Connaught Energy Corp.

Suite 835, 840 – 7th Ave. SW
Calgary, Alberta
T2P 3G2

February 10, 2004

RECEIVED

FEB 16 2004

MINISTRY OF ENERGY
AND MINES

British Columbia Ministry of Energy and Mines
Geological Survey Branch
PO Box 9320 Stn Prov Govt
Victoria, B.C. V8W 9N3
Attn: Barry Ryan, Coal Geologist

Dear Barry:

Please find one summary report for the Princeton Coal Exploration Project – 2002 Field Season. Included are drill hole location maps, coal quality analyses, permit documentation and geophysical logs. If there are any questions or concerns on the above matter please call me at 403-995-1046. Thank –you.

Sincerely,

Ronald J Kostiuk

Ron Kostiuk, P. Geol.
Exploration Manager

00885

Connaught Energy (Alberta) Corp.

Princeton Project

2002 Field Season Report

For Submission to Barry Ryan
Coal Geologist
B.C. Geological Survey Branch

By

Ron Kostiuk, P. Geol.
Exploration Manager

Dec 2003

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Executive Summary

The purpose of this report is to summarize the work conducted and completed for the 2002 Exploration year by Connaught Energy Corp. ("Connaught") on coal licenses in the Similkameen Coalfield near Princeton, B.C. in the spring and summer of 2002.

Connaught acquired the Princeton Coal Licenses in November 2001 and December 2003. A drilling and sampling program began in March 2002 and completed in April 2002. The objective of this program was to verify coal thickness, quality and to identify coal continuity across the basin.

A total of four holes were proposed but only three were completed due to poor ground conditions. Samples were taken from cored coal zones with proximate analyses completed. All holes were logged with downhole geophysical equipment.

The coal analysis confirms the coal of Sub-bituminous rank.

This project was administered and supervised by Connaught Energy Corp. Connaught with their prospective partners have retained the prospective licenses and is planning future work on these licenses in 2004.

Introduction

Location of Property and Licenses

The Princeton Coal properties are located in the Similkameen Coalfield situated immediately north and south of the Town of Princeton, British Columbia (Figure 1.1). The coal licenses are situated in a broad north-trending valley, about 24 km. in length. The valley is intersected by the Tulameen and Similkameen Rivers in which the Tulameen River and the Town of Princeton divide the north and south properties.

The coal property consists of 52 crown coal licenses that were obtained by Connaught in November, 2001 and December, 200 (Fig. 1.3 – Appendix A) Total land area held by Connaught under these licenses is 15345 Hectares (Tables 1.1 and 1.2).

Table 1.1

Coal License Summary for Princeton South Basin

Coal License Number	Area in Hectares
390869	164
390871	89
390872	328
390873	337
390874	337
390875	337
390876	337
390877	337
390878	337
390879	322
390880	268
390881	337
390882	337
390883	328
390884	299
390885	337
Total	**4831**

Table 1.2

Coal License Summary for Princeton North Basin

Coal License Number	Hectares
406963	336
406964	59
406965	336
406966	292
406967	319
406968	319
406969	336
406970	336
406971	336
406972	336
406973	336
406974	327
406975	336
406976	291
406977	284
406978	316
406979	250
406980	266
406981	108
406982	108
406984	335
406989	335
406990	335
406991	335
406992	238
406993	142
406994	258
406995	335
406996	335
406997	335
406999	335
407007	335
407008	335
407009	335
407010	335
407011	319
Total	**10604**

Field Work

Previous Programs

- Several small mining ventures from 1901 to 1961, consisting mainly of shallow underground operations and one open pit operation, provided coal for local consumption
- From 1971 to 1975, Bethlehem Copper Ltd. completed 15 short holes and conducted a gravity survey in the south basin in search of metallurgical coal, in 1981/1982 Cominco Ltd. drilled an additional 11 holes in the north basin; both firms dropped their interests leaving the area unlicensed.
- 2000 (Connaught); Reconnaissance mapping to confirm known outcrops to confirm or dispute the geological interpretation at the time.

2002 Exploration Program

- The drill sites and access were spotted and application to drill was made to the Ministries for Energy and Mines, Environment and Forestry (Fig. 1.2 - Appendix A).
- Land owners that were to be affected by the exploration drilling were contacted and access agreements were put in place.
- The drill rig and crew arrived on site March15, 2002 and completed the drilling of three holes by April 24, totaling 1958 meters.
- All holes were geophysical logged and later abandoned as per drilling license. The geophysical logs are enclosed (Appendix B).
- Selected zones were sampled and analyzed for quality. (Appendix C).
- Drill sites and access were reclaimed in the manner recommended by BC Government and Ministry of Energy and Mines (Mines Inspector) during site visits and correspondence. All work was completed by July 2002.
- Reclamation Certificates received from Mines Inspector. (October 2002) (Appendix D.)

Table 2.1

Summary of 2002 Princeton Drill Holes

Hole ID	Orientation	Date Started	Date Completed	Hole Depth (m)
PRX – 01	0.0^0; -90^0	Mar 15	Mar 31	636.1
PRX – 02	0.0^0; -90^0	Apr 15	Apr 25	620
PRX – 03	0.0^0; -90^0	Apr 2	Apr 14	702

Table 2.2

Summary of 2002 Princeton Downhole Geophysics

Hole ID	Deviation	Density-Neutron	Gamma-Resistivity	Sonic	Dipmeter
PRX – 01	Yes	Yes	Yes	Yes	Yes
PRX – 02	Yes	Yes	Yes	Yes	Yes
PRX - 03	Yes	Yes	Yes	Yes	Yes

2002 Program Expenditures

Table 3.1

Summary of Expenditures

Items	Actual
I Drilling	$445755
II Geophysics	$53390
III Lab Analysis	$56295
IV Site Support	$298755
V Field Staff	$37390
VI Calgary Staff	$31425
Total	**$923010**

Geological Interpretation

General Stratigraphy

The coal seams of the Princeton Coalfield lie within the Allenby Formation of Tertiary age and are interbedded with shale, sandstone, conglomerates and numerous bentonite beds. The Allenby Formation measures up to 1700 m thick. Four main coal zones occur in the lower 550 m of the Allenby, much of the upper formation has been eroded. Outcrop and drilled intersections are sparse across the basin. Few attempts have been made to fully understand haw this basin developed.

The Princeton Coalfield is an elongate oval shaped basin covering an area of approximately 170 sq. km. Dips of the strata are generally towards its center. Secondary folding a subsequent faulting has produced several deep mini basins within the coalfield. Both east and west sided of the basin have been truncated by major boundary faults.

Four main coal zones are intersected and identified as follows:

Coal Quality Information

Summary of Previous Quality Information

Coal from the Princeton basin has been classified as having a varied rank of Lignite to Sub-bituminous "A". The coal is described as shiny and black with a rectangular, blocky, subconchoidal fracture. It has been reported that the coal has poor storage characteristics with a tendency to spontaneous combustion when stockpiled in large volumes. The coal is a non-coking.

Coal analyses taken from five mines in the southern basin (Princeton -Black Seam?) record the following assays*:

Moisture	14.5 – 18.0%
Volatile Matter	28.5 – 30.3%
Fixed Carbon	28.5 – 49.5%
Ash	12.8 – 35.3%
Calorific value	6040 - 10540 Btu/lb.

* 'as received basis'?.

Sample Gathering and Analysis - 2002

Coal samples were taken from cores from drill holes PRX-01 and PRX-03 as well as two outcrops in the south basin (Fairley Prospect?). Samples from the drilled intersections average 30 cm. in length. Proximate analyses were done by Birtley Coal and Mineral Testing of Calgary.

Results from the analytical work show that the coal rank is of Sub-Bituminous B-C. Data is show in Tables 4.1 and 4.2; Appendix C.

Conclusions/Future Work

Due to limited and scattered surface outcrops most of the stratigraphy and structure of the basin are known only from shallow drilling and a single gravity survey. A very good geological interpretation of the basin was completed by P. Read in the late 1970's and 1980's. The most recent work confirms the general overall shape of the basin based on the gravity survey and Reads' work, however the basin is more complex in structure than shown in earlier interpretations. The four major coal zones are confirmed in Hole PRX-03.

Connaught Energy Corp. has retained the coal licenses and intends to complete more exploration. Future work will include drilling to confirm the existence of the Black Seam coals in the north basin.

Appendix A: Map and Drillhole Locations

CONNAUGHT ENERGY(ALBERTA) CORP.

PRINCETON COAL PROJECT

LOCATION MAP

Fig 1.1

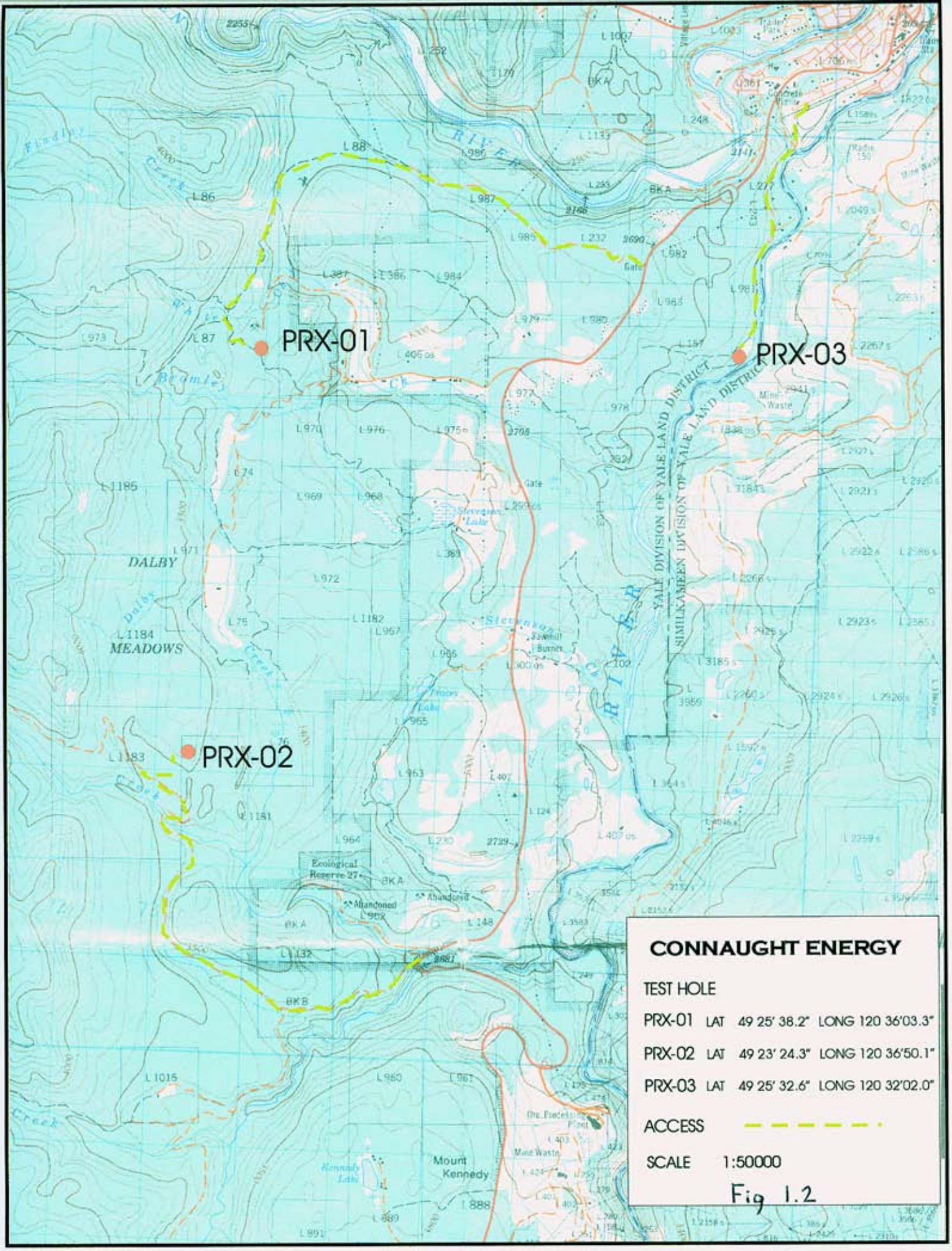

PRX-01
PRX-03
PRX-02
DALBY
MEADOWS
Mount Kennedy
YALE DIVISION OF YALE LAND DISTRICT
SIMILKAMEEN DIVISION OF YALE LAND DISTRICT
CONNAUGHT ENERGY
TEST HOLE
PRX-01 LAT 49 25' 38.2" LONG 120 36'03.3"
PRX-02 LAT 49 23' 24.3" LONG 120 36'50.1"
PRX-03 LAT 49 25' 32.6" LONG 120 32'02.0"
ACCESS
SCALE 1:50000

Fig 1.2

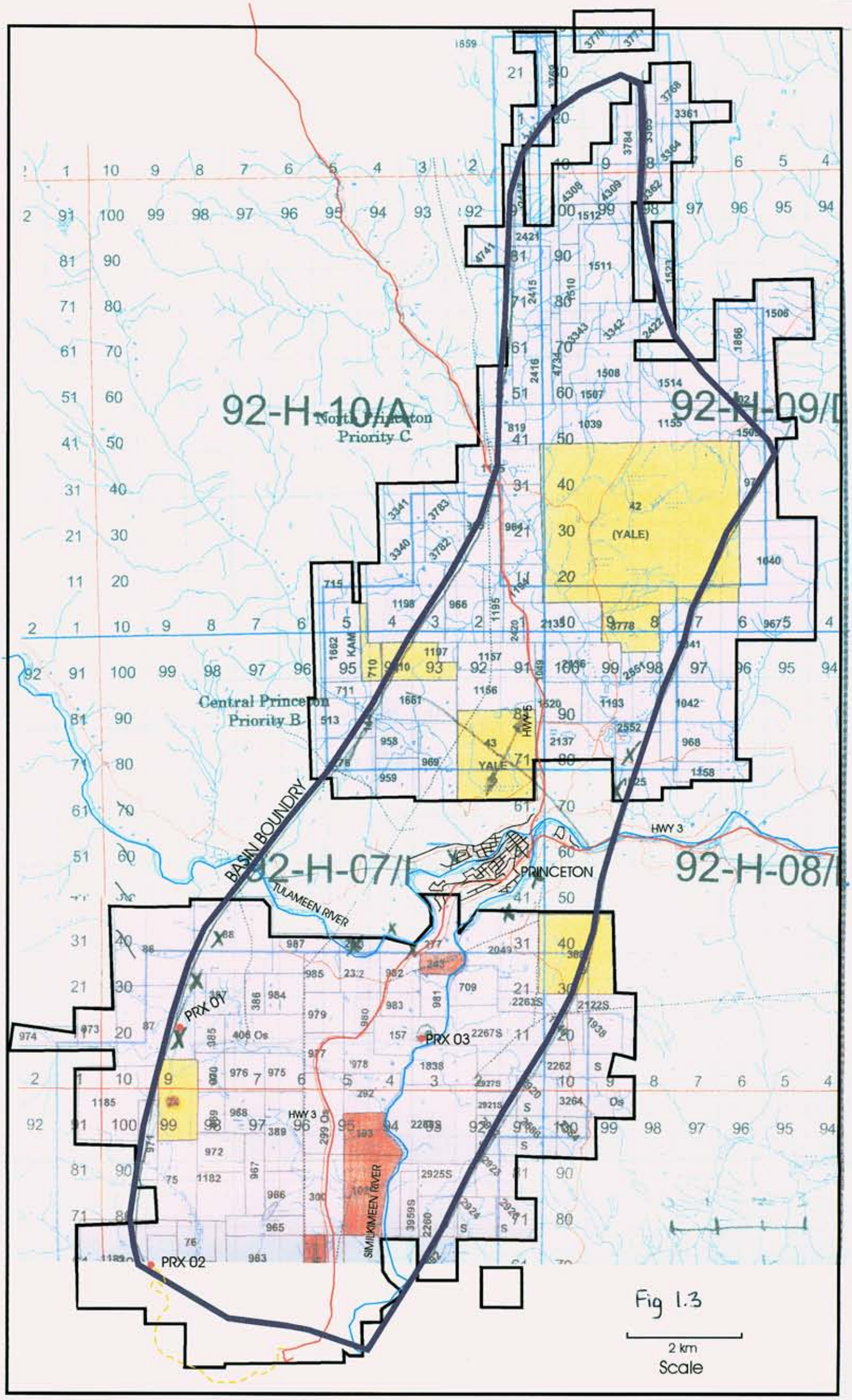

92-H-10/A
North Princeton
Priority C
92-H-09/D
Central Princeton
Priority B
(YALE)
YALE
92-H-07/I
92-H-08/I
PRINCETON
HWY 3
HWY 5
BASIN BOUNDRY
TULAMEEN RIVER
SIMILKAMEEN RIVER
PRX 01
PRX 02
PRX 03
KAM
2 km
Scale

Fig 1.3

Appendix B: Raw Quality Tables

Table 4.1

Proximate Analyses
PRX-01

Sam. #	Depth (m)	Seam	ADM %	Moisture		Ash			Volatile Matter				Fixed Carbon			Sp Gr.
				adb	arb	adb	arb	db	adb	arb	db	daf	adb	arb	db	
				%	%	%	%	%	%	%	%	%	%	%	%	cc/g
1	328	Black/	14.04	7.90	20.83	21.71	18.66	23.57	31.92	27.44	34.66	45.35	38.47	33.07	41.77	1.31
2	329	Black?	18.77	6.58	24.12	10.23	8.31	10.95	35.4	28.75	37.89	42.55	47.79	38.82	51.16	1.21
3	334.8	Black?	16.60	7.57	22.92	6.41	5.35	6.93	39.05	32.57	42.25	45.5	49.97	39.17	50.82	1.18

Table 4.2

Proximate Analyses
PRX-03

Sam. #	Depth (m)	Seam	ADM %	Moisture		Ash			Volatile matter				Fixed Carbon			Sp G
				adb	Arb	adb	arb	db	adb	arb	db	daf	adb	arb	Db	
				%	%	%	%	%	%	%	%	%	%	%	%	Cc
1	266.4	BV	17.18	5.86	22.04	34.05	28.20	36.17	27.22	22.54	28.91	45.30	32.87	27.22	34.92	1.4
2	267.6	BV	11.18	5.37	15.95	39.41	35.00	41.65	25.03	22.23	26.45	45.33	31.19	26.81	31.90	1.4
3*	265.5	BV	8.4	3.04	11.19	84.09	77.02	86.73	8.5	7.79	8.77	66.05	4.37	4.00	4.51	2.1
4	269.6	BV	10.68	2.39	12.82	71.05	63.46	72.79	13.93	12.44	14.27	52.45	12.63	11.28	12.94	1.9
5	270.2	BV	17.24	4.73	21.15	25.06	20.74	26.30	30.33	25.10	31.84	43.20	39.88	33.00	41.86	1.3
6	270.5	BV	16.87	4.63	20.72	28.69	23.85	30.08	30.89	25.68	32.39	46.33	35.79	29.75	37.53	1.3
7	270.8	BV	15.41	3.45	18.33	32.92	27.85	34.10	28.53	24.13	29.55	44.84	35.10	26.69	36.35	1.3
8	283.5	BV	10.47	3.14	13.28	57.00	51.03	58.85	18.54	16.60	19.14	46.51	21.32	19.09	22.01	1.7
9	286.1	BV	9.34	2.96	12.02	59.82	54.23	61.64	18.82	17.06	19.39	50.56	18.40	16.68	18.96	1.7
10	286.5	BV	15.77	4.17	19.28	36.43	30.68	38.02	26.35	22.19	27.50	44.36	33.05	27.84	34.49	1.3
11	287.2	BV	13.41	3.23	16.21	49.53	42.89	51.18	22.67	19.63	23.43	47.99	24.57	21.27	25.39	1.5
12	289.1	BV	15.83	3.78	19.02	38.74	32.61	40.26	25.90	21.80	26.92	45.06	31.58	26.58	32.82	1.4
13	289.7	BV	12.48	4.47	16.39	33.78	29.57	35.36	25.25	22.10	26.43	40.89	36.50	31.95	38.21	1.3
14	295.3	BV	12.37	3.26	15.23	71.93	63.03	74.35	14.00	12.27	14.47	56.43	10.81	9.47	11.17	1.8
15	360.7	J	10.84	5.3	15.56	17.77	15.84	18.76	33.29	29.68	35.15	43.27	43.64	38.91	46.08	1.2
16*	405.0	J	34.77	2.08	36.13	40.91	26.68	41.78	24.66	16.08	25.18	43.26	32.35	21.10	33.04	1.4
17*	421.0	J	31.12	2.24	32.66	73.46	50.60	75.14	12.56	8.65	12.85	51.69	11.74	8.09	12.01	1.8
18	613.6	Black	10.14	2.88	12.73	14.45	12.98	14.88	36.94	33.19	38.04	44.68	45.73	41.09	47.09	1.2
19	614.0	Black	4.77	6.98	11.41	9.50	9.05	10.21	37.72	35.92	40.55	45.16	45.80	43.62	49.24	1.3
20	615.5	Black	6.07	4.23	10.05	29.76	27.95	31.07	29.17	27.40	30.46	44.19	36.84	34.60	38.47	1.4
21	616.2	Black	5.81	4.12	9.69	26.09	24.58	27.21	30.15	28.40	31.45	43.20	39.64	37.34	41.34	1.4
22	617.3	Black	12.56	3.58	15.69	31.00	27.11	32.15	29.48	25.78	30.57	45.06	35.94	31.42	37.27	1.4
23	620.0	Black	8.37	3.85	11.90	14.45	13.24	15.03	35.45	32.48	36.87	43.39	46.25	42.38	48.10	1.2
24	629.8	Black	4.61	4.67	9.06	25.85	24.66	27.12	33.11	31.58	34.73	47.65	36.37	34.69	38.15	1.4
25	630.7	Black	5.53	3.12	8.47	44.19	41.75	45.61	22.38	21.14	23.10	42.47	30.31	28.63	31.29	1.5
26	634.6	Black	6.19	3.31	9.29	52.70	49.44	54.50	20.51	19.24	21.21	46.62	23.48	22.03	24.28	1.5
27	672.3		9.45	2.29	11.52	54.62	49.46	55.90	18.55	16.80	18.98	43.05	24.54	22.22	25.12	1.5
28	690.7	Fairley	9.03	2.90	11.67	43.74	39.79	45.05	23.56	21.43	24.26	44.15	29.80	27.11	30.69	1.5
29	691.3	Fairley	8.92	2.24	10.96	43.99	40.06	45.00	23.50	21.40	24.04	43.70	30.27	27.57	30.96	1.5
30	692.1	Fairley	7.37	3.99	11.07	56.75	52.57	59.11	18.47	17.11	19.24	47.05	20.79	19.26	21.65	1.6
31	694.1	Fairley	6.97	2.68	9.46	66.78	62.13	68.62	15.04	13.99	15.45	49.25	15.50	14.42	15.93	1.8
32	698.5	Fairley	8.31	3.72	11.73	54.47	49.94	56.57	18.70	17.15	19.42	44.73	23.11	21.19	24.00	1.6
33	700.0	John	7.28	2.66	9.75	51.80	48.03	53.22	20.69	19.18	21.26	45.43	24.85	23.04	25.53	1.5

BV = Bromley-Vale, **J** = Jackson
Sample 3 is a shale sample, samples 16, 17 are cuttings, all other samples are coal core.
arb = as received basis **adb** = air dried basis **db** = dry basis

Table 4.3

Fairley Prospect
Raw Analyses

Sam. #	Depth (m)	Seam	ADM %	Moisture		Ash			Volatile Matter				Fixed Carbon			HG
				adb	arb	adb	arb	db	adb	arb	db	daf	adb	arb	Db	
				%	%	%	%	%	%	%	%	%	%	%	%	
1	O/C	Fairley	16.44	7.13	22.40	15.96	13.34	17.19	33.44	27.94	36.01		43.47	36.32	46.81	
2	O/C	Fairley	17.05	6.52	22.46	15.51	12.87	16.59	34.95	28.99	37.39		43.02	35.68	46.02	
3	O/C	Fairley	15.01	5.86	19.99	9.48	8.06	10.07	37.67	32.02	40.01		46.99	39.94	49.92	
4	O/C	Fairley	17.60	5.77	22.35	10.08	8.31	10.70	37.44	30.85	39.73		46.71	38.49	49.57	
5	O/C	South		15.61		23.25			31.07				30.07			48

Fairley Prospect

Thickness	Description
30 cm	Volcanics?; cream, qtz xls, feldspar. 140/70
90 cm	COAL: 35 cm black, mainly dull, blocky, weathered, jointing (cleating) evident, mnr wht mineral along cleats, resinous blebs 30 cm High Ash interval >60%, Coaly Shale 25 cm bright banded, sev Vit band to 20 mm thk
60 cm	Volc?, Grey-Purple, rounded to angular fragments up to 60 mm, (mud flow)
15 cm	MDST; black, coaly, abnt coal spar 49 22 33.6 N, 120 33 33.3 W
100 cm	COAL; black , banded, dull weathered, mdst/silst lenses 50 - 80 mm thk; 2 - 3 m long Cleating: macro 1 - 7 cm micro: face 1 - 3 mm, butt 5 mm
600 cm	Volc?; Cream - Yellow, v. broken, hard
10 cm	MDST: Ironstone (Siderite?) qtz veins, strong Fe Stn
	Main Coal Seam
745 cm	COAL: 10 cm Coaly shale 40 cm weathered, dull 40 cm weathered, dull, resinous blebs up to 2 mm, Vit bands up to 20 mm thk., strongly cleated, 1 - 5 mm, bcmg shaley at base. MDST: 15 cm buff, silty, coaly plant debris, coal spar 150/78 COAL: 80 cm thinly bedded, high ash, 40 - 50 %, Vitrain bands up to 8 cm thk., mdst stringers up to 8 cm thk., abnt resinous blebs up to 10 mm long SHALE; 80 cm grey-black, coaly debris, silty COAL: 40 cm, bright banded Gravel: infill, possibly coal zone COAL: 40 cm, weathered appears bright banded, very resinous, blocky MDST: 15 cm grey, silty, coaly plant debris, coal spar, highly weathered COAL: 340 cm, dull, weathered, appears banded to bright banded, Vit bands to 10 cm abnt resinous blebs up to 20 mm dia. (8 - 10% of upper half seam), blocky, hard, strongly cleated Cleats: 3 - 5 mm (Vit bands), 5 - 20 mm in coal perpendicular to strike 75, Joints: 10 - 20 cm vert. Samples: Resin - 25 cm above Mdst Split, #2 - 50 cm below Mdst split, #3 - 2 m above base, #4 - 1 m above base.

Appendix C: Permits, Certificates, Contractors List

Coal Tenure Number 390883

BRITISH COLUMBIA

Ministry of Energy and Mines
Energy and Minerals Division - Mineral Titles Branch

COAL ACT

LICENCE

Map Reference 092H047 and 092H048 Hectares 328 Date Issued Nov. 20, 2001

Licensee 622538 British Columbia Ltd.

Suite 1850, 801-6th Avenue S.W. Calgary, AB T2P 3W2

The licensor grants to the licensee, in accordance with and subject to the provisions of the Act, the right to do exploration and development work of every kind for all coal in the location described, and the licensee covenants and agrees at all times to perform, observe, and comply with the provisions of the Act, and amendments and the provisions of any regulations which may be made under the Act, and all such provisions as are enacted or made shall be deemed to be incorporated into this licence and shall bind the licensee in the same manner and to the same extent as if the same, as they are enacted, made, or amended, were set out herein as covenants on the part of the licensee.

The licensee shall keep the licensor indemnified against all actions, claims, and demands that may be brought or made against the licensor by reason of anything done by the licensee, his servants, workmen, or agents, in the exercise or purported exercise of the rights, powers, and privileges hereby granted.

This licence is further subject to

(a) the provisos hereinafter enumerated (if any),
(b) the prior rights of the Crown and any agency thereof, and
(c) the prior rights of all persons entitled thereto by virtue of any other Statute.

IN WITNESS WHEREOF the licensor and licensee have hereunto set their hands and seals the day and year first above written.

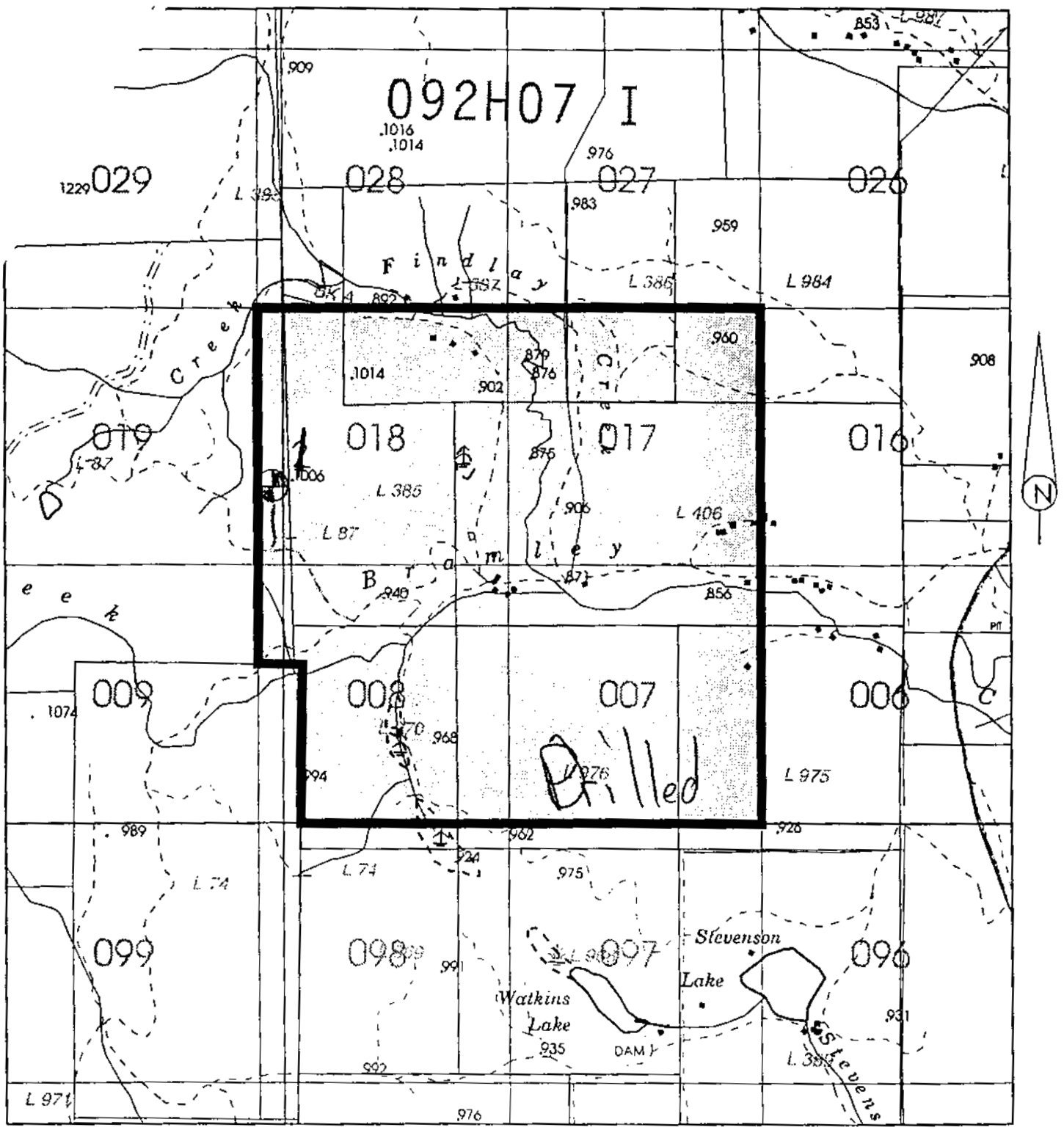
622538 British Columbia Ltd.

Witness *Licensee*

Witness

Minister of Energy and Mines, Licensor
DELEGATED BY ORDER IN COUNCIL NUMBER 1411/94 AND MINISTERIAL ORDER NUMBER 351/94 TO THE [illegible]

Drillsite #2



BRITISH COLUMBIA Ministry of Employment and Investment Mineral Titles Branch	DESCRIPTION PRINCETON PARCEL #14		COAL LICENCE NO.
	MINING DIVISION: SIMILKAMEEN		390883
	LAND DISTRICT: YDYD	PREPARED BY: SPB	SCALE 1 : 20 000
	MAPS: 092H047 AND 092H048	HECTARES: 328	FILE NUMBER: 13755-02-100

Highway #3 ——— Existing Access (old Black Mine Rd) ◐ Proposed Drillsite
Proposed Exploration Trail

Coal Tenure Number 390876

BRITISH COLUMBIA

Ministry of Energy and Mines
Energy and Minerals Division - Mineral Titles Branch

COAL ACT

LICENCE

Map Reference 92H037 Hectares 337 Date Issued November 20, 2001

Licensee 622538 British Columbia Ltd.

Suite 1850, 801-6th Avenue S.W. Calgary, AB T2P 3W2

The licensor grants to the licensee, in accordance with and subject to the provisions of the Act, the right to do exploration and development work of every kind for all coal in the location described, and the licensee covenants and agrees at all times to perform, observe, and comply with the provisions of the Act, and amendments and the provisions of any regulations which may be made under the Act, and all such provisions as are enacted or made shall be deemed to be incorporated into this licence and shall bind the licensee in the same manner and to the same extent as if the same, as they are enacted, made, or amended, were set out herein as covenants on the part of the licensee.

The licensee shall keep the licensor indemnified against all actions, claims, and demands that may be brought or made against the licensor by reason of anything done by the licensee, his servants, workmen, or agents, in the exercise or purported exercise of the rights, powers, and privileges hereby granted.

This licence is further subject to

(a) the provisos hereinafter enumerated (if any),
(b) the prior rights of the Crown and any agency thereof, and
(c) the prior rights of all persons entitled thereto by virtue of any other Statute.

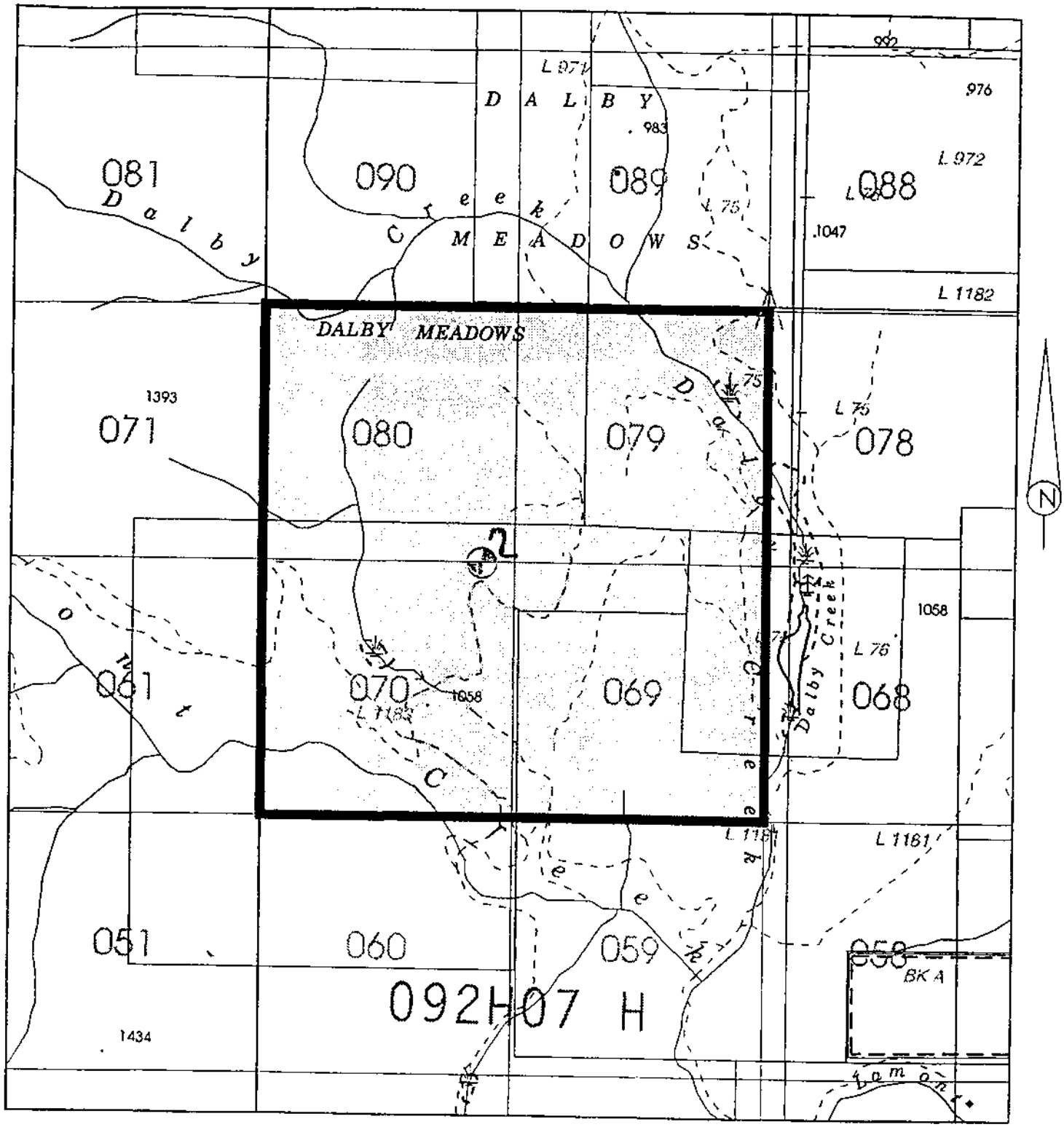
IN WITNESS WHEREOF the licensor and licensee have hereunto set their hands and seals the day and year first above written.

622538 British Columbia Ltd.

Witness *Licensee*

Witness *Minister of Energy and Mines, Licensor*

DELEGATED BY ORDER IN COUNCIL NUMBER 1411/94 AND MINISTER'S ORDER NUMBER 351/94 TO THE CHIEF GOLD COMMISSIONER



BRITISH COLUMBIA Ministry of Employment and Investment Mineral Titles Branch	DESCRIPTION PRINCETON PARCEL #7	COAL LICENCE NO. 390876	
	MINING DIVISION: SIMILKAMEEN		
	LAND DISTRICT: YDYD	PREPARED BY: SPB	SCALE 1 : 20 000
	MAPS: 092H037	HECTARES: 337	FILE NUMBER: 13755-02-100

Logging Road ⊕ Drillsite

Coal Tenure Number 390874

BRITISH COLUMBIA

Ministry of Energy and Mines
Energy and Minerals Division - Mineral Titles Branch

COAL ACT

LICENCE

Map Reference 92H038 Hectares 337 Date Issued November 20, 2001

Licensee 622538 British Columbia Ltd.

Suite 1850, 801-6th Avenue S.W. Calgary, AB T2P 3W2

The licensor grants to the licensee, in accordance with and subject to the provisions of the Act, the right to do exploration and development work of every kind for all coal in the location described, and the licensee covenants and agrees at all times to perform, observe, and comply with the provisions of the Act, and amendments and the provisions of any regulations which may be made under the Act, and all such provisions as are enacted or made shall be deemed to be incorporated into this licence and shall bind the licensee in the same manner and to the same extent as if the same, as they are enacted, made, or amended, were set out herein as covenants on the part of the licensee.

The licensee shall keep the licensor indemnified against all actions, claims, and demands that may be brought or made against the licensor by reason of anything done by the licensee, his servants, workmen, or agents, in the exercise or purported exercise of the rights, powers, and privileges hereby granted.

This licence is further subject to

(a) the provisos hereinafter enumerated (if any),
(b) the prior rights of the Crown and any agency thereof, and
(c) the prior rights of all persons entitled thereto by virtue of any other Statute.

IN WITNESS WHEREOF the licensor and licensee have hereunto set their hands and seals the day and year first above written.

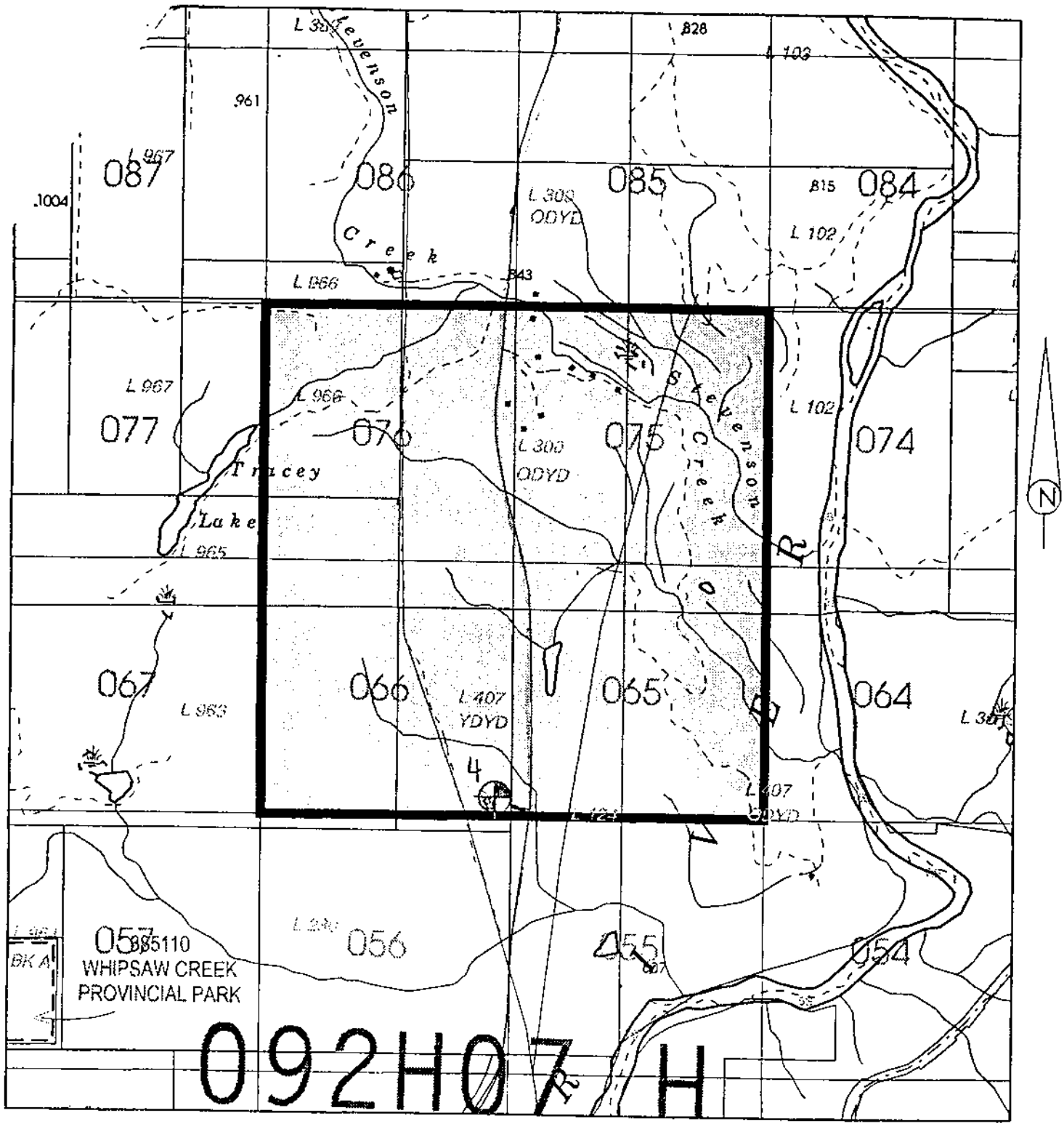
622538 British Columbia Ltd.

Witness

Licensee

Witness

Minister of Energy and Mines, Licensor
DELEGATED BY ORDER IN COUNCIL NUMBER 1411/94 AND MINISTER'S ORDER NUMBER 351/94 TO THE CHIEF GOLD COMMISSIONER



BRITISH COLUMBIA Ministry of Employment and Investment Mineral Titles Branch	**DESCRIPTION** PRINCETON PARCEL #5		**COAL LICENCE NO.** 390874
	MINING DIVISION: SIMILKAMEEN		
	LAND DISTRICT: YDYD	**PREPARED BY:** SPB	**SCALE** 1 : 20 000
	MAPS: 092H038	**HECTARES:** 337	**FILE NUMBER:** 13755-02-100

Highway #3 —— Proposed Access ⊕ Proposed Drillhole Location

Coal Tenure Number 390881

BRITISH COLUMBIA

Ministry of Energy and Mines
Energy and Minerals Division - Mineral Titles Branch

COAL ACT

LICENCE

Map Reference 092H048 Hectares 337 Date Issued November 20, 2001

Licensee 622538 British Columbia Ltd.

Suite 1850, 801-6th Avenue S.W. Calgary, AB T2P 3W2

The licensor grants to the licensee, in accordance with and subject to the provisions of the Act, the right to do exploration and development work of every kind for all coal in the location described, and the licensee covenants and agrees at all times to perform, observe, and comply with the provisions of the Act, and amendments and the provisions of any regulations which may be made under the Act, and all such provisions as are enacted or made shall be deemed to be incorporated into this licence and shall bind the licensee in the same manner and to the same extent as if the same, as they are enacted, made, or amended, were set out herein as covenants on the part of the licensee.

The licensee shall keep the licensor indemnified against all actions, claims, and demands that may be brought or made against the licensor by reason of anything done by the licensee, his servants, workmen, or agents, in the exercise or purported exercise of the rights, powers, and privileges hereby granted.

This licence is further subject to

(a) the provisos hereinafter enumerated (if any),
(b) the prior rights of the Crown and any agency thereof, and
(c) the prior rights of all persons entitled thereto by virtue of any other Statute.

IN WITNESS WHEREOF the licensor and licensee have hereunto set their hands and seals the day and year first above written.

622538 British Columbia Ltd.

Witness

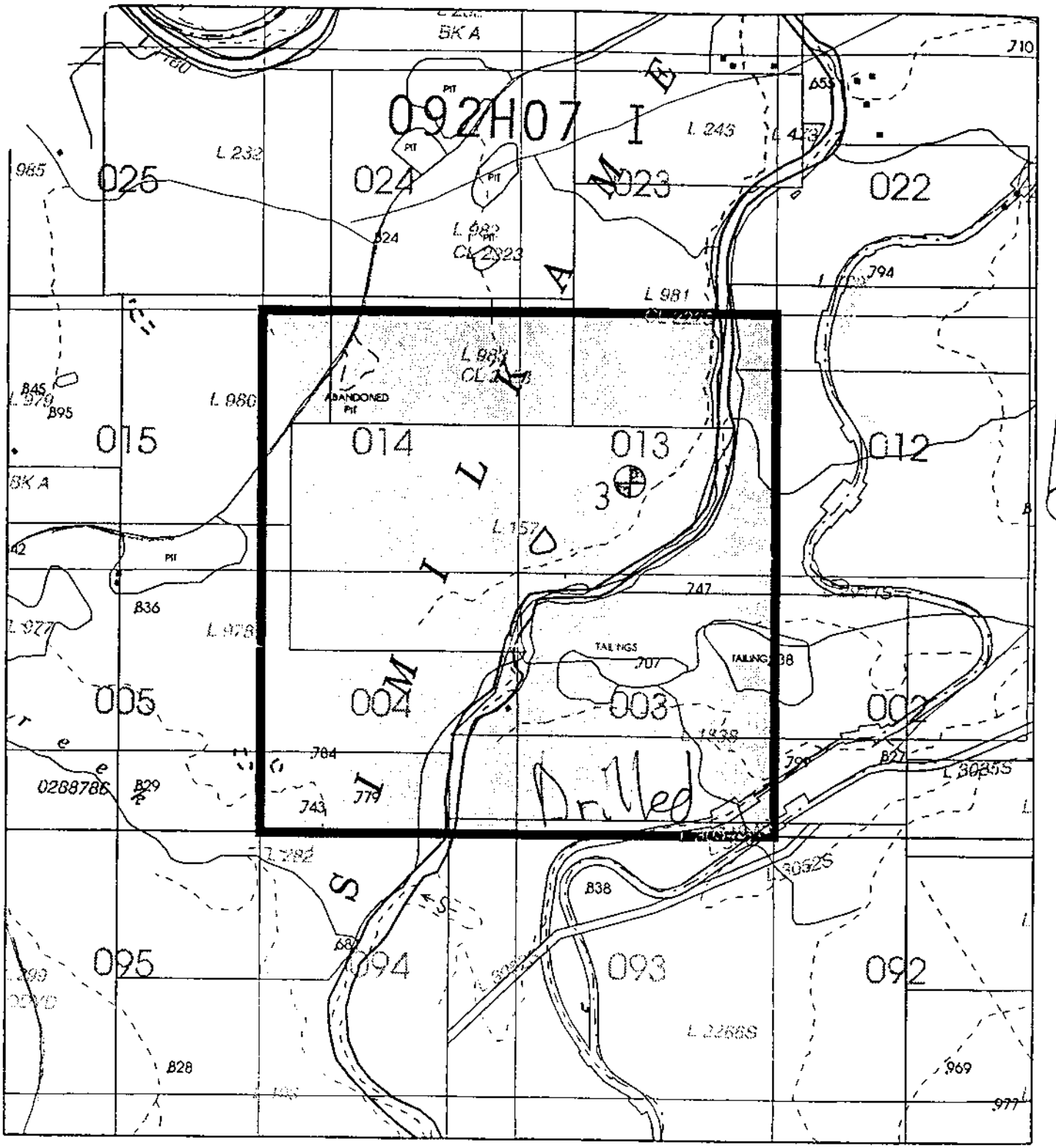
Licensee

Witness

Minister of Energy and Mines, Licensor

DELEGATED BY ORDER IN COUNCIL NUMBER 1411/94 AND MINISTER'S ORDER NUMBER 351/94 TO THE CHIEF GOLD COMMISSIONER

Drillsite #3



BRITISH COLUMBIA Ministry of Employment and Investment Mineral Titles Branch	**DESCRIPTION** PRINCETON PARCEL #12		**COAL LICENCE NO.** 390881
	MINING DIVISION: SIMILKAMEEN		
	LAND DISTRICT: YDYD AND SDYD	**PREPARED BY:** SPB	**SCALE** 1 : 20 000
	MAPS: 092H048	**HECTARES:** 337	**FILE NUMBER:** 13755-02-100

Existing Access ⊕ Drillsite —— Highway #3

BRITISH COLUMBIA

February 27, 2002

File: 14675-30-04
Mine No: 1620188

Connaught Energy (Alberta) Corp.
Suite 835, 840 - 7 Ave. S.W.
Calgary AB T2P 3G2

Dear Sir:

Re: Mines Act Permit: CX-15-003
Property: Princeton

Authorization is hereby granted to proceed with the work prog. described in the Notice of Work dated January 9, 2002.

The **Annual Work Approval Number** is **KAM 2002-1620188-014**, which you may require when r. ding a Statement of Exploration and Development with the Mineral Titles Branch to main. title.

Te: is in an area which may have items of archaeological significance to the Upper Si ndian Band. If the work in this area is done after freshet this spring, please c: la Gould at 250 499 2221 before work starts.

All work must be carried out in accordance with the Mineral Exploration Code - Part 11 Health, Safety and Reclamation Code for Mines in British Columbia May 1998, the Mines Act, the Health Safety & Reclamation Code and the requirements of other resource management agencies.

Please be advised that an operator may be billed by the Ministry of Forests for immature timber values destroyed by surface disturbance. The requirement to reclaim the site and place security pursuant to the *Mines Act* does not protect an operator from the obligation to pay for lost timber values. Adherence to the Fire Prevention Regulation is also required and can be obtained from any District Office of the Ministry of Forests.

The following material is enclosed.

1. **Reclamation Permit CX-15-003**, approving the reclamation program. Work must conform to the terms and conditions of this permit.

2. Receipt, on February 7, 2002, is acknowledged of CIBC Certified cheque # 0041, in the amount of Seventy Five Hundred dollars, **($7,500.00)**.

Ministry of Energy & Mines | Mines Branch | Mailing Address: 200 - 2965 Airp. ... Kamloops BC V2B 3X8 | Tel: 250-554-5370 | Fax: 250-554-5384

BRITISH COLUMBIA

Ministry of Energy and Mines
Energy and Minerals Division
Mines Branch

Mineral & Coal Exploration Activities & Reclamation Permit

(Issued pursuant to Section 10 of the *Mines Act* R.S.B.C. 1996, c.293)

Permit Number: **CX-15-003** Mine No: **1620188**

Permittee: **Connaught Energy (Alberta) Corp.**
Suite 835, 840 - 7 Ave. S.W.
Calgary AB T2P 3G2

Business Phone: **(403) 920-0410**
FAX: **(403) 920-0405**

Name of Property: **Princeton**

Reclamation security amount: **Seventy Five Hundred Dollars ($7,500.00)**

For exploration and reclamation activities at the following mineral/coal tenures:

390874, 390876, 390881, 390883 Lot # L87, L157, L1183, L407

as described in the attached Notice of Work and Reclamation and Schedules

Check completed schedules

x	- Schedule A - Maps & Sections	x	- Schedule F - Surface Drilling/ Settling Ponds/Sumps
x	- Reclamation Security	x	- Schedule G - Exploration Access Construction/Modification
	- Exploration Grids, Camp & Helipter Pads		- Schedule H - Application for Timber Cutting Authorization
	- Schedule E - Mechanical Trenching/ Test Pits		- Schedule I - Bulk Sample
	- Schedule E - Trenching		- Schedule J - Underground Exploration
			- Schedule K - Off Tenure Access

Date of Issuance: February 25, 2002 Date of Amendment:

For F.W. Hermann, P. Eng.
Chief Inspector of Mines

The information on this form and any supporting documents are subject to the *Freedom of Information and Protection of Privacy Act*. The information requested on this form is collected and used for the purpose of administering the Mineral Exploration and Reclamation Permit. The *Mines Act* of British Columbia also authorizes the collection of the requested information on this form. The completed form is routinely available to the public. Questions about how the *Freedom of Information and Protection of Privacy Act* applies to the information collected on this form can be directed to the Mines Branch, phone (250)952-0462, fax (250)952-0491 or write to: PO Box 9320, Stn Prov Govt, Victoria, British Columbia, V8W 9N3

ermit Conditions

- **Compliance with Mines Act and Code:**

  All exploration activities must be conducted in a manner that complies with the *Mines Act* and the Health, Safety and Reclamation Code for Mines in British Columbia.

- **Start of Exploration Activities Notification:**

  Verbal or written notification to the District Inspector is required prior to the start date of exploration activity.

- **Uranium and Thorium:**

  Exploration for uranium or thorium is not approved under this permit.

- **Changes to the Permitted Activities:**

  The District Inspector must be notified if the Permittee wishes to materially alter the exploration activities approved herein. Approval must be received from the District Inspector prior to commencement of an amended program of exploration activities when described in a Schedule.

- **Annual Notice of Completion of Work:**

  An Annual Notice of Completion of Work for Exploration Activities shall be submitted to the District Inspector before the end of January. Reclamation and other exploration activities undertaken in the previous year shall be summarized.

- **Notice of Mine Closure:**

  A Notice of Mine Closure must be submitted to the District Inspector when exploration by a Permittee at a permitted site is permanently discontinued.

- **Others:**

1. Exploration shall not extend beyond the four-hole program outlined in the Notice of Work and Reclamation.
2. Geological investigations shall be restricted to those activities consistent with standard coal mining practices. Drill hole dewatering, pump testing and investigations for commercial Coal Bed Methane production are not permissible under the terms of this permit.
3. Access agreements shall be in place with all affected surface landowners prior to project mobilization.
4. A casing shall be installed in each drill hole that is grouted into the bedrock a minimum of 20 m. The casing shall be pressure tested to 700 kilopascals above the maximum pressure that may be encountered.
5. A blow out preventer shall be installed on the casing prior to drilling beyond the bottom of the casing.
6. Methane detectors shall be installed on the drill equipment to warn the operators should methane be encountered.

7. Bu[illegible]between all drill sites and adjacent watercourses and wetlands shall be provided in accordance with [illegible]11.7.2 (4) of the Code. A 50 m buffer shall be provided for all settling pond constructions.

8. Drill water shall be recirculated so as to minimize make up requirements.

9. Sediment laden water resulting from exploration activities, including drainage, drill circulation water, etc., shall not be allowed access to any creek, wetland or other watercourse.

10. Drill cuttings and additives shall be collected and contained within properly designed impoundments.

11. Drill sites and settling sumps shall be backfilled, and/or contoured to match the adjacent topography and revegetated in a manner compatible with the existing land use.

12. Upon completion of the geological investigations and prior to the demobilization of the drill rig, the entire length of each drill hole shall be cemented in accordance with the attached instructions. Alternate arrangements may be considered but may not be pursued without the express written consent of the Ministry of Energy and Mines. The attached forms shall be utilized to document the cementing operations and shall be filed with the Ministry's Regional office within 15 days of completion.

13. Upon completion and setup of the cement plug, the casing shall be [illegible] below ground level and backfilled.

14. Drill core and cutting samples shall be removed from the site at th[illegible]ll program.

15. Equipment shall be refueled using mobile tanks. Mobile equipment s[illegible] be refueled or serviced within 50 metres of any watercourse.

16. Oil spills shall be cleaned up immediately and the waste materials disposed of in an appropriate manner Absorbent pads and spill containment kits shall be maintained on-site during th[illegible]se of operations.

17. All stationary engines shall be provided with suitably designed drip pans.

18. Waste containers and garbage shall be removed from site at the earliest possible opportunity

19. This approval does not authorize construction of an exploration camp. Installation of a small mobile office trailer is permissible provided that [illegible]facilities are removed upon completion of the approved program.

20. First aid equipment shall b[illegible]ntained as appropriate for the number of people employed.

21. Exploration work shall be suspended during periods of extreme fire hazard conditions. Fire fighting equipment shall be maintained at all drill sites in accordance with the Forest Fire Prevention and Suppression Regulation.

22. In the event t[illegible]rchaeological site is encountered during the course of the approved exploration activities, the program shal[illegible]spended or modified in such a manner so as to ensure that the site is not damaged, d[illegible]rated or otherwise a[illegible]d and the occurrence shall be reported immediately to the Planning and Assessment Unit, Archaeological Branch, Ministry of Small Business, Tourism and Culture and the Ministry of Energy and Mines. Work shall not be resumed until so authorized by the joint Ministries.

23. A Free Use Permit or a License to Cut shall be obtained from Ministry of Forests, Merritt District Office before any trees are cut or removed on crown land

3. **First Aid Certification Requirements.** Refer to Part 11.2.1 of the Mineral Exploration Code. In addition the operator must ensure all First Aid Kits are equipped with "Anakits." These kits can be obtained from most pharmacies.

4. **Application for a Licence to Cut.**

5. **Mineral & Coal Annual Notice of Completion of Work for Exploration Activities.** Please complete and return to this office by the end of the current year.

7. **Requirements of the Ministry of Energy and Mines, Mines Branch.** Eugene Mehr is the District Inspector/Engineer.

8. Please read the enclosed "Acknowledgment that no interest payable on cash deposits" form and return the signed undercopy to this office.

Yours truly,

Alla[illegible]dwig, P.Eng.
Distr[illegible]nager/Engineer
Sou[illegible] Region

AHL

Encl[illegible]s

pc: Carol Howell, Administrative Supervisor, Reclamation, Victoria
Eugene Mehr, District Inspector

BRITISH COLUMBIA

June 25, 2002

File No.: 18030-02
Permit No.:
Mine No.: 1620188

Ron Kostiuk, P.Geo.,
Connaught Energy Corp.
Ste 835, 840 - 7th Avenue S.W.
Calgary, AB T2P 3G2

Dear Ron Kostiuk:

Re: Mine Inspection Dated: June 18, 2002
Property: Princeton

Please find attached two copies of my inspection report for the above noted property.

As noted on page one of the report, please fill in the appropriate areas responding to my inspection comments, sign and date the first page, initial subsequent page(s) and return a copy with your comments to my attention within 15 days of receipt.

Should you wish to discuss the report please do not hesitate to contact me.

Yours truly

Joe Seguin
Inspector of Mines
Mining Division
South Central Region

Ministry of Energy and Mines | **Mining Division** | Mailing Address 200 - 2985 Airport Road Kamloops, BC V2B 7W8 | Telephone: (250) 554-7370 Fax: (250) 554-5384

BRITISH COLUMBIA

Province of British Columbia
MINISTRY OF ENERGY AND MINES
MINES BRANCH

Report of Inspector of Mines

(Issued pursuant to Section 15 of the Mines Act)

File: 18030-02
Mine No: 1620188
Permit No:
Emp/Cont: 0 / 0
Orders H&S: RECL: 2
Stop Work:

Inspection Report

NAME OF MINE	Princeton	LOCALITY	49.408, -120.576, 92H/7,8 Princeton
OWNER/OPERATOR	Connaught Energy Corp.	ADDRESS	Ste 835, 840 - 7th Avenue S.W. Calgary AB T2P 3G2
MANAGER	Ron Kostiuk	AREAS INSPECTED	Access, drill sites

Persons Contacted

MANAGEMENT No one on site at time of inspection

OHS COMMITTEE

WORKERS

A copy has been forwarded to the Joint Occupational Health and Safety Committee and the union as applicable. The Mine manager shall complete the right hand column noting specific corrective actions taken, or to be taken by a specified date, and return a copy to the Inspector within 15 days of receiving the report. Further the manager shall post a copy to the bulletin board, to be replaced by a copy showing the manager's response. In this document, Code means Health, Safety and Reclamation Code for Mines in British Columbia

INSPECTION ORDERS	MANAGERS RESPONSE OF ACTION TAKEN
Reclamation of drill site # 3 is satisfactory, the area had been smoothed and supports a good growth of vegetation. Drill site # 2 although smoothed and cleaned of debris and scrap es not support strong growth and shall be fertilization to promote adequate revegetation. The access trail into drill site #2 shall be decompacted and seeded. Special Condition #12 of your reclamation permit C-15-003 has not been satisfied, please provide the completed hole cementing documentation log forms provided with your approval and return them to this office.	

Joe Seguin
Inspector of Mines

Signature - Inspector of Mines

2985 Airport Rd Kamloops BC V2B 7W8
Address

Signature - Manager

Date of Inspection: June 18, 2002

Dated: _____ , 20 ____

Copies To

Connaught Energy Corp.
Suite 835, 840 – 7th Ave. S.W.
Calgary, Alberta
T2P 3G2

Joe Seguin,
Inspector of Mines,
Mining Division, South Central Region
200 – 2085 Airport Road
Kamloops, BC V2B 7W8

Dear Mr. Seguin:

Please find faxed copies of the Drill Hole Sealing Reports for PRX 01, PRX 02 and PRX 03. Originals will be mailed.
We plan to be mapping in the Princton area at the end of July. We will decompact the access, fertilize and seed the areas requested as per your letter of June 25, 2002. Would you be able to meet us there for a joint inspection?

Yours truly,

Ronald J Kostiuk

Ron Kostiuk, Sr. Geologist

Coal Exploration — Appendix II

Report on Sealing of Drill Holes

Inspection District _____ Date of Report 02-04-01
Company Connaught Energy Corp Permit Number CX-15-003

1. Number of drill hole L87 (Sit 1 PRX01)
2. Surface elevation 1013 m
3. Type (vertical, diamond, rotary, size, etc.) vertical - rotary - 6¼ - 5½
4. Drilled by: Name of Contractor Schmidt Drilling Limited
   Name of Exploration Company Connaught Energy
5. Date of Completion April 1, 2002
6. Date of sealing April 1, 2002
7. Sealed by: Name of Contractor Schmidt Drilling Limited
   Name of Exploration Company Connaught Energy
8. (a) Has any casing, drill pipe, drill bits, core barrel, etc. been left in the hole? YES
   (b) If so, give details and location 40 m of 7" casing, cemented.
   49° 25' 38.2"
   120° 36' 03.3"
9. (a) Was the drill hole sealed in the manner as directed? Yes
   (b) If No, give the reasons and the details of the variation _____
10. (a) Was the sealing effective? Yes
    (b) Give the details of any tests carried out _____
11. I certify that the above drill hole has been effectively sealed in accordance with the instructions issued with the permit.

Signature M. McCauley Date April 1, 2002
Title Rush Company Schmidt Drilling Limited

Countersignature _____ Date 02-04-01
Title Consultant Company Connaught Energy Corp

Coal Exploration — Appendix II

Report on Sealing of Drill Holes

Inspection District _____ Date of Report 02-04-25
Company Connaught Energy Corp Permit Number CX-15-003

1. Number of drill hole L 1183 (site 2 PFx 02)
2. Surface elevation 1103
3. Type (vertical, diamond, rotary, size, etc.) Vertical, Rotary, 140 mm, 159mm
4. Drilled by: Name of Contractor Schmidt Drilling Ltd
   Name of Exploration Company Connaught Energy Corp
5. Date of Completion 02-04-25
6. Date of sealing 02-04-25
7. Sealed by: Name of Contractor Schmidt Drilling Ltd
   Name of Exploration Company Connaught Energy Corp
8. (a) Has any casing, drill pipe, drill bits, core barrel, etc. been left in the hole? ~~NO~~ YES
   (b) If so, give details and location 92 m 7" csg, cemented.
   49° 23' 24.3"
   120° 36' 50.1"
9. (a) Was the drill hole sealed in the manner as directed? Yes
   (b) If No, give the reasons and the details of the variation _____
10. (a) Was the sealing effective? Yes
    (b) Give the details of any tests carried out _____
11. I certify that the above drill hole has been effectively sealed in accordance with the instructions issued with the permit.

Signature _____ Date 02-04-25
Title Consultant Company Connaught Energy Corp

Countersignature _____ Date _____
Title _____ Company _____

Coal Exploration — Appendix II

Report on Sealing of Drill Holes

Inspection District _____ Date of Report 02-04-14
Company Connaught Energy Corp Permit Number CX-15-003

1. Number of drill hole L157 (Site 3 PRX03)
2. Surface elevation 639.5
3. Type (vertical, diamond, rotary, size, etc.) Vertical, Rotary, 140mm, 159mm
4. Drilled by: Name of Contractor Schmidt Drilling (LP)
   Name of Exploration Company Connaught Energy Corp.
5. Date of Completion 02-04-14
6. Date of sealing 02-04-14
7. Sealed by: Name of Contractor Sanjel
   Name of Exploration Company Connaught Energy Corp.
8. (a) Has any casing, drill pipe, drill bits, core barrel, etc. been left in the hole? ~~No~~ YES
   (b) If so, give details and location 26m 7" csg, cemented
   49° 25' 32.6"
   120° 32' 02.0"
9. (a) Was the drill hole sealed in the manner as directed? Yes
   (b) If No, give the reasons and the details of the variation _____
10. (a) Was the sealing effective? Yes
    (b) Give the details of any tests carried out _____
11. I certify that the above drill hole has been effectively sealed in accordance with the instructions issued with ~~the permit~~

Signature _____ Date 02-04-14
Title Consultant Company Connaught Energy Corp.

Countersignature _____ Date April 16/02
Title Rig Manager Company Schmidt Drilling

BRITISH COLUMBIA

October 7, 2002

File No.: 18030-02
Permit No.: CX-15-0030
Mine No.: 1620188

Ron Kostiuk
Connaught Energy Corp.
Ste 835, 840 - 7th Avenue S.W.
Calgary, AB T2P 3G2

Dear Ron Kostiuk:

Re: Mine Inspection Dated: October 2, 2002
Property: Princeton

Please find attached two copies of my inspection report for the above noted property.

As noted on page one of the report, reclamation of the drill sites is satisfactory. The reclamation permit, CX-15-003, may be closed and the security deposit refunded at the written request of Connaught Energy (Alberta) Corp.

Should you wish to discuss the report please do not hesitate to contact me.

Yours truly

Joe Seguin
Inspector of Mines
Mining Division
South Central Region

Ministry of Energy and Mines | **Mining Division** | Mailing Address 200 - 2985 Airport Road Kamloops, BC V2B 7W8 | Telephone: (250) 554-5370 Fax: (250) 554-5384

BRITISH COLUMBIA

Province of British Columbia
MINISTRY OF ENERGY AND MINES
MINES BRANCH

Report of Inspector of Mines

(Issued pursuant to Section 15 of the Mines Act)

Inspection No.: 7316
File: 18030-02
Mine No: 1620188
Permit No: /
Emp/Cont: 0 0
Orders H&S: RECL:
Stop Work:

Inspection Report

NAME OF MINE	Princeton	LOCALITY	49.408, -120.576, 92H/7,8 Princeton
OWNER/OPERATOR	Connaught Energy Corp.	ADDRESS	Ste 835, 840 - 7th Avenue S.W. Calgary AB T2P 3G2
MANAGER	Ron Kostiuk	AREAS INSPECTED	Access & drill sites

Persons Contacted

MANAGEMENT

OHS COMMITTEE

WORKERS

A copy has been forwarded to the Joint Occupational Health and Safety Committee and the union as applicable. The Mine manager shall complete the right hand column noting specific corrective actions taken, or to be taken by a specified date, and return a copy to the Inspector within 15 days of receiving the report. Further the manager shall post a copy to the bulletin board, to be replaced by a copy showing the manager's response. In this document, Code means Health, Safety and Reclamation Code for Mines in British Columbia

INSPECTION ORDERS	MANAGERS RESPONSE OF ACTION TAKEN
Reclamation of the drill sites is satisfactory. The security held under reclamation permit CX-15-003 may be released and the permit closed at the request of the permittee.	

Joe Seguin
Inspector of Mines

Signature - Inspector of Mines

00 2985 Airport Rd Kamloops BC V2B 7W8
Address

Signature - Manager

Date of Inspection: **October 2, 2002**

Dated: _____ , 20 ____

Copies To

PRX 2

Connaught Energy (Alberta) Corp.
Suite 835, 840 – 7th Avenue S.W.
Calgary, Alberta, T2P 3G2

October 15, 2002

British Columbia Ministry of Energy and Mines
Mining Division
200-2985 Airport Road
Kamloops, B.C. V2B &w8

Attention: Mr. Allan H. Ludwig
District Manager/Engineer, South Central Region

Dear Sir:

Re: Reclamation Permit CX-15 – 003
Property: Princeton

Please find attached a copy of an inspection report for the above noted property which notes the drill sites have been reclaimed in a satisfactory manner. I therefore request that the security deposit of $7,500.00 be returned to Connaught Energy (Alberta) Corp. in due course.
Thank you for your attention to this matter.

Yours truly,

Curtis B. Walsh
Executive Vice - President

Connaught Energy (Alberta) Corp.

Princeton Coal Exploration Drilling Program

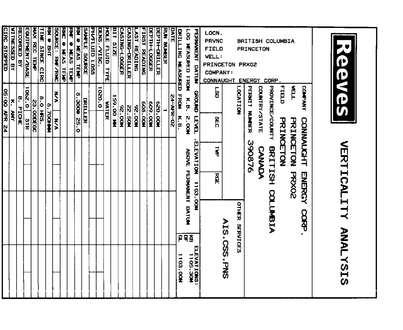
Contractor List

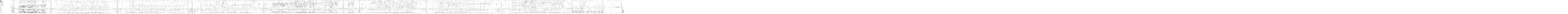
Drilling:	Schmidt Drilling Ltd 6509 – 46 Avenue Ponoka, Alberta T4J 1J8 Ph: 403-783-5720, 403-503-7983 Rod Schmidt, Malcolm McAuley
Geological:	RJK Geological Box 511, Okotoks, Alberta 1 – 403 – 510 – 1534 Ron Kostiuk Petro-Logic Services 234 – 10A street N.W., Calgary, Alberta T2N 1W6 Ph: 403- 270-8517; Cell 512-0885; Dave Marchioni, Tom Anderson 283-6871
Geophysical:	Reeves Wireline 500 -5th Ave SW Calgary, Alberta
Road Construction:	Mac Lind Logging Princeton, B.C. 250 – 295-7084 Secretary: Lani 295 - 6231
Reclamation/Seeding:	J. S. Cook Contracting Box 1227 Princeton, B.C.
Casing:	Bradley Supplies Vancouver, B.C. Doug Ceurle Ph: 604-946-6590, Fax: 604-946-6594

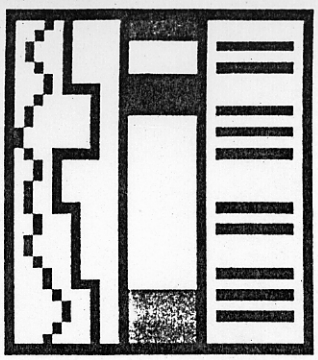
Core Boxes:	Robertson Mfg. Ltd. Heffley Creek, B.C.
Drilling Mud:	Poly – Dril Drilling Systems Bob Whipple Okotoks, Alberta 403-259 – 5112, 540 – 0402
Drilling Mud Disposal:	Mac & Mac Hydrodemolition Services (Disposal to Envirogreen Plant) Surrey, B.C.
Cement:	Princeton Ready Mix (Water Hauling-Drilling Operations) Princeton, B. C. Irly Builders Mart Princeton, B.C. Sanjel Corp. (Drillhole Abandonment) Ft. St. John, B.C.
Coal Analyses:	Birtley Coal and Mineral Testing Gwil Industries Calgary, Alberta

Appendix D: Geophysical Logs

| | | |

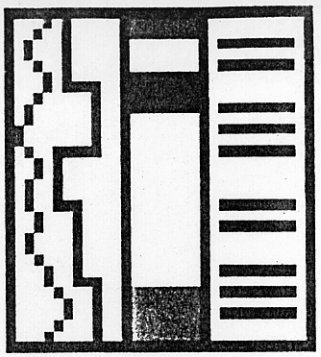

Reeves
VERTICAL ANALYSIS
LOCN.
PRVNC
FIELD
WELL
PRINCETON PRX02
COMPANY:
CONNAUGHT ENERGY CORP.
BRITISH COLUMBIA
PRINCETON
COMPANY
WELL
FIELD
LOCATION
CONSTRUCTION
PERMIT NUMBER
CONNAUGHT ENERGY CORP.
PRINCETON PRX02
PRINCETON
BRITISH COLUMBIA
CANADA
3906776
LOG
SEC
TWP
RGE
OTHER SERVICES
AIS CSS-FNS
ELEVATION
ABOVE PERMANENT DATUM
11100.00M
PERMANENT DATUM
GROUND LEVEL
ELEVATION
11100.00M
DRILLING MEASURED FROM
K.B.
DATE
RUN NUMBER
DEPTH-DRILLER
DEPTH-LOGGER
BTM. LOG INTERVAL
TOP LOG INTERVAL
CASING-DRILLER
CASING-LOGGER
BIT SIZE
TYPE FLUID IN HOLE
DENS. VISC.
PH
FLUID LOSS
SOURCE OF SAMPLE
RM @ MEAS. TEMP.
RMF @ MEAS. TEMP.
RMC @ MEAS. TEMP.
SOURCE RMF RMC
RM @ BHT
TIME SINCE CIRC.
MAX. REC. TEMP.
EQUIP. LOCATION
RECORDED BY
WITNESSED BY
DD MM YY
DRILLER
LOGGER
TOOL NO.
TYPE
DIST.
TOOL NO.
TYPE
DIST.
TOOL NO.
TYPE
DIST.





Haraemai Consulting Ltd.

Kevin S Cole, M.Sc.,
(403) 861-0969



Scale 1:240 (5"=100') Metric

Well Name:	Connaught Energy PRX - 03		
Location:	Lease Lot #157 Princeton British Columbia		
Licence Number:	CX-15-003	Region:	Principal
Spud Date:		Drilling Completed:	April 13,2002
Surface Coordinates:			
Bottom Hole Coordinates:			
Ground Elevation (m):	639.5	K.B. Elevation (m):	651.5
Logged Interval (m):	30.0 To:701.7	Total Depth (m):	701.7
Formation:			
Type of Drilling Fluid:	Polymer		

Printed by STRIP.LOG from WellSight Systems Inc. 1-800-447-1534 www.wellsight.com

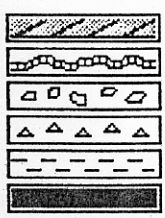
OPERATOR

Company:	Connaught Energy Corp
Address:	Suite 835, 840 - 7th Ave SW Calgary T2P 3G2

GEOLOGIST

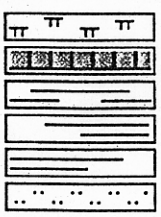
Name:	Kevin S Cole, M.Sc
Company:	Haraemai Consulting Ltd.
Address:	5455 La Salle Crs Calgary SW T3E 5Y6

ROCK TYPES

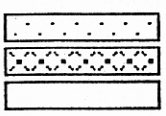


Anhy
Bent
Brec
Cht
Clyst
Coal

Congl
Dol
Gyp
Igne
Lmst
Meta



Mrlst
Salt
Shale
Shcol
Shgy
Sltst



Ss
Till
Blank

ACCESSORIES

MINERAL
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE
- BS Boundst
- C Chalky
- CX Cryxln
- E Earthy
- FX Finexln
- GS Grainst
- L Lithogr
- MX Microxln
- MS Mudst
- PS Packst
- WS Wackest

OTHER SYMBOLS

POROSITY TYPE
- E Earthy
- Fenest
- F Fracture
- I Inter
- Moldic
- O Organic
- P Pinpoint
- V Vuggy

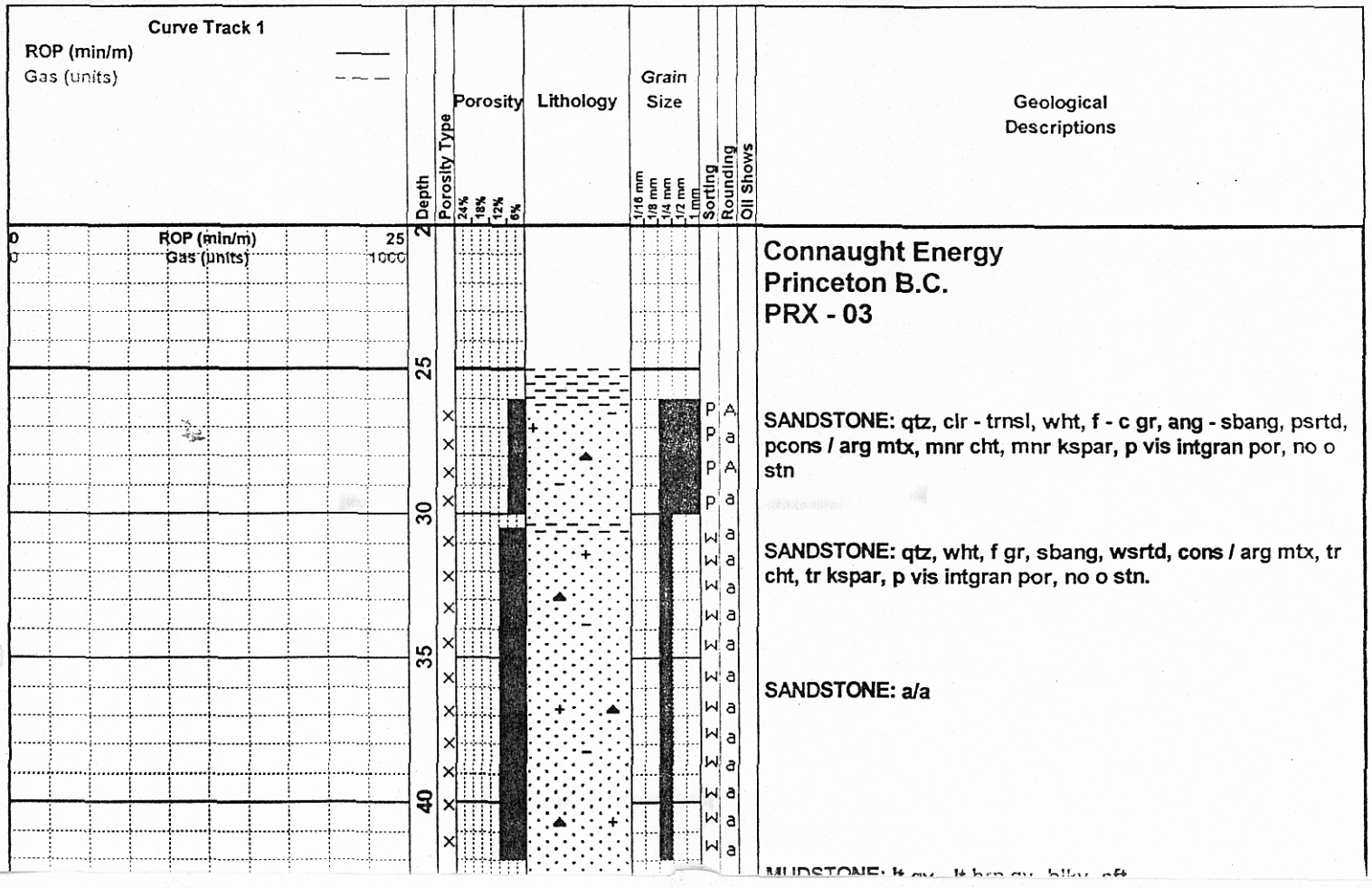
SORTING
- W Well
- M Moderate
- P Poor

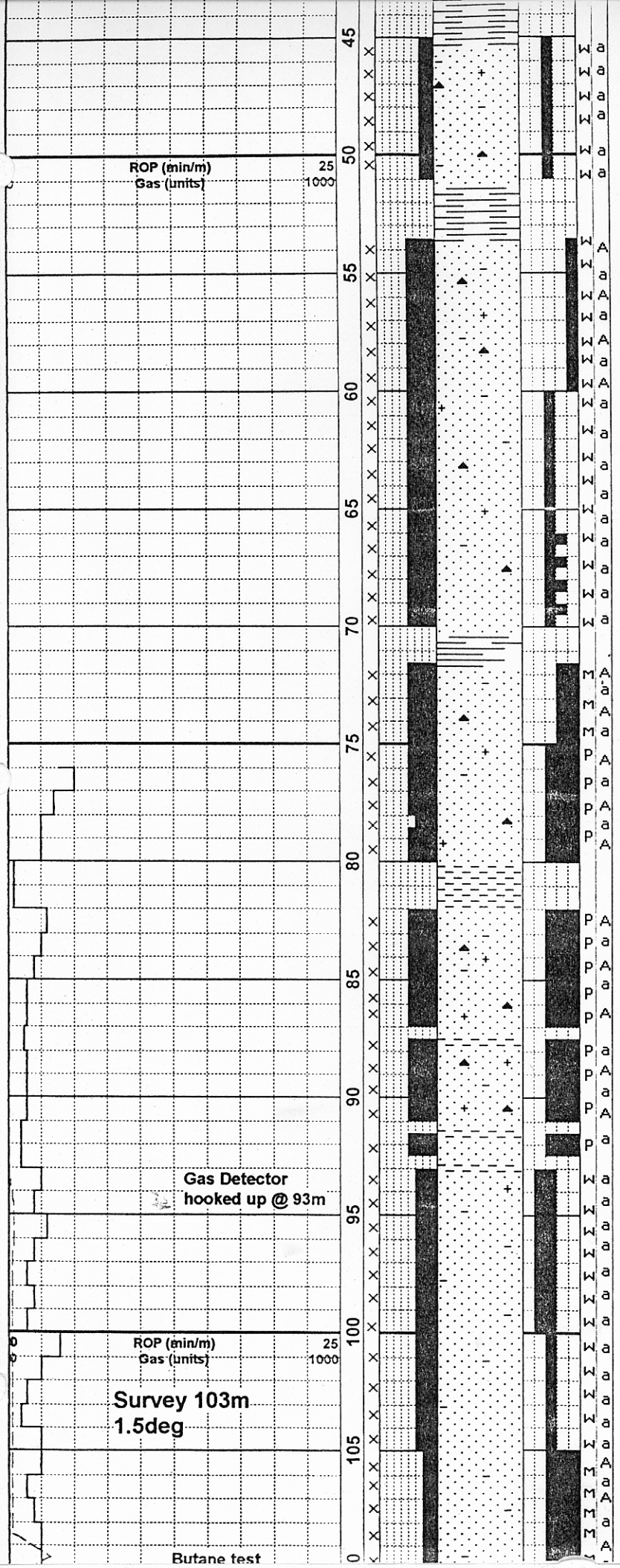
ROUNDING
- R Rounded
- r Subrnd
- a Subang
- A Angular

OIL SHOWS
- Even
- Spotted
- Ques
- D Dead

INTERVALS
- None
- Core
- Dst

EVENTS
- Rft
- Sidewall





SANDSTONE: qtz, wht, f gr, sbang, wsrtd, cons / arg mtx, tr cht, tr kspar, p vis intgran por, no o stn.

MUDSTONE: lt gy, crm, blky, mic mica, sft.

SANDSTONE: qtz, wht, c - vc gr, ang - sbang, wsrtd, i/p uncons, i/p cons / arg mtx, tr cht, p vis intgran por, no o stn.

SANDSTONE: qtz, wht, f gr, sbang, wsrtd, cons / arg mtx, tr cht, rr kspar, p vis intgran por, no o stn.

SANDSTONE: a/a, sl coarser

SANDSTONE: qtz, wht, m - vc gr, ang - sbang, msrtd, i/p uncons, i/p cons / arg mtx, tr cht, tr kspar, p vis intgran por, no o stn.

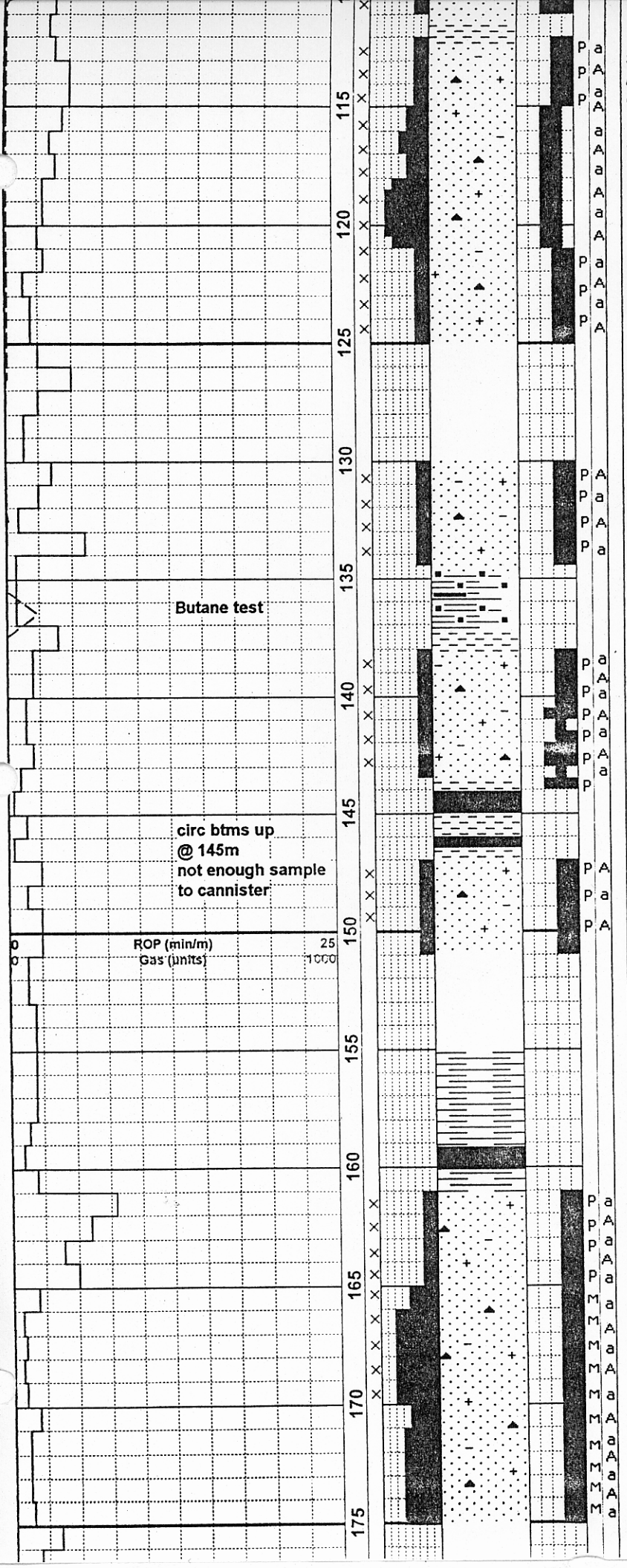
SANDSTONE: qtz, wht, clr, f - vc gr, psrtd, i/p uncons, i/p cons / arg mtx, tr cht, tr kspar, rr biotite, p vis intgran por, no o stn.

CLAYSTONE: crm, vsft, sl mic mica, tr dk gy - blk sh, rr carb.

SANDSTONE: qtz, wht, clr, f - vc gr, psrtd, i/p uncons, i/p cons / arg mtx, tr cht, tr kspar, p vis intgran por, no o stn.

SANDSTONE: qtz, wht, vf - f gr, sbang, wsrt, fri - cons / arg mtx, rr access, p vis intgran por, no o stn.

SANDSTONE: qtz, wht, f - c gr, ang - sbang, msrtd, cons / arg mtx, rr access, rr mdst, rr sh, p vis intgran por, no o stn.



SANDSTONE: qtz, wht, m - vc gr, ang - sbang, psrtd, wcons / arg mtx, mnr kspar, rr cht, rr carb, tt - p vis intgran por, no o stn.

SANDSTONE: qtz, wht, clr - trnsl, f - m gr, ang - sbang, mwsrtd, uncons, mnr arg mtx, tr cht, tr kspar, p - f vis intgran por, no o stn.

SANDSTONE: qtz, wht, m - vc gr, ang - sbang, psrtd, wcons / arg mtx, tr kspar, rr cht, rr carb, tt - p vis intgran por, no o stn.

SAMPLE not caught.

SANDSTONE: qtz, wht, m - vc gr, ang - sbang, psrtd, wcons / arg mtx, tr kspar, rr cht, rr carb, tt - p vis intgran por, no o stn.

SHALE: dk gy, blk, blky - sb fis, mxln, carbonaceous, mnr coal, sft - mod ind, non calc.

SANDSTONE: a/a, sl finer @ base

COAL: blk, blky, brit, carb sh, vit, blk strk.

SANDSTONE: qtz, wht, m - vc gr, ang - sbang, psrtd, wcons / arg mtx, tr kspar, rr cht, rr carb, tt - p vis intgran por, no o stn.

poor sample quantity

MUDSTONE: lt gy, crm, blky, grdg to slty mdst, sft, mnr carb flecks.

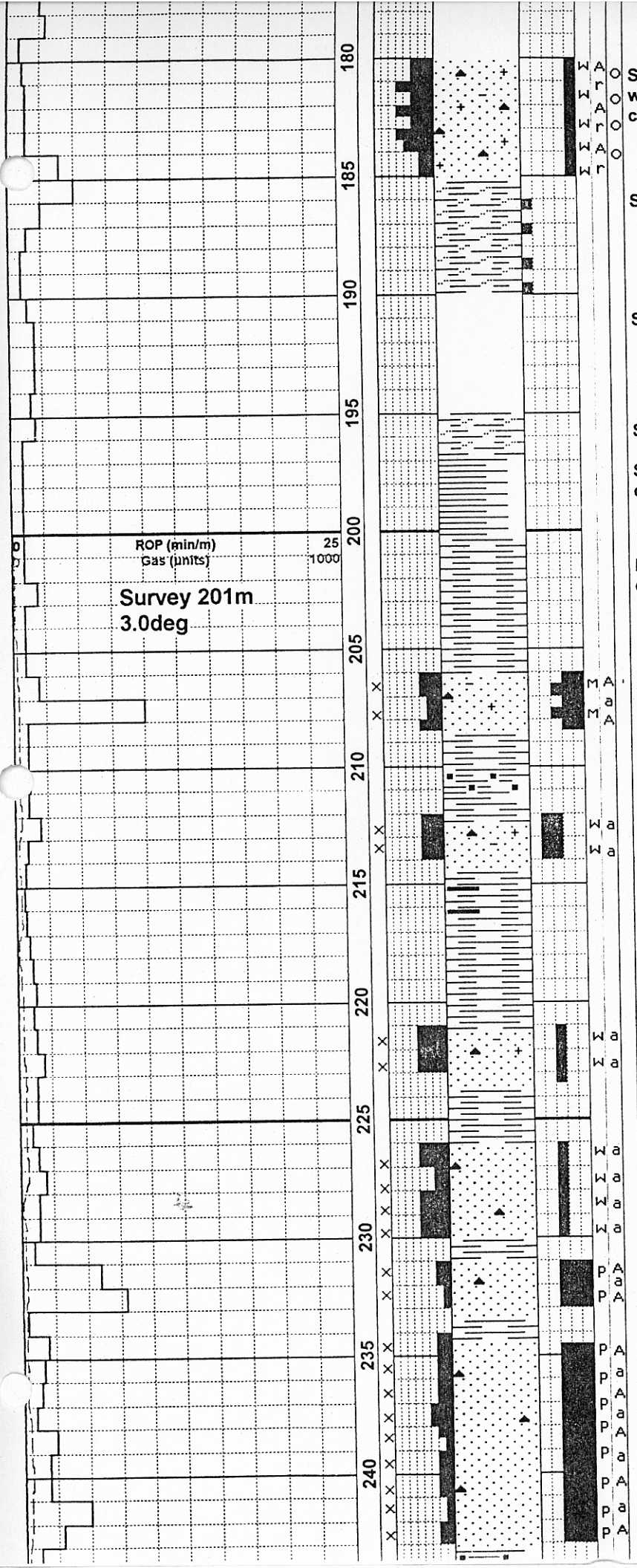
COAL: blk, blky, brit, carb sh, vit, blk strk.

SANDSTONE: qtz, wht, m - vc gr, ang - sbang, psrtd, wcons / arg mtx, tr kspar, rr cht, rr carb, tt - p vis intgran por, no o stn.

SANDSTONE: qtz, wht, m - vc gr, ang - sbang, mwsrtd, i/p uncons, i/p wcons / arg mtx, tr cht, tr carb, p vis intgran por, no o stn.

SANDSTONE: qtz, wht, clr - opaq, m - vc gr, ang - sbrd, nwsrtd, uncons, i/p cons / cly mtx, tr cht, rr carb, p - f vis intgran por, no o stn.

Sample not caught.



SANDSTONE: qtz, wht, lt gy, opaq, c - vc gr, ang - sbr, wsrtd, wcons / arg mtx, i/p uncons, mnr kspar, mnr cht, tr carb sh, rr coal, p vis intgran por, tr clyst, rr o stn

SILTY MUDSTONE: brn, erthy, blky, sft.

Sample not caught

SILTY MUDSTONE: a/a

SHALE: m - dk gy, blky - sb fis, mxln, rr carb flecks, sft, non calc.

MUDSTONE: lt gy - brn, blky - sb fis, mxln, slty, rr coal, rr cly, sft - mod ind, non calc.

SANDSTONE: qtz, wht, m - vc gr, mnr fgr, ang - sbr, mwsrtd, wcons / arg mtx, i/p uncons, tr kspar, tr cht, tr carb sh, rr coal, p vis intgran por, no o stn

MUDSTONE: a/a interbedded / CARBONACEOUS SHALE

SANDSTONE: qtz, wht, brn, lt gy, vf - lf gr, sbang, wsrtd, fri, mnr arg mtx, p vis intgran por, no o stn.

MUDSTONE: lt gy, bl gy, brn gy, blky - sbfis, mnr coal, tr carb flecks, tr clyst, sft, non calc.

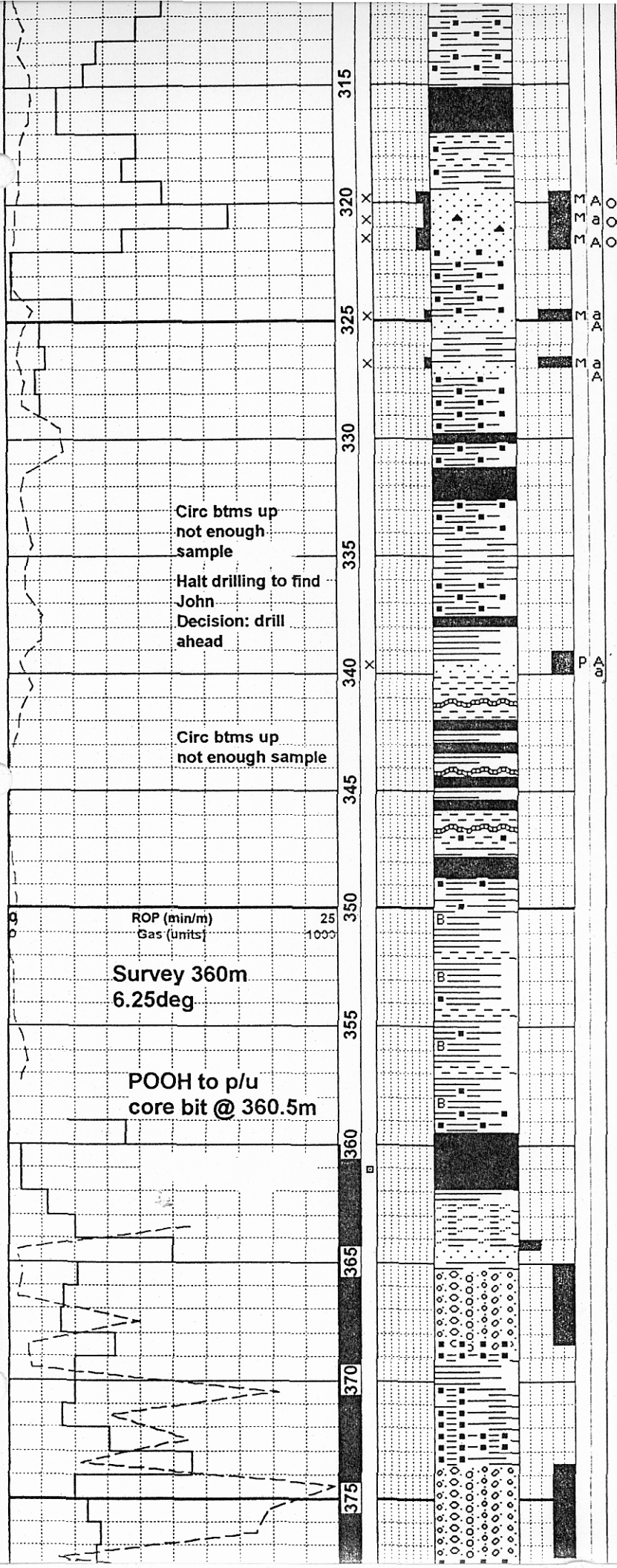
SANDSTONE: qtz, wt, f gr, mnr m & c gr, wsrtd, sbang, i/ uncons, i/p cons / arg mtx, tr cht, tr carb, rr coal, rr mica, p vis intgran por, no o st.

MUDSTONE: lt gy, bl gy, brn gy, blky - sbfis, mnr coal, tr carb flecks, tr clyst, sft, non calc.

SANDSTONE: qtz, wt, f gr, mnr m & c gr, wsrtd, sbang, i/ uncons, i/p cons / arg mtx, tr cht, tr carb, rr coal, rr mica, p vis intgran por, no o st.

SANDSTONE: qtz, wht, opaq, f - vc gr, ang - sbang, psrtd, i/p uncons, i/p cons / arg mtx, tr cly, rr carb, rr sh, p vis intgran por, no o stn.

SANDSTONE:a/a



CARBONACEOUS SHALE: dk gy, blk, blky, carb rich.

COAL: blk, blky, brit, carb sh, vit, blk strk.

Interbedded lt bl gy MUDSTONE and off wht, crm, lt gy CLAYSTONE, mnr coal, mnr carb sh, tr lse qtz.

SANDSTONE: qtz, wht, m - vc gr, ang - sbang, mwsrt, cons / arg mtx, tr cht, p vis intgran por, rr o stn

CARBONACEOUS SHALE: dk gy, blk, blky, carb rich.

SANDSTONE: qtz, wht, f - vc gr, ang - sbang, psrt, cons / arg mtx, tr cht, tt - p vis intgran por, rr o stn

CARBONACEOUS SHALE: dk gy, blk, blky, carb rich.

COAL: blk, blky, brit, carb sh, vit, blk strk.

CARBONACEOUS SHALE: dk gy, blk, blky, carb rich.

COAL: blk, blky, brit, carb sh, vit, blk strk.

CARBONACEOUS SHALE: dk gy, blk, blky, carb rich.

MUDSTONE to CARBONACEOUS MUDSTONE; grdg to carbonaceous shale, dk gy, blk, mxln,

COAL: blk, blky, brit, carb sh, vit, blk strk.

SANDSTONE: qtz, wht, m - vc gr, ang - sbang, mwsrt, cons / arg mtx, tr cht, p vis intgran por, rr o stn

BENTONITE: crm, off wht, chky, v sft, swelling

COAL: blk, blky, brit, carb sh, vit, blk strk.

BENTONITE: crm, off wht, chky, v sft, swelling

COAL: blk, blky, brit, carb sh, vit, blk strk.

BENTONITE: crm, off wht, chky, v sft, swelling

COAL: blk, blky, brit, carb sh, vit, blk strk.

SHALE: m - dk gy, sb fis, mxln, 10% coal,10% carb sh, 10% mdst, 10% bent clyst.

Run #24 360.5 to 362.5m
Cored: 2.0m Rec: 2.0m Recovery 100%

Run #25 362.5 to 364.5m
Cored: 2.0m Rec: 1.9m Recovery 95%

Run #26 364.5 to 367.5m
Cored: 3.0m Rec: 3.1m Recovery 103%

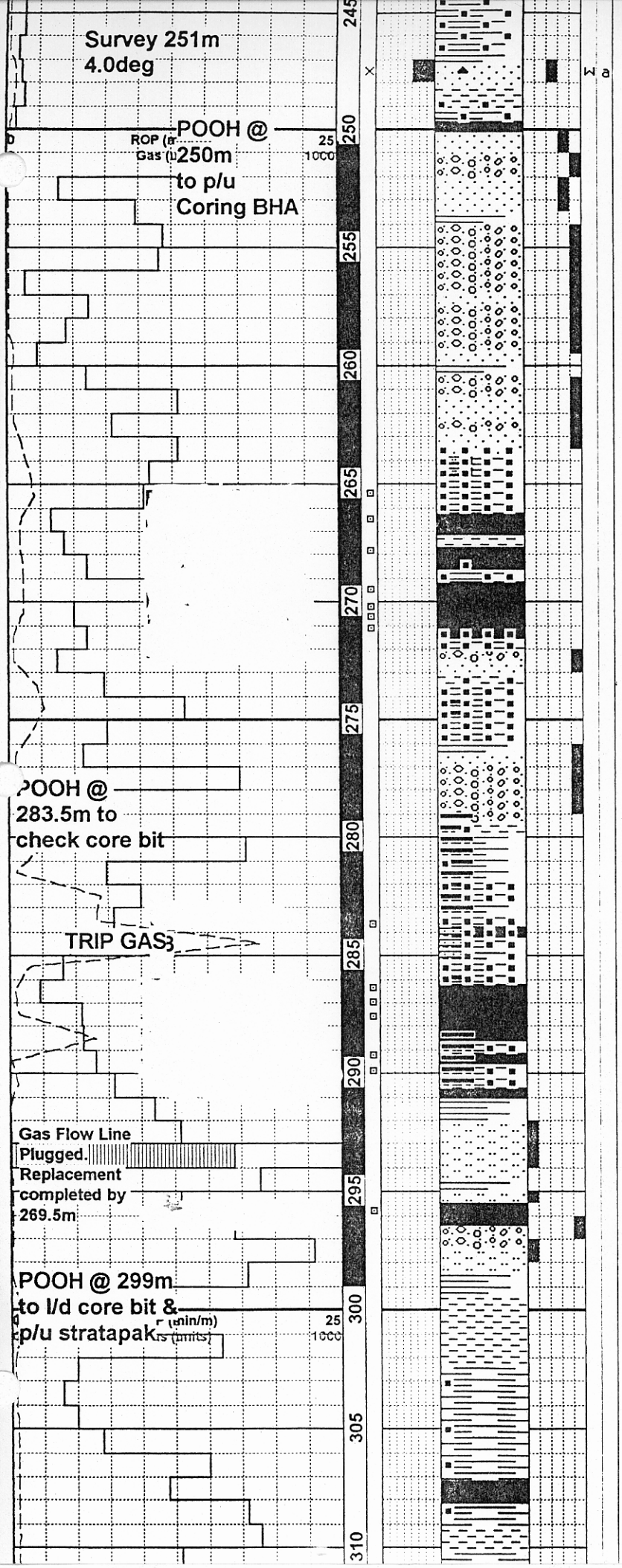
Run #27 367.5 to 370.5m
Cored: 3.0m Rec: 2.8m Recovery 93%

Run #28 370.5 to 372.5m
Cored: 2.0m Rec: 1.8m Recovery 90%

Run #29 372.5 to 374.5m
Cored: 2.0m Rec: 0.3m Recovery 15%

Run #30 374.5 to 375.5m
Cored: 1.0m Rec: 3.0m Recovery 300%

Run #31 375.5 to 376.5m
Cored: 1.0m Rec: 1.1m Recovery 110%



mxln, v carb, tr coal, tr mdst, tr off wht bent clyst, thin f gr ss str, sft, non calc.

Run #1 250.8 to 251.9m
Cored: 1.1m Rec: 1.1m Recovery 100%

Run #2 251.9 to 253.9m
Cored: 2.0m Rec: 2.0m Recovery 100%

Run #3 253.9 to 256.5m
Cored: 2.6m Rec: 2.5m Recovery 96%

Run #4 256.5 to 259.5m
Cored: 3.0m Rec: 2.9m Recovery 97%

Run #5 259.5 to 262.5m
Cored: 3.0m Rec: 3.0m Recovery 100%

Run #6 262.5 to 265.5m
Cored: 3.0m Rec: 0.87m Recovery 29%

Top Bromely Vale/Gem Seam: 263.5m

Run #7 265.5 to 266.4m
Cored: 0.9m Rec: 3.0m Recovery 333%

Run #8 266.4 to 268.5m
Cored: 2.1m Rec: 1.6m Recovery 76%

Run #9 268.5 to 270.5m
Cored: 2.0m Rec: 2.35m Recovery 118%

Run #10 270.5 to 272.5m
Cored: 2.0m Rec: 2.0m Recovery 100%

Run #11 272.5 to 274.5m
Cored: 2.0m Rec: 2.0m Recovery 100%

Run #12 274.5 to 276.5m
Cored: 2.0m Rec: 2.0m Recovery 100%

Run #13 276.5 to 278.5m
Cored: 2.0m Rec: 2.0m Recovery 100%

Run #14 278.5 to 280.5m
Cored: 2.0m Rec: 2.0m Recovery 100%

Run #15 280.5 to 281.5m
Cored: 1.0m Rec: 0.6m Recovery 60%

Run #16 281.5 to 282.5m
Cored: 1.0m Rec: 0.5m Recovery 50%

Run #17 282.5 to 283.5m
Cored: 1.0m Rec: 1.3m Recovery 130%

Run #18 283.5 to 286.5m
Cored: 3.0m Rec: 2.9m Recovery 97%

Run #19 286.5 to 289.5m
Cored: 3.0m Rec: 2.8m Recovery 93%

Run #20 289.5 to 292.5m
Cored: 3.0m Rec: 2.3m Recovery 77%

Run #21 292.5 to 294.8m
Cored: 2.3m Rec: 2.8m Recovery 122%

Run #22 294.8 to 297.0m
Cored: 2.2m Rec: 2.1m Recovery 95%

Run #23 297.0 to 299.2m
Cored: 2.2m Rec: 1.6m Recovery 73%

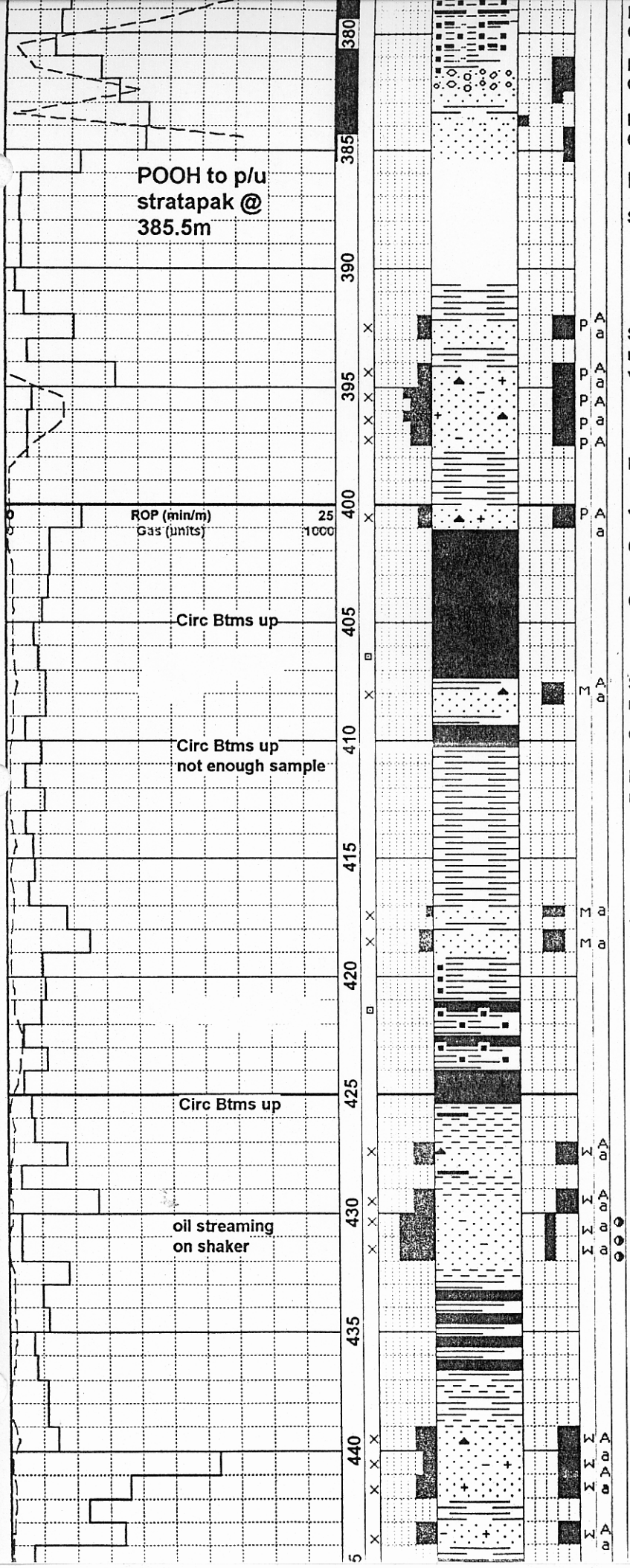
END OF BROMELY VALE/GEM CORING

CLAYSTONE: crm, lt gy, mic mica, rr carb, v sft.

MUDSTONE: bl gy, blky, tr coal, i/p carb, sft.

COAL: blk, blky, brit, carb sh, vit, blk strk.

CLAYSTONE: lt bl gy, mxln, tr carb, v sft.



Run #32 376.5 to 379.5m
Cored: 3.0m Rec: 2.9m Recovery 97%

Run #33 379.5 to 382.5m
Cored: 3.0m Rec: 3.0m Recovery 100%

Run #34 382.5 to 385.5m
Cored: 3.0m Rec: 3.0m Recovery 100%

END OF CORE RUN @ 385.5m

SAMPLE not caught

SANDSTONE: qtz, wht, clr - opaq, m - vc gr, ang - sbang, p - msrtd, i/p cons / cly mtx, i/p uncons, mnr cht, mnr kspar, p vis intgran por, no o stn.

MUDSTONE: dk gy, bl gy, blky, mxln, mic mica, tr carb, sft.

JACKSON SEAM? 401m

COAL: blk, blky, brit, carb sh, vit, blk strk.

Chips sampled for desorption

SANDSTONE: qtz, wht, f - rrly c gr, sbang, mwsrtd, ?sol cly mtx, rr cht, rr carb, p vis intgran por, no o stn.

COAL: blk, blky, brit, carb sh, vit, blk strk.

MUDSTONE: lt gy, bl gy, blky, mxln, 15% clyst, rr carb, sft, non calc.

SANDSTONE: qtz, wht, f - rrly c gr, sbang, mwsrtd, ?sol cly mtx, rr cht, rr carb, p vis intgran por, no o stn.

COAL: blk, blky, brit, carb sh, vit, blk strk.

CARBONACEOUS SHALE: dk gy, blk, blky, carb rich.
Chips sampled for desorption

CLAYSTONE: off wht, lt brn, mxln, mnr carb, tr coal, sft, non calc

SANDSTONE: qtz,clr, wht, m - c gr, vang, wsrtd, uncons, i/p cons / cly mtx, abnt kspar, rr cht, rr carb, f vis intgran por, no o stn

SANDSTONE: qtz, clr - trnsl, f gr, sbang, wsrtd, uncons, rr access, f vis intgran por, tr o stn.

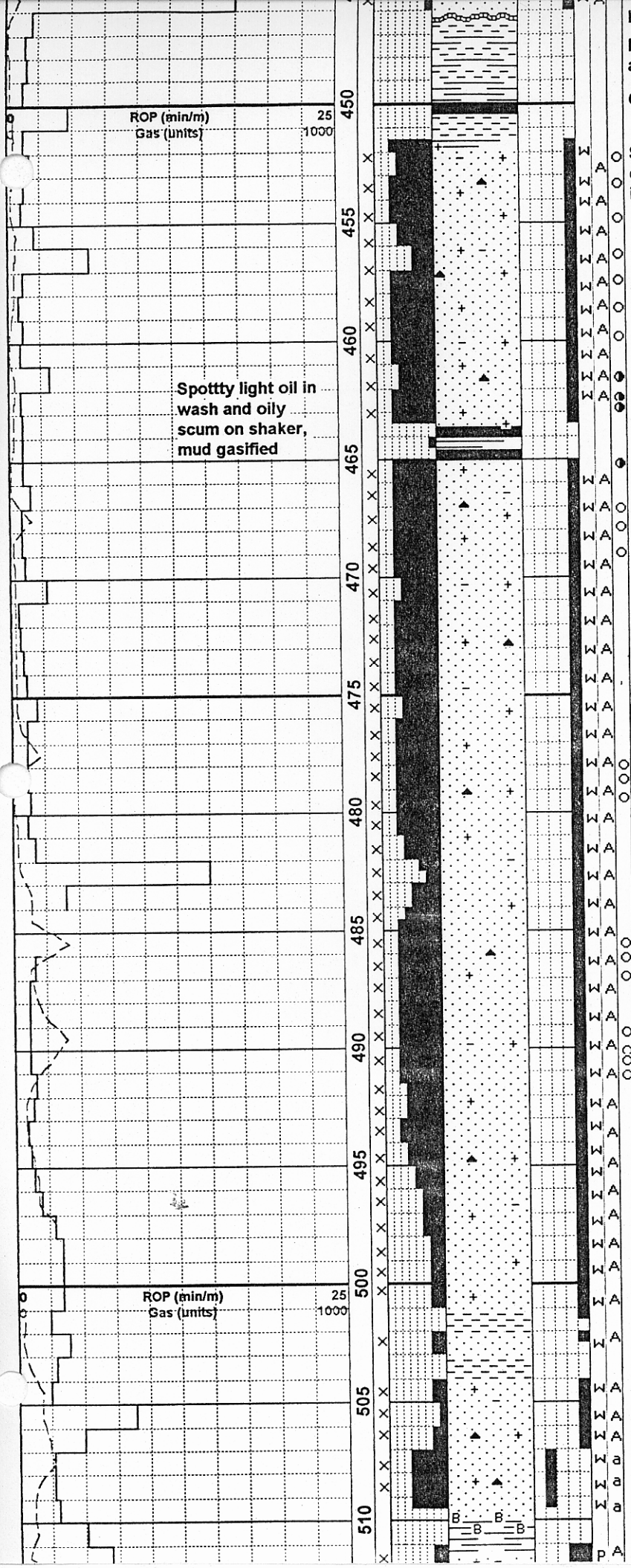
COAL: blk, blky, brit, carb sh, vit, blk strk.
interbedded with carb sh, clyst and mdst

CLAYSTONE: lt gy, wht, mxln, sl swell, v sft.

MUDSTONE: m brn gy, blky, mxln, rr carn, sft.

SANDSTONE: qtz, clr, wht, m - c gr, v ang, wsrtd, i/p wcons / arg mtx, i/p uncons, mnr kspar, tr cht, rr carb, p vis intgran por, no o stn

SANDSTONE a/a



BENTONITE: crm, off wht, chky, v sft, swelling

Interbedded CLAYSTONE: lt gy, crm, bentonitic, v sft, swell and MUDSTONE; lt brm, mxln, sft, non calc.

COAL: blk, blky, brit, carb sh, vit, blk strk.

SANDSTONE: qtz, clr, wht, c - vc gr, ang, wsrtd, fri - cons / cly mtx, i/p uncons, mnr kspar, tr cht, rr carb, p - f vis intgran por, spty yel fl, no cut.

SANDSTONE: a/a

Interbedded coal and carbonaceous shale

SANDSTONE: qtz, clr - opaq, wht, c - vc gr, ang, wsrtd, fri - cons / cly mtx, uncons, mnr clyst, rr bit, f vis intgran por, rr o stn, rr bri yel fl, no cut.

SANDSTONE: a/a

SANDSTONE: a/a

SANDSTONE: qtz, clr - opaq, wht, c - vc gr, ang, wsrtd, uncons, mnr fri - cons / cly mtx, tr kspar, mnr clyst, rr biotie, rr carb, f - g vis intgran por, no o stn.

SANDSTONE: qtz, clr - opaq, wht, c - vc gr, ang, wsrtd, uncons, mnr fri - cons / cly mtx, tr kspar, tr clyst, rr pyr, rr carb, f vis intgran por, no o stn.

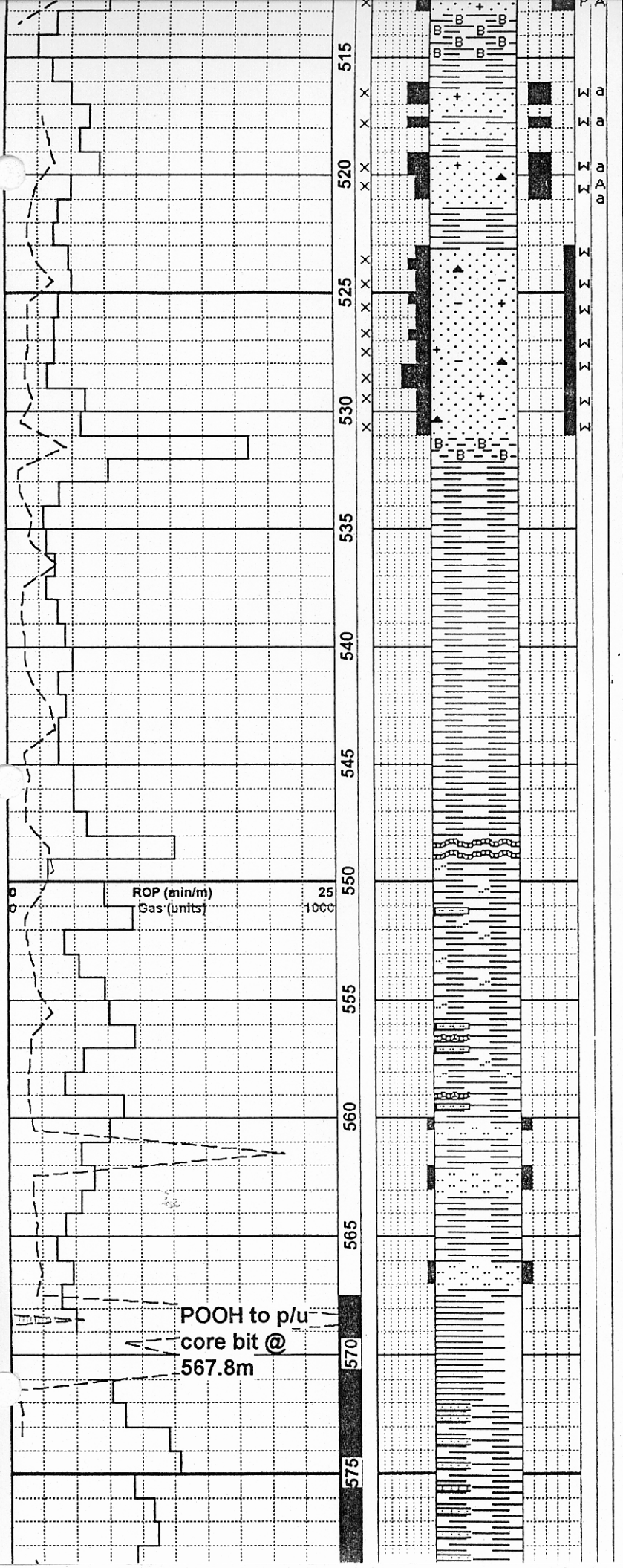
CLAYSTONE: wht, mxln, mnr carb flecks, sft, non calc, sl swell.

SANDSTONE: qtz, clr - opaq, wht, c - vc gr, ang, wsrtd, uncons, mnr fri - cons / cly mtx, tr kspar, tr clyst, rr pyr, rr carb, f vis intgran por, no o stn.

SANDSTONE: qtz, clr - trnsl, vf gr, sbang, wsrtd, fri - cons / cy mtx, abnt clyst, rr access, f vis intgran por, no o stn.

BENTONITIC SHALE: wht, off wht, crm, mxln, sft, sl swell

SANDSTONE: qtz, clr - opaq, wht, m - vc gr, vang - sbang,



cly, f vis intgran por, no o stn.

BENTONITIC SHALE: wht, off wht, crm, mxln, sft, sl swell

SANDSTONE: qtz, 'dusty', crm, off wht, vf - f gr, sbang, uncons, i/p cons / cly mtx, tr cht, tr kspar, p vis intgran por, no o stn.

SANDSTONE: qtz, clr - opaq, wht, c - vc gr, ang, wsrtd, uncons, mnr fri - cons / cly mtx, tr kspar, tr clyst, rr pyr, rr carb, p vis intgran por, no o stn.

BENTONITIC SHALE: wht, off wht, crm, mxln, sft, sl swell

MUDSTONE: bl gy, brn gy, blky - sbfis, mxln, mnr carb, tr Fe, v slty, tr bent clyst, sf - mod ind, non calc

MUDSTONE: a/a

MUDSTONE: a/a

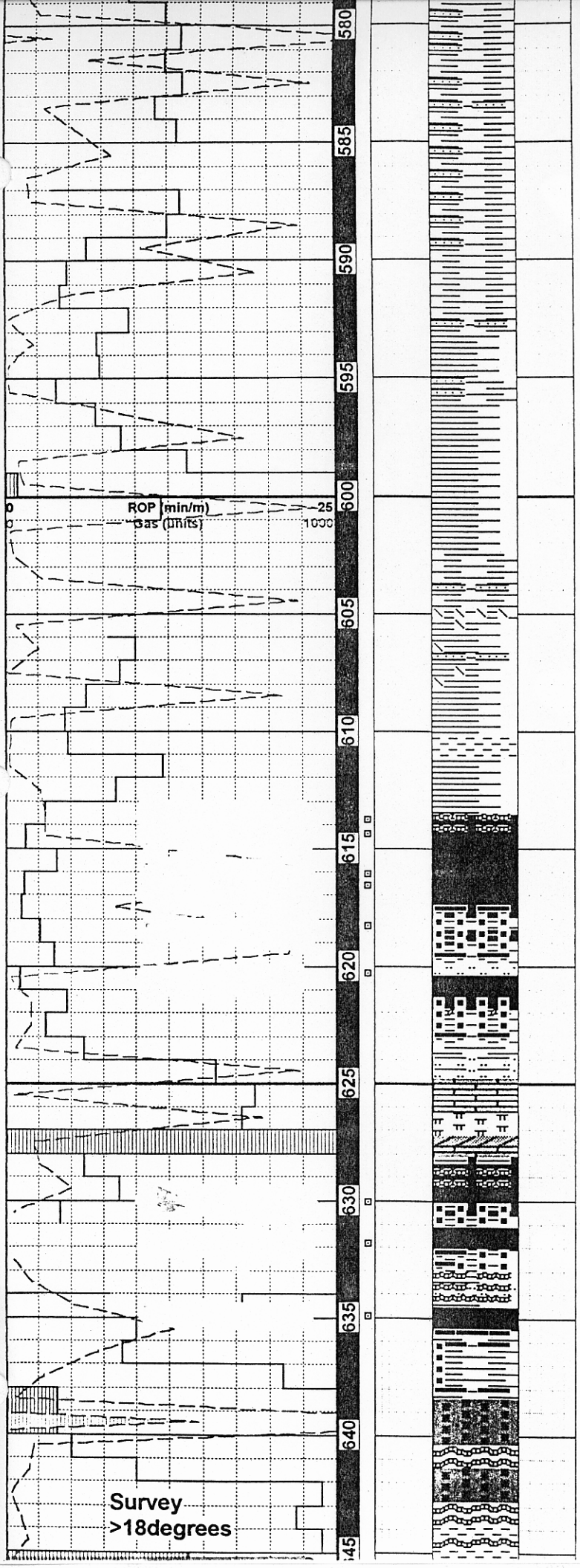
BENTONITE: crm, off wht, chky, v sft, swelling

MUDSTONE: bl gy, brn gy, blky - sbfis, mxln, mnr carb, tr Fe, v slty, tr bent clyst, sf - mod ind, non calc

MUDSTONE: a/a inc sltst str.

SILTSTONE: qtz, lt gy, lt brn gy, sil, slt, mm scale laminations, carb i/p, tt, no o stn.

Run #35 567.8 to 569.3m
Cored: 1.5m Rec: 0.0m Recovery 0%
Run #36 569.3 to 570.3m
Cored: 1.0m Rec: 0.0m Recovery 0%
Run #37 570.3 to 570.5m
Cored: 0.2m Rec: 0.0m Recovery 0%
Run #38 570.5 to 570.6m
Cored: 0.1m Rec: 0.0m Recovery 0%
Run #39 570.6 to 570.8m
Cored: 0.2m Rec: 0.0m Recovery 0%
Run #40 570.8 to 571.0m
Cored: 0.2m Rec: 0.45m Recovery 225%
Run #41 571.0 to 571.5m
Cored: 0.5m Rec: 2.9m Recovery 580%
Run #42 571.5 to 574.4m
Cored: 2.9m Rec: 3.2m Recovery 110%
Run #43 574.4 to 577.4m



Cored: 3.0m Rec: 3.0m Recovery 100%

Run #44 577.4 to 580.4m
Cored: 3.0m Rec: 3.0m Recovery 100%

Run #45 580.4 to 583.4m
Cored: 3.0m Rec: 1.9m Recovery 63%

Run #46 583.4 to 585.3m
Cored: 1.9m Rec: 3.1m Recovery 163%

Run #47 585.3 to 588.3m
Cored: 3.0m Rec: 3.1m Recovery 103%

Run #48 588.3 to 590.3m
Cored: 2.0m Rec: 2.0m Recovery 100%

Run #49 590.3 to 593.0m
Cored: 2.7m Rec: 2.8m Recovery 103%

Run #50 593.0 to 596.0m
Cored: 3.0m Rec: 3.0m Recovery 100%

Run #51 596.0 to 599.0m
Cored: 3.0m Rec: 2.9m Recovery 97%

Run #52 599.0 to 602.0m
Cored: 3.0m Rec: 3.0m Recovery 100%

Run #53 602.0 to 605.0m
Cored: 3.0m Rec: 3.0m Recovery 100%

Run #54 605.0 to 608.0m
Cored: 3.0m Rec: 3.0m Recovery 100%

Run #55 608.0 to 611.0m
Cored: 3.0m Rec: 3.0m Recovery 100%

Run #56 611.0 to 614.0m
Cored: 3.0m Rec: 3.0m Recovery 100%

BLACK SEAM 613.4m

Run #57 614.0 to 616.0m
Cored: 2.0m Rec: 1.9m Recovery 95%

Run #58 616.0 to 617.3m
Cored: 1.3m Rec: 1.3m Recovery 100%

Run #59 617.3 to 619.3m
Cored: 2.0m Rec: 1.8m Recovery 90%

Run #60 619.3 to 621.3m
Cored: 2.0m Rec: 1.9m Recovery 95%

Run #61 621.3 to 623.0m
Cored: 1.7m Rec: 1.5m Recovery 88%

Run #62 623.0 to 625.0m
Cored: 2.0m Rec: 2.6m Recovery 130%

Run #63 625.0 to 627.0m
Cored: 2.0m Rec: 1.9m Recovery 95%

Run #64 627.0 to 629.0m
Cored: 2.0m Rec: 2.1m Recovery 105%

Run #65 629.0 to 631.0m
Cored: 2.0m Rec: 1.7m Recovery 85%

Run #66 631.0 to 633.0m
Cored: 2.0m Rec: 2.3m Recovery 115%

Run #67 633.0 to 635.0m
Cored: 2.0m Rec: 1.9m Recovery 95%

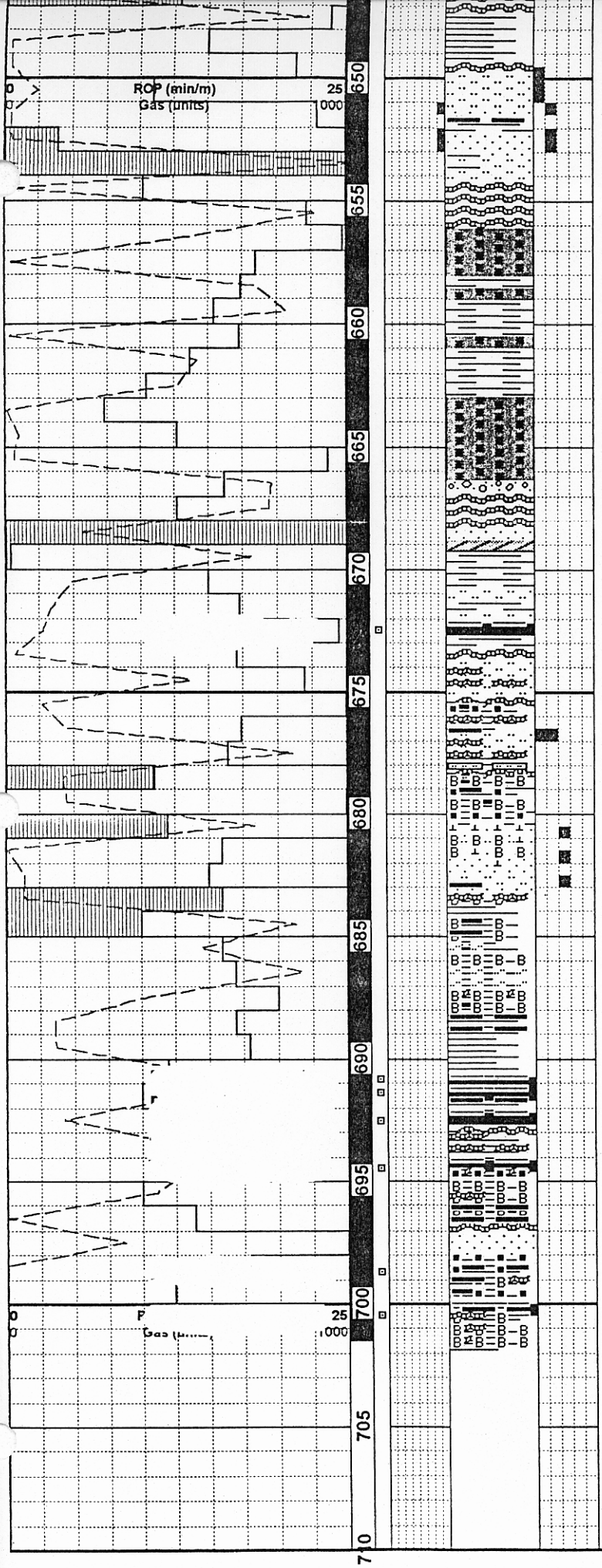
Run #68 635.0 to 637.0m
Cored: 2.0m Rec: 1.4m Recovery 70%

Run #69 637.0 to 639.4m
Cored: 2.4m Rec: 3.0m Recovery 125%

Run #70 639.4 to 641.4m
Cored: 2.0m Rec: 1.8m Recovery 90%

Run #71 641.4 to 644.4m
Cored: 3.0m Rec: 3.1m Recovery 103%

Run #72 644.4 to 647.4m
Cored: 3.0m Rec: 3.1m Recovery 103%



Run #73 647.4 to 650.4
Cored: 3.0m Rec: 3.05m Recovery 102%

Run #74 650.4 to 653.4m
Cored: 3.0m Rec: 2.9m Recovery 97%

Run #75 653.4 to 656.4m
Cored: 3.0m Rec: 3.1m Recovery 103%

Run #76 656.4 to 659.4m
Cored: 3.0m Rec: 3.0m Recovery 100%

Run #77 659.4 to 662.4m
Cored: 3.0m Rec: 3.1m Recovery 103%

Run #78 662.4 to 665.4m
Cored: 3.0m Rec: 3.1m Recovery 103%

Run #79 665.4 to 667.4m
Cored: 2.0m Rec: 2.7m Recovery 135%

Run #80 667.4 to 669.4m
Cored: 2.0m Rec: 1.7m Recovery 85%

Run #81 669.4 to 671.4m
Cored: 2.0m Rec: 1.7m Recovery 85%

Run #82 671.4 to 674.4m
Cored: 3.0m Rec: 2.85m Recovery 95%

Run #83 674.4 to 677.3m
Cored: 2.9m Rec: 2.9m Recovery 100%

Run #84 677.3 to 680.3m
Cored: 3.0m Rec: 3.1m Recovery 103%

Run #85 680.3 to 683.3m
Cored: 3.0m Rec: 2.8m Recovery 93%

Run #86 683.3 to 685.3m
Cored: 2.0m Rec: 1.9m Recovery 895%

Run #87 685.3 to 687.3m
Cored: 2.0m Rec: 2.3m Recovery 115%

Run #88 687.3 to 689.3m
Cored: 2.0m Rec: 1.2m Recovery 60%

Run #89 689.3 to 691.3m
Cored: 2.0m Rec: 2.8m Recovery 140%

Run #90 691.3 to 694.3m
Cored: 3.0m Rec: 3.2m Recovery 85%

Run #91 694.3 to 695.3m
Cored: 1.0m Rec: 0.5m Recovery 50%

Run #92 695.3 to 697.8m
Cored: 2.5m Rec: 3.2m Recovery 128%

Run #93 697.8 to 700.0m
Cored: 2.2m Rec: 2.0m Recovery 91%

Run #94 700.0 to 701.7m
Cored: 1.7m Rec: 1.7m Recovery 100%

T.D. 701.7m at 0700hrs
April 13, 2002