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AND ASSOCIATES LTD.
CONSULTING GEOLOGICAL ENGINEERS

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VANCOUVER 1, B.C.

Report On
1973 Diamond Drilling Program
Carmacks Coal

Teslin Exploration Ltd.

Yukon Territorial Coal Licenses

15 NE Quarter - NTS 115I/1
16 East Half of NW Quarter - NTS 115I/1
17 SE Quarter - NTS 115I/1

M.P. Phillips
November, 1973

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Table 1 - Results of Coal Analysis - Birtley Engineering(Canada)
Ltd., Calgary, Alberta

Diamond Drill Hole Logs 73-1, 73-2, 73-3

Illustrations

Figure 1 - Plan Showing Location , Scale 1:1,000,000 - following page 1

Figure 2 - Plan Showing Location of Drill Holes , Scale 1:50,000 - in pocket

Figure 3 - Cross Section DDH 73-1 - in pocket

Figure 4 - Cross Section DDH 73-2 & 3 - in pocket

SUMMARY AND RECOMMENDATIONS

During the period October 21 to 25, 1973, Teslin Explorations Ltd. constructed one mile of access road and drilled three core holes totalling 517 feet on Coal Licenses 15 and 17 in the Carmacks area, Yukon.

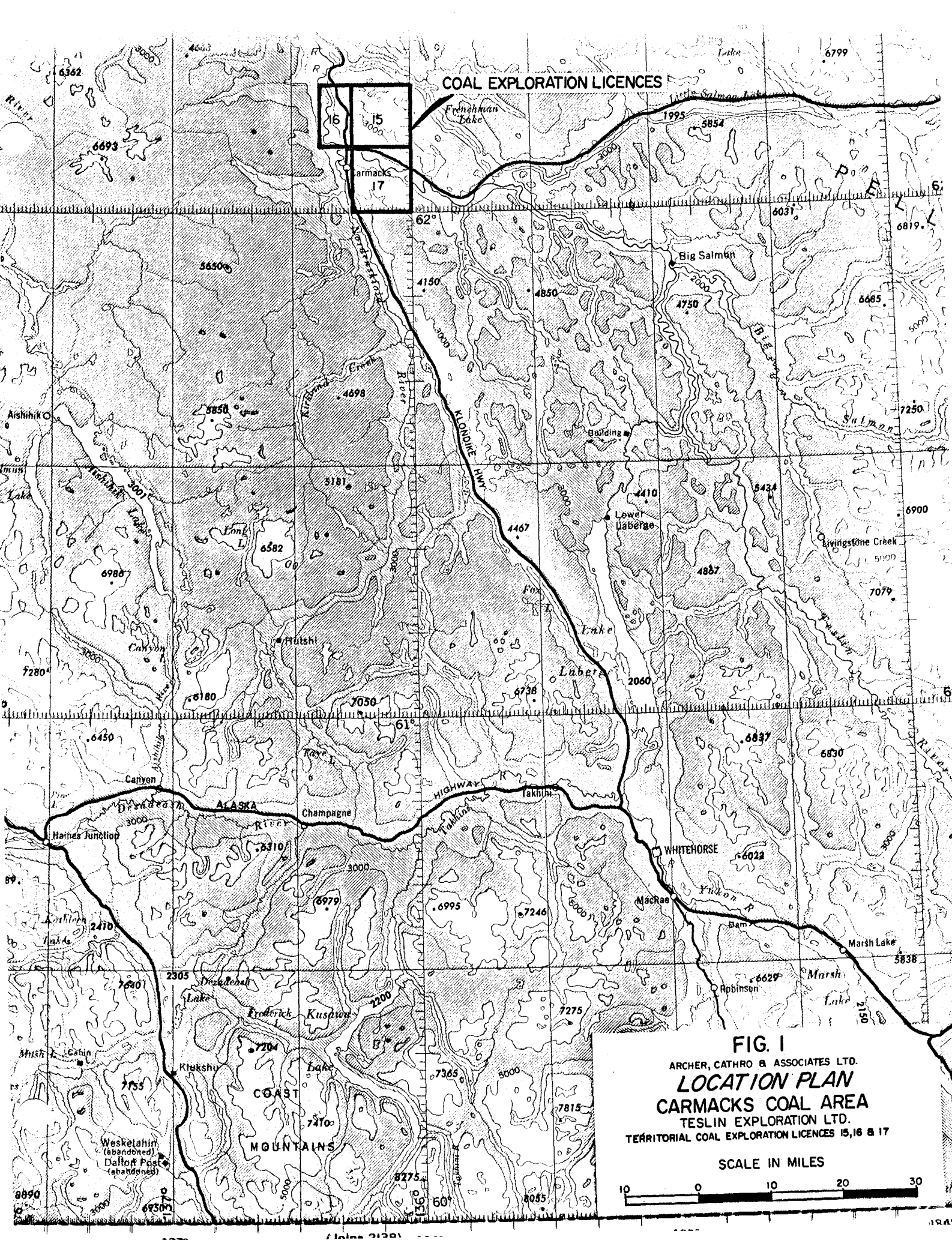
License 15 - Two holes (262 and 15 ft.) cut west dipping beds of the Tantalus Formation that contain partings and narrow bands of coal.

License 17 - Two core holes on License 17, one in 1971 and one in 1973, confirmed the presence of a ten foot thick seam (Teslin Seam) of coking-quality coal in the Laberge Series sediments, about 115 feet below the base of the Tantalus Formation.

If the economics of coal in the Carmacks area appear favourable, a geological trenching and diamond drilling program should be conducted to prove the continuity and quality of the coking coal seam. In preparation for this, two coal mining leases should be staked north of Leases 2955 and 2956 in Licenses 15 and 16, and four leases should be staked south and east of Leases 2949 and 2954 in License 17, or shown on Figure 2 in the pocket.

INTRODUCTION

The 1973 program was primarily aimed at resampling the coal seam intersected with poor recovery in 1971 Hole 71-2 on License 17. This seam was analyzed by the Fuel Research Centre, Mines Branch, Ottawa, which described it as a high-ash coking coal which might be suitable for the Japanese market if it could be suitably cleaned. Drilling on License 15 in 1973 was of an exploratory and geological nature. The program was supervised

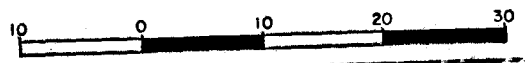


COAL EXPLORATION LICENCES

16
15
17

FIG. I
 ARCHER, CATRO & ASSOCIATES LTD.
LOCATION PLAN
CARMACKS COAL AREA
 TESLIN EXPLORATION LTD.
 TERRITORIAL COAL EXPLORATION LICENCES 15, 16 & 17

SCALE IN MILES



by M.P. Phillips of Archer, Cathro & Associates Ltd., Whitehorse.

PROPERTY

Teslin Exploration Ltd. holds three Territorial Coal Licenses within NTS map sheet 115I/1 in the Carmacks area, central Yukon. They were issued on September 2, 1970 and form a contiguous block comprising about 175 square miles, within which are several old coal leases owned by Anvil Mining Corp. Ltd. The Teslin Licenses are 15 (northeast quarter), 16 (east half of northwest quarter) and 17 (southeast quarter).

LOCATION AND ACCESS

Carmacks lies 100 miles north of Whitehorse, the terminus of the 120 mile narrow-gauge White Pass and Yukon Route railway from the port of Skagway, Alaska. The extension of the railhead to Carmacks has been discussed at recent meetings between White Pass and the Yukon Territorial Government and it is rumoured that this extension may take place within the next five years.

The Klondike Highway, an all weather gravel road from Whitehorse to Dawson, parallels the western boundary of License 17 through Carmacks and crosses License 16. The first twenty miles of this road has been paved in the past two years and pavement is scheduled to reach Carmacks by 1978. The all weather gravel Campbell Highway starts at Carmacks and passes through the northern part of License 17. A 5000 foot gravel airstrip is situated three miles east of Carmacks on the Campbell Highway. The

Whitehorse-Faro power line, which supplies Anvil Mining Corporation crosses License 17.

Access for the drilling on License 15 is provided by a good one mile bush road which leaves the Klondike Highway at M.P. 107.7 , about four miles north of Carmacks. License 16 is crossed by the Klondike Highway and access to the Five Fingers Mines area is provided by a 3.5 mile road constructed by Teslin in 1971. In 1966, Anvil Mining Corporation constructed an access road from M.P. 100.5 on the Klondike Highway to coal leases south of Carmacks. Teslin extended this road 4000 feet during 1971. This road is only passable by four wheel drive vehicles during freeze-up.

TOPOGRAPHY

These licenses lie within the Yukon Plateau . Relief is moderate, consisting of rolling hills and broad flat valleys. Elevations vary from 1700 to 3000 feet. Glacial till covers large areas. Deep ravines and creeks have in places cut through the glacial till and exposed bedrock. Permafrost conditions exist below spruce and pine covered, north-facing slopes . South facing slopes are usually covered by grass and aspen groves.

HISTORY

Dr. G.M. Dawson of the Geological Survey of Canada made the first report of coal occurrences in the Five Fingers and Carmacks area in 1887.

Coal was produced from the Five Fingers and Tantalus Mines around the turn of the century for use on riverboats. The longest coal mining operation has been at the Tantalus Butte Mine which has produced from 1923 to 1967 and from 1969 to the present. Coal was supplied during this period to Carmacks, Dawson and United Keno Hill Mines at Elsa. In 1969 the mine was re-opened to supply coal to Anvil Mine where it is used for plant heating and concentrate drying.

In December, 1965, Anvil staked coal mining leases around the Tantalus and Tantalus Butte Mines and acquired leased ground near the Five Fingers Mine. From 1966 to 1968, Anvil constructed access roads and carried out a trenching and drilling program, and topographic surveys on the leases south of Carmacks.

In 1971, Teslin constructed a 3.5 mile road to a point 4000 feet south of the Five Fingers Mine where a 188 foot core hole was drilled on License 16. On License 17, a 3/4 mile extension to the Anvil access road permitted the drilling of a 310 foot core hole. Details of this work is covered in a report by J.F. Hlavay , P.Eng. 1971.

In 1972 a reconnaissance photogeological map covering the three license areas was prepared by Teslin Explorations Ltd.

GEOLOGY

Regional

Coal occurrences in the Carmacks area occur in clastic units within the Jurassic-Lower Cretaceous Laberge Series and Tantalus Formation. The Laberge Series comprises alternating sandstone and shale with narrow conglomerate beds and is overlain disconformably by Tantalus Formation conglomerates with subordinate sandstone and shale. The beds have been folded into tight, northwest trending synclines and anticlines. Both units are intruded and overlain by volcanic rocks of the Mt. Nansen and Carmacks Series. Glacial and alluvial cover is extensive, resulting in poor exposure of coal bearing rock. This factor has inhibited coal exploration and development.

Coal Licenses

- (1) License 17: The closest bedrock exposures are one mile northwest

of the Teslin holes on leases owned by Anvil Mining Corporation. A steeply east dipping, north to northwest trending, 30 foot thick coal seam has been exposed by trenching in Tantalus Formation. This seam may be a southern extension of the Tantalus Mine seam. Reflectance tests by Dr. P.A. Hacquebard of the Coal Section, Geological Survey of Canada, have shown that the Tantalus Mines seam and the Tantalus Butte seam are the same.

Hole 71-2, drilled to the east at a dip of 60° was sited on the basis of airphoto interpretation to cut beds on the east limb of a tightly folded syncline. Hole 73-1 was drilled beside Hole 71-2 (same dip and direction) and intersected the base of the Tantalus Formation and upper beds of the Laberge Series. Four coal seams less than 1.0 feet thick and a 10.4 foot coal seam (Teslin Seam) interbedded with mudstone was cut in this hole.

The following stratigraphic units were recognized:

Laberge Series

- Sandstone - Dark grey in color, generally very fine grained, rare subordinate medium grained; massive to finely bedded with occasional black mudstone partings.
- Siltstone - Black to dark grey; massive; rarely finely interbedded with black mudstone and fine grained sandstone.
- Mudstone - Black; massive; sometimes slightly silty with carbonaceous shale and bright shiny coal partings and narrow lenses.
- Coal - The upper part of the coal seams are interbedded partings and lenses of carbonaceous shale, mudstone and coal, gradually changing to a bright shiny coal.

The Teslin seam is 10.4 feet thick and consists of a lower 4.1 foot coal band overlain by black mudstone with numerous partings, narrow lenses and bands of coal.

Tantalus Formation

Conglomerate - Well packed; subangular to subrounded pebbles of black chert, white quartz and greenish quartzite up to one inch in diameter in a grit matrix of the same composition.

License 15

The closest bedrock exposure is Tantalus Formation grit which outcrops about 2000 feet south of Hole 73-2. Bedding strikes north and dips steeply east. Hole 73-1 was drilled to the west to cut the bedding but intersected beds dipping parallel to the drill hole. Hole 73-3 was drilled to determine the bedding attitude. The holes cut conglomerate, grit, sandstone, siltstone and mudstone of the Tantalus Formation and intrusive andesite. Coal partings and lenses up to 0.3 feet wide are present in all the sediments.

CORE LOGGING AND SAMPLING

All core was transported to Whitehorse by truck where it was logged, sampled and stored at the Core Library of the Yukon Resident Geologist, Dept. of Indian Affairs and Northern Development. Logs for the holes are included in the Appendix of this report. Whole core sampling was carried out only on the Teslin Seam in Hole 73-1 and samples were sent to Birtley Engineering (Canada) Ltd. of Calgary, Alberta for analysis. Details of the sampling is as follows:

<u>Sample No.</u>	<u>From</u>	<u>To</u>	<u>Length(ft)</u>	<u>Recovery(ft)</u>	<u>Description</u>
A369	166.1	171.9	5.8	5.3	coal, mudstone
	171.9	172.4	0.5	not sampled	siltstone
370	172.4	176.5	4.1	2.8	coal

COAL ANALYSIS

Results of Birtley Engineering's analysis are shown in Table 1 at the end of this report and are discussed in a separate report by Birtley.

DIAMOND DRILLING

Drill contractor was E. Caron Diamond Drilling of Whitehorse, which supplied a Longyear 38 wireline drill machine and ancillary equipment to drill HQ (2.5 inch diameter) core holes. A D6 bulldozer was used to move the drill. Coring charges were \$9.75 per foot. Other work was charged at field cost. The drill crew were lodged at the Carmacks Hotel. The only serious delay was in Hole 73-2 when caving behind the core barrel at the bottom of the hole resulted in the drill rods separating from the core barrel. Water was supplied to the drill from lakes near the drillsites. A drilling mud solution and various additives was used as a circulation medium. Core recovery varied from 98 to 100 per cent and was slightly lower in the soft coal and mudstone bands. The use of drilling mud, large core diameter, five foot core barrel and experienced drillers were responsible for the excellent core recovery. An acid test at the bottom of Hole 73-1 showed that the hole dip remained constant. No delays were encountered by mechanical breakdowns to the drill machine. Total drilling cost including mobilization and demobilization of equipment and lodging for the drillers was \$24.60 per foot to drill 517 feet.

ROAD CONSTRUCTION

In September 1973, A. Wheeler of Carmacks constructed a one mile road from mile 107.7 on the Klondike Highway, using a D8 bulldozer with blade and ripper, to provide access to License 15.

Cleared brush and trees were buried with dirt as requested by the Yukon Forest Service.

GEOPHYSICAL TESTS

Induced Polarization(I.P.) Survey

On September 5, 1973, T.R.B. Dundas of Kenting Earth Sciences Limited, Calgary, accompanied by the writer, carried out a test I.P. survey across the coal seams at the Tantalus Butte and Tantalus Mines. Results of the survey indicate that the coal seams do not give a detectable I.P. response. Detail of the survey are given in a report by T.R.B. Dundas dated September, 1973.

Electromagnetic (EM 16) Survey

On October 27, the writer assisted Steve Presunka in conducting a test EM 16 survey across two recently trenched coal seams located approximately one mile north of the Tantalus Butte Mine and another test line across the Tantalus Mine Seam. EM 16 measures the secondary fields set up when signals from VLF submarine communications stations meet conductive bodies. Results of these tests indicate that the Carmacks coal seams have a higher conductivity than the surrounding rocks and give detectable anomalies. Conductivity tests carried out in Whitehorse on individual lumps of coal showed that the coal was not conductive. Residual moisture must have been lost when the lump of coal was exposed to room temperature.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES LTD.

M.P. Phillips

TESLIN EXPLORATION

A-00369

RAW ANALYSIS

November 2nd, 1973

<u>Ash %</u>	<u>RM %</u>	<u>VM %</u>	<u>FC %</u>	<u>F.S.I.</u>
69.6	1.5	14.0	14.9	1

SIZE ANALYSIS

<u>Size Fraction</u>	<u>Wt %</u>	<u>Ash %</u>	<u>Cum Wt %</u>	<u>Cum Ash %</u>	<u>F.S.I.</u>
1/4" x 28M	89.0	73.8	89.0	73.8	½
28M x 0	11.0	37.6	100.0	69.8	6½

SINK-FLOAT ANALYSIS: 1/4" x 28M

<u>S. G. Fraction</u>	<u>Wt %</u>	<u>Ash %</u>	<u>Cum Wt %</u>	<u>Cum Ash %</u>	<u>F.S.I.</u>
-1.50	6.5	14.3	6.5	14.3	8
+1.50	93.5	77.1	100.0	73.0	N.A.

FROTH FLOTATION: 28M x 0

Reagent Dosage = 0.48 lb/ton, Kerosene:MIBC 4:1

<u>F. F. Fraction</u>	<u>Wt %</u>	<u>Ash %</u>	<u>Cum Wt %</u>	<u>Cum Ash %</u>	<u>F.S.I.</u>
Conc.	49.7	18.0	49.7	18.0	8
Tails	50.3	58.8	100.0	38.5	1

* Conc. is froth collected in 1 1/2 minutes after 1 minute conditioning.

Birtley Engineering (Canada) Ltd

Coal Science and Minerals Testing Division

5112 - 3rd St. S.E. Calgary, Alberta T2H 1J6

TESLIN EXPLORATION

A-00370

RAW ANALYSIS

November 2nd, 1973

<u>Ash %</u>	<u>RM %</u>	<u>VM %</u>	<u>FC %</u>	<u>F.S.I.</u>
30.4	1.0	26.8	41.8	7

SIZE ANALYSIS

<u>Size Fraction</u>	<u>Wt %</u>	<u>Ash %</u>	<u>Cum Wt %</u>	<u>Cum Ash %</u>	<u>F.S.I.</u>
1/4" x 28M	76.5	33.2	76.5	33.2	6½
28M x 0	23.5	21.2	100.0	30.4	7½

SINK-FLOAT ANALYSIS: 1/4" x 28M

<u>S. G. Fraction</u>	<u>Wt %</u>	<u>Ash %</u>	<u>Cum Wt %</u>	<u>Cum Ash %</u>	<u>F.S.I.</u>
-1.50	42.3	13.7	42.3	13.7	8
+1.50	57.7	46.3	100.0	32.5	1

FROTH FLOTATION: 28M x 0

Reagent Dosage = 0.48 lb/ton, Kerosene:MIBC 4:1

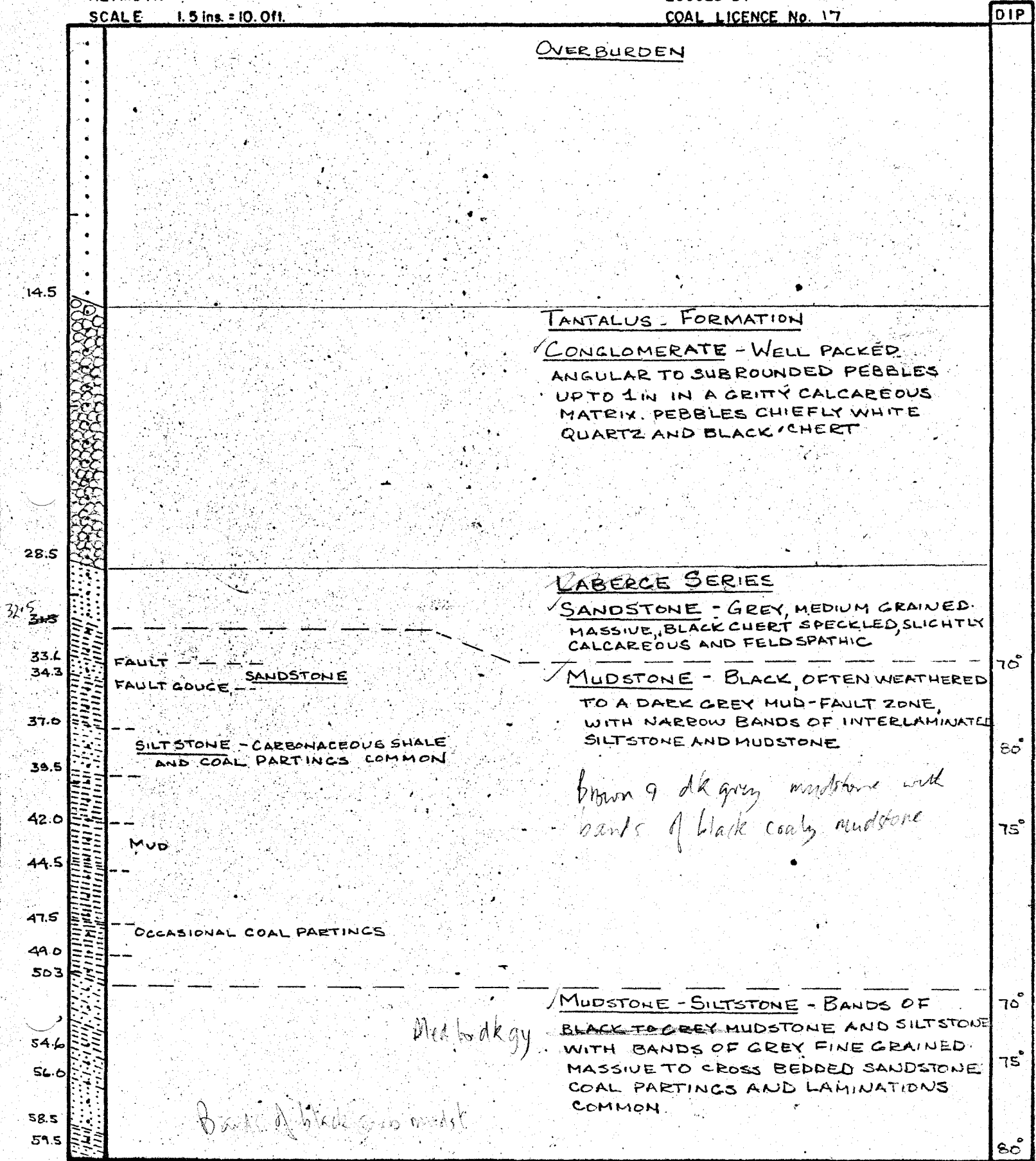
<u>F. F. Fraction</u>	<u>Wt %</u>	<u>Ash %</u>	<u>Cum Wt %</u>	<u>Cum Ash %</u>	<u>F.S.I.</u>
Conc.	65.1	13.1	65.1	13.1	8½
Tails	34.9	37.0	100.0	21.4	6½

* Conc. is froth collected in 1 1/2 minutes after 1 minute conditioning.

DRILL HOLE LOG
TESLIN EXPLORATION LTD.
CARMACKS AREA

COORDINATES
ELEVATION
DIP - 60°
AZIMUTH 090°
SCALE 1.5 ins. = 10.0 ft.

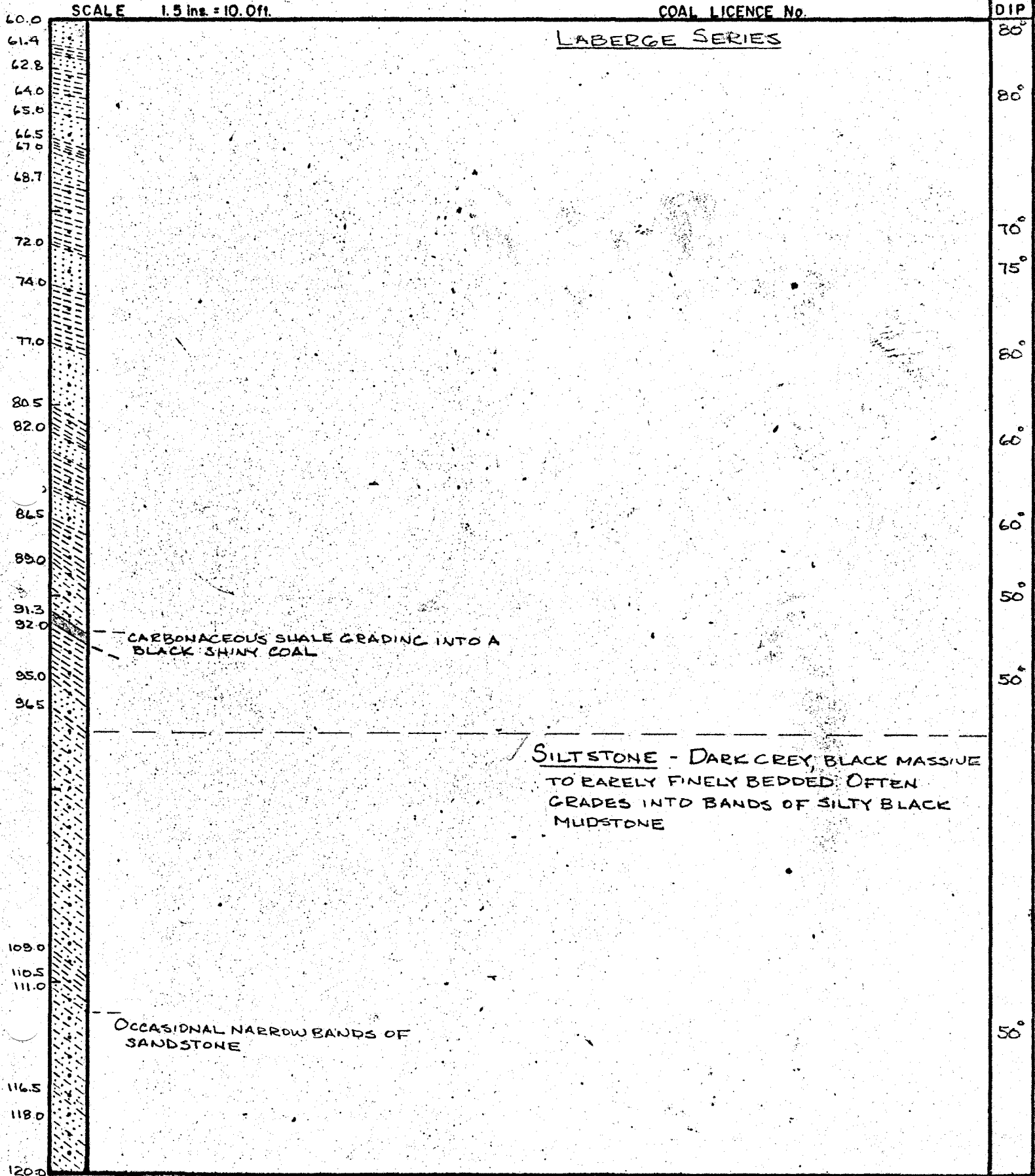
CORE SIZE HQ
HOLE STARTED OCTOBER 14, 1973
HOLE COMPLETED OCTOBER 19, 1973
LOGGED BY M.P. PHILLIPS
COAL LICENCE No. 17



DRILL HOLE LOG
TESLIN EXPLORATION LTD.
CARMACKS AREA

COORDINATES
ELEVATION
DIP
AZIMUTH
SCALE 1.5 ins. = 10.0 ft.

CORE SIZE
HOLE STARTED
HOLE COMPLETED
LOGGED BY
COAL LICENCE No.



LABERGE SERIES

CARBONACEOUS SHALE GRADING INTO A
BLACK SHINY COAL

SILTSTONE - DARK GREY, BLACK MASSIVE
TO RARELY FINELY BEDDED. OFTEN
GRADES INTO BANDS OF SILTY BLACK
MUDSTONE

OCCASIONAL NARROW BANDS OF
SANDSTONE

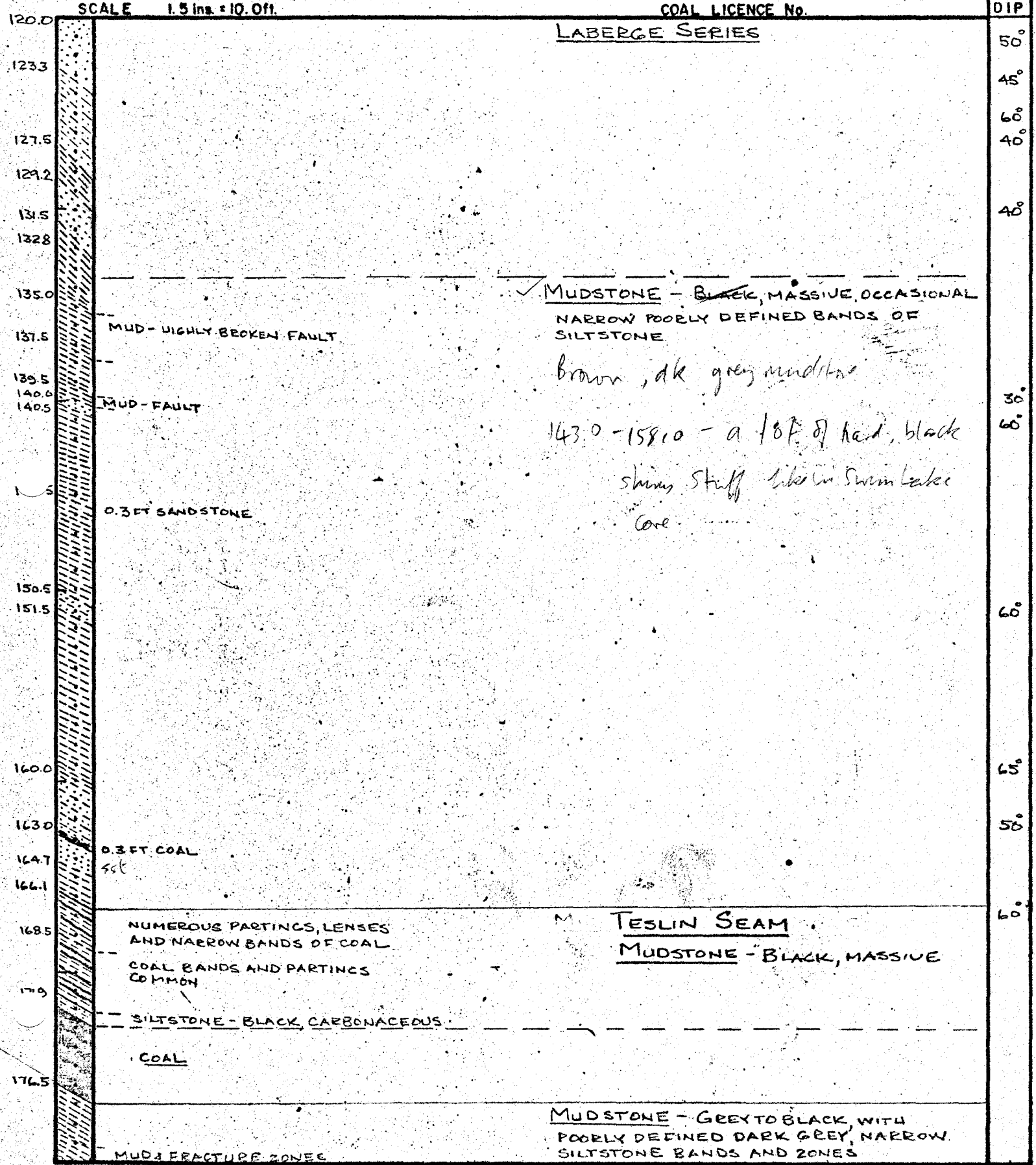
60.0
61.4
62.8
64.0
65.0
66.5
67.0
68.7
72.0
74.0
77.0
80.5
82.0
86.5
89.0
91.3
92.0
95.0
96.5
109.0
110.5
111.0
116.5
118.0
120.0

DIP
80°
80°
70°
75°
80°
60°
60°
50°
50°
50°

DRILL HOLE LOG
TESLIN EXPLORATION LTD.
CARMACKS AREA

COORDINATES
ELEVATION
DIP
AZIMUTH
SCALE 1.5 ins. = 10.0 ft.

CORE SIZE
HOLE STARTED
HOLE COMPLETED
LOGGED BY
COAL LICENCE No.

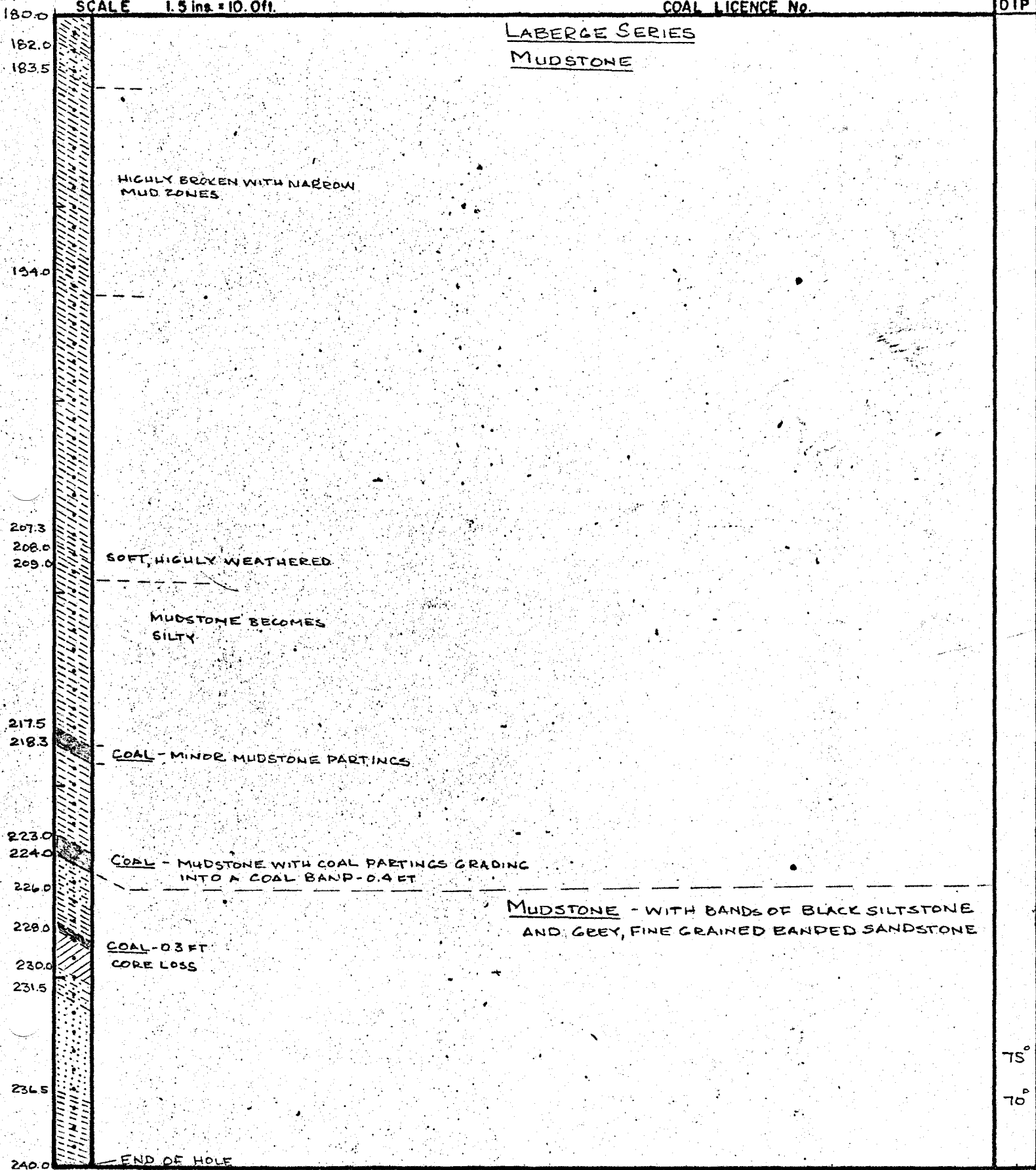


DRILL HOLE LOG
TESLIN EXPLORATION LTD.
CARMACKS AREA

COORDINATES
 ELEVATION
 DIP
 AZIMUTH
 SCALE 1.5 ins. = 10.0 ft.

CORE SIZE
 HOLE STARTED
 HOLE COMPLETED
 LOGGED BY
 COAL LICENCE No.

DIP

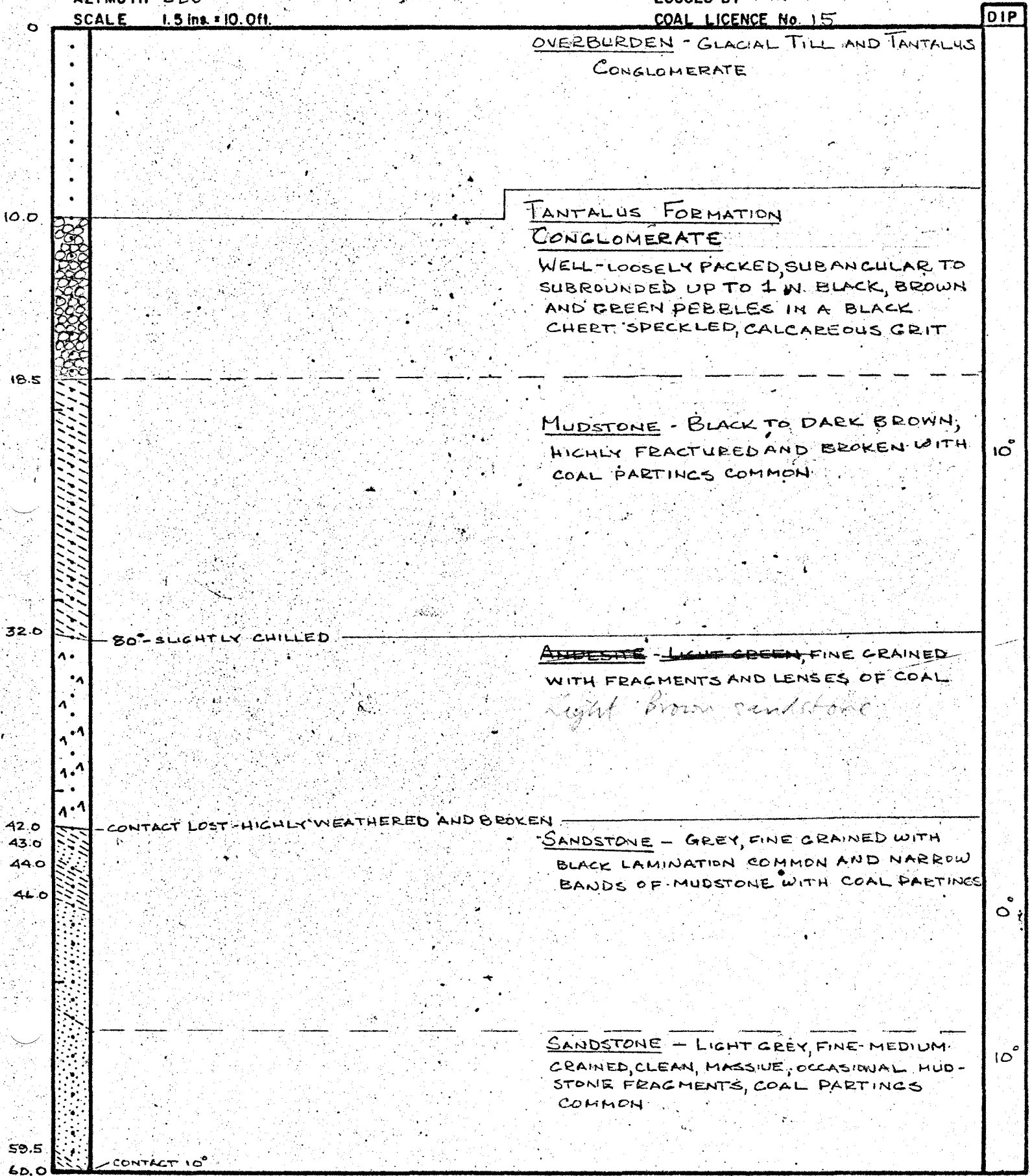


75°
 70°

DRILL HOLE LOG
TESLIN EXPLORATION LTD.
CARMACKS AREA

COORDINATES
 ELEVATION
 DIP - 50°
 AZIMUTH 285°
 SCALE 1.5 ins. = 10.0 ft.

CORE SIZE HQ
 HOLE STARTED OCTOBER 21, 1973
 HOLE COMPLETED OCTOBER 25, 1973
 LOGGED BY M.P. PHILLIPS
 COAL LICENCE No. 15



DRILL HOLE LOG
TESLIN EXPLORATION LTD.
CARMACKS AREA

COORDINATES
ELEVATION
DIP
AZIMUTH
SCALE 1.5 ins. = 10.0 ft.

CORE SIZE
HOLE STARTED
HOLE COMPLETED
LOGGED BY
COAL LICENCE No.

60.0

DIP

TANTALUS FORMATION

MUDSTONE - BLACK, HIGHLY WEATHERED
AND DECOMPOSED, MINOR COAL AND
CARBONACEOUS SHALE PARTINGS

10°
20°

92.0

MUDSTONE - BLACK MASSIVE, KHAKI
COLORED ALONG FRACTURES AND BEDDING
PLANES, PARTINGS AND UP TO 1/2 IN LENSES
OF BLACK SHINY COAL

10°
20°

99.5

--- TRANSITION

SLIGHTLY SILTY

107.0

--- TRANSITION

10°

119.0

SILTSTONE

120.0

DRILL HOLE LOG
TESLIN EXPLORATION LTD.
CARMACKS AREA

COORDINATES
ELEVATION
DIP
AZIMUTH
SCALE 1.5 ins. = 10.0 ft.

CORE SIZE
HOLE STARTED
HOLE COMPLETED
LOGGED BY
COAL LICENCE No.

DIP

120.0
126.5
130.4
141.4
153.0
157.0
162.0
165.5
178.0
180.0

TANTALUS FORMATION

SILTSTONE - DARK GREY - BLACK, SHALY
OFTEN GRADING INTO NARROW POORLY DEFINED
BANDS OF VERY FINE GRAINED SANDSTONE
RARE CARBONACEOUS SHALE AND COAL
PARTINGS

MUDSTONE - BLACK AND DARK GREY,
INTERBEDDED AND INTERLAMINATED

CONGLOMERATE - WELL PACKED, UP TO
1 1/2 IN., SUBANGULAR TO SUBROUNDED
PEBBLES OF BLACK-LIGHT BROWN CHERT
AND WHITE QUARTZ IN A CALCAREOUS
GRIT MATRIX

20° CONTACT

MUDSTONE - BLACK - DARK GREY, SLIGHTLY
SILTY, MINOR SILT PARTINGS

CONGLOMERATE

GRIT - YELLOW, FELDSPATHIC, BLACK CHERT
SPECKLED, SCATTERED SUBROUNDED -
SUBANGULAR PEBBLES UP TO 1 IN

20°

SILTSTONE - BLACK TO DARK GREY,
GRADING INTO A BLACK MUDSTONE

CONGLOMERATE - OFTEN GRADING
INTO A PEBBLY FELDSPATHIC GRIT

--- HIGHLY WEATHERED
BLACK SAND - FAULT ZONE

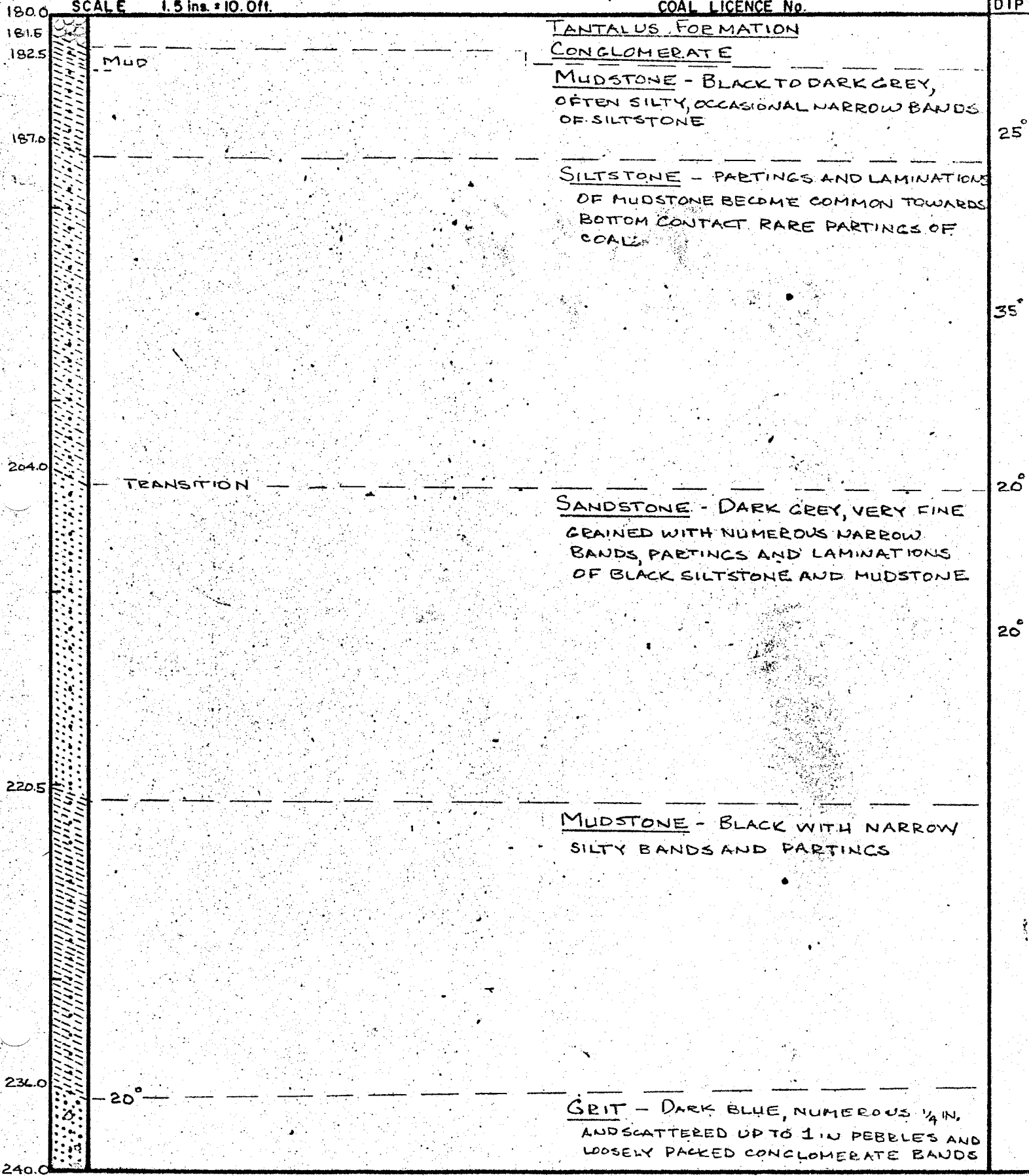
10°

20°

DRILL HOLE LOG
TESLIN EXPLORATION LTD.
CARMACKS AREA

COORDINATES
 ELEVATION
 DIP
 AZIMUTH
 SCALE 1.5 ins. = 10.0 ft.

CORE SIZE
 HOLE STARTED
 HOLE COMPLETED
 LOGGED BY
 COAL LICENCE No.

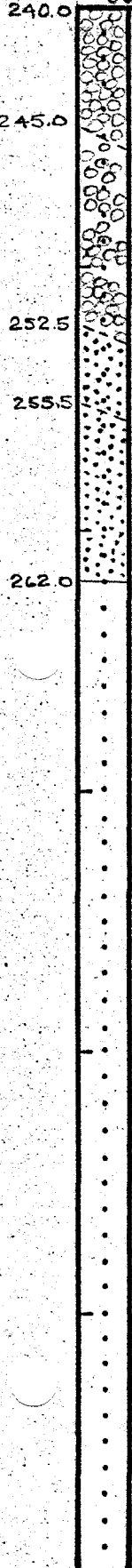


DRILL HOLE LOG
TESLIN EXPLORATION LTD.
CARMACKS AREA

COORDINATES
ELEVATION
DIP
AZIMUTH
SCALE 1.5 ins. = 10.0 ft.

CORE SIZE
HOLE STARTED
HOLE COMPLETED
LOGGED BY
COAL LICENCE No.

DIP



TANTALUS FORMATION
CONGLOMERATE - LOOSE TO WELL PACKED
WITH OCCASIONAL NARROW PEBBLY
BLUE GRIT BANDS.

PARTINGS AND LENSES OF COAL AND
CARBONACEOUS SHALE COMMON

LENSES AND BANDS UP TO 1/2 IN
OF COAL

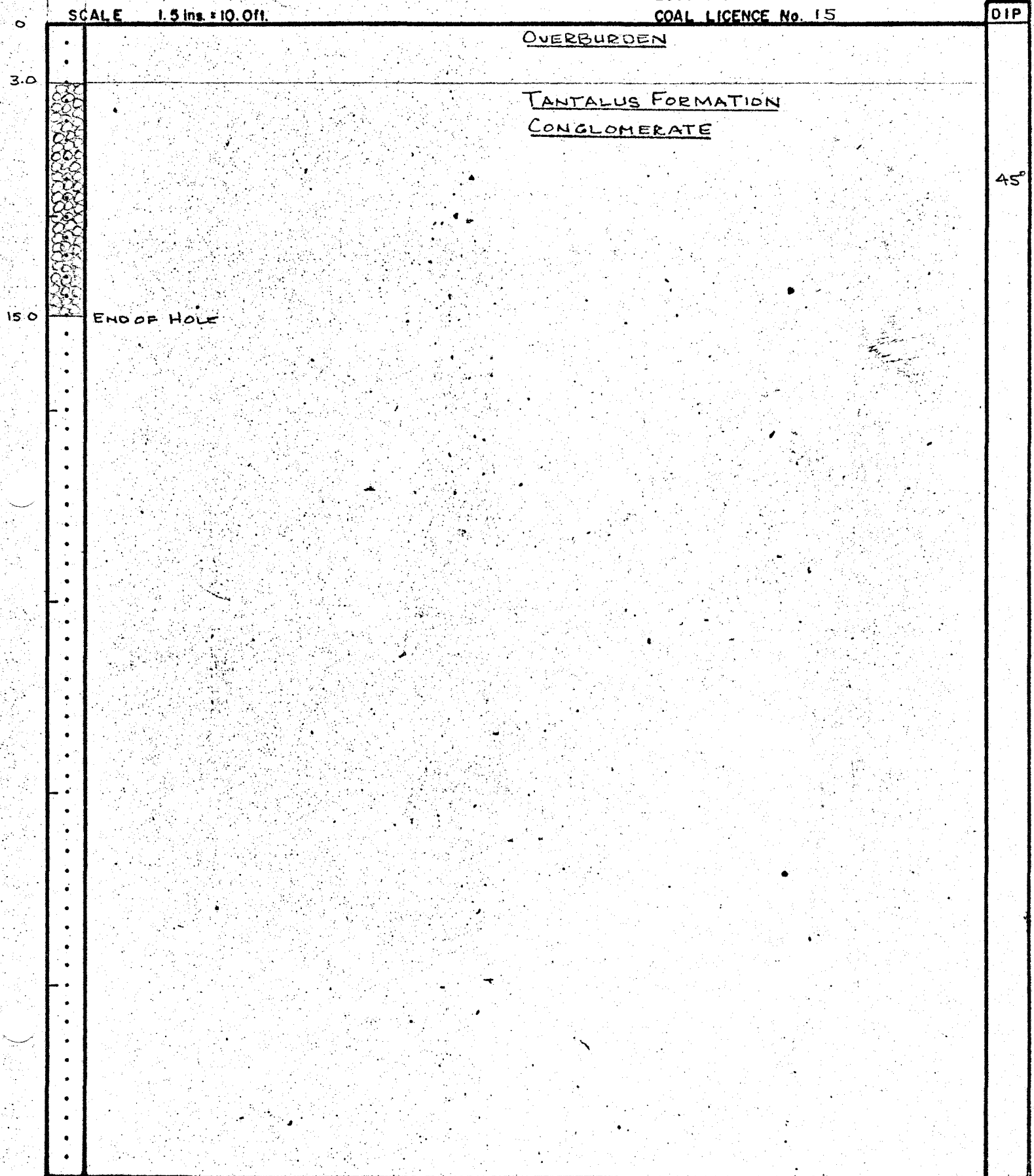
GRIT -

END OF HOLE

DRILL HOLE LOG
TESLIN EXPLORATION LTD.
CARMACKS AREA

COORDINATES
ELEVATION
DIP
AZIMUTH
SCALE 1.5 ins. = 10.0 ft.

CORE SIZE HQ
HOLE STARTED OCTOBER 25, 1973
HOLE COMPLETED OCTOBER 25, 1973
LOGGED BY M.P. PHILLIPS
COAL LICENCE No. 15



DIP

45°

END OF HOLE

OVERBURDEN

TANTALUS FORMATION
CONGLOMERATE

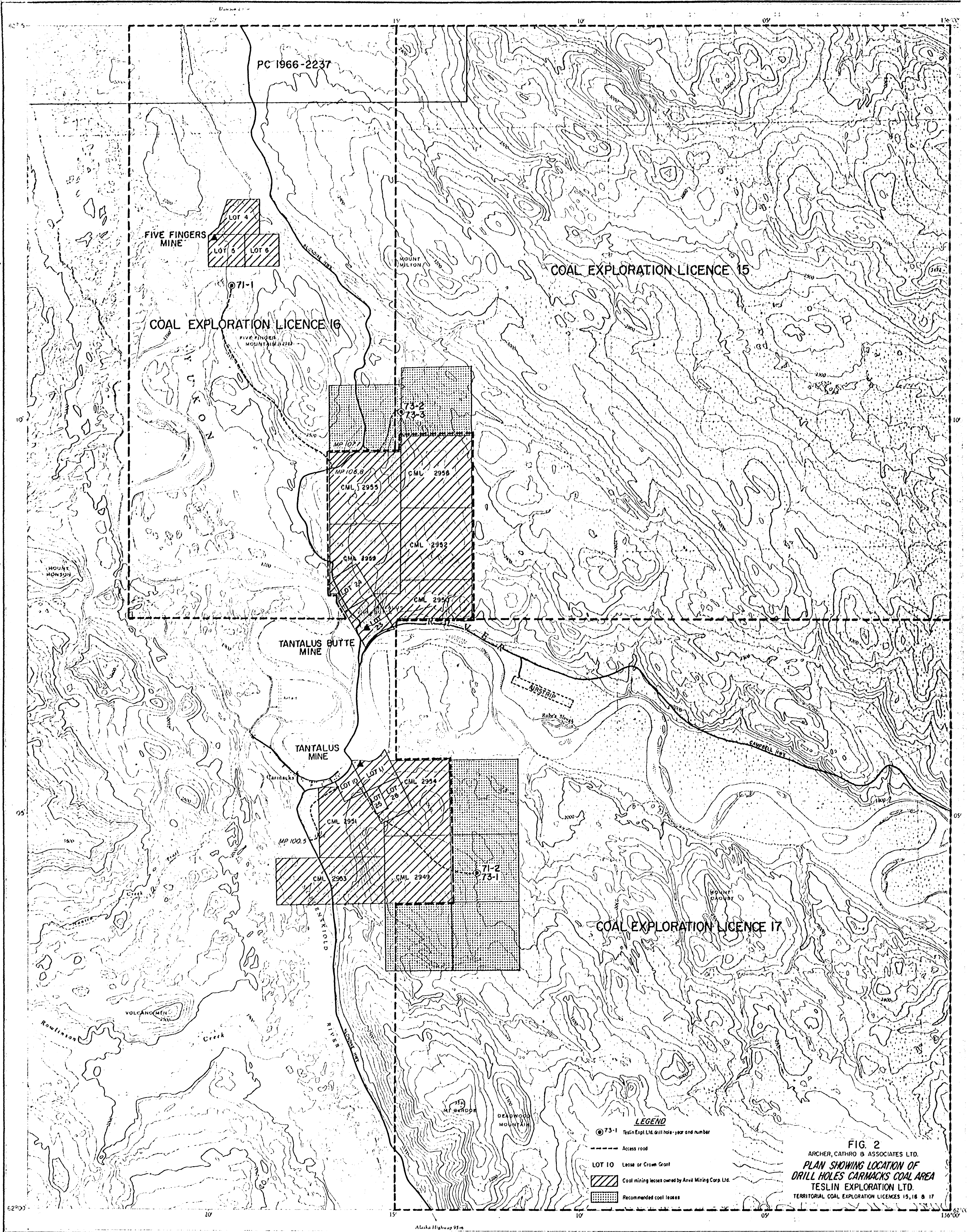
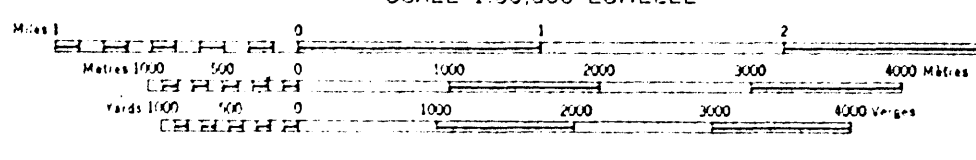


FIG. 2
 ARCHER, CATHRO & ASSOCIATES LTD.
 PLAN SHOWING LOCATION OF
 DRILL HOLES CARMACKS COAL AREA
 TESLIN EXPLORATION LTD.
 TERRITORIAL COAL EXPLORATION LICENCES 15, 16 & 17

(Johns Mount Morrison 115 II/16)
CARMACKS
 YUKON TERRITORY

SCALE 1:50,000 ÉCHELLE



CONTOUR INTERVAL 100 FEET
 Élévations en Pieds above Mean Sea Level
 North American Datum 1927
 Transverse Mercator Projection

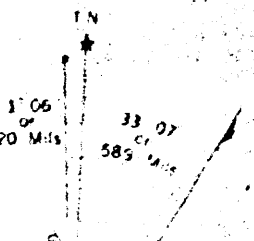
MAGNETIC DECLINATION 32°01' EAST
 AT CENTRE OF MAP 1963
 Annual change (decreasing) 3'

Some names on this map are not yet official.
 Corrections or additions are invited by the Surveys and Mapping Branch.

Building	Édifice	Post Office	Bureau de poste
School	École	Carley	Carrière
Church	Église		
Lighthouse	Phare		
River with bridge	Rivière avec pont		
Stream, intermittent or dry	Cours d'eau intermittent ou à sec		
Lake, intermittent or dry	Lac intermittent ou à sec		
Marsh or Swamp	Marais ou marécage		
Depression contours	Courbes de dépression		

Compilée en 1963, par la DIRECTION DES LEVÉS ET DES CARTOGRAPHES, MINISTÈRE DES MINES ET DES RELEVÉS TECHNIQUES, d'après les photographies aériennes prises en 1947 et 1953. Imprimée en 1965.

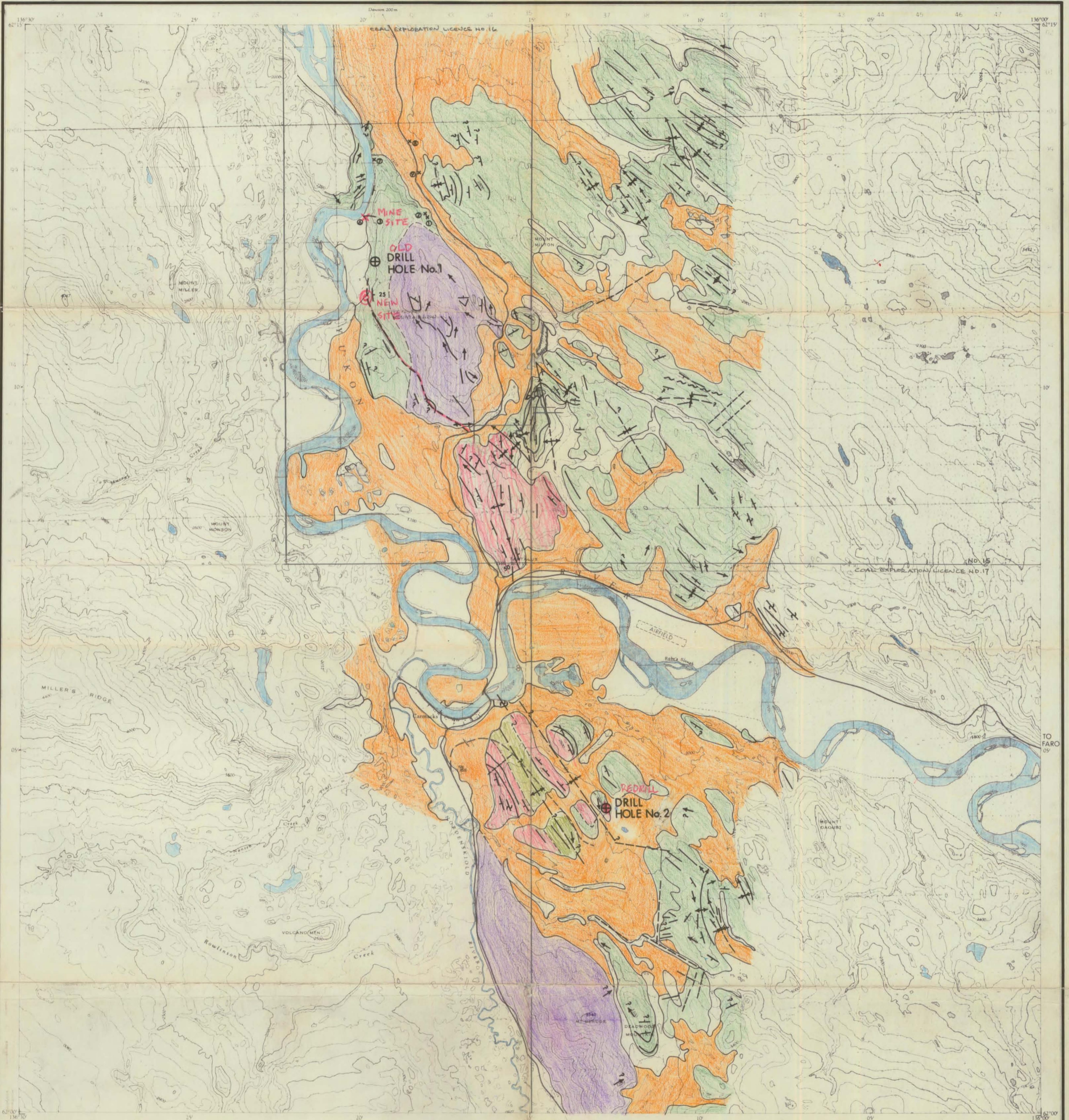
Ces cartes sont en vente au Bureau de distribution des cartes du Ministère des Mines et des Relevés Techniques, Ottawa.



NATIONAL TOPOGRAPHIC SYSTEM
 SYSTÈME DE RÉFÉRENCE CARTOGRAPHIQUE NATIONAL

115 I/1
 EDITION 2

20 30 240



TO WHITEHORSE
92 miles

RECONNAISSANCE PHOTOGEOLOGY

QUATERNARY		ALLUVIUM		BEDDING ATTITUDE (normal, unreliable, vertical, contorted, apparent)
		TERRACE + MORAINAL DEPOSITS		ANTICLINE, SYNCLINE
TERTIARY		CARMACKS VOLCANICS		BEDDING TRACE
CRETACEOUS		TANTALUS F.M.		LINEAR
		LABARGE GPR.		POSSIBLE FAULT

THIS IS 1972 WORK
(1971 D.T.H.)

TESLIN EXPLORATION LTD.
CARMACKS
 YUKON TERRITORY
COAL LICENCES No. 15, 16, 17

SCALE 1:50,000

0 2 Miles

1972-21675

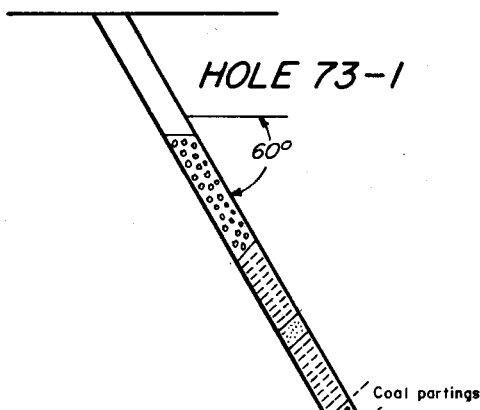
FIG. 3

ARCHER, CATHRO & ASSOCIATES LTD.

CROSS-SECTION HOLE 73-1

CARMACKS COAL AREA
TESLIN EXPLORATION LTD.
TERRITORIAL COAL LICENCE No. 17

SCALE IN FEET (HORIZONTAL & VERTICAL)



Coal

TESLIN SEAM

LEGEND

QUATERNARY	OVERBURDEN		Glacial till and weathered bedrock
LOWER CRETACEOUS	TANTALUS FORMATION		Conglomerate
			Sandstone
JURASSIC	LABERGE SERIES		Siltstone
			Mudstone
			Coal

Coal 0.5'

Coal 0.3'





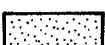
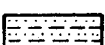

Coal 0.8'

Coal 0.3'

N 75° W

S 75° E

LEGEND

QUATERNARY	OVERBURDEN		Glacial till and weathered bedrock
CRETACEOUS	MT. NANSEN GROUP		Andesite
			Conglomerate
			Grit
LOWER CRETACEOUS	TANTALUS FORMATION		Sandstone
			Siltstone
			Mudstone

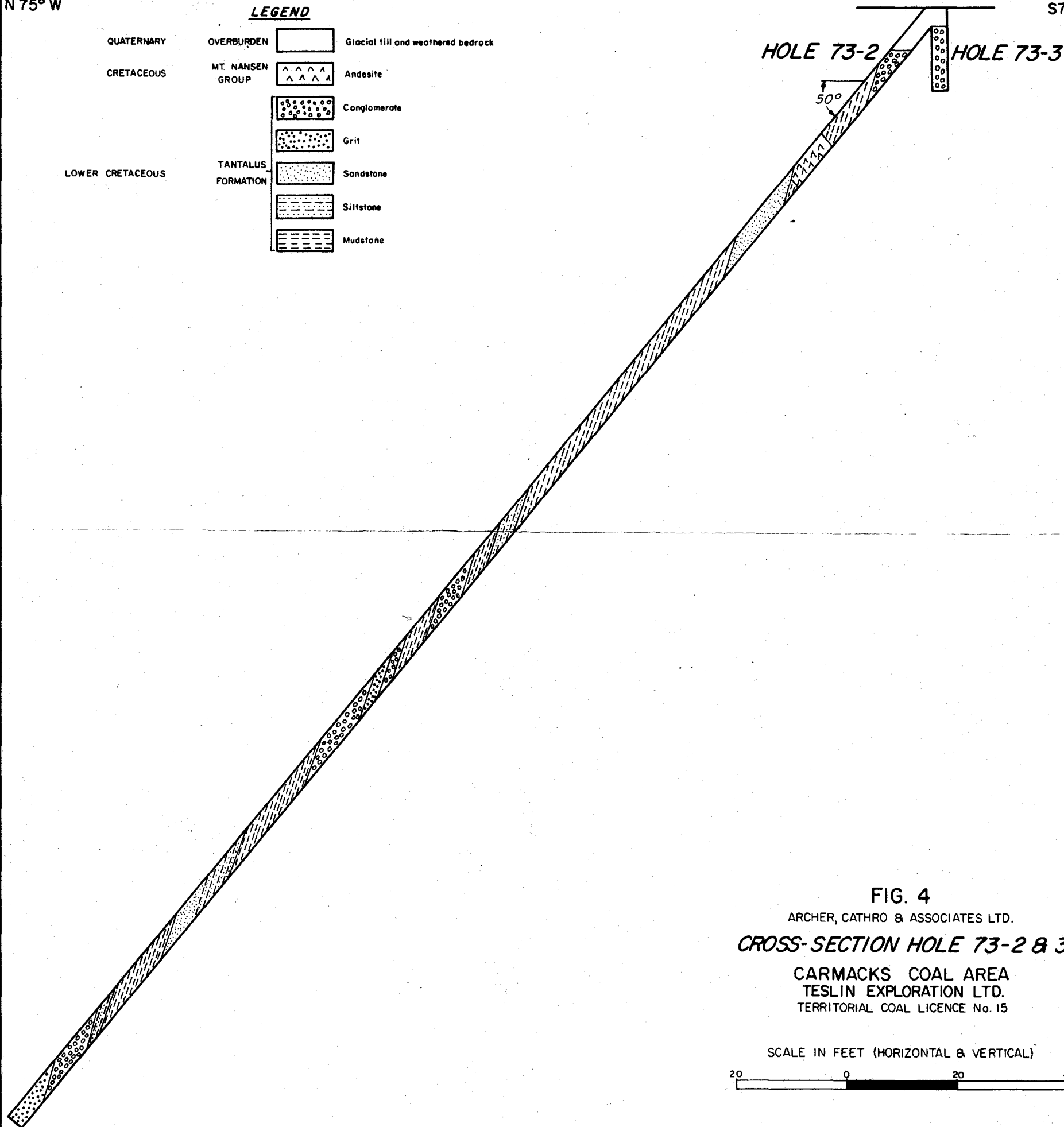


FIG. 4

ARCHER, CATHRO & ASSOCIATES LTD.

CROSS-SECTION HOLE 73-2 & 3

CARMACKS COAL AREA
TESLIN EXPLORATION LTD.
TERRITORIAL COAL LICENCE No. 15

SCALE IN FEET (HORIZONTAL & VERTICAL)

