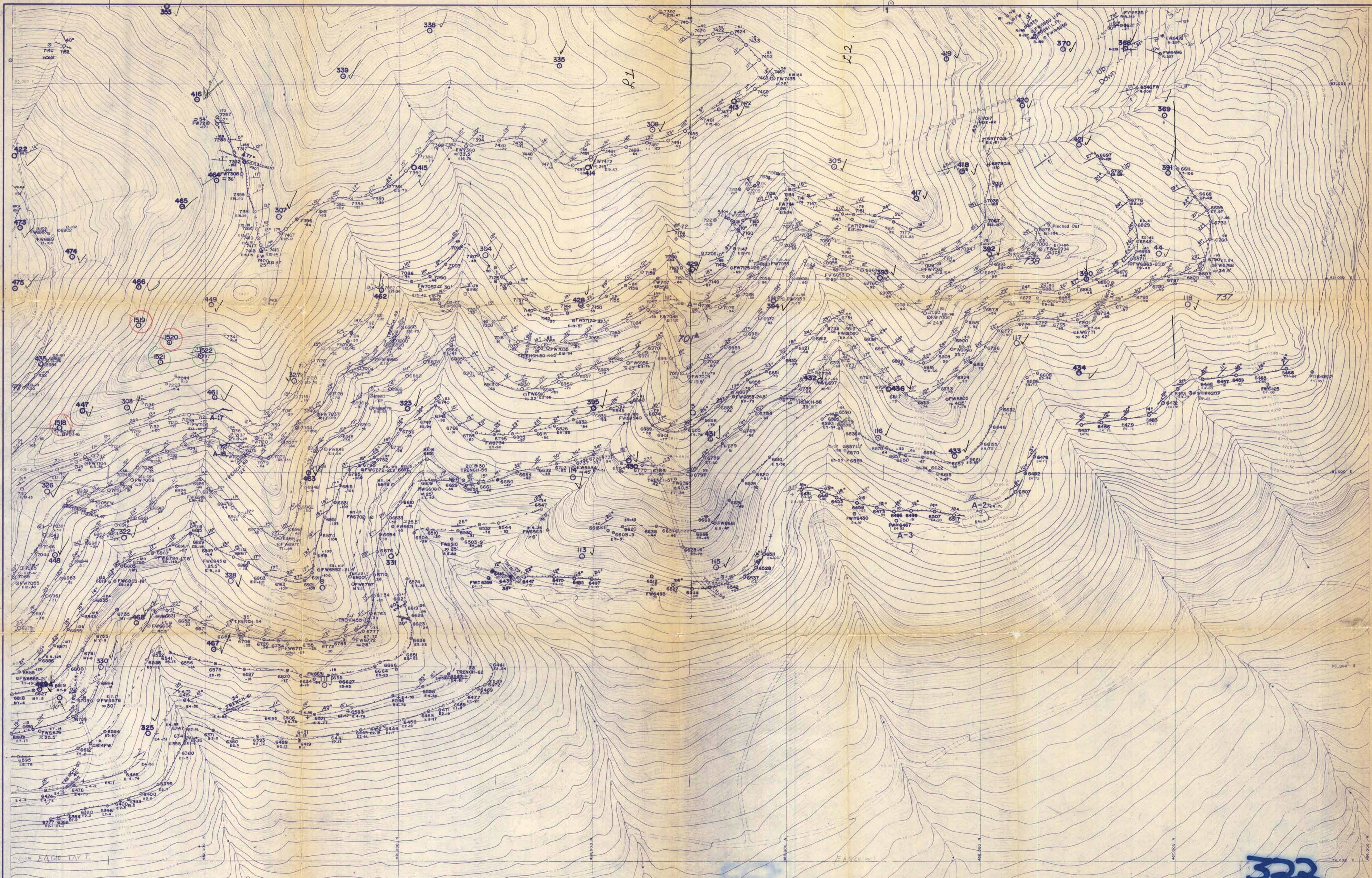
Scale 1 Inch = 100 Feet

Drawing No. **322**



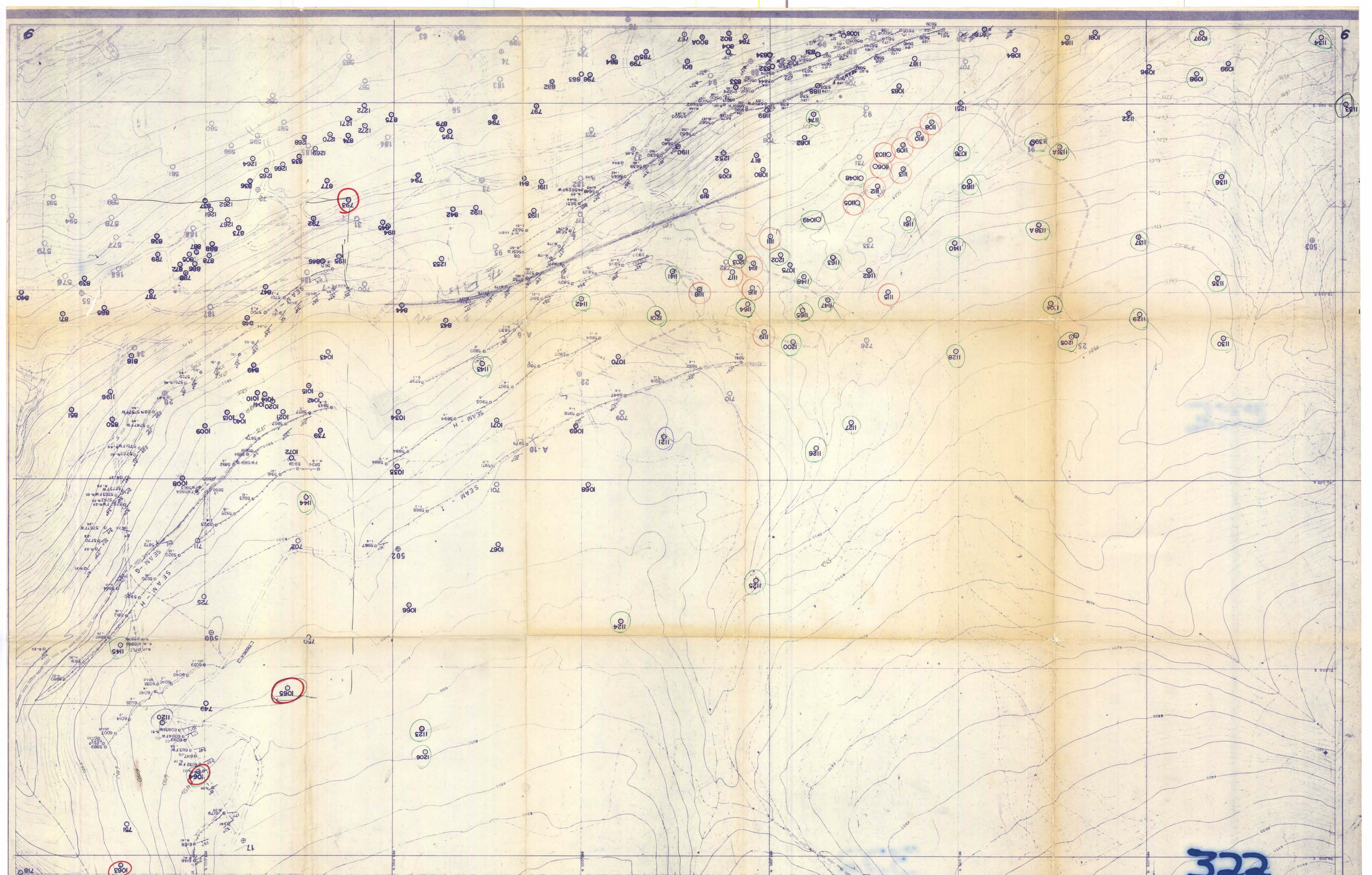
No. J. Revision No.		Topographic compilation by Lockwood Survey Corporation from aerial photography flown in 1966. Fair drawings by: McELHANNAY SURVEYING & ENGINEERING LTD. Job No. 05390-3		LEGEND Seam 'B' Seam 4 Seam 'D' Seam 5 Seam 'E' Seam 7		Issued to _____ _____ _____		REVISIONS <table border="1"> <thead> <tr> <th>No.</th> <th>Made by</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		No.	Made by	Date	Description					Drawn by _____ Checked by _____ Design Eng. _____ Proj. Eng. _____ Approved _____		Engineering 		Function _____ Activity _____ Section CLODE PIT AREA Job _____		Scale 1 Inch = 200 Feet Drawing No. 322-3 KEY 	
No.	Made by	Date	Description																						

DIGITIZE K-MIDNIGHT RIVER 78 (2) B.
 SAME AREA AS 322-FIG.15
GEOLOGY - DRILL HOLES - SEAM. Ore.



Job No. J	Topographic compilation by Lackwood Survey Corp. from aerial photography flown in 1979.	Seam B	Seam 4	Drawn by R.K.	Function Geology	Scale 1 inch = 200 Feet
Drawing No.	Fair drawings by McELHANNY SURVEYING & ENGINEERING, LTD.	Seam D	Seam 5	Checked by	Activity Seam Outcrop Survey	Drawing No. 3227
Revision	Job No. 05390-3	Seam E	Seam 7	Proj. Eng.	Section Eagle Mt. West Face	Revision
Reference				Approved	Job	KEY MAP
LEGEND						
Issued to						
Revisions						
No. Made by Date						
Description						

322
 Engineering **3227**
 Digitize
 K-FORDING RIVER 78(2)B



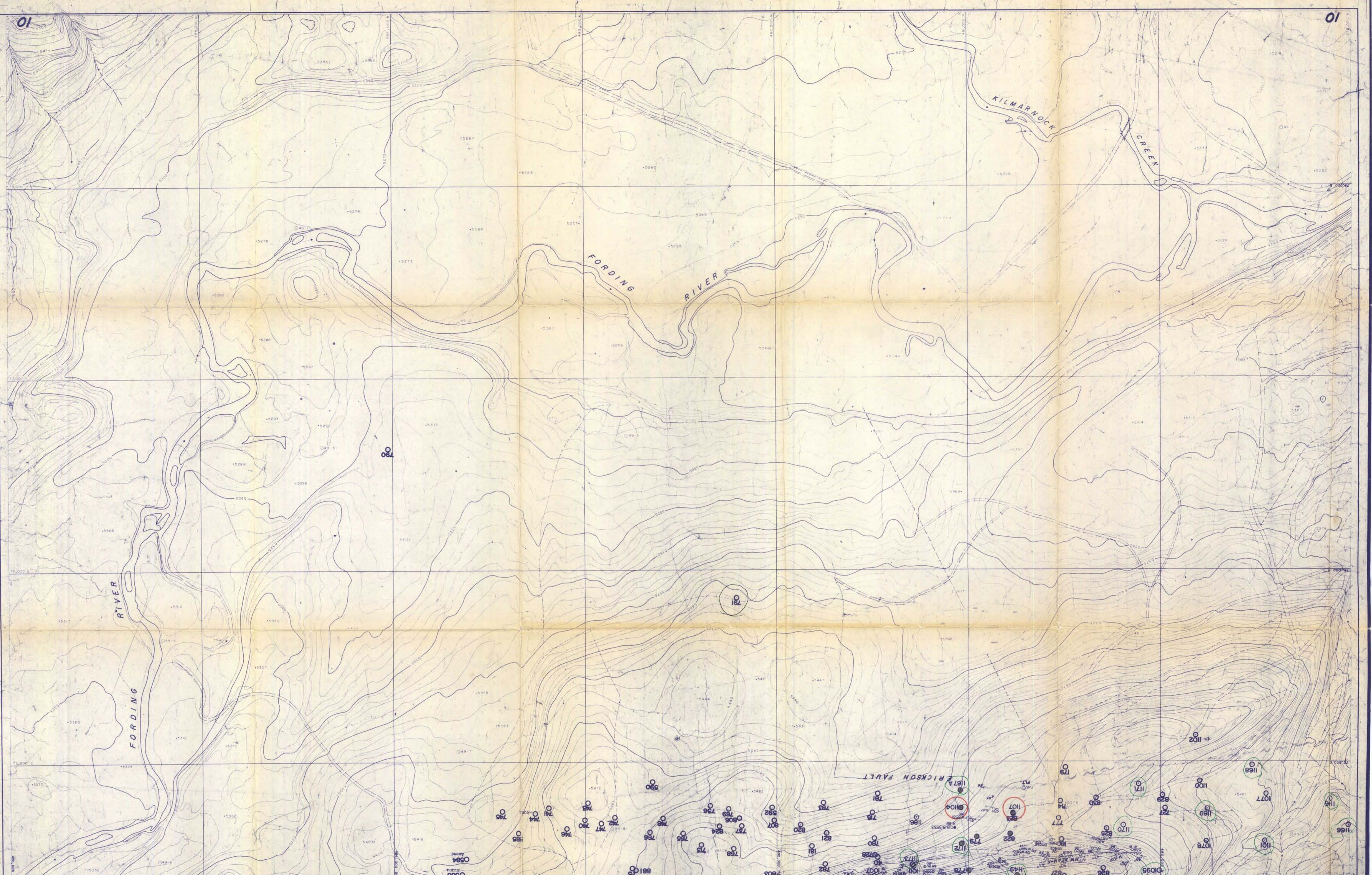
322

Job No. J. 813-001	Topographic compilation by McElhanney Surveying & Engineering Ltd. from aerial photography flown on July 28, 1968	Reference	Revisions	(Roads updated 14 July 1969 for 5' contour area) Oct 1970	Drawn by Checked by Design Eng Proj. Eng	Function Activity Section Job	Scale Drawing No.	Revision
FCO A 9 2	Job No. 0580-11		No. Made by Date Description		Engineering	GEOLGY DRILL HOLES & SEAM OUTCROP TOPGRAPHICAL MAP	1 inch to 200 Feet FCO A 9 3	3



KEY MAP

DIGITIZE
K. FORDING RIVER 74 (2) B.



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

Topographic compilation by Lockwood Survey Corporation from aerial photography flown in 1966.
 Fair drawings by:
 McELHANNAY SURVEYING & ENGINEERING LTD.
 Job No. 05390-3

Issued to:
 Reference:

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

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

Engineering

Function: GEOLOGY
 Activity: DRILL HOLES
 Section: GREENHILLS
 Job: TOPOGRAPHICAL MAP
 KEY MAP

Scale: 1 Inch = 200 Feet
 Drawing No. FCO A 10
 Revision: 2
 R-Fording River 78(2)R

DIGITIZE