BANNER et al LITTLE GROWL N-11

Drilling Authority No. 424

Date Issued 16 February 1970

WELL NAME Banner et al Little Crowl E-11

FIELD Area

LOCATION: Unit E Section 11 Grid 60-10-121-45

Latitude 60-00-52.5 Longitude 121-48-02.8

U.W.I.R. 60.01458 — 121.80077

U.W.I. 300E116010121450

Rig Release Date

Status

Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
16/2/70	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
7/4/70	Application to Abandon a Well ~~or Suspend Drilling~~.
	Application to Alter Condition of a Well.
	Well History Supplement.
7/5/70	Well Completion Data.
	Work-over Report No.
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells – Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells – Vitter's Method.
	M.P.R. – Oil – Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale Small scale

IAND-5290 (3-69)

Drilling Authority No. 424
Date Issued Feb. 13, 1970.

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

WELL COMPLETION DATA

To be submitted in duplicate within thirty days after the completion, rework, abandonment, discontinuation or suspension of every well.

Well name and number: Banner et al Little Grouf E-11

Permit No.: Shell Canada Limited (Permittee, Licensee, Lessee) — Lease No.: 850-68

Exploratory Licence No.: 101

Banner Petroleums Limited (Operator) — Exploratory Licence No.: 108

Location: Unit N Section 11 Grid 60°10', 121°45'

Latitude 60°00'52.5" North Longitude 121°48'02.3" West

From Established Reference Marker(s)

Universal Well Location Reference Lat. 60.01458° N. Long. 121.80077°W.

	DATE	DEPTH
Spudded	March 5/70	
Suspended		
Resumed Operations		
Finished Drilling	March 31/70	7,438
Deepened		
Complete (gas, oil)		
Abandoned	April 5/70	7,438
Rig released	April 5/70	7,438

Pool(s)

Interval(s) open to production

Elevation: Gr. 1,620' K.B. 1,634'

Rig No. Regent #3

Drilling Contractor Regent Drilling Limited

Contractor's Business Licence No. 501

CASING RECORD

Casing Size (inches)	Grade	Weight	Amount	Set at —	Sacks of Cement and Additives
1. 10 - 3/4"	H40	52.75#	25 Joints	810'	750 Sax - 2% $CaCl_2$
2.					
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION	
	Depths	Sub-Sea
Debolt Fm.	1,058	+576
Shunda Fm.	1,316	+318
Pekisko Fm.	1,557	+77
Banff Fm.	1,754	-120
Exshaw Fm.	2,991	-1,357
Kotcho Fm.	3,014	-1,380
Tetcho Fm.	4,810	-3,196
Hay River Fm.	4,924	-3,289
Muskwa Fm.	6,442	-4,808
Slave Point Fm.	6,452	-4,818
Watt Mtn. Zone	6,710	-5,076
Sulphur Point Fm.	6,805	-5,171
Presqu'ile Fm.	6,940	-5,306

CORE RECORD

From	To	Rec.	From	To	Rec.
No cores cut.					

LOG RECORD

Run No.	Type of Log	From	To
1	Induction Electrical	810'	7434'
1	Integrated BHC Sonic Gamma Ray Caliper	810'	7434'

CEMENTING RECORD (Plug, Squeeze, etc.)

Date	From	To	Remarks
April 4	7150	6900	140 sax cement, 2% Gel, 15% Salt 0.5% Retarder 1 Sax cellophane. Felt @ 6880'
April 5	6510	6410	75 sax 2%Gel, 15%Salt 0.5%Reterder, 1sax Retarder Felt @ 6380'
April 5	860	760	100sax 2%Gel 15%Salt 3%$CaCl_2$ Felt @ 720'
April 5			5 sax at surface, mouse-hole and rathole.

PERFORATING RECORD (Bullet, Jet)

Date	From	To	Remarks

SERVICING RECORD (Acidizing, Fracturing, etc.)

Date	From	To	Remarks

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.H.P.	F.S.I.H.P.	I.F.H.P.	F.F.H.P.	H.H.P.	F.H.P.	REMARKS
1	March 26	Sulphur Pt. Presquile	6860	6890	75	60	75	2829	2817	200	611	3387	3298	Good initial puff, strong air blow, gas to surface in 6 mins. (1 Min. after ISI) Valve opened. Good initial puff, strong air blow, gas to surface immediately at 100 MCF/D, decreasing to too small to measure after 30 mins. (Trace H_2S Gas) 10' flare. Rec. 270' heavy gas cut drilling fluid, 1120' sulphurous salt wat[illegible] 160' water cut, gas cut drilling fluid,
2	April 4	Presquile	7040	7110	75	70	75	2914	2903	1338	2901	3504	3389	Good initial puff, strong air blow, depleting to zero in 63 mins. Rec. 450' salt water cut drilling fluid and [illegible]' brakish, sulphurous salt water.

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
CAL-2-1997	1,120' salt water	6550	6640	Sulphur Pt. - Presquile DST #1	Total Solids 143,044 mg/liter (Na-43,914, Cl 87,396 mg/liter)
CAL-2-2047	Salt water	7040	7110	Presquile DST #2	Solids 78,852mg/liter (Na 24,267, Cl 46,775 (mg/liter

PRESENT STATUS OF WELL

		(Interval)
Oil		
Gas		(Interval)
Dry		T.D. 7,438'
Susp.		

Company Banner Petroleums Limited

Signed by [signature]

Title Chief Geologist

Date May 7, 1970

Forms to be prepared in duplicate and forwarded to the Oil Conservation Engineer, Calgary, Alberta.

File No.
Drilling Authority No. 424

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

APR 7 1970

Application to Abandon a Well ~~or Suspend Drilling~~

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to abandon, to suspend drilling:—

Name and number of well: Banner et al Little Growl N-11

Location: Unit N Section 11 Grid 60° 10', 121° 45'

Latitude 60° 00' 52.5" North Longitude 121° 48' 02.6" West

From Established Reference Marker

Universal Well Location Reference: Lat. 60.01458° N. Long. 121.80077° W.

Permit No. Lease No. 390-68

Shell Canada Limited
(Permittee, Licensee, Lessee)

Date of commencement of proposed program: April 4th, 1970

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at

Gas at 6860 - 6990 Gas @ 100 mcf/d - Presquile Fmt.

Water at 6860 - 6990 - 1120 ft. salt water - Presquile Fmt: 7040 - 7110 Recovered 5800' / of salt water.

Total Depth 7438 Date of last operations April 5th.

Present condition of well: Dry and Abandoned.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Kinds of Cement and Additives	Amount Pulled
1. 10 - 3/4"	32.75#	25 joints	810'	750 sax - 12% $CaCl_2$	
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	6900 to 7150'	Presquile	140 sacks	felt at 6080
2	6410 to 6510'	Slave Point	75 sacks	felt at 6300
3	860 to 760'	Bottom of Casing	100 sacks	
4.	Surface	Weld on plate and erect a well marker		

The following logs have been run: Induction Electrical, Bore Hole Compensated Sonic Gamma Ray-Caliper

Other operations proposed: None

Operations to be carried out by: Banner Petroleums Limited Contractor Licence No. 501

Address 820-407 - 8th Avenue, S.W., Calgary 2. Address 820, 407 - 8th Ave., S.W. Clgy. 2

Responsible Agent in field: Jack Johnson

Dated at Calgary, this 6th Day of April 1970

Signed by [signature] Company Banner Petroleums Limited

Title: Chief Geologist Operator's Exploratory Licence No. 106

Note:—The Oil Conservation Engineer's office must be notified before work is commenced.

(For OIL AND MINERAL DIVISION use only)

APPROVAL

This application has been examined and proposed programme approved, subject to the following conditions:

Confirming oral approval given by Mr. G. E. Blue on the 2nd April 1970.

Dated 7th April, 19 70

[signature]
Oil Conservation Engineer

Forms to be submitted in triplicate to Oil Conservation Engineer, Department of Indian Affairs and Northern Development, Calgary, Alberta.

Drilling Authority No. 436

Project No.

File No.

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application for a Drilling Authority

This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Lands Regulations", application is hereby made for approval to drill:—

Name and number of well Bannor et al Little Crowl K-11

Location: Unit K Section 11 Grid 60°10'; 121°45'

Latitude 60°-00'-52.5" Longitude 121°-48'-02.8"

Unique Well Identifier

Universal Well Location Reference Lat. 60.2145° Nos Long. 121.8007° Wo

Elevation: Ground est. + 13' above ground elv. K.B. foot above sea-level

Well is expected to produce from Slave Point formation at a depth of about 6,400 feet. Expected total final depth 7,650

Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. Lease No. 390-68 Acreage 7197

Permittee, licensee, or lessee Shell Canada Limited

Exploratory Licence No. 101

Surface owned by Crown or Crown

Petroleum and natural-gas rights owned by Crown (If not owned, submit name and address of owner and acreage.)

We propose to use the following strings of casing, either cementing or landing them as indicated below:—

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. 10-3/4	32.75	H-40	New	800	750
2.					
3.					
4.					
5.					

Expected weight, size and of horizons and type of control equipment

10" Series 900 Hydril Type Hydraulic Controlled B.O.P.'s

10" Series 900 Hybrid Hydraulic Controlled B.O.P.'s

Well will be drilled with Rotary Rig No. 3 by Regent Drilling Co. Ltd.

(Drilling Contractor or company)

Responsible agent of applicant:— Contractor's Business Licence No. 543

At well M. Domanko At registered office B. Cochrane

Address 407 - 8th Ave., S.W. Address 407 - 8th Ave., S.W., Calgary 2.

It is understood that if changes become necessary, notice of the change of plan will be submitted.

Dated at Calgary this 13th day of February 19 70

Signed by M. Domanko Company Bannor Petroleums Ltd.

Title Operator's Licence No. 145

(For Oil and Mineral Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:—

1. The Company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.

2. During well drilling and testing operations, every effort shall be made to ensure that

Please see over page

Dated 16th February 19 70

Oil Conservation Engineer

Forms to be submitted to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

QS-1AND 52-90-1 (3-69)

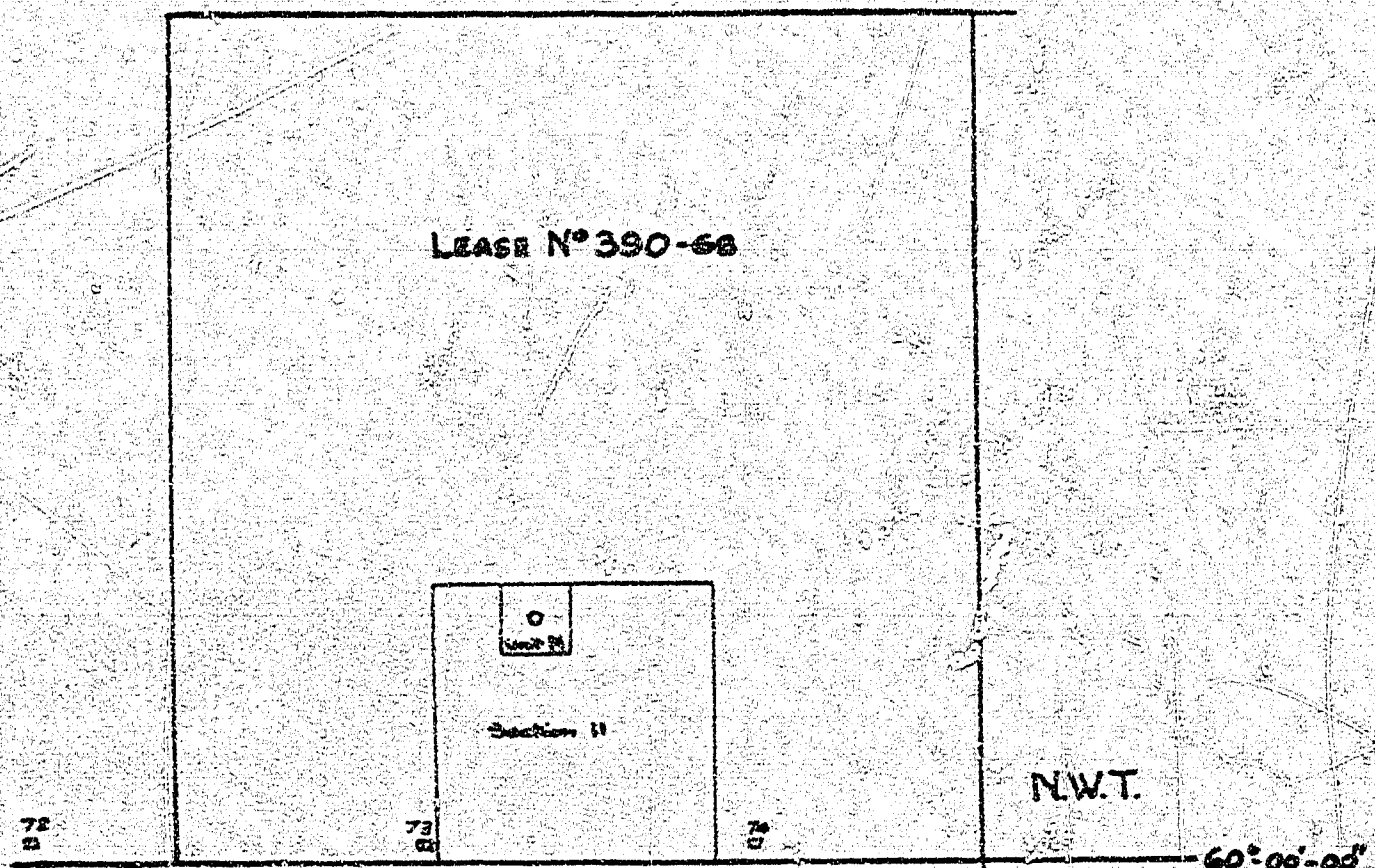
drilling fluids, chemicals and waste shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or subsurface waters.

3. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.

4. Production string of casing is to receive approval from the Oil Conservation Engineer prior to running.

B.E.J. Thomas, Oil Conservation Engineer

-30-00-



Location of
BANNER ET AL LITTLE GROWL

UNIT N SECTION 11
GRID AREA 121°-45', 60°-10'
1 inch = 4000'

Drilling and Completion Report

for

BANNER et al LITTLE GROWL N-11

60° 00' 52.5" N. Lat.

121° 48' 02.8" W. Long.

OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
JUL 23 1976
OTTAWA, CANADA
Dept. of Indian & Northern Affairs Development

DRILLING AND COMPLETION REPORT

for

BANNER ET AL LITTLE GROWL N-11

COORDINATES:

60° 00' 52.5" North Latitude

121° 48' 02.8" West Longitude

NORTHWEST TERRITORIES

CANADA

OIL & GAS OPERATIONS UNIT
Land and Mineral Division
JUL 28 1978
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

James S. McCaffrey P. Geol.

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WELL HISTORY

SECTION 1 - Summary of Well Data

(a) Name of Well	Banner et al Little Crowl N-11
(b) Permittee, Licencee	Shell Canada Limited
(c) Name of Operator	Banner Petroleums Limited, 820 - 407 Eighth Avenue S.W., Calgary 2, Alberta
(d) Location	Unit N, Section 11 Grid Area 121°45' W.L. 60°10; N.L., N.W.T. 60°00' 52.5" North Lat. 121°48' 02.8" W. Long. Universal Well Loc. Ref. No. Lat. 60.01458° N Long. 121.80077° W Unique Well Identifier - 300N 116010121450
(e) Coordinates	
(f) Lease No.	390 - 68
(g) Drilling Contractor	Regent Drilling Limited Rig #3. Type of Rig: Drawworks Make and Model - Brewster N.7 Prime Movers 2-6-71 GMC Twin. Depth Range 4000-9500' H.P. 560 Main Pump - Emsco D500. 2nd Pump - Oilwell 14 P.H.D. Total H.P. on rig - 840 Derrick - Lee C. Moore Height 131' Capacity 510,000# Substructure-Lee C. Moore-Height 10' Cap. 600,000# Blowout Prevention Equip. - Hydril. Ram Type BOP Shaffer
(h) Drilling Authority	No. 424. Date of Issue: Feb. 16/70
(i) Classification	New field wildcat
(j) Elevations	Grd. 1620 (Estimated) K.B. 1634 (Estimated)
(k) Date Spudded	March 3, 1970
(l) Completed Drilling	March 31, 1970
(m) Total Depth	7438 in Lower Paleozoic Sandstone
(n) Well Status	Dry and Abandoned
(o) Rig Release Date	Midnight, April 5, 1970
(p) Hole Sizes	15" to 810'. 8 3/4" - 810' to 7438'
(q) Casing	10 3/4" to 810' cemented with 750 sacks + 2% CaCl

TABLE OF FORMATIONS

KB = 1034' (Est'd)

Formation:		Sample Depth:	Log Depth:	Subsea:
Mississippian	Debolt Fm.	1,040	1,058	+576
	Shunda Fm.	-	1,316	+318
	Pekisko Fm.	-	1,557	+77
	Banff Fm.	-	1,754	-120
	Exshaw Fm.	-	2,991	-1,357
Upper Devonian	Kotcho Fm.	-	3,034	-1,380
	Tetcho Fm.	4,820	4,830	-3,146
	Hay River Fm.	4,930	4,923	-3,289
	Muskwa Fm.	6,450	6,442	-4,808
Middle Devonian	Slave Point Fm.	6,460	6,452	-4,818
	Watt Mtn. Zone	6,770	6,710	-5,076
	Sulphur Point Fm.	6,870	6,805	-5,171
	Presquile Fm.	6,950	6,940	-5,306
Lower Paleozoic Sandstone		7,400	7,401	-5,767
	Total Depth	7,438	7,435	-5,801

BANNER ET AL LITTLE GROWL N-11

69° 00' 52.5" North Latitude

21° 48' 02.8" West Longitude

SAMPLE DESCRIPTIONS

1,000 - 1,400

4,750 - 7,438 T.D.

BANNER ET AL LITTLE GROWL N-11

60° 00' 52.5" North Latitude
121° 48' 02.8" West Longitude

Note : Sample Study Begins at 1000' in the Lower Cretaceous Fort St. John Group.

1000-1010 No Sample - Missed.

1010-1040 Shale - dark grey, scattered white to buff specks (specks slightly calcareous to non-calcareous), slightly pyritic. Rare Fish Scales.

MISSISSIPPIAN-DEBOLT FM. 1058' (+ 576)

1040-1050 Shale - as above; and Minor Limestone (20%) : Buff to light Brown, cryptograined to micrograined, partly fossiliferous, scattered crinoids, slightly argillaceous, scattered poor oil stain, good oil cut, no visible porosity;
Trace Chert: brown to grey, bedded, tight;
Trace Shale : green, waxy;

1050-1080 Limestone - as above, partly fossiliferous, scattered crinoids, slightly argillaceous; tract chert : light brown to grey;

1080-1100 Limestone - buff to light brown, cryptograined to micrograined, slightly chalky, slightly argillaceous, crinoidal, partly fragmental, scattered poor oil stain, good oil cut.
No visible porosity.

1100-1130 Limestone - As above; and Minor Shale : grey, calcareous (Abundant Shale Cavings : Dark grey, splintery).

1130-1160 Limestone - Buff to light brown, cryptograined to micrograined, partly crinoidal, partly fragmental, partly chalky, slightly argillaceous, scattered poor oil stain, good oil cut, no visible porosity.

1160-1190 Limestone : as above;
Trace chert: cream to light brown, bedded, tight.

1190-1260 Limestone : as above, partly fine to medium grained.
Trace chert: light brown to grey, bedded, spicular in part, tight.

SHUNDA FM. 1315' (+ 318)

1260-1320 As above; and Shale: grey, calcareous, grading to Marlstone.

1320-1380 Very poor samples - Mostly cavings - Shale: grey, calcareous, grading to marlstone.

1380-1400 Shale: light grey to grey, calcareous, grading to marlstone.

Note: Sample Study Resumes @ 4750' in the Upper Devonian - Kotcho Fm.

Sample Study Resumes @ 4750' in the Upper Devonian - Kotcho Fm.

4750-4790	Shale - grey to dark grey, splintery, trace Siltstone - light grey, calcareous.
4790-4800	Limestone - light greyish brown to greyish brown, micrograined to cryptograined, very silty, partly argillaceous, tight, grading to limy, argillaceous, slightly micaceous Siltstone.
4800-4820	Shale - as above; and Shale - dark rusty brown, splintery (cavings?). Trace Limestone - as above;

TETCHO FM. 4830' (-3196)

4820-4840	Shale - grey to dark grey, splintery; and Limestone - light brown to greyish brown, micrograined to cryptograined, partly chalky, fossiliferous (rare crinoids and ostracods), tight; Trace pyrite.
4840-4850	Shale - as above; and Limestone - light brown to greyish brown, cryptograined to micrograined partly chalky, partly fossiliferous, tight;
4850-4910	Limestone - buff to light brown, cryptograined to micrograined, chalky, tight;
4910-4920	Limestone - light brown to brown, cryptograined to micrograined, partly chalky, tight;

HAY RIVER FM. 4923' (-3289)

4920-4930	Limestone - light greyish brown to brownish grey, cryptograined to micrograined, fossiliferous, partly chalky, tight;
4930-4950	Shale - grey to dark grey, splintery; and minor Limestone - as above;
4950-5000	Shale - grey to dark grey, splintery;

5000-5180	Shale - grey to brownish grey, partly greenish grey, splintery; trace Siltstone - light grey, calcareous;
5180-5190	Shale - grey to brownish grey, splintery; and minor Siltstone as above;
5190-5200	Shale - as above; trace Siltstone - as above;
5200-6270	Shale - grey to brownish grey, splintery;
6270-6280	No sample - Missed
6280-6390	Shale - grey to brownish grey, splintery;
	MUSKWA FM. 6442' (-4808)
6390-6450	Shale - as above; partly dark grey, grey streak;
6450-6460	Shale - grey to brownish grey, splintery; and minor Shale - dark brownish grey to black, partly bituminous with brown streak;
	SLAVE POINT FM. 6452' (-4818)
6460-6470	As above; trace Limestone - brown to dark brownish grey, cryptograined to micrograined, slightly argillaceous, partly chalky, tight;
6470-6490	Limestone - brown to dark brownish grey, cryptograined to micrograined, partly chalky, slightly argillaceous, tight;
6490-6520	Limestone - brown to dark brown, partly dark brownish grey, cryptograined to micrograined, partly chalky, slightly argillaceous, tight;
6520-6560	Limestone - dark brownish grey to brown, partly buff to light brown, cryptograined, partly chalky, rare stromatoporoids, slightly argillaceous, tight;
6560-6600	Limestone - brown to light brown, partly dark brown to dark brownish grey, cryptograined to micrograined, partly chalky, rare stromatoporoids, slightly argillaceous, tight;
6600-6610	Limestone - as above; trace secondary Dolomite - white, crystalline;

6610-6620	Limestone - brown to light brown, partly dark brown to dark brownish grey, cryptograined to micrograined, partly chalky, tight;
6620-6630	Limestone - dark brownish grey to dark brown, partly light brown to brown, cryptograined to micrograined, partly chalky, slightly argillaceous, tight;
6630-6650	Limestone - as above; rare stromatoporoids; trace secondary crystalline Quartz;
6650-6670	Limestone - as above; partly dolomitic, partly fragmental, rare stromatoporoids; trace secondary crystalline Quartz;
6670-6690	Limestone - dark brownish grey to dark brown, partly brown, cryptograined to micrograined, partly dolomitic, slightly argillaceous, rare stromatoporoids, tight;
	WATT MOUNTAIN ZONE 6710' (-5076)
6690-6720	Limestone - dark brownish grey to dark brown, partly brown to light brown, cryptograined to micrograined, partly fragmental, partly dolomitic, slightly argillaceous, tight;
6720-6730	As above; trace Limestone - light brown, cryptograined to lithographic, slightly argillaceous, tight; trace Chert - dark greyish brown;
6730-6760	Limestone - light brown, cryptograined to lithographic, slightly argillaceous, tight; and Limestone - dark greyish brown to brown, cryptograined, slightly argillaceous, partly chalky, tight; (cavings?)
6760-6770	Limestone - light brown to buff, cryptograined to lithographic, clean, tight;
6770-6780	As above; trace Shale - light grey, waxy, pyritic in part;
6780-6800	Limestone - as above;
	SULPHUR POINT FM. 6805' (-5171)
6800-6820	Limestone - light brown to greyish brown, cryptograined, clean, partly chalky, tight; trace Shale - light grey, pyritic in part;
6820-6850	Limestone - as above; slightly dolomitic;



6850-6870 — Limestone - as above; slightly dolomitic, rare secondary Dolomite, white crystalline (probably fracture infill)

6870-6900 — Limestone - dark greyish brown to light brown, cryptograined, slightly dolomitic, slightly chalky, tight; trace secondary Dolomite - white, crystalline; (probably fracture infill)

6900-6930 — Limestone - dark brownish grey to greyish brown, cryptograined, slightly chalky, slightly argillaceous, tight;

6930-6950 — Limestone - dark brownish grey to greyish brown, cryptograined, partly chalky, slightly dolomitic, tight; rare secondary Dolomite - white, crystalline (probably fracture infill)

PRESQUILE FM. 6940' (-5306)

6950-6960 — Dolomite (70%); light brown to brownish grey, partly grey, medium to coarse crystalline, reefal (?), no cut, stain, odor or fluorescence, trace intercrystalline and vugular porosity; and minor Limestone (20%); dark brown to greyish brown, as above; minor secondary Dolomite (10%) - white, coarse crystalline, (probably fracture infill)

6960-6970 — Limestone (60%); dark greyish brown to light brown, cryptograined, partly chalky, tight; and minor Dolomite (40%) - as above; trace secondary Dolomite - as above;

6970-6980 — Dolomite (70%); buff to light brown, partly dark greyish brown, medium to coarse crystalline, reefal (?), no cut, stain, odor or fluorescence, trace intercrystalline and vugular porosity; and minor Limestone (30%) - as above; trace secondary Dolomite - as above; trace Dolomite rhombs.

6980-6990 — Limestone - dark greyish brown to brown, cryptograined, slightly argillaceous, partly chalky, tight; trace Dolomite - as above; trace secondary Dolomite - as above;

Note: Trip to Test @ 6990'

6990-7000 — Very poor sample - Limestone (50%?) - as above; and Dolomite (50%?) - as above;

7000-7010 — Limestone (70%): light brown to dark greyish brown, cryptograined, slightly chalky, slightly argillaceous, tight; and Dolomite (30%) - as above; trace intercrystalline and vugular porosity, no oil cut, stain, odor or fluorescence.

7010-7050 — Dolomite - greyish brown to dark greyish brown, partly buff to light brown, medium to coarse crystalline, reefal, no cut, stain, odor or fluorescence, scattered vugular porosity, (probably some fracture porosity) - trace secondary Dolomite - white crystalline (probably fracture and vug infill) rare Dolomite rhombs.

7050-7080 — Dolomite - as above; minor secondary Dolomite (10-20%); white, crystalline (probably fracture and vug infill) - rare Dolomite rhombs.

7080-7100 — Dolomite - greyish brown to buff, partly dark greyish brown, - as above; and minor secondary Dolomite (20-30%) - white, coarse crystalline; rare Dolomite rhombs.

7100-7110 — Mostly Limestone cavings.

Note: (7085-7107) - lost approx. 50 bbls. of Drilling Fluid to formation - lost circulation material added to Drilling Fluid.

7110-7120 — Dolomite - greyish brown to dark greyish brown, partly buff to light brown, medium to coarse crystalline, reefal, no cut, stain, odor or fluorescence, scattered vugular and intercrystalline porosity, (probably some fracture porosity). Minor secondary Dolomite (20-30%); white, coarse crystalline, rare Dolomite rhombs.

7120-7160 — Dolomite - greyish brown to dark greyish brown, partly buff to light brown, fine to medium crystalline, reefal (?), no cut, stain, odor or fluorescence, trace vugular and intercrystalline porosity (probably some fracture porosity).
- Trace secondary Dolomite - white, crystalline.
- Rare Dolomite rhombs.

7160-7180 — Dolomite - greyish brown to light brown, partly dark brownish grey, fine crystalline, clean to slightly argillaceous, tight;
Trace Shale - light grey, waxy, pyritic.
Trace secondary Dolomite - white, crystalline.

7180-7260 — Dolomite greyish brown to light brown, fine crystalline, tight;

7260-7300 — Dolomite - greyish brown to brownish grey, partly dark greyish brown, fine to very fine crystalline, clean to slightly argillaceous, tight;

7300-7320 — Dolomite - greyish brown to light brown, partly dark greyish brown, fine to very fine crystalline, clean to slightly argillaceous, tight; trace Chert - dark brown, partly mottled; trace white crystalline Quartz; rare Quartz crystals.

7320-7350 — Dolomite - buff to light brown, partly dark greyish brown, fine to very fine crystalline, clean to slightly argillaceous, tight; trace white crystalline Quartz; rare Quartz crystals.

7350-7390 — Dolomite - buff to greyish brown, partly dark greyish brown, fine to very fine crystalline, partly microcrystalline, tight;

7390-7400 — Dolomite - as above; trace Dolomite - light buff, microcrystalline, arenaceous (fine grained Quartz), tight, grading to dolomitic Sandstone;

LOWER PALEOZOIC SS. 7401' (-5767)

7400-7420 — Sandstone - white to buff, medium to coarse grained, very siliceous, slightly pyritic, partly dolomitic, tight; and minor Dolomite - light buff, very fine to microcrystalline, arenaceous, tight;

7420-7438 T.D. Sandstone - white to clear, (trace pink), medium to coarse grained, quartzitic, very siliceous, slightly pyritic, tight, grading to near quartzite.
Trace Shale - greyish green, waxy, partly arenaceous.

Total Depth 7438' (Driller)

Total Depth 7435' (Logger)

Rig released @ Midnight April 5, 1970.

DRILL STEM TESTS

D.S.T. #1 (6860 - 6990) (Sulphur Point - Presquile Fms.)

Preflow ..... 5 mins. V.O. ..... 75 mins.

ISI ..... 60 mins. FSI ..... 75 mins.

Good initial puff, strong air blow, gas to surface in 6 mins. (1 cm in. after ISI); Valve opened. Good initial puff, strong air blow, gas to surface immediately at 100 MCF/D, decreasing to too small to measure after 30 mins. (Trace H_2S Gas) 10' flare.

Recovery: 270' Gas Cut Mud.
180' Water Cut, Gas Cut Mud.
1,120' Black Sulphurous Salt Water.

Salinity: 97,067 PPM (CL); B.H.T. = 232° F.

IHP = 3387 psi; IFP = 200 psi; ISIP = 2829 psi;

FHP = 3298 psi; FFP = 811 psi; FSIP = 2817 psi.

DRILL STEM TESTS (Cont'd)

D.S.T. #2 (7040 - 7110) (Presqu'ile FM)

Preflow ..... 5 mins. V.O. ..... 75 mins.

ISI ..... 70 mins. FSI ..... 75 mins.

Good initial puff, strong air blow, depleting to zero in 65 mins.

Total Recovery: 6250' Fluid.

450' Salt Water Cut Drilling Mud.

5800' Salt Water.

Salinity: 138,000 PPM (CL).

IHP = 3504 psi; IFP = 1338 psi; ISIP = 2914 psi;

FHP = 3389 psi; FFP = 2901 psi; FSIP = 2903 psi;

SUMMARY OF PERTINENT DATA

Name of Operator:	Banner Petroleums Limited
Name of Well:	Banner et al Little Growl N-11
Location:	Unit N, Section 11, Grid Area 121° 45' W.L. 60° 10' N.L., N.W.T.
Co-Ordinates:	60° 00' 52.5" North Latitude. 121° 48' 02.8" West Longitude.
Contractor:	Regent Drilling Limited (Rig #3).
Date Spudded:	March 3rd, 1970.
Completed Drilling:	March 31st, 1970.
Date Rig Released:	April 5th, 1970 (Midnight).
Total Depth:	7,438' in Lower Paleozoic Sandstone.
Status of Well:	Dry & Abandoned.

Tabulation:

Ground Elevation:	1,620' (Est'd).
Kelly Bushing Elevation	1,634' (Est'd).
Casing - (Surface) -	Ran 25 jts., 10-3/4", H40, 8rd thd, 32.75# new Can. Phoenix Steel Corp., casing; - Landed at 810' K.B.; - Cemented by Dowell will 750 cu. ft. neat cement, plus 2% $CaCl_2$ - Plus down @ 6:00 p.m. March 5th, 1970; Good Cement returns (30 bbls.).
Summary of Tops:	(See Page 3)

Summary of Drill Stem Tests:

DST #	Interval	Formation	Recovery
1	(6860-6990)	Sulphur Pt. - Presquile	GTS in 6 mins. @ 100 MCF/D decreasing to TSTM in 30 mins. (TR. H_2S Gas) 270' Gas Cut Mud. 180' Water Cut, Gas Cut Mud. 1,120' Black, Sulphurous Salt Water.

SUMMARY OF PERTINENT DATA (Cont'd)

Summary of Drill Stem Tests: (Cont'd)

DST#	Interval	Formation	Recovery
2	(7040 - 7110)	Presquile	450' Salt Water Cut Mud 5800' Salt Water

Fluid Samples:

Interval Sampled	Formation	Recovery	Results of Analysis
6550 - 6640 (DST #1) 180' above tool. Lab. Report CAL-2-1997	Sulphur Pt. - Presquile	270' Gas Cut Mud 180' Water Cut. Gas Cut Mud, 1,120' Black Sulphurous Salt Water	Total solids 143,044 mg/liter (Na-43,914, Cl 87,396mg/liter)
7040-7110 DST (2)	-Presquile	5000' salt water 450' salt water cut mud	Solids 78,832 mg/liter (Na 24,267, Cl 46,775) (mg/liter)

Logs Run:	Scale:
(1) Induction E-log Lab. Report CAL-2-2047	2" - 100' (810' - 7434') 5" - 100' (6200' - 7434')
(2) Integrated BHC Sonic Gamma Ray Caliper Log	2" - 100' (810' - 7434') 5" - 100' (6200' - 7434')

Abandonment Plugs:

Plug #	Interval	Cement	Felt Plug at:
1	(7150 - 6900)	140 sacks oilwell cement plus 2% Gel, 15% Salt, 0.5% Retarder and 1 sack cellophane	6880' with 800 lbs.
2	(6510 - 6410)	75 sacks oilwell cement plus 2% Gel, 15% Salt, 0.5% Retarder, and 1 sack cellophane	6380' with 800 lbs.
3	(860 - 760)	100 sacks cement plus 2% Gel, 15% Salt & 3% $CaCl_2$	720'
4	Surface, Mouse Hole and Rat Hole	5 sacks cement.	

BIT RECORD

Bit No.	Make	Size	Type	Serial No.	Depth Out	Footage	Hours	Accum. Hours	Dull Condition T	B	G
1A	H.W.	15"	OSC-3	9429 H-H-476	613	613	24 1/2		6	1	I
RR2A	H.W.	8 3/4"	XV	Pilot	1000	387	11 1/4		4	1	I
3A	H.W.	15"	OSC-3	4821	810	197	4 1/2		1	1	I
1	H.W.	8 3/4"	X1GJ	22615	3005	2005	41	41	7	6	I
2	H.W.	8 3/4"	X1GJ	22623	3642	637	32 1/2	73 1/2	5	2	I
3	REED	8 3/4"	STIAG-J	857603	4261	619	35 3/4	109 1/4	5	2	I
4	REED	8 3/4"	STIAG-J	575931	4809	548	33 3/4	143	6	3	I
5	H.W.	8 3/4"	X1G-J	18493	5384	575	41	184	5	3	I
6	H.W.	8 3/4"	X1G-J	22626	6208	824	37 1/2	221 1/2	4	4	I
7	H.W.	8 3/4"	X1G-J	19536	6661	453	22 1/4	243 3/4	7	7	I
8	H.W.	8 3/4"	X7-J	20827	6990	329	29	272 3/4	5	2	I
9	H.W.	8 3/4"	X7-J	22953	7225	235	24 3/4	297 1/2	8	8	0
10	REED	8 3/4"	SHG-J	855744	7369	144	22	319 1/2	8	8	0
11	REED	8 3/4"	SCM-5	863434	7437	68	14 1/4	333 3/4	8	8	0
12	H.W.	8 3/4"	WD 7	VE402	7438	1	- Ream Undergauge Hole -				

MUD ADDITIVES RECORD

To 8:00 A.M. Daily

1970

March 3	3500# Gel.
March 4	1500# Gel, 25# Lime.
March 5	5# Lime.
March 6	50# Lime.
March 7	Nil
March 8	Nil
March 9	Nil
March 10	23,300# Gel, 150# Caustic, 1 Gal. No-Stik, 200# Cellophane.
March 11	7500# Gel, 50# Caustic.
March 12	1200# Gel.
March 13	400# Gel, 15 Bennex, 2 Gals. No-Stik.
March 14	9500# Gel, 36# Bennex, 100# Caustic, 200# C/pan, 6 Gals. No-Stik.
March 15	7600# Gel, 26# Bennex, 100# Caustic, 100# Cypan, 2 Gals. No-Stik.
March 16	13,500# Gel, 52# Bennex, 150# Caustic, 6 Gals. No-Stik.
March 17	9900# Gel, 42# Bennex, 100# Caustic, 4 Gals. No-Stik, 50# CMC.
March 18	17,500# Gel, 58# Bennex, 150# Caustic, 100# Cypan, 6 Gals. No-Stik.
March 19	8100# Gel, 10# Bennex, 150# Caustic, 50# Cypan, 4 Gals. No-Stik, 150# CMC.

MUD ADDITIVES RECORD (Cont'd)

To 6:00 A. M. Daily

1970

March 20	11,200# Gel, 45# Bennex, 100# Caustic, 200# Cypan, 6 Gals. No-Stik.
March 21	8600# Gel, 34# Bennex, 50# Caustic, 100# Cypan, 4 Gals. No-Stik, 50# CMC.
March 22	10,900# Gel, 42# Bennex, 200# Caustic, 150# Cypan, 6 Gals. No-Stik.
March 23	8400# Gel, 34# Bennex, 100# Caustic, 150# Cypan, 6 Gals. No-Stik, 75# CMC.
March 24	3300# Gel, 12# Bennex, 100# Caustic, 100# Cypan, 4 Gals. No-Stik.
March 25	5800# Gel, 22# Bennex, 150# Caustic, 100# Cypan, 6 Gals. No-Stik, 50# CMC.
March 26	7900# Gel, 30# Bennex, 150# Caustic, 150# Cypan, 6 Gals. No-Stik,
March 27	600# Gel, 2# Bennex, 6500# Sparton (Weight Material).
March 28	6200# Gel, 350# Caustic, 100# Cypan, 4 Gals. No-Stik, 50# Cellophane, 450# Peltex.
March 29	2400# Gel, 150# Caustic, 100# Cypan, 2 Gals. No-Stik, 200# Peltex.
March 30	3000# Gel, 100# Caustic, 100# Cypan, 2 Gals. No-Stik. 50# CMC, 200# Peltex.
March 31	100# Gel, 100# Caustic, 100# Cypan, 2 Gals. No-Stik, 200# Peltex.

MUD ADDITIVES RECORD (Cont'd)

To 8:00 A. M. Daily

1970

April 1	2000# Gel, 50# Caustic, 50# Cypan, 100# Peltex.
April 2	1800# Gel.
April 3	Nil
April 4	400# Gel, 100# Caustic, 50# Peltex.
April 5	Nil

MUD ADDITIVES SUMMARY

Gel	177,100#
Benrex	446#
Caustic	2,650#
Cypan	1,850#
No-Stik	79 Gals.
CMC	425#
Lime	80#
Cellophane	~~250#~~
Sparton (Weight Material)	6,500#
Peltex	1,200#

MUD PROPERTIES RECORD

Date	Depth	Wt.	Vis.	W.L.	F.C.	P.H.
March						
4	507	-	46	-	-	-
5	1,000	8.9	100	-	-	-
6	1,000	-	-	-	-	-
7	1,227	8.5	28	-	-	-
8	2,319	8.7	28	-	-	-
9	3,005	8.4	28	-	-	-
10	3,006	8.9	130	7.4	2/32	10.0
11	3,006	8.9	175	7.8	2/32	10.0
12	3,006	-	-	-	-	-
13	3,090	9.0	200	-	2/32	10.0
14	3,440	8.9	125	7.2	2/32	9.5
15	3,708	9.1	115	5.8	2/32	10.0
16	4,020	8.9	78	6.4	2/32	9.5
17	4,350	8.9	76	5.6	2/32	9.5
18	4,723	8.9	65	6.2	2/32	9.5
19	4,922	8.9	60	6.0	2/32	9.5
20	5,210	8.9	83	6.6	2/32	9.5
21	5,384	8.9	140	6.6	2/32	9.5
22	5,753	8.9	92	5.8	2/32	10.0
23	6,208	9.1	140	6.4	2/32	9.5
24	6,540	9.1	85	6.2	2/32	10.0
25	6,730	9.2	105	6.2	2/32	10.0
26	6,980	9.2	104	6.0	2/32	10.5

MUD PROPERTIES RECORD (Cont'd)

Date	Depth	Wt.	Vis.	W.L.	F.C.	P.H.
March						
27	6,990	9.3	240	5.5	2/32	10.5
28	7,182	9.2	135	5.6	2/32	10.0
29	7,275	9.2	130	6.0	2/32	11.0
30	7,375	9.3	135	5.2	2/32	11.0
31	7,437	9.3	180	5.0	2/32	11.0
April						
1	7,438	9.3	190	5.8	2/32	11.0
2	7,438	9.3	210	5.2	2/32	11.0
3	7,438	-	-	-	-	-

DEVIATION SURVEY RECORD

Depth (Feet)	Deviation (Deg.)	Depth (Feet)	Deviation (Deg.)
60'	1/8°	3,720'	2°
90'	1/8°	3,829'	1-1/2°
120'	1/2°	3,887'	1-1/2°
200'	1/2°	3,970'	1-1/8°
280'	1/4°	4,072'	1-1/8°
370'	1/4°	4,167'	1-1/8°
450'	1/2°	4,261'	1-1/2°
559'	1/2°	4,355'	1-1/2°
653'	1°	4,450'	2°
680'	1°	4,512'	1-3/4°
710'	1°	4,570'	Misrun
770'	7/8°	4,660'	3°
830'	3/4°	4,690'	3°
990'	1°	4,733'	3°
1,100'	1°	4,765'	3°
1,190'	1°	4,809'	2-7/8°
1,390'	7/8°	4,880'	2-1/2°
1,600'	3/4°	4,953'	2-1/8°
1,900'	1°	5,046'	2-7/8°
2,030'	1°	5,130'	3°
2,150'	7/8°	5,235'	2-3/4°
2,445'	7/8°	5,288'	3°
2,600'	3/4°	5,380'	3-1/4°
2,690'	1/2°	5,456'	3-1/8°
2,789'	1/2°	5,541'	3-1/2°
2,940'	3/4°	5,635'	2-7/8°
3,000'	1/2°	5,730'	2-3/4°
3,260'	2°	5,855'	2-1/4°
3,300'	1-3/4°	5,950'	1-3/4°
3,353'	2°	6,045'	1-3/4°
3,414'	2°	6,147'	1-1/2°
3,475'	2°	6,300'	1-1/4°
3,570'	2-1/4°	6,660'	1°
3,600'	2-1/8°	6,990'	1/2°
3,640'	1-3/4°	7,225'	1°
3,659'	2-1/2°	7,365'	1-1/4°
3,690'	2°	7,438'	

SECTION IV - Summary of Logs Run

Schlumberger - Run No. 1 - April 2, 1970

(1) Induction E-Log	2" - 100' (810'-7434')
	5" - 100' (6200'-7434')
(2) Integrated BHC Sonic Gamma Ray Caliper Log	2" - 100' (810'-7434')
	5" - 100' (6200'-7434')

BANNER PETROLEUMS LIMITED

DAILY DRILLING PROGRESS REPORT

K.B. 1634' (Est'd)

Well name and description BANNER et Al BITTLE CROWN N-11

1970 DATE	DEPTH	FOOTAGE	HOURS	CURRENT OP	FORMATION	REMARKS
March 3	-	-	-	Rig to spud		Rig to spud and mix mud.
4	507	507	19-3/4	Drlg.		Spudded 8:00 a.m. March 3, 1970.
5	1000	493	11-1/4	Reaming		Reaming 8-3/4" hole to 15".
						K.B. to G.L. = 14.10'
6	1000	-	-	W.O.C.		Ran 25 jts, 10-3/4", H40, 8 rd thd,
						32.75#, new Can. Phoenix Steel Corp.
						casing - Landed at 810' K.B. -
						Cemented by Dowell with 750 cu. ft.
						neat cement, plus 2% $CaCl_2$ - Plug
						down @ 6:00 p.m., March 5, 1970;
						Good cement returns (30 bbls).
7	1227	227	6	Drlg.	Miss-Debolt	Pressure tested blind rams and
						manifold to 1000 psi - held ok.
						Pressure tested pipe rams to 1500
						psi - held ok.
						Pressure tested Hydril to 1500 psi -
						held ok.
						Ran in w/bit #1.
						Drilled out shoe @ 1:30 a.m.
						March 7, 1970.
8	2319	1092	22	Drlg.	Banff	
9	3005	686	13	Cln. to		Pulled bit #1.
				btm.		Ran in w/bit #2.
10	3006	1	-	Stuck in	Exshaw	Pipe stuck in hole.
				hole		

BANNER PETROLEUMS LIMITED

DAILY DRILLING PROGRESS REPORT

K.B. 14½' above G.L.

Well name and description: BANNER et al LITTLE CREEK A-11

1970	DATE	DEPTH	FOOTAGE	HOURS	CURRENT OP	FORMATION	REMARKS
March	11	3006	-	-	Stuck in hole.	Exshaw	Waiting for wash over pipe.
	12	3006	-	-	Washing over fish	Exshaw	Pulled out - Ran in with washover string & fishing tools.
	13	3090	84	2-3/4	Drlg.	U. Dev.	Recovered fish - pulled out. Ran in with bit #2. Cleaned 256' to btm.
	14	3440	350	21	Drlg.	U. Dev.	
	15	3700	260	12	Drlg.	U. Dev.	Pulled bit #2. Ran in w/bit #3 - Reamed tight hole 2800' to 3560'.
	16	4070	370	21	Drlg.	U. Dev.	
	17	4350	330	17-1/4	Drlg.	U. Dev.	Pulled bit #3 Ran in w/bit #4
	18	4723	373	20-1/4	Drlg.	U. Dev.	
	19	4977	190	15-1/4	Drlg.	Tetcho	Pulled bit #4 Ran in w/bit #5
	20	5210	288	20	Drlg.	Hay R. Sh.	
	21	5384	174	13-3/4	Clean to btm	Hay R. Sh.	Pulled bit #5. Ran in w/bit #6
	22	5753	369	19	Drlg.	Hay R. Sh.	Geologist arrived at well site 6:00 p.m. March 21, 1970.

RANGER PETROLEUMS LIMITED

DAILY DRILLING PROGRESS REPORT

K.B. 1634' (Est'd)

Well name and description RANGER et al LITTLE CROWL N-11

1970	DATE	DEPTH	FOOTAGE	HOURS	CURRENT OP	FORMATION	REMARKS
March	23	6204	455	18-1/2	Tripping	Hay R.	Pulling bit #6
						Sh.	
	24	6540	332	13	Drlg.	Slave Pt	Ran in w/bit #7
	25	6730	190	15-1/4	Drlg.	Watt Mtn.	Meas. out; (+ 1.50' diff.) no correction. - Pulled bit #7. Ran in w/bit #8. - 40' fill on btm after trip.
	26	6980	250	22	Cond. mud.	Presquile	Drlg. break (6946 - 6952) (6962 - 6970) Conditioning mud to test
	27	6990	10	1	Tripping	Presquile	
					DST #1	(6860 - 6990)	
					Pre-flow	..5 mins; SI ..... 75 mins;	
					IFP	..... 60 mins; FSI ..... 75 mins;	
					GIP, SAB,	GTS in 6	mins @ 100 MCF/D; decreasing to
					TSTM after	30 mins;	Trace H_2S gas.
					Rec: 270'	GC Mud, 180' WC, GC Mud;	
					1120' blk.	sml. salt water (97,067 ppm [Cl]);	
					IHP 3387	IFP 260	ISIP 2829
					FHP 3298	FFP 811	FSIP 2817
							Pulled bit #8; Running in w/bit #9
	28	7182	192	18	Drlg.	M. Dev.	Ran in with bit #9; Lost approx. 50 bbls. drlg. fluid to fm. over interval 7085 - 7107; Lost circulation material added to drlg. fluid.
	29	7275	93	14-1/4	Drlg.	M. Dev.	Pulled bit #9
							Ran in with bit #10

BANNER PETROLEUMS LIMITED

DAILY DRILLING PROGRESS REPORT

K.B. 1634' (Est'd)

Well name and description BANNER et al LITTLE CROW N-11

1970	DATE	DEPTH	FOOTAGE	HOURS	CURRENT OP	FORMATION	REMARKS
March	30	7375	100	15-1/2	Drlg.	M. Dev.	Pulled bit #10
							Ran in with bit #11
	31	7437	62	13-1/4	Reaming	L. Paleo.	14' of under gauge hole over interval
					under	S.S.	7423 - 7437'.
					gauge		Pulled bit #11.
					hole		Ran in with bit #12.
							Roads impassable.
April	1	7438	1	1/4	Dummy	L. Paleo.	Waiting on Schlumberger.
					trip	S.S.	Dummy trip to cond. hole to log.
							Finished drilling @ 9:30 a.m.,
							March 31, 1970.
	2	7438	-	-	Waiting	L. Paleo.	Waiting on Schlumberger
					on	S.S.	@ 8:00 a.m.
					Schlumberger		
					Bell 204B		Helicopter transported Schlumberger logging
					skid unit		to wellsite in 4 loads. - Last load arrived
					at 6:10 p.m., April 1, 1970.		
					Pulled bit #12 to log.		
					Out of hole @ 9:30 p.m., April 1;		
					both the induction & the sonic panels failed to operate		
					properly.		
					Schlumberger engineer phoned Schlumberger office at		
					Ft. Nelson for induction & sonic panel replacements.		
					Waiting for panel replacements at 8:00 a.m.		
							Measured out (+1.3' diff.)
							No correction made.
							Total Depth 7438' (Driller)
							Total Depth 7437' (Logger)

BANNER PETROLEUMS LIMITED

DAILY DRILLING PROGRESS REPORT

K.B. 1634' (Est'd)

Well name and description: BANNER et al LITTLE GROWL N-11

1970 DATE	DEPTH	FOOTAGE	HOURS	CURRENT OPERATION / FORMATION	REMARKS
April 3	7438	-	-	Cond. hole for DST #2	
				Conditioning hole for DST #2 @ 6:00 a.m.	
				Helicopter arrived @ 10:30 a.m. April 2, with induction panel replacement.	
				Schlumberger logging unit failed to operate properly with induction panel replacement.	
				Schlumberger checked equipment & logging cable for cause of equipment failure. - Located a broken wire beneath logging skid unit @ 2:00 p.m. April 2.	
				Ran induction E-Log (810 - 7434).	
				Sonic panel failed to operate properly.	
				Helicopter returned from Ft. Nelson with sonic panel replacement @ 8:30 p.m. April 2.	
				Ran BHC Sonic Log. (810 - 7434).	
				Finished logging at 12:30 a.m. April 3, 1970.	
				Finished printing sonic logs at 3:30 a.m. April 3.	
				Ran in to condition hole to test.	
					Ran the following logs
					(1) Induction E-Log
					2" - 100' (810' - 7434')
					5" - 100' (6200' - 7434')
					(2) Integrated BHC Sonic Gamma Ray Caliper Log
					2" - 100' (810' - 7434')
					5" - 100' (6200' - 7434')

BANNER PETROLEUMS LIMITED

DAILY DRILLING PROGRESS REPORT

K.B. 1634' (Est'd)

Well name and description BANNER et al LITTLE GROWL N-11

1970 DATE	DEPTH	FOOTAGE	HOURS	CURRENT OP	FORMATION	REMARKS
April 4	7438	-	-			
				DST #2	(7040 - 7110) Presqu'ile	
				Preflow ..... 5 mins; VO ..... 75 mins;		
				ISI ..... 70 mins; FSI ..... 75 mins;		
				GTP. SAB, depleting to 0 in 65 mins;		
				Total Rec. 6250' fluid;		
				450' salt water cut drlg mud;		
				5800' salt water (38,000 ppm cl)		
				IHP 3504; IFP 1338; ISIP 2914;		
				FHP 3389; FFP 2901; FSIP 2903;		
5	7438	-	-	Laying		
				down drill		
				pipe		
				Plug #1	(7150 - 6900) with 140 sacks Oilwell cement	
				plus 2% gel, 15% salt, 0.5% retarder & 1 sack cellophane;		
				(14.4#/gal); displaced with 97 bbls. mud, plug down		
				@ 2:30 p.m., April 4, 1970; felt at 6580' with 800 lbs.		
				Plug #2	(6510 - 6410) with 75 sacks Oilwell cement	
				plus 2% gel, 15% salt, 0.5% retarder, 1 sack cellophane;		
				14.4# gal); displaced with 94 bbls. mud; plug down		
				@ 11:00 p.m., April 4, 1970; plug #2 felt at 6380' with		
				800 lbs.		
6	7438	-	-	-	-	
				Plug #3	(860 - 760) with 100 sacks cement plus 2% gel,	
				15% salt & 3% CaCl2; (15.5#/gal); Plug down @ 12:30 p.m.		
				April 5, 1970.		
						Cut off casing 3' below ground level.
						Welded on steel plate. - Rig
						released at midnight April 5, 1970.

TECHNICAL REPORT

JOHNSTON

Johnston Testers

TEST DATA

Formation: SULPHUR POINT (PRESQUILE)

Interval	6860 To 6990	TD 6990 Ft			
Type of Test	OPEN HOLE, BOTTOM HOLE.				
Time Started Off Bottom	1845 Hrs	Time Opened	2140 Hrs		
First Flow	5 Min	Initial Shut-In	60 Min		
Second Flow	75 Min	Second Shut-In	Min		
Third Flow	Min	Final Shut-In	75 Min		
Pulled Loose @	0115 Hrs	Out of Hole	0650 Hrs		
Wt. Set on Packer	15,000 Lbs	Packer Lower Wt	20,000 Lbs		

Description of Blow During Test

GOOD INITIAL PUFF. GAS TO SURFACE IN 1 MINUTE AFTER INITIAL SHUT-IN.

TOOL SEQUENCE

	Length	O.D.
Sub	.78	
P.C. Sub	1.02	
Sub	.82	
Sub	1.00	
MFE Tool	9.12	
Bypass Tool	3.00	
Jars	6.80	
Safety Joint	1.75	
S.S. & Packer	9.20	7 1/2"
T.C. & Packer	9.35	7 1/2"
Total	34.71	
Stub	1.12	
Perf.	15.00	
Recorder	5.90	
Perf.	3.00	
Recorder	5.90	
Perf.	5.00	
Sub	.97	
Drill Collars	90.63	
Sub	1.04	
B.N. & Perf.	1.50	
Total Interval	130.06	

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No ☒

Total Fluid Recovered 1570 Ft

Description of Fluid Recovered

270' HEAVY, GAS CUT, DRILLING FLUID.
180' WATER CUT, GAS CUT, DRILLING FLUID.
1120' SULPHUROUS, SALT WATER.

GAS FLOW MEASUREMENT

Measured With 1" I.D. Orifice

Type of Instrument IMPACT, WATER GAUGE.

Time	Size Choke	Pressure	Meter Run	M Cubic Feet Day
10 MINS		8.2		99.2

DEPLETING TO T.S.T.M. IN 30 MINUTES.

REMARKS: TEST SATISFACTORY.
INITIAL SHUT-IN STABILIZED.
TOOL WAS CHASED 8 FEET DURING TEST PERIOD.

	RESISTIVITY		CHLORIDE CONTENT
Recovery Water	@ °F	158,000	ppm
Mud Pit sample filtrate	@ °F		ppm

TOTAL LENGTH	168.77
Elevation	1634 KB 1620 GL
Bottom Hole Choke Size	1/2"
Fluid Cushion Type	NIL Amt

MUD AND HOLE DATA

Mud Type	GEL	W	5.5
Filter Cake	2/32	Vis 240	W 9.3
Time Taken	MARCH 26/70 @ 1200 HRS.		
Contractor	REGENT DRLG.	Rig No	3
Drill Pipe Size	4 1/2 XH		
Drill Collar Size	2 7/8 ID	Length	269'
Main Hole Size	8 3/4"		
Rat Hole Size			

District FORT ST. JOHN Ticket No D 04610 Date MARCH 26, 1970 Test No 1 J.T. No. 1

Company BANNER PETROLEUMS LIMITED Address 407 - 8TH AVENUE S.W. CALGARY 2, ALBERTA

Well Name BANNER ET AL LITTLE GROWL N-11

Number 60° 00' 52.5" N 121° 48' 02.8" W Field WILDCAT Province NORTH WEST TERRITORIES

Formation SULPHUR POINT (PRESQUILE) and Interval 6860 - 6990 DST#1 Co. Rep. J. JOHNSTON (CONSULTANT) Technician R. THOMAS

Distribution of Reports

7 - CALGARY, 1 - DATA CENTER (ENCLOSED)

JOHNSTON TESTERS

D 04610

PRESSURE DATA

INSTRUMENT No.		AK1-2107	AK1-1878
CAPACITY (psig)		4500	7300
INSTRUMENT DEPTH FT		5876	5885
INSTRUMENT OPENING		OUTSIDE	OUTSIDE
PRESSURE GRADIENT psi/FT			
WELL TEMP °F	232		
INITIAL HYDROSTATIC	A	3387#	3400#
FIRST FLOW	B	479#	507#
	B1	545#	540#
INITIAL SHUT-IN	C	2829#	2837#
SECOND FLOW	D	200#	205#
	D1	811#	819#
SECOND SHUT-IN	E		
THIRD FLOW	F		
	F1		
FINAL SHUT-IN	G	2817#	2824#
FINAL HYDROSTATIC	H	3298#	3311#

FLUID SAMPLE REPORT

Sample No.
Type
Depth ft.
Volume

Sample Pressure
psig at Surface

Gravity API @ °F
Gas Oil Ratio Cu. Ft./bbl.

Recovery
Cu. Ft. Gas
cc. Oil
cc. Water
cc. Mud
Total Liquid cc.

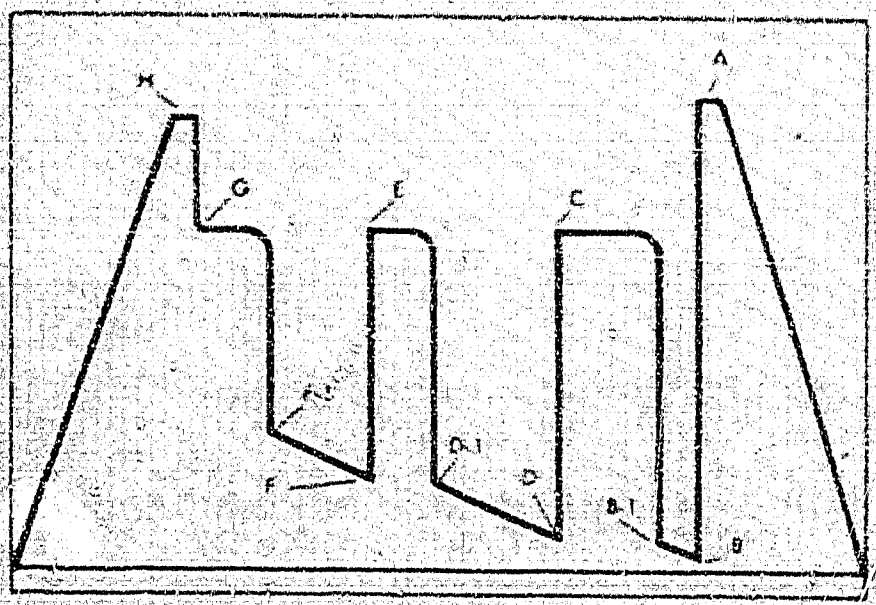
REMARKS

PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$	POINT MINUTES	PRESSURE	$\frac{T + \Delta T}{\Delta T}$

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



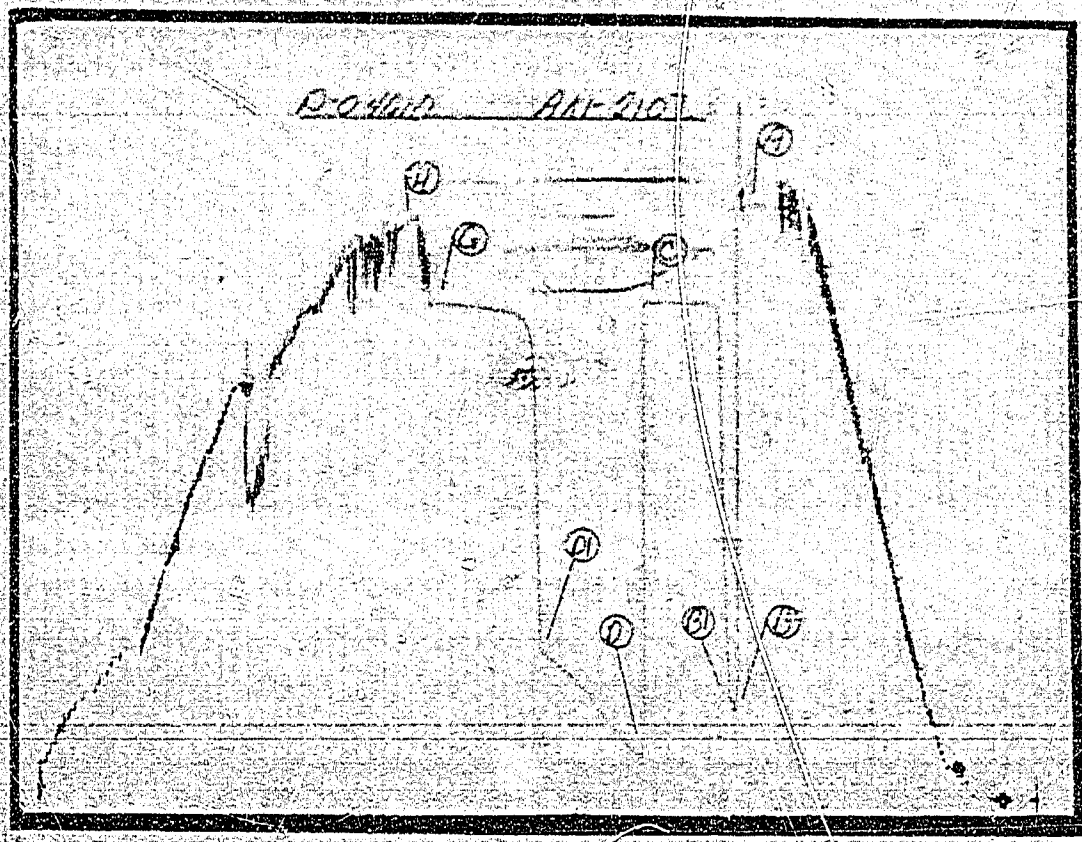
A Initial Hyd. Mud
B First Flow
C Initial Shut-In
D Second Flow
E Second Shut-In
F Third Flow
G Final Shut-In
H Final Hyd. Mud

The following points are either flowing pressures or points indicating other packer settings (testing different zones).

A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E Second Shut-In
F, F-1, F-2, Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown

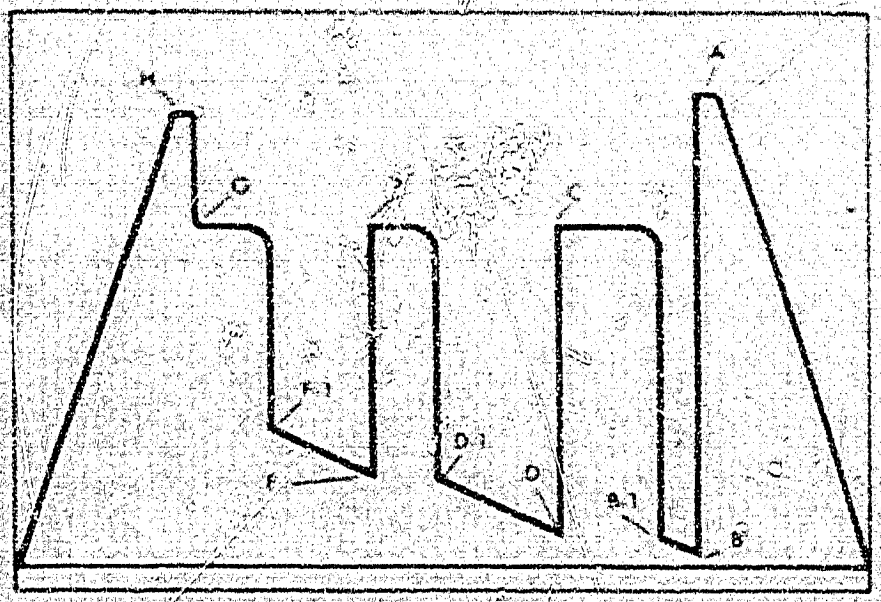
JOHNSTON TESTERS

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D 04610	AK1-2107	4600	8



JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



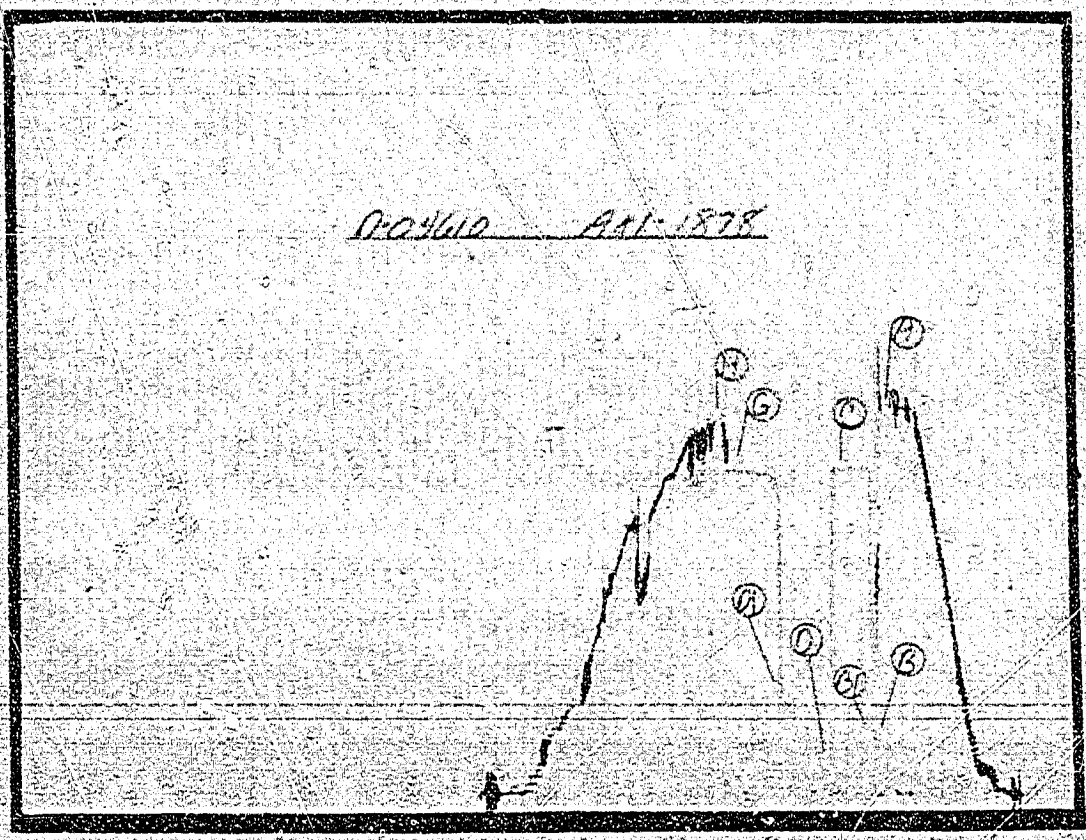
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings (testing different zones).

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B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2, Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.

JOHNSTON TESTERS

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D 04610	AK1-1878	7300	8



CHEMICAL ANALYSIS

FOR

BANNER PETROLEUMS LIMITED

BANNER ET AL LITTLE GROWL N-11
TROUT RIVER AREA
NORTHWEST TERRITORIES

Core Laboratories - Canada Ltd.

CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

Company Banner Petroleums Limited Page 1 of 4

Well Banner et al Little Growl N-11 File CAL-2-1997

Field Trout River Area, N.W.T. Analyst DS

Location 60 00'52.50 N.L. 121 48'02.80 W.L. Elevation: K.B. Grd.

Formation Sulphur Point Pressville Depth 6860' - 6990'

Sampled from DST #1 (1390' Above Tool) by

Sampling pressure psig Sampling temp. °F Ambient temp. °F

Date sampled March 27/70 Date received April 7/70 Date analysed April 17/70

Container pressure Mud Water cushion

Recovery or flowrate:

Chloride	19,897 mg/liter
Resistivity	0.20 Ohm-meters @ 72°F

CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

WATER ANALYSIS

Company Banner Petroleums Limited

Well Banner et al Little [illegible] K-11 K.B. ____ Grd. ____

Location 60 00'52.50 N.L. 121 48'02.80 W.L. Field Trout River Area Province N.W.T.

Formation Sulphur Point Presqu'ile Interval 6860' - 6990'

Sampled from DST #1 (830' Above Tool) by ____

Date sampled March 27/70 Date analysed April 17/70 Analyst DS

Recovery 1571' Fluid

Mud type ____ Water Cushion ____

Resistivity 0.057 Ohm-meters @ 75 °F Total Solids: Calculated 143,044 mg/liter

Specific gravity 1.0982 @ 60°F By evaporation @ 110°C – mg/liter

pH 7.0 H_2S Absent By evaporation @ 180°C – mg/liter

Refractive index 1.360 @ 75°F At Ignition – mg/liter

MILLIGRAMS PER LITER

Na + K	Ca	Mg	Fe	Ba	Br	F	Cl	HCO_3	SO_4	CO_3	OH
43,914	9,941	910	Pres.	Abs.	–	–	87,356	630	253	Nil	Nil

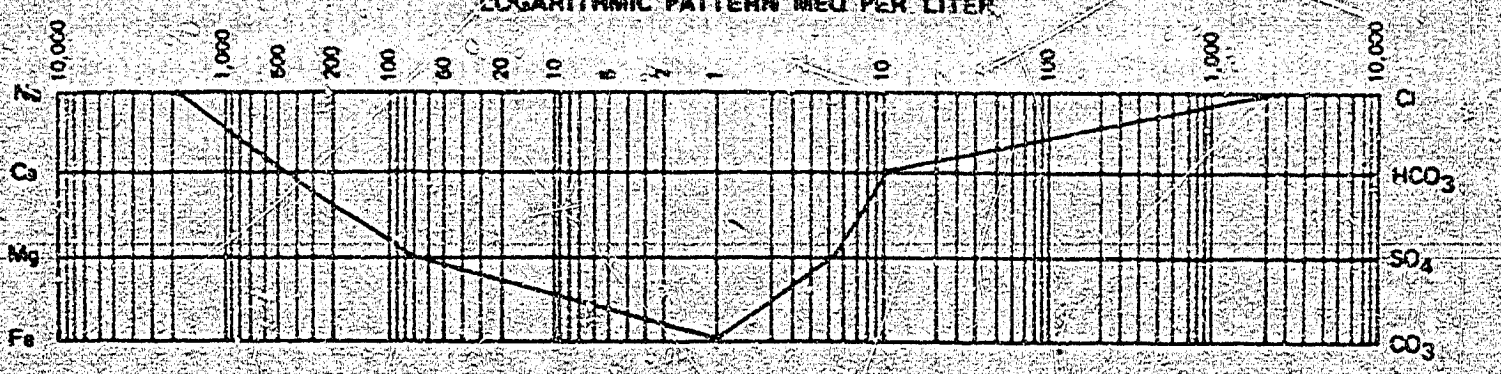
PER CENT CALCULATED SOLIDS

30.7	6.9	0.6	Pres.	Abs.	–	–	61.2	0.4	0.2	Nil	Nil

MEQ PER LITER

1909.3	496.1	74.8	Pres.	Abs.	–	–	2464.6	10.3	5.3	Nil	Nil

LOGARITHMIC PATTERN MEQ PER LITER



CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

WATER ANALYSIS

File CAL-2-1987 Page 3 of 4

Company Banner Petroleums Limited

Well Banner et al Little Grouse M-11 K.B. Grd

Location 60 00'52.50 N.L. 121 48'02.80 W.L. Field Trout River Area Province N.W.T.

Formation Sulphur Point Fregus'le Interval 6860' - 6990'

Sampled from DST #1 (455' Above Tool) by

Date sampled March 27/70 Date analysed April 17/70 Analyst GS

Recovery 1571' Fluid

Mud type Water cushion

Resistivity 0.053 Ohm-meters @ 75 °F

Specific gravity 1.1200 @ 60°F

pH 6.55 H_2S Absent

Refractive Index 1.360 @ 75°F

Total Solids:

Calculated 152,517 mg/liter

By evaporation @ 110°C – mg/liter

By evaporation @ 180°C – mg/liter

At ignition – mg/liter

MILLIGRAMS PER LITER

Na + K	Ca	Mg	Fe	B_2	Br	I	Cl	HCO_3	SO_4	CO_3	OH
76,258	10,879	1,163	Pres.	Abs.	-	-	93,551	512	154	Nil	Nil

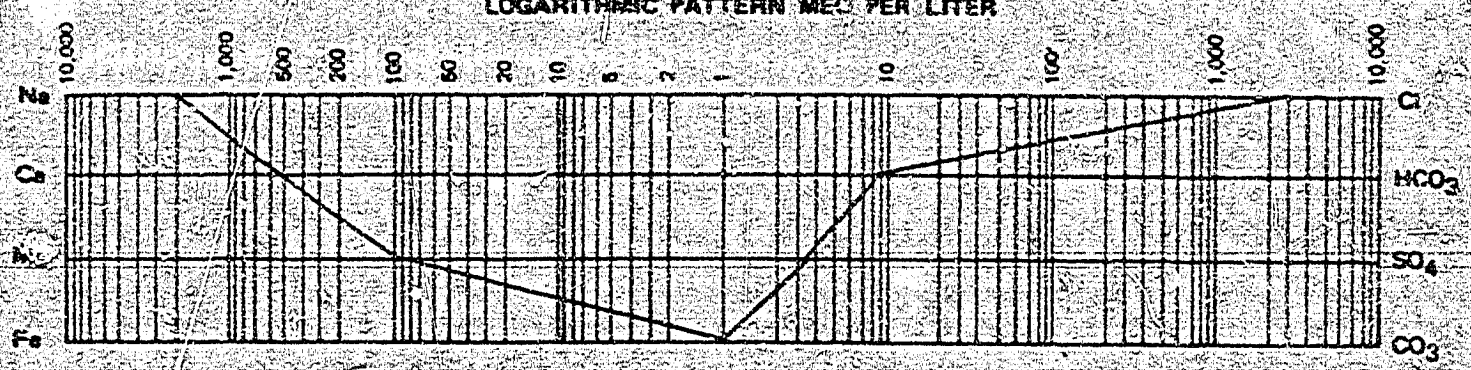
PER CENT CALCULATED SOLIDS

50.0	7.1	0.8	Pres	Abs.	-	-	61.4	0.3	0.1	Nil	Nil

MEQ PER LITER

2011.2	542.9	95.6	Pres	Abs.	-	-	2638.1	8.4	3.2	Nil	Nil

LOGARITHMIC PATTERN MEQ PER LITER



CORE LABORATORIES — CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

WATER ANALYSIS

File CAL-2-1997 Page 4 of 4

Company Banner Petroleums Limited

Well Banner et al Little Crowl N-11 K.B. Grd.

Location 60 00'52.50 N.L. 121 48'02.40 W.L. Field Trout River Area Province N.W.T.

Formation Sulphur Point Presqu'ile Interval 6860' - 6990'

Sampled from DST #1 (180' Above Tool) by

Date sampled March 27/70 Date analyzed April 17/70 Analyst DS

Recovery 1571' Fluid

Mud type Water cushion

Resistivity 0.054 Ohm-meters @ 75 °F

Specific gravity 1.1980 @ 60°F

pH 6.58 H_2S Absent

Refractive Index 1.360 @ 75°F

Total Solids:

Calculated 158,324 mg/liter

By evaporation @ 110°C — mg/liter

By evaporation @ 180°C — mg/liter

At ignition — mg/liter

MILLIGRAMS PER LITER

Na + K	Ca	Mg	Fe	Ba	Br	I	Cl	HCO_3	SO_4	CO_3	OH
48,686	10,942	1,037	Pres.	Abs.	-	-	97,067	361	231	Nil	Nil

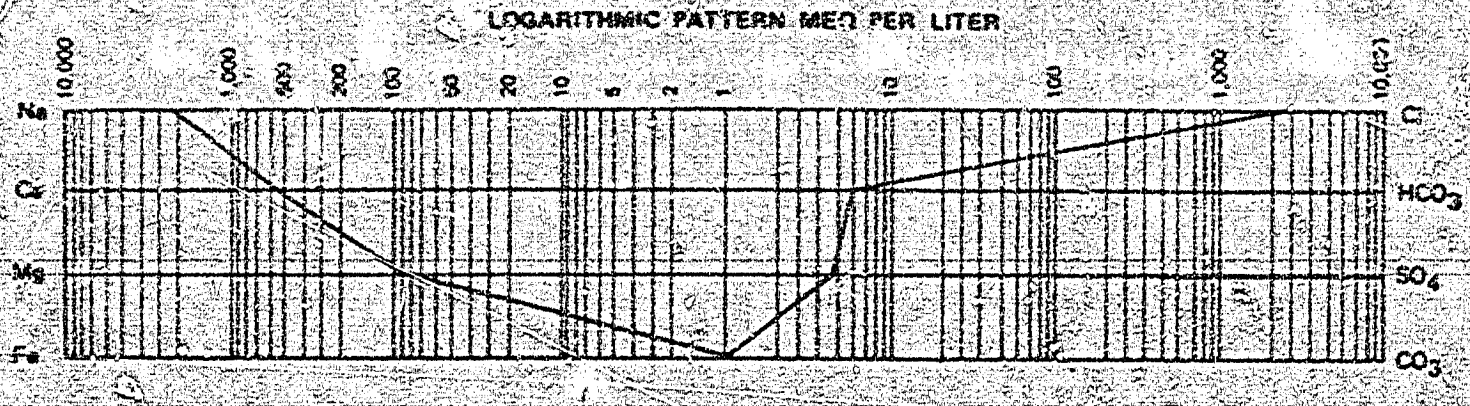
PER CENT CALCULATED SOLIDS

30.8	6.9	0.7	Pres.	Abs.	-	-	61.3	0.2	0.1	Nil	Nil

MEQ PER LITER

2116.8	546.0	85.2	Pres.	Abs.	-	-	2737.3	5.9	4.8	Nil	Nil

LOGARITHMIC PATTERN MEQ PER LITER



CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

WATER ANALYSIS

File CAL-2-2047 Page 1 of 1

Company Banner Petroleums Limited

Well Banner et al Little Crowl N-11 K.B. ____ Grd. ____

Location 60 00'52.50 N.L. 121 48'02.00 W.L. Field Trout River Area Province N.W.T.

Formation Presqu'ile Interval 7040' - 7110'

Sampled from DST #2 (Bottom of the Column) by ____

Date sampled ____ Date analyzed April 26/70 Analyst DS

Recovery 450' Salt Water with Mud, 5800' Salt Water.

Mud type ____ Water cushion ____

Resistivity	0.10	Ohm-meters @ 72 °F	Total Solids: Calculated	78,832	mg/liter
Specific gravity	1.0523	@ 60°F	By evaporation @ 110°C	–	mg/liter
pH	6.9	H_2S Absent	By evaporation @ 180°C	–	mg/liter
Refractive Index	1.350 @ 75°F		At ignition	–	mg/liter

MILLIGRAMS PER LITER

Na + K	Ca	Mg	Fe	Sr	Br	I	Cl	HCO_3	SO_4	CO_3	OH
24,267	5,370	388	*Pres.	Abs.	–	–	46,775	1,449	583	Nil	Nil

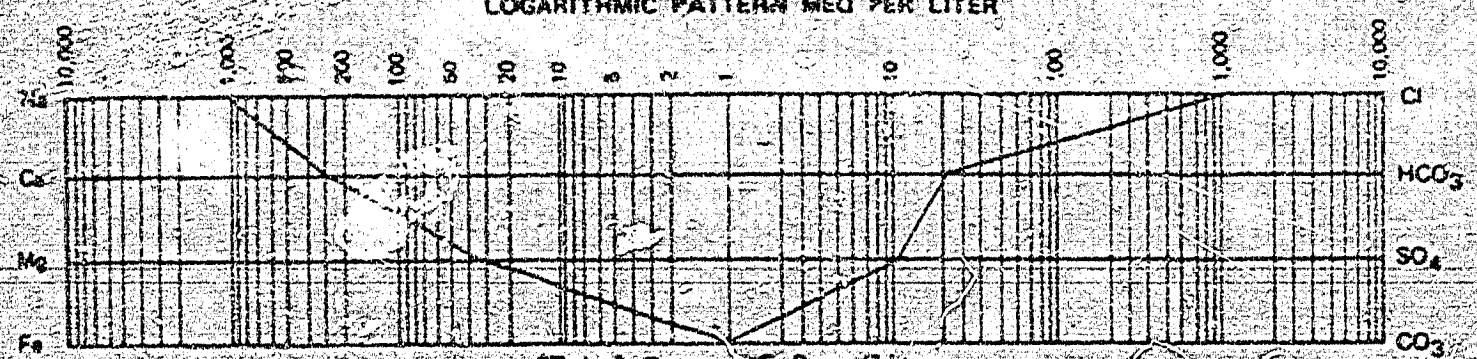
PER CENT CALCULATED SOLIDS

30.8	6.8	0.5	*Pres.	Abs.	–	–	59.4	1.8	0.7	Nil	Nil

MEQ PER LITER

1055.1	268.0	31.9	*Pres.	Abs.	–	–	1319.1	23.8	12.1	Nil	Nil

LOGARITHMIC PATTERN MEQ PER LITER



*Total Iron – 0.8 mg/liter

TECHNICAL REPORT

JOHNSTON

JOHNSTON TESTERS

TEST DATA

Formation	SULPHUR POINT	Ft.	To	Ft.	Zone Tested		
Straddle	7040	Ft.	7119	Ft.	7438	Ft.	
Type of Test	OPEN HOLE, STRADDLE, BYPASS						
Time Started on Location	1500	Hrs.	Tool Opened		2100	Hrs.	
First Flow	5	Min.	Initial Shut-in		30	Min.	
Second Flow	15	Min.	Second Shut-in			Min.	
Third Flow		Min.	Final Shut-in		15	Min.	
Pulled Loose @	0021	Hrs.	Out of Hole		0500	Hrs.	
Wt. Below Packers	31,000	Lbs.	Packed Off @		40,000	Lbs.	

Description of Water Cushion (if any)

2500 LBS. STRAIGHT WT. STRING WAS HELD FOR 30 MINUTES, DRILLING TO BEAD IN 20 MINUTES

TOOL SEQUENCE

		Length	O.D.
Drill Pipe	D.P. Sub	.80	
	D.C. Sub	1.02	
1	M.F. Tool	9.12	
1	Bypass Tool	3.00	
1	Recorder	5.90	
1	Jars	5.80	
	H. Sub	.57	
1	Safety Joint	1.70	
2	S.S. & Packer	9.20	7 1/2"
1	T.C. & Packer	5.25	7 1/2"
	Total	43.76	

FLUID RECOVERY

Total Fluid Recovered 6290

Description of Fluid Recovered

400' SALT WATER CUT, DRILLING FLUID.
5900' BRACKISH, SULPHUROUS, SALT WATER.

		Length	O.D.
Drill Pipe	Drill Pipe	1.12	
	Joint	5.00	
	H. Sub	.85	
	Recorder	5.90	
	Jars	.57	
	Drill Collars	9.75	
	Sub	1.04	
	T.C. & Packer	5.00	
	Total Interval	76.21	

GAS FLOW MEASUREMENT

Measuring Device

Type of Gauge Used

Time	Static Choke	Pressure	Differential	Meter Press.	Flow Rate
		NIL			

		Length	O.D.
Packer	Packer	7.65	
	T.C. & Packer	5.10	7 1/2"
	Perf.	1.00	
	Sub	.78	
	Drill Pipe	708.08	
	Sub	.84	
	B.N. & Perf.	1.50	
	Total Below Int.	320.00	
	Total Length	402.87	

Flow Rate Reported

Bottom Hole Choke Size 1/2"

Time Gauges Run Corrected 30 Days

REMARKS: TEST CATEGORY

SHUT-IN'S STABILIZED.

MUD AND HOLE DATA

Mud Type	GEL			Wt.	9.2
Type Cake	2/32	Sc.	195	Wt.	9.3
Type Gauge	AMOIL & 1970				
Calibrated	RECENT DATE			Rig No.	
Elevation	4 1/2 KB				
Total Depth	7119	Drill Collar Size	7 7/8 I.D.	Length	324'
Main Hole Size	8 3/4"				
Rat Hole Size					

SALINITY

Recovery Water

Mud Pit Sample Filtrate

CHLORIDE CONTENT

138,000

District FORT ST. JOHN Ticket No. 044512 Date APRIL 4, 1970 Test No. 2 Zone No. 2

Company BANNER PETROLEUMS LIMITED Address 407 - 8TH AVENUE S.W. CALGARY 2, ALBERTA

Well Name & No. BANNER ET AL LITTLE SCOTT N-11 Elevation 50° 00' 52.1"N 121° 48' 02.8"W Field or Area WILDCAT Province NORTH WEST TERRITORIES

Formation SULPHUR POINT Recorded By J. JOHNSTON (CONSULTANT)

Zone Interval 7040 - 7112 DST #2 Witnessed By R. THOMAS

Distribution of Reports

7 - CALGARY, 1 - DATA CENTER (ENCLOSED)

JOHNSTON TESTERS

PRESSURE DATA				FLUID SAMPLE REPORT
INSTRUMENT No.	AK1-2107	AK1-1904		Sample No.
CAPACITY (psi)	4000	4000		Type
INSTRUMENT DEPTH (ft)	10311	10319		Pressure
INSTRUMENT OPENING	Inside	Outside		Volume
RECORDING DEPTH (ft)				Sample Pressure
WELL TEMP. (°F)	146			psig @ Surface
INITIAL HYDROSTATIC	A 3460#	3504#		
FIRST FLOW	B 0-1#	122#		Gravity API @ °F
	C 120#	155#		Gas Oil Ratio cu. ft./bbl.
INITIAL SHUT-IN	D 2807#	2914#		
SECOND FLOW	E 111#	1358#		Recovery
	F 2807#	2914#		cu. ft. Gas
SECOND SHUT-IN	G			cc. Oil
THIRD FLOW	H			cc. Water
	I			cc. Mud
FINAL SHUT-IN	J 2807#	2920#		Total Liquid cc.
FINAL HYDROSTATIC	K 3367#	3409#		

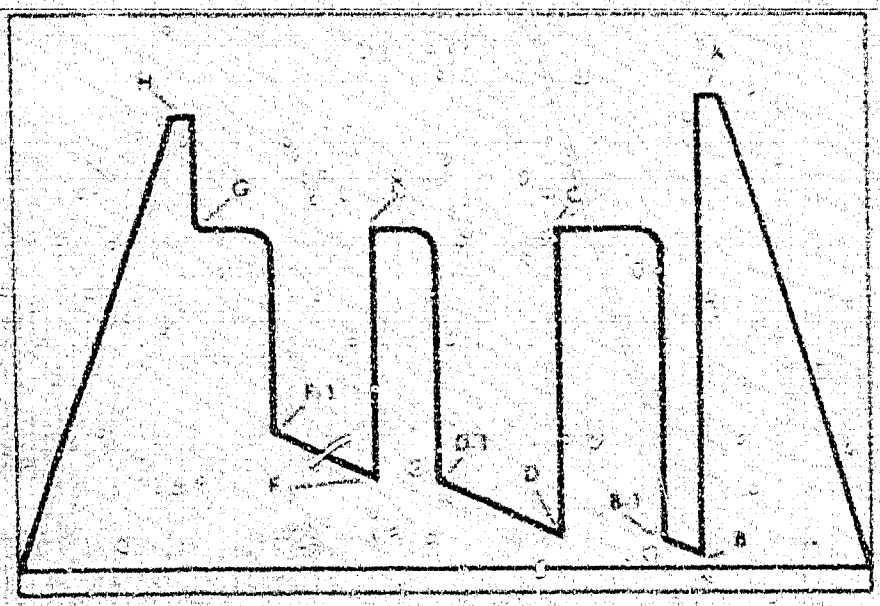
REMARKS

PRESSURE INCREMENTS

POINT MINUTES	PRESSURE	T − t / T	POINT MINUTES	PRESSURE	T − t / T	POINT MINUTES	PRESSURE	T − t / t

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



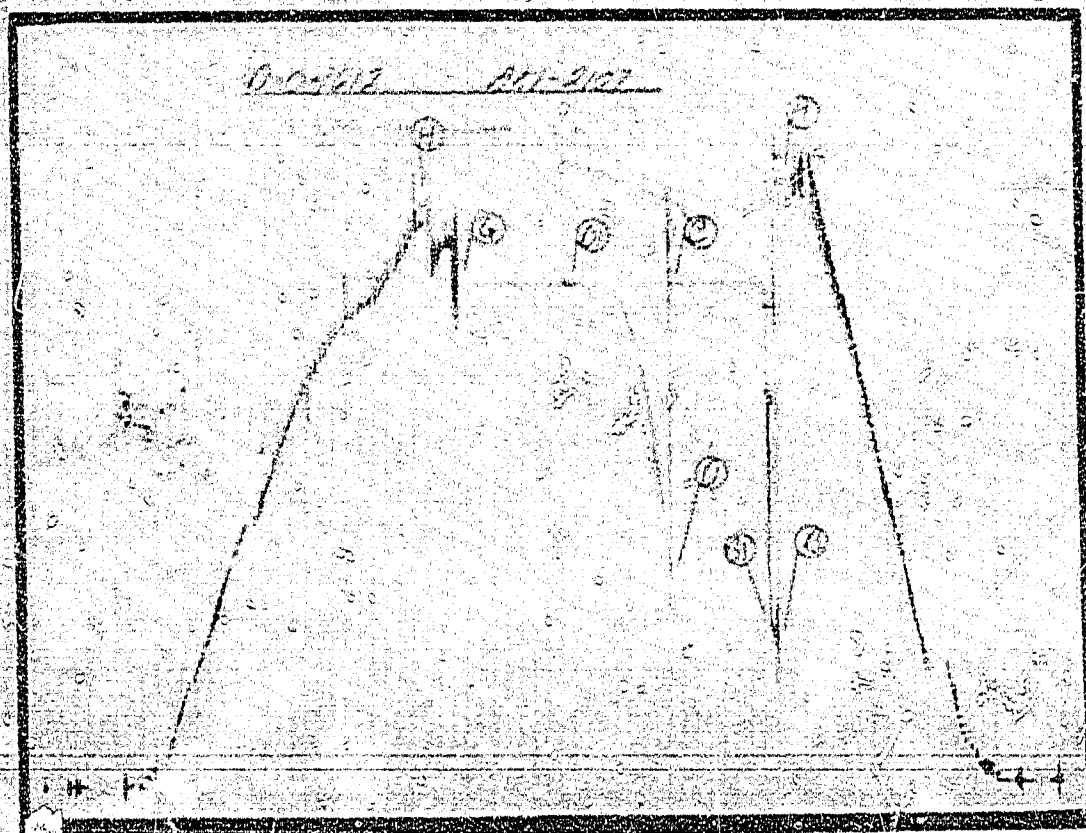
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

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C, Initial Shut-In
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E, Second Shut-In
F, F-1, F-2, Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown

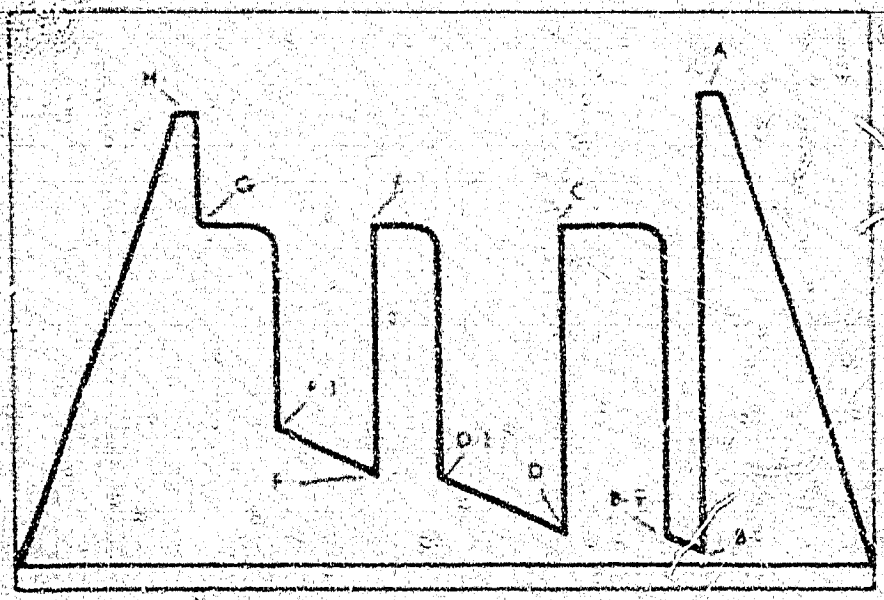
JOHNSTON TESTERS

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D 04412	AK1-2107	4500	8



JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



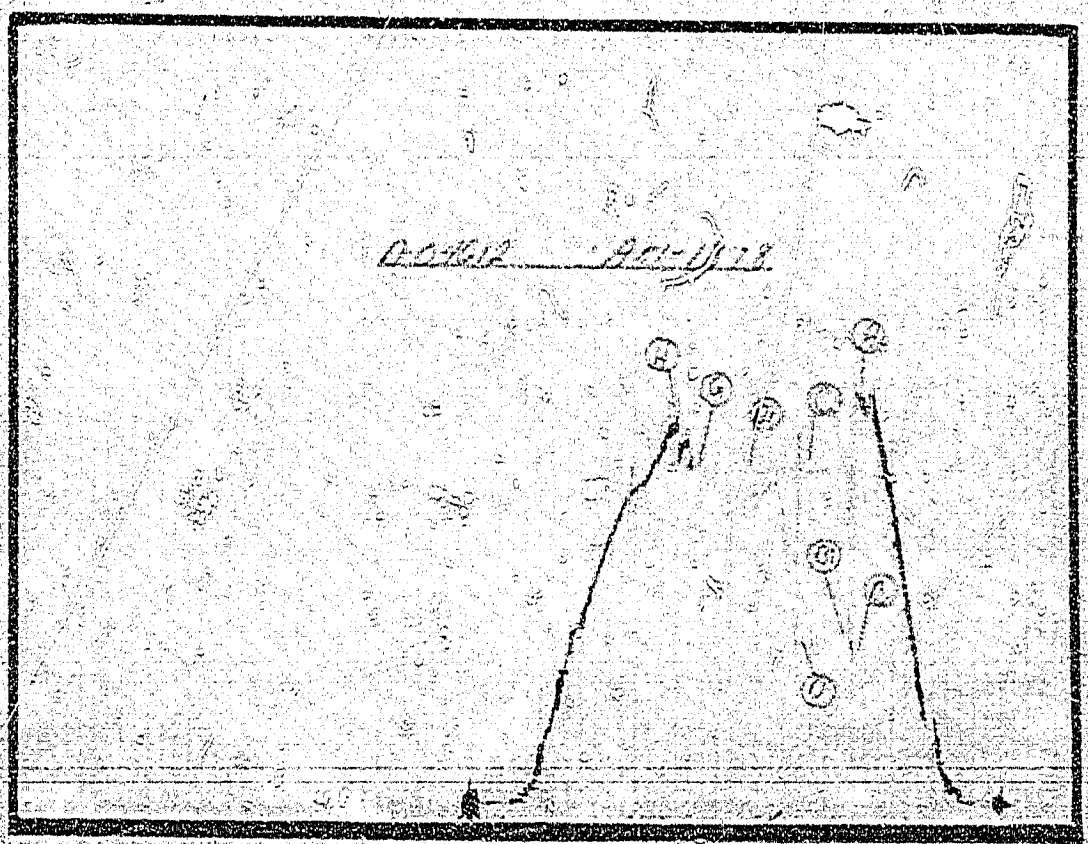
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

The following points are either fluctuating pressures or points indicating other packer settings during different zones.

A-1, A-2, A-3, etc. Initial Hyd. Pressures
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2 Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
I — Special pressure points such as pumping pressures recorded for formation breakdown.

JOHNSTON TESTERS

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
04512	AK1-1578	7900	9



REGENT DRILLING LIMITED

DAY WORK RECORD

DATE April 6/70 — WELL NAME Banner et al Little Grouse — DATE April 6 — REPORT NO. 35

120° 48' W 60° 15' N

RIG NO. 3 — LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1		
NO. 2		

LAST CASING SIZE	LAST CASING SET AT

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.	HOURS
DRILLER Wm. Gustafson	16
DERRICK N. Thomas	8
FLOOR W. Enoch	8
FLOOR D. Nalifiski	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
	TOTAL	FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY					ADDITIVES		
PUMP PRESSURE							
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE					

GENERAL REMARKS

REMARKS	TIME START	TIME STOP	TIME INT. VAL
TEAR OUT RIG + CAMP	12	8	8 hrs

TOUR NO. 2 8 A.M. TO 4 P.M.	HOURS
DRILLER M. Boychuk	12
DERRICK P. Pimfabi	8
FLOOR N. Sewchuk	12
FLOOR H. Smith	12
FLOOR H. Lizotte	12
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
	TOTAL	FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY					ADDITIVES		
PUMP PRESSURE							
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE					

GENERAL REMARKS

REMARKS	TIME START	TIME STOP	TIME INT. VAL
TEAR OUT RIG + CAMP	4	4	12 hrs

TOUR NO. 3 4 P.M. TO MIDNIGHT	HOURS
DRILLER R. Verschoor	8
DERRICK B. Ward	8
FLOOR H. Matke	8
FLOOR B. Verschoor	8
FLOOR E. Brotzel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
	TOTAL	FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY					ADDITIVES		
PUMP PRESSURE							
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE					

GENERAL REMARKS

REMARKS	TIME START	TIME STOP	TIME INT. VAL
TEAR OUT RIG + CAMP	4	4	8 hrs

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

B.O.P.'S TESTED — ELAPSED TIME — PRESSURE — RESULTS — TOTCO FING ON BIT NO.

TOOLPUSHER J. Hilliard

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE April 5 REPORT NO. 34

WELL NAME Banner ET AL Little Growl 120°48'W 60°-15'N

DATE April 3rd RIG NO. #3

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1		
NO. 2		

LAST CASING SIZE	LAST CASING SET AT

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
TOTAL		FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY					ADDITIVES		
PUMP PRESSURE							
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE				PUMP NO. 2 LINER SIZE			

GENERAL REMARKS

Felt Plug #2 @ 6380' @ 8000#

REMARKS	START	STOP	INT VAL
N.D.C.	1200	700	7
Run in Feel Plug #2	700	730	1/2
Pull out lay down drill pipe	730	800	1/2

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER Wm Gustafson	14
DERRICK H. Thomas.	13
FLOOR W. Ewack	8
FLOOR D. Halabishy	8
FLOOR A. Clay	8
FIREMAN	
MECHANIC	
INJURIES	

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER Mitch Boychuk	12
DERRICK P. Comeau	12.
FLOOR N. Shewchuk	12
FLOOR H. Lozotte	12.
FLOOR H. Smith	12.
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
TOTAL		FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY					ADDITIVES		
PUMP PRESSURE							
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE				PUMP NO. 2 LINER SIZE			

GENERAL REMARKS

Plug #3-860' To 760' W/100 SAX DIAMIX C
2% CaCl 15% SALT 3% CALCIUM DISPLACED
W 9 BBLS WATER PLUG DOWN @ 1:30 AM

REMARKS	START	STOP	INT VAL
Lay Down Drill Pipe	8:00	11:00	3
Run Plug #3	11:00	11:30	1/2
C.O.C.	11:30	4:00	2 1/2

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER R. Vanschoor	10
DERRICK B. Wood	10
FLOOR H. Melke	10
FLOOR B. Vanschoor	10
FLOOR E. Brotzel	10
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
TOTAL		FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY					ADDITIVES		
PUMP PRESSURE							
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE				PUMP NO. 2 LINER SIZE			

GENERAL REMARKS

Felt Plug #3 @ 420'
& Hoop WOT.
Rig Released @ 17 P.M.
April 5/70

REMARKS	START	STOP	INT VAL
W.O.C.	4:00	6:00	2
Feel plug #3 & lay down pipe	6:00	7:00	1
Lay down B.C.'s, cut off casing, weld plate & sign post on, 5 sxs cement on surface, measure hole & rat hole	7:00	12:00	5

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

B.O.P.'S TESTED	ELAPSED TIME	PRESSURE	RESULTS	TOTCO RING ON BIT NO.

TOOLPUSHER J. Hibbard

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE April 4th/Bud REPORT NO. 33

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

DATE April 4th/Bud WELL NAME Banner etal Little Gravel 120°-48 W. 60°-15° N.

RIG NO. 3 LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO Emsco	D500	16
NO Oilwell	214P	14

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
						55000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
1	8	67731	46	27316	92.	4-3-70			

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
TOTAL		FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY							
PUMP PRESSURE							
R.P.M. PUMP NO.1							
R.P.M. PUMP NO.2							

PUMP NO. 1 LINER SIZE ____ PUMP NO. 2 LINER SIZE ____

ADDITIVES D.S. 1 ½

GENERAL REMARKS: 15 GALS CORBAN ADDED

REMARKS	START	STOP	INT. VAL
Testing	1200	1245	3/4
Break testing Head & Pull packer loose	1245	115	1/2
Pull out	115	445	3 1/2
Break down Packer	445	615	1 1/2
Load out Packer	615	800	1 3/4

TOUR NO. 1 MIDNIGHT TO 8 A.M. (EACH EMPLOYEE MUST SIGN THIS BOOK)

	HOURS
DRILLER W. Gustafson	8
DERRICK H. Thomas	8
FLOOR W. Ewach	8
FLOOR D. Hallabrisky	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER Mitch Boyabuk	8
DERRICK Paul Comeau	8
FLOOR Nick Shewchuk	8
FLOOR H. Smith	8
FLOOR H. Lizotte	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
TOTAL		FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY							
PUMP PRESSURE							
R.P.M. PUMP NO.1							
R.P.M. PUMP NO.2							

PUMP NO. 1 LINER SIZE ____ PUMP NO. 2 LINER SIZE ____

ADDITIVES RAN PLUG #1 7150-6500 @ 140 SAX OILWELL 2% GEL 15% SALT .05% RETARDER 1 SAX CALOPHANE DISPLACED @ 97 BBLS. MUD PLUG DOWN @ 1:30 P.M.

GENERAL REMARKS

REMARKS	START	STOP	INT. VAL
Pull casing on ground	800	900	1
Run in drill collars & lay down.	900	1100	2
Run in open end	1100	100	2
Circ & water mud down	100	200	1
Run Plug #1	200	230	1/2
W.O.C.	230	400	1 1/2

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER R. Verschoor	8
DERRICK B. Ward	8
FLOOR D. Methe	8
FLOOR B. Verschoor	8
FLOOR E. Brotzel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
TOTAL		FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY							
PUMP PRESSURE							
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							

PUMP NO. 1 LINER SIZE ____ PUMP NO. 2 LINER SIZE ____

ADDITIVES FELT PLUG #1 @ 6885 @ 8000' PLUG #2 6510 TO 6410 @ 75 SAX OILWELL 2% GEL 15% SALT .05% RETARDER 1 SAX CALOPHANE DISPLACED @ 90 BBLS. MUD PLUG DOWN @ 11:30 P.M.

GENERAL REMARKS

REMARKS	START	STOP	INT. VAL
W.O.C.	400	1000	6
Run in Felt Plug #1	1000		
Pull up & Run Plug #2		1130	1 1/2
W.O.C.	1130	1700	1/2

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

B.O.P.'S TESTED ____ ELAPSED TIME ____ PRESSURE ____ RESULTS ____ TOTCO RING ON BIT NO. ____

TOOLPUSHER J. Hallbrand

APPROVED BY ____

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE April 3/70 REPORT NO. 37

WELL NAME BANNER ET AL LITTLE CROW DATE APRIL 3/70

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____ 120°-48'W 60°-15'N

RIG NO. 3

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

	MANUFACTURER	TYPE	STROKE LENGTH
NO. 1	EMSCO	D-500	16
NO. 2	OILWELL	214-P	14

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
		7438				

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
	8	37316	46	37316	92	4-3-70			

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
72	STANDS	6749.59 FT.	RR #12				TO CLEAN TO BTM -											
	SINGLES	FT.																
22	D.C.'S	FT.																
2	SUB X.O.	6.51.33 FT.																
1	SUB BIT	6.52 FT.																
	BIT OR C.B.	3.08 FT.																
		FT.																
	KELLY IN	27.56 FT.																
TOTAL		7438.00																

	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
	WEIGHT							
	VISCOSITY					ADDITIVES		
	PUMP PRESSURE							
	R.P.M. PUMP NO.1							
	R.P.M. PUMP NO.2							

PUMP NO. 1 LINER SIZE 5 1/2 PUMP NO. 2 LINER SIZE 5 1/2

GENERAL REMARKS: SLIP & CUT 46' LINE

REMARKS	START	STOP	INT VAL
LOGGING	12 00	1 30	1 1/2
WAIT ON ORDERS	1 30	6 30	5
RUN IN TO CONDITION HOLE	6 30	8 00	1 1/2

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER M. BOYCHUK	8
DERRICK D. COMEAU	8
FLOOR N. SEWCHUCK	8
FLOOR H. SMITH	8
FLOOR H. LIZOTTE	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
1	8	37539	46	37316	92'	4-3-70			

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
72	STANDS	6749.59 FT.	RR #12	8 3/4			WDT	CLEAN TO BTM										
	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
2	SUB X.O.	6.52 FT.																
1	SUB BIT	3.00 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	27.56 FT.																
TOTAL		7438 - FT.																

	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
	WEIGHT		9.3	9.3		44	2/32	8.5
	VISCOSITY		260	195		ADDITIVES CAUSTIC 100#		
	PUMP PRESSURE		100	1000		PEREX 50#		
	R.P.M. PUMP NO.1		47	48		GEL 400#		
	R.P.M. PUMP NO.2							

PUMP NO. 1 LINER SIZE 5 1/2 PUMP NO. 2 LINER SIZE 5 1/2

GENERAL REMARKS

REMARKS	START	STOP	INT VAL
RUN IN	8 00	9 00	1
RIG SERVICE + BOP CHECK	8 00	9 15	1/4
CIRC + CONDITION MUD	9 15		
+ WAIT ON ORDERS		17 30	3 1/4
PULL OUT	17 30	5 30	5
PICK UP TESTING TOOLS	5 30	4 00	1/2

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER R. Vossekuyl	8
DERRICK B. Ward	8
FLOOR H. Metke	8
FLOOR B. Vossekuyl	8
FLOOR E. Bretzel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
					9 x 2 1/4 x 9 1/4 x 14	30M

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
	8	37539	46	37316	92'	Apr 3/70			

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
74	STANDS	FT.																
2	SINGLES	697.55 FT.																
13	D.C.'S	384.93 FT.																
3	SUBS	9.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Packer	76.00 FT.																
	KELLY IN	FT.																
TOTAL		7438.00 FT.																

	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
	WEIGHT							
	VISCOSITY					ADDITIVES		
	PUMP PRESSURE							
	R.P.M. PUMP NO.1							
	R.P.M. PUMP NO.2							

PUMP NO. 1 LINER SIZE 5 1/2 PUMP NO. 2 LINER SIZE 5 1/2

GENERAL REMARKS

REMARKS	START	STOP	INT VAL
Rig serviced & B.O.P. check	4:00	4:15	1/4
Make up packer	4:15	6:30	2 1/4
Run in packer	6:30	8:30	2
Head up to test	8:30	9:00	1/2
Test	9:00	12:00	3

DRILL PIPE SIZE 4 1/2	TYPE X.H	TOTAL NO. OF JOINTS 261	DATE LAST SONOSCOPED Dec/68
B.O.P.'S TESTED April 3/70		ELAPSED TIME 02 C	PRESSURE Nil

FOOTAGE DRILLED SINCE LAST SONOSCOPED 38064

TOTAL FOOTAGE DRILLED

RESULTS O.K.

LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

TOTCO RING ON BIT NO.

TOOLPUSHER J. Ward

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE APRIL 7/70 REPORT NO. 31

WELL NAME BAUER ET AL LITTHR GROWL 120°-48'W 60°-15'W

LOCATION LSD. SEC. TWP. RGE.

DATE APRIL 7/70 RIG NO. 3

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

	MANUFACTURER	TYPE	STROKE LENGTH
NO. 1	EMSCO	D500	16
NO. 2	OILWELL	214-P	14

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
		7438				

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
1	8	37316	46	36734	138	3-28-70			

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

		HOURS
DRILLER	W. GUSTAFSON	8
DERRICK	H. THOMAS	8
FLOOR	W. EWASIW	8
FLOOR	D. HALLIBISKI	8
FLOOR	A. DAY	8
FIREMAN		
MECHANIC		
INJURIES		

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
	TOTAL	FT.																

LOGGING

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS
WEIGHT								
VISCOSITY					ADDITIVES			
PUMP PRESSURE								
R.P.M. PUMP NO.1								
R.P.M. PUMP NO.2								
PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE						

REMARKS	TIME START	TIME STOP	TIME INT VAL
LOGGING	12 MID	8 AM	8

TOUR NO. 2 8 A.M. TO 4 P.M.

		HOURS
DRILLER	M. BOYCHUK	8
DERRICK	P. POMEAU	8
FLOOR	N. SENCHUCK	8
FLOOR	H. SMITH	8
FLOOR	H. LIZOTTE	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
		7438				

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
R	37316	46	36734	138	3-28-70				

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
	TOTAL	FT.																

LOGGING

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS
WEIGHT								
VISCOSITY					ADDITIVES			
PUMP PRESSURE								
R.P.M. PUMP NO.1								
R.P.M. PUMP NO.2								
PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE						

REMARKS	TIME START	TIME STOP	TIME INT VAL
LOGGING	8 AM	4 PM	8

TOUR NO. 3 4 P.M. TO MIDNIGHT

		HOURS
DRILLER	R. VERSCHOOR	8
DERRICK	B. WARD	8
FLOOR	H. METKE	8
FLOOR	B. VERSCHOOR	8
FLOOR	E. BROTZL	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
		7438				

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
	8	37316	46	36734	138	3-28-70			

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
72	STANDS	6749.59																
	SINGLES	FT.																
22	D.C.'S	651.33																
2	SUB K.D.	6.52 FT.																
1	SUB BIT	3.00 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	27.56 FT.																
	TOTAL	7438.00																

LOGGING

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS
WEIGHT								
VISCOSITY					ADDITIVES			
PUMP PRESSURE								
R.P.M. PUMP NO.1								
R.P.M. PUMP NO.2								
PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE						

REMARKS	TIME START	TIME STOP	TIME INT VAL
LOGGING	4 PM	12 MID	8

DRILL PIPE SIZE	4 1/2	TYPE	X.H
B.O.P.'S TESTED			
TOTAL NO. OF JOINTS	761	DATE LAST SONOSCOPED	
ELAPSED TIME		FOOTAGE DRILLED SINCE LAST SONOSCOPED	
PRESSURE		TOTAL FOOTAGE DRILLED	
		RESULTS	
		LAST CALIPER DATE	
		RESULTS	
		CODE LETTER OF STRING	
		TOT.CO RING ON BIT NO.	

TOOLPUSHER J. Halliburd

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE APRIL 1/70 REPORT NO. 30

WELL NAME BANNER ETAL LITTLE BOW 120°-48'W 60° 15'N

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

DATE APRIL 1/70

RIG NO. 3

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 EMSCO	D-500	16
NO. 2 OILWELL	214-P	14

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
		7438		155	4-6 3/4 / 18-6 1/4	55 FT

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
8	37126	46	36739	138	3-28-70				

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
72	STANDS	6749.59	12	8 3/4	3-13	VE407	WOT	CIRC										
	SINGLES	FT.																
22	D.C.'S	651.33																
2	SUB XO	6.57 FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH								
1	SUB BIT	3.00 FT.	WEIGHT	9.3	9.3	9.3	9.3	5.8	2/32	11								
	BIT OR C.B.	FT.	VISCOSITY	710	708	710	705											
		FT.	PUMP PRESSURE	800	800	800	800											
	KELLY IN	27.56 FT.	R.P.M. PUMP NO.1	50	50	50	50											
			R.P.M. PUMP NO.2															

TOTAL 7438 — FT. PUMP NO. 1 LINER SIZE 5 1/2 PUMP NO. 2 LINER SIZE 5 1/2

GENERAL REMARKS

REMARKS	START	STOP	INTERVAL
CIRC + WAIT ON	1700		
LOGGING EQUIPMENT		700	7
PULL OUT 70 STDS.	700	800	1

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER N. BOSTAFSAW	8
DERRICK H. THOMAS	8
FLOOR W. EWACH	8
FLOOR D. HALLIBISKI	8
FLOOR A. DAY	8
FIREMAN	
MECHANIC	
INJURIES	

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER M. BOYCHUK	8
DERRICK P. COMEAU	8
FLOOR N. SEWCHUK	10
FLOOR H. SMITH	8
FLOOR H. LIZZOTTE	10
FIREMAN	
MECHANIC	
INJURIES STAYED OVER TO PUT UP PREFABS AROUND LOGGING UNIT	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
7438	—			155	4-6 3/4 / 18-6 1/4	55M

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
8	37140	46	36739	138	3-28-70				

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
72	STANDS	6749.59	12	8 3/4	3-13	VE407	WOT	CIRC										
	SINGLES	FT.																
22	D.C.'S	651.33																
2	SUB XO	6.57 FT.	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH								
1	SUB BIT	3.00 FT.	WEIGHT	9.3	9.3	9.3	9.3	5.2	2/32	11.0								
	BIT OR C.B.	FT.	VISCOSITY	~~800~~	810	705	710											
		FT.	PUMP PRESSURE	800	800	800	800											
	KELLY IN	27.56 FT.	R.P.M. PUMP NO.1	50	50	50	50											
			R.P.M. PUMP NO.2															

TOTAL 7438 — FT. PUMP NO. 1 LINER SIZE 5 1/2 PUMP NO. 2 LINER SIZE 5 1/2

GENERAL REMARKS CIRC — 1000 FT

REMARKS	START	STOP	INTERVAL
RUN IN 70 STDS (DUMMY TRIP)	800	930	1 1/2
CIRC + WAIT ON LOGGING EQUIPMENT	930	400	6 1/2

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER R. VERSCHOOR	8
DERRICK B. WARD	8
FLOOR H. METKE	8
FLOOR B. VERSCHOOR	8
FLOOR E. BROTZKE	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
		7438		155	4-6 3/4 / 18-6 1/4	55M

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
1	8								

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
72	STANDS	6749.59	12	8 3/4	3-13	VE407	WOT	CIRC										
	SINGLES	FT.																
22	D.C.'S	651.33																
2	SUB XO	6.57 FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH								
1	SUB BIT	3.00 FT.	WEIGHT	9.3	9.3													
	BIT OR C.B.	FT.	VISCOSITY	190	205													
		FT.	PUMP PRESSURE	800	800													
	KELLY IN	27.56 FT.	R.P.M. PUMP NO.1	50	50													
			R.P.M. PUMP NO.2															

TOTAL 7438.00 FT. PUMP NO. 1 LINER SIZE 5 1/2 PUMP NO. 2 LINER SIZE 5 1/2

GENERAL REMARKS

S.L.M. - 7439.30
BOARD - 7438.00
DIFF = 1.30
NO CORRECTION

ADDITIVES CMC - 800 LB

REMARKS	START	STOP	INTERVAL
CIRC + WAIT ON	400		
LOGGING EQUIPMENT		630	7 1/2
PULL OUT (MEASURE)	630	930	3
RIG TO LOG	930	1000	1/2
LOG	1000	1700	7

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPE	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING
4 1/2	X-H	261	DEC/68	8064				

B.O.P.'S TESTED ALL ELAPSED TIME NIL PRESSURE NIL RESULTS GOOD TOTCO RING ON BIT NO. 12

TOOLPUSHER J. Hilliard

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE MARCH 31/70 REPORT NO. 29

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

DATE MARCH 31/70 WELL NAME BANNER FT AL LITTLE ROCK 120°-48'W 60°-15'N

RIG NO. 3 LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 EMSCO	D-500	16
NO. 2 OILWELL	714-P	14

LAST CASING SIZE 10 3/4 — LAST CASING SET AT 810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
		7437	—	155	4-6 3/4 18-6 1/4	55M	1	8	37126	46	36734	138	3-28-70			

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M. — HOURS

DRILLER	W. GUSTAFSON	8
DERRICK	H. THOMAS	8
FLOOR	W. FWACH	8
FLOOR	D. HALVORSEN	8
FLOOR	A. DAY	8
FIREMAN		
MECHANIC		
INJURIES		

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
72	STANDS	6749.59	12	8 3/4	3-13	VE402	W07	2	80	REAM	UNDER GAGE	HOLE	14'					
	SINGLES	FT.																
22	D.C.'S	651.35																
2	SUB X.O	6.52 FT.																
1	SUB BIT	3.00 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	26.36 FT.																

TOTAL 7437 — FT.

	12 MID.	2 A.M.	4 A.M.	6 P.M.
MUD WEIGHT				9.3
VISCOSITY		TR		180
PUMP PRESSURE				1200
R.P.M. PUMP NO. 1				60
R.P.M. PUMP NO. 2				

WATER LOSS 5.0 — FILTER CAKE 2/32 — PH 11.0 — ADDITIVES WATER

PUMP NO. 1 LINER SIZE 5 1/2 — PUMP NO. 2 LINER SIZE 5 1/2

GENERAL REMARKS

REMARKS	TIME START	TIME STOP	TIME INT VAL
PULL OUT	12:00	2:30	2 1/2
RIG SERVICE + BOP CHECK	2:30	3:00	1/2
RUN IN BREAKING CIRC	3:00		
10 STDS OFF BTM.		5:15	2 1/4
BREAK CIRC + REAM	5'F		
OUT OF GAGE HOLE		8:00	2 3/4

TOUR NO. 2 8 A.M. TO 4 P.M. — HOURS

DRILLER	M. BOYCHUK	8
DERRICK	P. OMEAD	8
FLOOR	W. SEWCHUCK	8
FLOOR	H. SMITH	8
FLOOR	H. LIZOTTE	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
7437	1	7438	1/4	155	4-6 3/4 18-6 1/4	55M		8	37126	46	36739	138	3-28-70			

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
72	STANDS	6749.59	12	8 3/4	3-13	VE402	W07	2	80	REAM								
	SINGLES	FT.						40	55	7437	7438	1	1/4				4-4-0	
22	D.C.'S	651.35																
2	SUB X0	6.52 FT.																
1	SUB BIT	3.00 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	26.56 FT.																

TOTAL 7438 — FT.

	8 A.M.	10 A.M.	12 NOON	2 P.M.
MUD WEIGHT	9.3	9.3	9.3	9.3
VISCOSITY	190	195	205	210
PUMP PRESSURE	900	900	900	900
R.P.M. PUMP NO. 1	54	54	54	54
R.P.M. PUMP NO. 2				

WATER LOSS 5.0 — FILTER CAKE 2/32 — PH 11 — ADDITIVES

PUMP NO. 1 LINER SIZE 5 1/2" — PUMP NO. 2 LINER SIZE 5 1/2"

GENERAL REMARKS

REMARKS	TIME START	TIME STOP	TIME INT VAL
REAM	8:00	9:30	1 1/2
DRILL	9:30	9:45	1/4
CIRC TO LOG	9:45	4:00	6 1/4

TOUR NO. 3 4 P.M. TO MIDNIGHT — HOURS

DRILLER	R. VERSCHOOR	8
DERRICK	B. WARD	8
FLOOR	H. METKE	8
FLOOR	B. VERSCHOOR	8
FLOOR	E. BROTZL	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
		7437		155	4-6 3/4 18-6 1/4	55M		8	37126	46	36739	138	3-28-70			

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
72	STANDS	6749.59	12	8 3/4	3-13	VE402	W07		CIRC									
	SINGLES	FT.																
22	D.C.'S	651.35																
2	SUB X.O	6.52 FT.																
1	SUB BIT	3.00 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	17.56 FT.																

TOTAL 7438 — FT.

	4 P.M.	6 P.M.	8 P.M.	10 P.M.
MUD WEIGHT	9.3	9.3	9.3	9.3
VISCOSITY	190	205	208	210
PUMP PRESSURE	800	800	800	800
R.P.M. PUMP NO. 1	50	50	50	50
R.P.M. PUMP NO. 2				

WATER LOSS 5.7 — FILTER CAKE 2/32 — PH 11 — ADDITIVES

PUMP NO. 1 LINER SIZE 5 1/2 — PUMP NO. 2 LINER SIZE 5 1/2

GENERAL REMARKS

REMARKS	TIME START	TIME STOP	TIME INT VAL
CIRC + WAIT ON LOG	4:00		
TNIT		12:00	8 hrs
	1		

DRILL PIPE SIZE 4 1/2 — TYPE X-H — TOTAL NO. OF JOINTS 261 — DATE LAST SONOSCOPED — FOOTAGE DRILLED SINCE LAST SONOSCOPED — TOTAL FOOTAGE DRILLED — LAST CALIPER DATE — RESULTS — CODE LETTER OF STRING

B.O.P.'S TESTED ALL — ELAPSED TIME 1/2 — PRESSURE NIL — RESULTS GOOD — TOTCO RING ON BIT NO. 17

TOOLPUSHER J. Hilliard

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE MARCH 30/70 REPORT NO. 28

WELL NAME BANNER ET AL LITTLE GROWC — 121°-48'W — 60°-15'N

DATE MARCH 30/70

RIG NO. 3

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

	MANUFACTURER	TYPE	STROKE LENGTH
NO. 1	EMSCO	D-500	16
NO. 2	OILWELL	214-P	14

LAST CASING SIZE: 10 3/4 — LAST CASING SET AT: 810

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

		HOURS
DRILLER	W. GUSTAFSON	8
DERRICK	H. THOMAS	8
FLOOR	W. EWACH	8
FLOOR	D. HALLIBISKI	8
FLOOR	A. DAY	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
7369	6	7375	1	155	4-6 3/4 18-6 1/4	55M	1	8	36922	46	36734	3-28-70	138

AT	SURVEYS	DEGREES
7375		1 1/4°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
21	STANDS	FT.	11	8 3/4	3-13	863434	SCM-5	40	35	7369	7375	6	1					DR16.
1	SINGLES	66.86.18 FT.																
22	D.C.'S	651.33 FT.																
2	SUB X.O	6.52 FT.																
1	SUB	3.00 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	27.97 FT.																
TOTAL	7375.00 FT.																	

	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
	WEIGHT	9.3						
	VISCOSITY	150						
	PUMP PRESSURE	1000						
	R.P.M. PUMP NO. 1	50						
	R.P.M. PUMP NO. 2							
	PUMP NO. 1 LINER SIZE	5 1/2	PUMP NO. 2 LINER SIZE	5 1/2				

ADDITIVES: CMC - 50#, GEL - 1600#

GENERAL REMARKS: TR, TP

REMARKS	START	STOP	INT VAL
CIRC + CONDITION MUD	17⁰⁰	1⁰⁰	1
DROP SURVEY	1⁰⁰	1¹⁵	1/4
PULL OUT	1¹⁵	4¹⁵	3
RIG SERVICE + BOP CHECK	4¹⁵	4³⁰	1/4
REPAIR FOOT THROTTEL	4³⁰	4⁴⁵	1/4
RUN IN + BREAK CIRC 10 STDS	4⁴⁵		
OFF BTM.			6¼ 2
BREAK CIRC	6⁴⁵	7⁰⁰	1/4
DRILL	7⁰⁰	8⁰⁰	1

TOUR NO. 2 8 A.M. TO 4 P.M.

		HOURS
DRILLER	M. BOYCHUK	8
DERRICK	P. COMEAU	8
FLOOR	N. SEWCHUCK	8
FLOOR	H. SMITH	8
FLOOR	N. NIZOTTE	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
7375	40	7415	8	155	4 x 6 3/4 6 x 6 1/4	55M	8		36922	46	36734	3-28-70	

AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
21	STANDS	FT.	11	8 3/4	3-13	863434	SCM-5	40	46	7369	7415	46	9					DR16
2	SINGLES	67.17.90 FT.																
22	D.C.'S	651.33 FT.																
2	SUB X.O	6.52 FT.																
1	SUB B.T	3.00 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	36.25 FT.																
TOTAL	7415.00 FT.																	

	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
	WEIGHT	9.3	9.3	9.3	9.3	6.0	2/32	11.0
	VISCOSITY	187	160	145	130			
	PUMP PRESSURE	1050	1050	1050	1050			
	R.P.M. PUMP NO. 1	55	55	55	55			
	R.P.M. PUMP NO. 2							
	PUMP NO. 1 LINER SIZE	5 1/2	PUMP NO. 2 LINER SIZE	5 1/2				

ADDITIVES: CYPAN - 50#, CAUSTIC - 50#, PRLTRX - 100#, NO-STIK - 2 GAL, DIESEL - 15 GAL

GENERAL REMARKS:

REMARKS	START	STOP	INT VAL
DRILL	8⁰⁰	4⁰⁰	8 hrs

TOUR NO. 3 4 P.M. TO MIDNIGHT

		HOURS
DRILLER	P. VERSCHOOR	8
DERRICK	B. WARD	8
FLOOR	H. METKE	8
FLOOR	B. VERSCHOOR	8
FLOOR	E. BROTZL	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
7415	22	7437	5 1/4	155	2 x 6 3/4 18 x 6 1/4	55M	8		36922	46	36734	138	5-28-70

AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
17	STANDS	6749.59 FT.	11	8 3/4	3-13	863434	SCM-5	40	45	7369	7437	68	14 1/4			8-8-0		1/RIG.
	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
2	SUB X.O	6.52 FT.																
1	SUB BIT	3.00 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	26.56 FT.																
TOTAL	7437.00 FT.																	

	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
	WEIGHT	9.3	9.3	9.3	9.3	5.0	2/32	11.0
	VISCOSITY	140	128	105	130			
	PUMP PRESSURE	1050	1050	1050	1050			
	R.P.M. PUMP NO. 1	55	55	55	55			
	R.P.M. PUMP NO. 2							
	PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE					

ADDITIVES: GEL - 1100#, CAUSTIC - 50#, PRLTRX - 100#, CYPAN - 50#

GENERAL REMARKS:

REMARKS	START	STOP	INT VAL
RIG SERVICE + BOP CHECK	4¹⁵	4¹⁵	1/4
DRILL	4¹⁵	9³⁰	5 1/4
CIRC. TO RAISE VIS.	9³²		
PRIOR TO TRIP		13⁴⁵	7 1/2

DRILL PIPE SIZE 4 1/2 — TYPE X-H

B.O.P.'S TESTED TODAY - ALL

TOTAL NO. OF JOINTS 261 — DATE LAST SONOSCOPED DEC 68 — FOOTAGE DRILLED SINCE LAST SONOSCOPE 3063 — TOTAL FOOTAGE DRILLED

ELAPSED TIME 1/2 — PRESSURE NIL — RESULTS GOOD

LAST CALIPER DATE — RESULTS — CODE LETTER OF STRING

TOT. CO RING ON BIT NO. 11

TOOLPUSHER J. Hallard

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 29th WELL NAME Banner et al Little Howe 1210-48°ii - 60-15 DATE March 29th REPORT NO. 22

RIG NO. 3 LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. Emsco	D500	16
NO. Oilwell	214P	14

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF B.C.'S	D.C. WEIGHT
7228	47	7275	7	155,000	2 of 6 3/4 18 x 6 1/4	55,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
	8	36734	46	36734	138	Mar 28	7220	1°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
70	STANDS	FT.	10	8 3/4	2-12 1-13	855744	SHG	55	55	7225	7275	50	7 1/2					Orig.
1	SINGLES	6592.50 FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
1	SUB 6 1/2	3.00 FT.																
	BIT OR C.B.	FT.																
	KELLY IN	21.00 FT.																
TOTAL		7275.35 FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	92	92	9.2	92	6 cc	2/32	11.
VISCOSITY	140	115	145	130	ADDITIVES CAUSTIC-50#		
PUMP PRESSURE	1360	1380	1360	1300	PELTEX-100#		
R.P.M. PUMP NO.1	60	60	60	60	CYPAN-50#		
R.P.M. PUMP NO.2		ON	MIXER		GEL-14 sacks		
PUMP NO. 1 LINER SIZE	5 1/2		PUMP NO. 2 LINER SIZE	5 1/2			

GENERAL REMARKS

Fuel Top Tank 5'-3"

Bottom Tank 3'

TIME START	TIME STOP	INT VAL	REMARKS
1200	1230	1/2	Drilling
1230			Work on Air lines
	100	1/2	to Pump drive & weld on mud line. See Rig
100	230	1 1/2	Drilling
230	245	1/4	Weld on Mud line
245	500	2 1/4	Drilling
500	515	1/4	Weld on Mud line
515	600	23/4	Drilling

TOUR NO. 1 MIDNIGHT TO 8 A.M. — EACH EMPLOYEE MUST SIGN THIS BOOK

	HOURS
DRILLER W. Gustafson	8
DERRICK A. Thomas	8
FLOOR W. Ewack	8
FLOOR D. Halabitsky	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER Mitch Boychuk	8
DERRICK Comeau	8
FLOOR N. Shewchuk	8
FLOOR H. Smith	8
FLOOR H. Lizotte	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF B.C.'S	D.C. WEIGHT
7275	51	7326	7 3/4	155 m	4 of 6 1/2 4 1/8 x 6 1/4	55 m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
	8	36734	46	36734	138	Mar 28		

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
71	STANDS	6655.57 FT.	10	8 3/4	2-12 1-13	855744	SHG	55	55	7225	7326	101	15 1/4					
	SINGLES	FT.																
22	D.C.'S	651.33																
2	SUB	6.52 FT.																
1	SUB	3.00 FT.																
	BIT OR C.B.	FT.																
	KELLY IN	7.58 FT.																
TOTAL		7326.00 FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.2	9.2	9.25	9.3	6.4	2/32	11.0
VISCOSITY	125	115	150	150	ADDITIVES GEL 600#		
PUMP PRESSURE	375	1050	1075	1050	CAUSTIC 50#		
R.P.M. PUMP NO.1	60	51	51	61	PELTEX 100#		
R.P.M. PUMP NO.2					CYPAN 50#		
PUMP NO. 1 LINER SIZE	5 1/2"		PUMP NO. 2 LINER SIZE	5 1/2"	NOSTIK Dril. Diesel Fuel.		

GENERAL REMARKS

REMARKS	START	STOP	INT VAL
Drill	800	950	1 1/2
Rig Ser.	950	945	1/4
Drill	945	1400	6 1/2

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER R. Deschner	8
DERRICK B. Ward	8
FLOOR H. Methe	8
FLOOR B. Deschner	8
FLOOR E. BRETZEL	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF B.C.'S	D.C. WEIGHT
7326	43	7369	6 3/4	155 m	4 x 6 3/4 18 x 6 1/4	55 m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
	8	36734	46	36734	138	Mar 28	7226	1

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
71	STANDS	FT.	10	8 3/4	2-12 1x16	855744	SHG	55m	55	7225	7369	144	22 22 3/4					
1	SINGLES	6686.18 FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
1	BIT SUB	3.00 FT.																
	BIT OR C.B.	FT.																
	KELLY IN	21.97 FT.																
TOTAL		7369.00 FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.3	9.3	9.3	9.3	5.2	2/32	11.0
VISCOSITY	123	126	130	135	ADDITIVES GEL-800#		
PUMP PRESSURE	1050	1050	1050	1050	CAUSTIC-50#		
R.P.M. PUMP NO.1	51	51	51	51	PELTEX-100#		
R.P.M. PUMP NO.2	—	—	—	—	CYPAN-50#		
PUMP NO. 1 LINER SIZE	5 1/2		PUMP NO. 2 LINER SIZE	5 1/2			

GENERAL REMARKS

Mason Lemarche 14 hrs

Rig Repair & B.O.P check

Drill 8 3/4" hole

Circ to raise visc. for trip

REMARKS	START	STOP	INT VAL
Rig repair & B.O.P check	4:00	4:15	1/4
Drill 8 3/4" hole	4:15	11:00	6 3/4
Circ to raise visc. for trip	11:00	12:00	1

DRILL PIPE SIZE 4 1/2	TYPE XH	TOTAL NO. OF JOINTS 261	DATE LAST SONOSCOPED Dec 68
FOOTAGE DRILLED SINCE LAST SONOSCOPED		TOTAL FOOTAGE DRILLED 37995	
B.O.P.'S TESTED March 29/70	ELAPSED TIME 08 c.	PRESSURE nil	RESULTS O.K.

LAST CALIPER DATE	RESULTS	CODE-LETTER OF STRING

TOTCO RING ON BIT NO. 10

TOOLPUSHER ____

APPROVED BY ____

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 28/70 REPORT NO. 26

DATE March 28th WELL NAME Banner etal Little Stout 121°-48W. 60-15W.

RIG NO. 3 LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D500	16
NO. 2 Oilwell	214P	14

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
7115	67	7182	7 3/4	158,000	8 6 1/4, 4 x 6 3/4	55,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
8	365.18	4.6	36137	184	Mar 24	6990	1/2	

EACH EMPLOYEE MUST SIGN THIS BOOK	
TOUR NO. 1 MIDNIGHT TO 8 A.M.	HOURS
DRILLER W. Gustafson	8
DERRICK H. Thomas	8
FLOOR W. Ewach	8
FLOOR D. Halabitsky	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
68	STANDS	FT.	9.	8 3/4	2-12, 1-13	22953	X7	55	55	6990	7182	192	18.					Run
1	SINGLES	6498.73 FT.										A2						
22	D.C.'S	651.33 FT.																
2	SUBS	6.52 FT.																
1	SUB B.T.	3.00 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	23.00 FT.																
TOTAL		7182.58 FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.2	9.2	9.2		5.6	2/32	10
VISCOSITY	120	145	155	135			
PUMP PRESSURE	1450	1350	1350	1350			
R.P.M. PUMP NO. 1	60	60	60	60			
R.P.M. PUMP NO. 2	ON	MIXER					
PUMP NO. 1 LINER SIZE	5 1/2		PUMP NO. 2 LINER SIZE	5 1/2			

ADDITIVES: CAUSTIC - 100#, PELTEX - 100#, GEL - 1200#, CYPAN - 50#, NO STICK - 2 Bbl, DIESEL 206 gal

GENERAL REMARKS: Top Tank Full, Btm " 2 ft.

REMARKS	START	STOP	INTERVAL
Drilling	1200	215	2 1/4
Ser Rig	215	230	1/4
Drilling	230	800	5 1/2

TOUR NO. 2 8 A.M. TO 4 P.M.	HOURS
DRILLER Mitch Boychuk	8
DERRICK P. Comeau	8
FLOOR N. Shewchuk	8
FLOOR H. Smith	8
FLOOR H. Lizotte	8
FIREMAN	
MECHANIC	
INJURIES	Nil

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
7182	43	7225	6 3/4	158.m	18 2 6 1/4, 4 x 6 3/4	55.m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
1	365.18	4.6	36137	184	5224.70		7220	

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	6530.38 FT.	9	8 3/4	2-12, 1-13	229533	X7	55.m	55	6990	7225	235	24 3/4					
	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
1	SUB	3.00 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	33.77 FT.																
TOTAL		7225.00 FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.1	9.25	9.2	9.2	6.4	3/32	11.0
VISCOSITY	95	165	240	155			
PUMP PRESSURE	1300	1400	1400	1350			
R.P.M. PUMP NO. 1	61	60	60	60			
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE	5 1/2"		PUMP NO. 2 LINER SIZE	5 1/2"			

ADDITIVES: Gel - 1000#, Cypan - 50#, Caustic - 100#, Peltex - 100#, No-Stik 2 gal, Diesel 15 gal

GENERAL REMARKS: Red Line Hoisting. 8 HRS. Marion Remarks 8 hrs

REMARKS	START	STOP	INTERVAL
Drill	800	1115	3 1/4
Work on Stan. Pipe	1115	1145	1/2
Drill	1145	215	2 1/2
Rig Ser	215	230	1/4
Drill	230	530	3
Drop Totco	530	545	1/4
Pull out	545	NCC	1/4

TOUR NO. 3 4 P.M. TO MIDNIGHT	HOURS
DRILLER R. Derschuer	8
DERRICK B. Wood	8
FLOOR L. Mathe	8
FLOOR B. Derschuer	8
FLOOR E. Bretzel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
7225	3	7228	1/2	152m	7 6 4x6 3/4	55m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
	8	367.34	46	367.34	138	Mar 27	7220	1°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
69	STANDS	6530.38 FT.	10	8 3/4	2-12, 1-13	855744	SHGJ	35	55	7225	7228	3	1/2					Mtg.
2	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
1	SUB	3.00 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
TOTAL		FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY							
PUMP PRESSURE							
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE					

ADDITIVES:

GENERAL REMARKS:

REMARKS	START	STOP	INTERVAL
Pull out of hole	4:00	7:30	3 1/2
Rig service & check blind rams	7:30	8:00	1/2
Slip & cut line	8:00	9:00	1
Run in.	9:00	9:45	3/4
Break circ @ 5200'	9:45	10:00	1/4
Finish in.	10:00	10:45	3/4
Break circ & clean to Btm.	10:45	11:30	3/4
Drill	11:30	12:00	1/2

DRILL PIPE SIZE 4 1/2	TYPE X H	TOTAL NO. OF JOINTS 261	DATE LAST SONOSCOPED Dec 68	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED 37851	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING
B.O.P.'S TESTED March 28/70		ELAPSED TIME 0 X C.	PRESSURE Nil	RESULTS O.K	TOTCO RING ON BIT NO. 10			

TOOLPUSHER J. Hilderman

APPROVED BY J. Johnston

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 27th — REPORT NO. 25

WELL NAME Bonnet et al Little Stave 121°-48m-60°-15m

DATE March 27th — RIG NO. 3 — LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D500	16
NO. 2 Oilwell	214P	14

LAST CASING SIZE 10 3/4 — LAST CASING SET AT 810

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER W. Gustafson	8
DERRICK D. Thomas	8
FLOOR W. Ewach	8
FLOOR D. Halabisky	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
6990				155,000	18 of 6 1/4 + 4 of 6 3/4	55,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
1	8	36518	46	36137	184	Mar 24

AT	SURVEYS	DEGREES
6990		1/2

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.	9	8 3/4	2-12 1-13	22953	X7	New		6990								
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
1	SUB Bit	3.00 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
	TOTAL	FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY							
PUMP PRESSURE							
R.P.M. PUMP NO.1							
R.P.M. PUMP NO.2							
PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE					

ADDITIVES

GENERAL REMARKS

DST #1 6860 - 6990 - G.I.P. G.T.S. AFTER 6 min
V.O. Gas To Surface immediately 100,000 MCF PER DAY MEASURED
Decreasing To Small To measure — TRACE OF H2S
IHP 3425 FHP 3406 I.F.P 221 FFP 831 I.S.I.P 2867 F.S.I.P 2853

TIME	START	STOP	INT VAL
Testing	12:00	1:15	1 1/4
Pull packer loose	1:15	1:45	1/2
Pull out Tight	1:15	5:45	4
Lay down Packer	5:45	7:30	1 3/4
Run in w/ Bit	7:30	8:00	1/2

REMARKS

Run in w/ Bit #9 Slow 8:00
Break Circ @ 5500 ft 11:00 2
Circ & Clean To Btm. 98' 11:50 1/2
Drill 11:50 4:00 4 1/2

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER Mitch Baychuk	8
DERRICK P. Comeau	8
FLOOR N. Shewchuk	8
FLOOR H. Smith	8
FLOOR H. Lizotte	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
6990	47	7037	4 1/2	155 m	18 of 6 1/4	55 m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36518	46	36137	184	Mar 27th

AT	SURVEYS	DEGREES
6990		1/2

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
67	STANDS	6342.78 FT.	9	8 3/4	2-12 1-13	22953	X7	55m	55	6990	7037	47	4 1/2					
2	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
	SUB	FT.																
1	BIT OR C.B.	5.00 FT.																
		FT.																
	KELLY IN	53.57 FT.																
	TOTAL	7037.00 FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT			9.2	9.3	4.6	5/32	10.5
VISCOSITY			250	190			
PUMP PRESSURE			1600	1450			
R.P.M. PUMP NO.1			60	60			
R.P.M. PUMP NO.2			DOWNS				
PUMP NO. 1 LINER SIZE 5 1/2"		PUMP NO. 2 LINER SIZE 5 1/2"					

ADDITIVES CAUSTIC 150#, PELTEX 150#

GENERAL REMARKS

Mavis Menard In Hse
Red Line Houdines 8 HRS

REMARKS

Mavis Menard

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER R. Vermeer	8
DERRICK B. Ward	8
FLOOR L. Methe	8
FLOOR B. Vermeer	8
FLOOR E. Bretzel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
7037	78	7115	5 3/4	155 m	18 of 6 1/4	55 m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36518	46	36137	184	Mar 27

AT	SURVEYS	DEGREES
6990		1/2

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
68	STANDS	FT.	9	8 3/4	2-12 1-13	22953	X7	55m	55	6990	7115	125	10 1/4					Bkly
2	SINGLES	6435.48 FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
	SUB	FT.																
1	BIT SUB OR C.B.	3.00 FT.																
		7096.23 FT.																
	KELLY IN	17.67 FT.																
		53																
	TOTAL	7115.00 FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.2	9.2	9.2	9.2	7.0	2/32	10.0
VISCOSITY	165	160	124	131			
PUMP PRESSURE	1450	1450	1400				
R.P.M. PUMP NO. 1	60	60	60				
R.P.M. PUMP NO. 2	—	—	ON MIXER				
PUMP NO. 1 LINER SIZE 5 1/2		PUMP NO. 2 LINER SIZE 5 1/2					

ADDITIVES GEL-4900#, CAUSTIC-700#, PELTEX-300#, CYPEN-500#, CELLOPHANE-22#'s

GENERAL REMARKS

Losing Mud To Formation
Approx. 35 BBLS/HR
Before Mixing Loss Circ Material
Saw Dust 20 sks
No-stik - 2 gals.

REMARKS

Rig service & B.O.P. check 4:00 4:15 1/4
T Drill 8 3/4" Hole 4:15 9:00 4 3/4 4 3/4
Circ. Slowly + mix Loss Circ. Material + 9:00
Build Volume 10:45 1 3/4
Drill 10:45 11:30 3/4 3/4
Work on pump 11:30 11:45 1/4
Drill 11:45 12:00 1/4 1/4

DRILL PIPE SIZE 4 1/2	TYPE XH	TOTAL NO. OF JOINTS 261	DATE LAST SONOSCOPED Dec 68
B.O.P.'S TESTED March 27/70	ELAPSED TIME 0 2 1/2	FOOTAGE DRILLED SINCE LAST SONOSCOPED	PRESSURE Nil
TOTAL FOOTAGE DRILLED 37138	RESULTS O.K.	LAST CALIPER DATE	RESULTS
CODE LETTER OF STRING	TOT CO RING ON BIT NO. 9		

TOOLPUSHER

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 26th 70 REPORT NO. 24

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

DATE March 26 1970 WELL NAME Bannu etal Little Grand 1210-49-W60 1/3 W

RIG NO. 3 LOCATION LSD. SEC. TWP. RGE.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D500	16
NO. 2 National	214P	14

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.	HOURS
DRILLER W Christopson	8
DERRICK H. Thomas	8
FLOOR W. Enoch	8
FLOOR D. Halahuta	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
6915	65	6980	6 1/4	155 ~~165~~	7 6 3/4 1 3 1/4	55000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
	8	36137	46	36B7	184	Mar 24	6660	10

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
67	STANDS	6280.81 FT.	8	8 3/4	2-14 1-15	20827	X7	55	55	6661	6980	319	28					Run.
	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
2	SUB XO	6.52 FT.																
1	SUB Stab	9.45 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	32.00 FT.																
TOTAL	6980.11	FT.																

	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS
MUD								
WEIGHT	9.2	9.2	9.2	9.2	6.	2/32	10.5	Fuel Top Tank 4'4"
VISCOSITY	105	102	120	114	ADDITIVES	NO STICK-2 Bgs		Fuel Bottom Tank 5'-4"
PUMP PRESSURE	1050	1050	1050	1150	CAUSTIC - 50#			
R.P.M. PUMP NO. 1	60	60	60	60	CYPAN - 50#			
R.P.M. PUMP NO. 2	ON	MIXER			GEL - 2000			
PUMP NO. 1 LINER SIZE	5 1/2		PUMP NO. 2 LINER SIZE	5 1/2	BENEX - 5#			

TIME START	TIME STOP	INT VAL	REMARKS
1200	100	1	Drilling
100	115	1/4	Sec Rig
115	515	4	Drilling
515	630	1/4	circ Sample
630	715	1/4	Drilling
715	800	1/4	circ to test

TOUR NO. 2 8 A.M. TO 4 P.M.	HOURS
DRILLER Mitch Boychuk	8
DERRICK P. Comeau	8
FLOOR N. Shewchuk	8
FLOOR H. SMITH	8
FLOOR H. LIZOTTE	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
6980	10	6980.11 ~~6990~~		155 M 55 M 55 M		

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
1	8	36137	46	36B7	184	Mar 24/70	6990	1/2

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
67	STANDS	6280.81 FT.	8	8 3/4	2-14 1-15	20827	X7	55	55	6661	6990	329	29					#2-1
	SINGLES	FT.										?	?					
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
1	SUB	9.45 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	41.00 FT.																
TOTAL	6989.11 ~~6990.00~~	FT.																

	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS
MUD								
WEIGHT	9.2	9.35			55	2/32	D.5	
VISCOSITY	124	105	240		ADDITIVES Gel 100#			
PUMP PRESSURE	800	1050	1150		Benex 25#			
R.P.M. PUMP NO. 1	60	54	60		Caustic 65 00#			
R.P.M. PUMP NO. 2	ON	MIXER						
PUMP NO. 1 LINER SIZE	5 1/2"		PUMP NO. 2 LINER SIZE	5 1/2"				

TIME START	TIME STOP	INT VAL	REMARKS
700	900	1	Drill
900	1015	1 1/4	Circ Condition to Test
1015	1145	1 1/2	10 Std. Dummy Trip
1145	145	2	Circ to Test
145	400	2 1/4	Drop Totco Pull out of hole
	1130		

TOUR NO. 3 4 P.M. TO MIDNIGHT	HOURS
DRILLER R. Verschoor	8
DERRICK B. Ward	8
FLOOR W. Methe	8
FLOOR B. Verschoor	8
FLOOR E. Bretzel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
					13x6 1/4	30M

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
	8	36346	46	3613 7	184	Mar 24/70	6990	1/2

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
70	STANDS	6280.51 FT.																
	SINGLES	FT.																
13	D.C.'S	379.20 FT.																
2	SUB	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	reeder	75.14 FT.																
	KELLY IN	FT.																
TOTAL	7013.30	FT.																

	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS
MUD								
WEIGHT								
VISCOSITY					ADDITIVES			
PUMP PRESSURE								
R.P.M. PUMP NO. 1								
R.P.M. PUMP NO. 2								
PUMP NO. 1 LINER SIZE	5 1/2		PUMP NO. 2 LINER SIZE	5 1/2				

TIME START	TIME STOP	INT VAL	REMARKS
4:00	5:00	1	Finish guideline out of hole
5:00	5:15	1/4	Rig service & B.O.P. check
5:15			Pick up testing tools & make up
	7:30	2 1/4	recorder
7:30	9:15	1 3/4	Run on packer
9:15	9:45	1/2	Rig up testing head
9:45	12:00	2 1/4	Test

DRILL PIPE SIZE	4 1/2	TYPE	XH
TOTAL NO. OF JOINTS	261	DATE LAST SONOSCOPED	Dec 69
FOOTAGE DRILLED SINCE LAST SONOSCOPED		TOTAL FOOTAGE DRILLED	3761 3
B.O.P.'S TESTED	March 26/70	ELAPSED TIME	0 & C.
PRESSURE	Nil	RESULTS	O.K.

LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

TOT.CO RING ON BIT NO.

Mason Hemorter 15 Men
Red Line Holdings 8 Hrs

TOOLPUSHER

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 25/70 REPORT NO. 23

WELL NAME Banner etal Little Swan 1210-14'w-60°13'H

DATE March 25/70

RIG NO. Three

LOCATION LSD. SEC. TWP. RGE.

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D500	16
NO. 2 Gardner	214P	14

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

		HOURS
DRILLER	W. Smith	8
DERRICK	H. Thomas	8
FLOOR	G. Gwach	8
FLOOR	D. Halabisky	8
FLOOR	R. Day	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
6661	69	6730	6	153m	18-6 1/4	55m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
8	36137	46	36137	184	March 24	

AT	SURVEYS	DEGREES
6660		1°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
14	STANDS	FT.	8	8 3/4	3-14	20827	X7	50/55	55	6661	6730	69	6					
1	SINGLES	683.01 FT.																
22	D.C.'S	651.33 FT.																
2	SUB XO	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Shock	9.45 FT.																
	KELLY IN	31.69 FT.																
TOTAL		6730.00 FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.
WEIGHT		9.2	9.2	9.2
VISCOSITY	8	180	120	105
PUMP PRESSURE		1100	1100	1100
R.P.M. PUMP NO. 1		60	60	60
R.P.M. PUMP NO. 2	ON	MIXER		

PUMP NO. 1 LINER SIZE 5 1/2" PUMP NO. 2 LINER SIZE 5 1/2"

WATER LOSS	FILTER CAKE	PH
6.2	2/32	10

ADDITIVES CAUSTIC - #50; NO-STIK-R - 2 gal; GEL - #1200; BEN-EX - #4; CYPAN - 50#

GENERAL REMARKS: Change head + liner on Wheatland side D500

TIME	START	STOP	INT. VAL.
REMARKS			
Rig Ser + BOP's	12.00	12.15	1/4
Ream in Slow w/Bit Brush cir 5 cac	12.15		
Clean 40' fill		2.00	1 3/4
Drill	2.00	8.00	6

TOUR NO. 2 8 A.M. TO 4 P.M.

		HOURS
DRILLER	Mitch Boychuk	8
DERRICK	P. Comeau	8
FLOOR	N. Shewchuk	8
FLOOR	B. Borgess	4
FLOOR		
FIREMAN		
MECHANIC		
INJURIES	Nil	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
6730	93	6823	8	153 m	12 6 1/4	55 m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36137	46	36137	184	March 24/70

AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
65	STANDS	6124.87 FT.	7	8 3/4	3-14	20827	X7	55	55	6661	6823	162	14					Drilling
1	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
1	SUB Shock	9.45 FT.																
	BIT OR C.B.	FT.																
	KELLY IN	31.83 FT.																
TOTAL		6825.00 FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.
WEIGHT	9.1	9.05	9.1	9.1
VISCOSITY	84	95	100	
PUMP PRESSURE	1085	1050	1075	
R.P.M. PUMP NO. 1	62	62	62	62
R.P.M. PUMP NO. 2	ON	GUNS		

PUMP NO. 1 LINER SIZE 5 1/2" PUMP NO. 2 LINER SIZE 5 1/2"

WATER LOSS	FILTER CAKE	PH
6.1	2/32	10.5

ADDITIVES GEL - 1400#; Caustic - 50#; No Stik Used

GENERAL REMARKS: DESANDER 7 Hrs; Safety Meeting - 1; Service - 9.1; Rig + Pipe Maintenance - 1; Circ - 9.05; Drill String - 1; Survey - 9.4; DESANDER OFF 10.00 A.M.

TIME	START	STOP	INT. VAL.
REMARKS			
Drill	7.00	4.00	9

TOUR NO. 3 4 P.M. TO MIDNIGHT

		HOURS
DRILLER	B. Desrochers	8
DERRICK	B. Ward	8
FLOOR	E. Methe	8
FLOOR	B. Desrochers	8
FLOOR	E. Bratzel	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
6823	92	6915	7 3/4	153 m	18-6 1/4	55m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36137	46	36137	184	March 24/70

AT	SURVEYS	DEGREES
6660		1

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
26	STANDS	FT.	8	8 3/4	3-14 12-15	20827	X7	50/55	55	6661	6915	254	21 3/4					Drilling
1	SINGLES	62.11 FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
1	Shock SUB	9.45 FT.																
	BIT OR C.B.	FT.																
	KELLY IN	28.60 FT.																
TOTAL		6915.00 FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.
WEIGHT	9.1	9.1	9.2	9.2
VISCOSITY	9.6	102	108	114
PUMP PRESSURE	1050	1050	1050	1050
R.P.M. PUMP NO. 1	60	60	60	60 ON MIXER
R.P.M. PUMP NO. 2	—	ON MIXER	ON MIXER	

PUMP NO. 1 LINER SIZE 5 1/2 PUMP NO. 2 LINER SIZE 5 1/2

WATER LOSS	FILTER CAKE	PH
5.8	2/32	10

ADDITIVES Gel - 4100#; Ben-Ex - 16#; Cypan - 50#; Na Stik - 2 sacks; Caustic - 50#

GENERAL REMARKS: Bit right - Trip - Repairs; Mon - Wed 24 hrs; RED LINE HOLE MUD

TIME	START	STOP	INT. VAL.
REMARKS			
Rig service & B.O.P. check	4:00	4:15	1/4
Drill 8 3/4" hole	4:15	12:00	7 3/4

DRILL PIPE SIZE	4 1/2	TYPE	X H
B.O.P.'S TESTED	March 25/70		

TOTAL NO. OF JOINTS 261 DATE LAST SONOSCOPED Dec 68 FOOTAGE DRILLED SINCE LAST SONOSCOPED

ELAPSED TIME 0 2 E PRESSURE Nil TOTAL FOOTAGE DRILLED 27538 RESULTS O.K.

LAST CALIPER DATE RESULTS CODE LETTER OF STRING

TOTCO RING ON SIT NO. 8

TOOLPUSHER J. Hibbard

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 24/70 REPORT NO. 22

WELL NAME Bonnet Stad Little Havre 12°-14'W - 60°-13'N

DATE March 24/70 RIG NO. Ideal LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D-500	16"
NO. 2 Gardwell	214-P	14"

LAST CASING SIZE 10 3/4 LAST CASING SET AT 810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
6388	152	6540	7	15.5#	18-6 1/4 & 4-6 3/4	55#

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	35943	46	32413	230	Mar. 15/70

AT SURVEYS DEGREES

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER W. Smith	8
DERRICK H. Thomas	8
FLOOR W. Ewach	8
FLOOR D. Halabitsky	8
FLOOR R. Day	8
FIREMAN	
MECHANIC	
INJURIES	

EACH EMPLOYEE MUST SIGN THIS BOOK

NO.	DRILLING STRING	FT.
62	STANDS	
1	SINGLES	5841.90
22	D.C.'S	651.33
2	SUB X O	6.52
	SUB	
	BIT OR C.B.	
1	Shock	9.45
	KELLY IN	30.80
TOTAL		6540.00

BITS: RUN NO. 7; SIZE 8 3/4; NOZZLE SIZE 2-18, 1-20; SERIAL NO. 19536; TYPE X16; WEIGHT 50/55; RPM 75; FOOTAGE FROM 6208; FOOTAGE TO 6540; FOOTAGE 332; HOURS 13; CORED FROM; CORED TO; REAMED FROM; REAMED TO; CONDITION

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.1	9.1	9.1	9.1	6.2	2/32	10
VISCOSITY	78	85	82	85			
PUMP PRESSURE	850	800	800	800			
R.P.M. PUMP NO. 1	60	60	60	60			
R.P.M. PUMP NO. 2	ON	MIXER					
PUMP NO. 1 LINER SIZE	5 1/2"						
PUMP NO. 2 LINER SIZE	5 1/2"						

ADDITIVES: CAUSTIC 50#; NO-STICK 2 GAL.; CYPAN 50#; GEL - 2300#; BEN-EX - 8#

GENERAL REMARKS: DESANDER 12 AM; SUCTION 9.1; DISCHARGE 9.2; SUMP - 9.2; Top fuel tank 5'3"; Bottom fuel tank 5'4"

REMARKS	START	STOP	INTERVAL
Rig Ser. & B.O.P.	12:00	12:15	1/4
Drill	12:15	3:45	3 1/2
Circ. Sample up 6480'	3:45	4:30	3/4
Drill	4:30	8:00	3 1/2

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER M. Tech Beychok	8
DERRICK P. Comeau	8
FLOOR N. Shewchuk	8
FLOOR B. Burgess	8
FLOOR	
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
6540	104	6644	8	15.5#	12-6 1/4	55#

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	35945	46	35615	330	Mar. 18/70

AT SURVEYS DEGREES

NO.	DRILLING STRING	FT.
63	STANDS	5956.67
1	SINGLES	
22	D.C.'S	651.33
2	SUB	6.52
1	Shock SUB	9.45
	BIT OR C.B.	
	KELLY IN	41.00
TOTAL		6644.00

BITS: RUN NO. 7; SIZE 8 3/4; NOZZLE SIZE 2-18, 1-20; SERIAL NO. 19536; TYPE X16; WEIGHT 50/50; RPM 75; FOOTAGE FROM 6208; FOOTAGE TO 6644; FOOTAGE 436; HOURS 21; CORED FROM; CORED TO; REAMED FROM; REAMED TO; CONDITION

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.1	9.1	9.2	9.15	6.6	3/32	10
VISCOSITY	70	98	90	99			
PUMP PRESSURE	800	825	850	825			
R.P.M. PUMP NO. 1	62	62	62	62			
R.P.M. PUMP NO. 2	ON	BANKS					
PUMP NO. 1 LINER SIZE	5 1/2"						
PUMP NO. 2 LINER SIZE	5 1/2						

ADDITIVES: Gel 3200#; Cypan 50# Caustic 50#; Benex 12#; No-Stick 2 gal

GENERAL REMARKS: Desander 9 A.M.; Suction 9.1; Discharge 9.1; Sump 9.3; Safety Drill on Controls Panel & Tongs

REMARKS	START	STOP	INTERVAL
Drill	8:00	4:00	8

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER R. Verschoor	8
DERRICK B. Ward	8
FLOOR H. Methe	8
FLOOR B. Verschoor	8
FLOOR E. Bratzel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
6644	17	6661	1 1/4	15.5#	18-6 1/4	55#

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36137	46	36137	184	Mar. 24/70

AT SURVEYS DEGREES: 6300 1 1/4; 6660 1°

NO.	DRILLING STRING	FT.
63	STANDS	
2	SINGLES	59677
22	D.C.'S	651.33
2	SUBS	6.52
1	SHOCK SUB	9.45
	BIT OR C.B.	
	KELLY IN	25.93
TOTAL		6661.00

BITS: RUN NO. 7; SIZE 8 3/4; NOZZLE SIZE 2-18, 1-20; SERIAL NO. 19536; TYPE X16; WEIGHT 50; RPM 75; FOOTAGE FROM 6208; FOOTAGE TO 6661; FOOTAGE 453; HOURS 22 1/4; CORED FROM; CORED TO; REAMED FROM; REAMED TO; CONDITION 7-7-1

BITS: RUN NO. 8; SIZE 8 3/4; NOZZLE SIZE 3-12, 1-16; SERIAL NO. 20527; TYPE X7; FOOTAGE FROM 6661

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.1	9.1				2/32	
VISCOSITY	76	164	R				
PUMP PRESSURE	825	825					
R.P.M. PUMP NO. 1	60	60					
R.P.M. PUMP NO. 2	ON	MIXER					
PUMP NO. 1 LINER SIZE	5 1/2						
PUMP NO. 2 LINER SIZE	5 1/2						

ADDITIVES: Gel - 1600#; Ben-Ex - 6#; Caustic - 50#; Nostik 2 gal; CMC HV - 50#

GENERAL REMARKS: S.L.M. 6662-50; Board 6661; Diff 1.50; No Correction; Mavis Rowanda 22 hrs; Kod Line Holdings 8 hrs.

REMARKS	START	STOP	INTERVAL
Rig service & B.O.P. check	4:00	4:15	1/4
Drill 8 3/4" hole	4:15	5:30	1 1/4
Circ. to raise mud & pump down tolco	5:30	7:00	1 1/2
Pull out of hole (MEAS)	7:00	10:30	3 1/2
Change bits, check blind rams & run in drill collars	10:30	11:15	3/4
Slip & cut line	11:15	12:00	3/4

DRILL PIPE SIZE	4 1/2	TYPE	X H
B.O.P.'S TESTED	March 24/70		

TOTAL NO. OF JOINTS	261	DATE LAST SONOSCOPED	Dec 68
ELAPSED TIME	0 R L.	FOOTAGE DRILLED SINCE LAST SONOSCOPED	
PRESSURE	Nil	TOTAL FOOTAGE DRILLED	37284
		RESULTS	O.K.

	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING
TOTCO RING ON BIT NO. 7			

TOOLPUSHER A. H. Ward

APPROVED BY E. Charlton

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 23/70 — REPORT NO. 21

WELL NAME Banner Etal Little Knowl
12° 14'W - 60° 13'N

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D500	16"
NO. 2 Gardner	214-P	14"

LAST CASING SIZE: 10 3/4 — LAST CASING SET AT: 810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
6052	156	6208	5 1/4	150,000	18-6 3/4	55m.

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	35734	46	35613	230	3-18-70

AT	SURVEYS	DEGREES
6147		1 1/2°

TOUR NO. 1 — MIDNIGHT TO 8 A.M. (EACH EMPLOYEE MUST SIGN THIS BOOK)

	HOURS
DRILLER W. Smith	8
DERRICK W. Thomas	8
FLOOR W. Ewach	8
FLOOR D. Kolabinsky	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
58	STANDS	FT.	6	8 3/4	2-11 1-12	22626	X16	55	75	5384	6208	824	37 1/2					
2	SINGLES	55.00.13 FT.																
22	D.C.'S	651.33 FT.																
2	SUB Kelly	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Kelly	9.45 FT.																
	KELLY IN	40.53 FT.																
TOTAL		6208.00 FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.0	9.0	9.0	9.1	6.4	2/32	10
VISCOSITY	85	76	68	79	ADDITIVES	NOSTICK 3 GAL	
PUMP PRESSURE	1450	1450	1450	1450	GEL - 4700#		
R.P.M. PUMP NO. 1	60	60	60	60	BENEX - 18#		
R.P.M. PUMP NO. 2	ON	MIXER			CYPAN - 50		
PUMP NO. 1 LINER SIZE	5 1/2"		PUMP NO. 2 LINER SIZE	5 1/2"	CMC - 75#		

GENERAL REMARKS

DESANDER 12 AM
SUCTION 9.0
DISCHARGE 9.0
SUMP 9.3
Change Rod + Head Rubbers @ 5:15 PM
Safety meeting held on Blowout Prevention

REMARKS	START	STOP	INTERVAL
Rig Rig + BOP's	12:00	12:15	1/4
Drill	12:15	3:15	3
Survey 6147' 1 1/2°	3:15	4:15	1
Drill	4:15	6:30	2 1/4
Circ prior to Trip + Bottom hole sample	6:30	8:00	1 1/2
Top Fuel tank full			
Bottom fuel tank 5'4"			

TOUR NO. 2 — 8 A.M. TO 4 P.M.

	HOURS
DRILLER Mitch Buychuk	8
DERRICK P. Comeau	8
FLOOR N. Shewchuk	8
FLOOR B. Burgess	8
FLOOR A. Day	4
FIREMAN E. Reitzel	4
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
6208					2x6 1/4 15-6 1/4	55m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
1	8	35543	46	35613	230	3-18-70

AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.	6	8 3/4	2-11 1-12	22626	X16	55	75	5384	6208	824						4-4-1
	SINGLES	FT.	7	8 3/4	2-18 1-20	19536	X16	55										
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
1	SUB	9.45 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
TOTAL		FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.1						
VISCOSITY	150				ADDITIVES		
PUMP PRESSURE	1600						
R.P.M. PUMP NO. 1	60						
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE	5 1/2"		PUMP NO. 2 LINER SIZE	5 1/2			

GENERAL REMARKS

TRIP

REMARKS	START	STOP	INTERVAL
Pull out slowly	8:00	11:30	3 1/2
Unload core barrel	11:30		
Repack swivel + wash pipe		12:00	1/2
Run in hole break circ			
@ 6000 + 5500' Ream 90'		4:00	3

TOUR NO. 3 — 4 P.M. TO MIDNIGHT

	HOURS
DRILLER R. Davidson	8
DERRICK B. Ward	8
FLOOR J. Methe	8
FLOOR B. Davidson	8
FLOOR E. Bratzel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
6208	180	6388	6	151m	2-6 3/4 12-6 1/4	55m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
2	8	35943	46	35613	230	Mar 18/70

AT	SURVEYS	DEGREES
6147		1 1/2°
6300		1 1/4°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
60	STANDS	FT.	7	8 3/4	2-18 1-20	19536	X16	55	75	6208	6388	180	6					Dlg.
2	SINGLES	5688.44 FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
1	Kelly SUB	9.45 FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	33.26 FT.																
TOTAL		6388.00 FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.1	9.1	9.1	9.1	6.8	2/32	7.5
VISCOSITY	153	164	126	89	ADDITIVES	Cypan - 50#	
PUMP PRESSURE	850	850	850	850		Caustic - 50#	
R.P.M. PUMP NO. 1	60	60	60	60		Nostik - 2 gal	
R.P.M. PUMP NO. 2	ON	Guns	—			Gel - 1000#	
PUMP NO. 1 LINER SIZE	5 1/2	PUMP NO. 2 LINER SIZE	5 1/2			Ben-Ex - 44	

GENERAL REMARKS

DESANDER 4 p.m.
SUCTION 9.1
DISCHARGE 9.1
SUMP 9.7
Marvin Rongke 23 hrs
Red Line Holdings 16 hrs

REMARKS	START	STOP	INTERVAL	
Rig service & B.O.P. check	4:00	4:15	1/4	
Clean to Btm.	4:15	5:15	1	
Drill 8 3/4" hole	5:15	8:15	3	3
Run survey @ 6300 - 1/4°	8:15	9:00	3/4	
Drill 8 3/4" hole	9:00	12:00	3	3

DRILL PIPE SIZE 4 1/2	TYPE X.H	TOTAL NO. OF JOINTS 261	DATE LAST SONOSCOPED Dec 68	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED 3701	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING
B.O.P.'S TESTED March 23/70		ELAPSED TIME Nil		PRESSURE 02L	RESULTS O.K.	TOTCO RING ON BIT NO. 7		

TOOLPUSHER J. Hilborn

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 22/70 REPORT NO. 20

WELL NAME Banner et al Little Knife — 178°-45'W - 60°-13'N.

DATE March 22/70

RIG NO. Three

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D 500	16"
NO. 2 Oilwell	214-P	14"

LAST CASING SIZE 10 3/4 — LAST CASING SET AT 810

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

		HOURS
DRILLER	W. Smith	8
DERRICK	H. Thomas	8
FLOOR	W. Enwach	8
FLOOR	D. Kalabitsky	8
FLOOR	A. Day	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
5645	108	5753	6 1/2	142m	18-6 1/4 4-6 3/4	55m

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
57	STANDS	5063.48 FT.	6	8 3/4	2-11 1-12	22626	X1G	20	110	5384	5753	~~369~~	~~19~~					
	SINGLES	FT.										369	19					
22	D.C.'S	651.33 FT.																
2	SUB XO	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Shock	9.45 FT.																
	KELLY IN	21.22 FT.																
TOTAL		5753.00 FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	8.9	9.0	9.0	9.0	5.8	2/32	10
VISCOSITY	90	84	77	92	ADDITIVES	NO-STICK - 2 GAL	
PUMP PRESSURE	1450	1450	1450	1450	CAUSTIC — 100#		
R.P.M. PUMP NO.1	60	60	60	60	GEL — 1600		
R.P.M. PUMP NO.2	ON	MIXER			BEN-EX - #16		
PUMP NO. 1 LINER SIZE	5 1/2"		PUMP NO. 2 LINER SIZE	5 1/2"	NITER CYPAN #50		

GENERAL REMARKS

DESANDER 12 P.M. 4:00 A.M.
SUCTION - 9.0 9.0
DISCHARGE - 8.9 8.9
SUMP - 9.3 9.3
Top Fuel Tank Full
Bottom Fuel Tank 6'-1"

REMARKS	START	STOP	INT VAL
Rig Service & BOP's	12:00	12:15	1/4
Drill	12:15	5:45	5 1/2
Survey @ 5740 miss Run	5:45	6:15	1/2
Drill	6:15	7:00	3/4
Survey 5740' 2 3/4°	7:00	7:45	3/4
Drill	7:45	8:00	1/4

AT	SURVEYS	DEGREES
5740		2 3/4°

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	35734	46	35613	230	3-18-70

TOUR NO. 2 8 A.M. TO 4 P.M.

		HOURS
DRILLER	M. Deh Baychuk	8
DERRICK	P. Conrad	8
FLOOR	N. Shewchuk	8
FLOOR	B. Burgess	8
FLOOR		
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
5755	130	5885	7 1/4	147	18-6 1/4	55m

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
55	STANDS	5187.84 FT.	6	8 3/4	2-11 1-12	22626	X1G	24	112	5574	5755	499	76 1/4					Drilling
1	SINGLES	FT.																
22	D.C.'S	654.35 FT.																
2	SUB	6.52 FT.																
1	Shock SUB	9.45 FT.																
	BIT OR C.B.	FT.																
	KELLY IN	31.96 FT.																
TOTAL		5885.00 FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	8.9	8.9	8.9	9.0	5.2	2/32	10
VISCOSITY	71	74	70	75	ADDITIVES	GEL 2100#	
PUMP PRESSURE	1450	1450	1465	1425	BEN-EX 8#		
R.P.M. PUMP NO.1	60	60	60	60	CYPAN 50#		
R.P.M. PUMP NO.2	ON	GUNS			NO-STIK 2 gal.		
PUMP NO. 1 LINER SIZE	5 1/2"		PUMP NO. 2 LINER SIZE	5 1/2"	DIESEL 8 gal.		

GENERAL REMARKS

DESANDER 9 A.M.
SUCTION - 8.9
DISCHARGE - 9.7
SUMP - 9.1
Safety Meeting held on BOP Prevention

REMARKS	START	STOP	INT VAL
Drill	1:00	2:15	6 1/4
Trip 5855 - 2 1/4°	2:15	3:00	3/4
Drill	3:00	4:00	1

AT	SURVEYS	DEGREES
5855		2 1/4°

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	35574	46	35613	230	3-18-70

TOUR NO. 3 4 P.M. TO MIDNIGHT

		HOURS
DRILLER	R. Verschoor	8
DERRICK	B. Ward	8
FLOOR	H. Methe	8
FLOOR	B. Verschoor	8
FLOOR	E. Brotzel	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
5883	169	6052	6	150m	4-6 3/4 18-2 1/4	55m

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
57	STANDS	~~5547.87~~ FT.	6	8 3/4	2-11 1-12	22626	X1G	20/48	60	5384	6052	668	33 1/4					Drlg
	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
1	Shock SUB	9.45 FT.																
	BIT OR C.B.	FT.																
	KELLY IN	41.00 FT.																
TOTAL		6052.17 FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.0	9.0	9.0	9.0	5.6	2/32	9.5
VISCOSITY	70	76	74	78	ADDITIVES	GEL - 1600#	
PUMP PRESSURE	1450	1450	1500	1500	BEN-EX - 8#		
R.P.M. PUMP NO.1	60	60	60	60	CAUSTIC - 100#		
R.P.M. PUMP NO.2	—	MIXER —	—	—	CYPAN - 50#		
PUMP NO. 1 LINER SIZE	5 1/2		PUMP NO. 2 LINER SIZE	5 1/2	NO STIK - 2 gal.		

GENERAL REMARKS

DESANDER 4 hrs
SUCTION 9.0
DISCHARGE 9.0
Sump 9.2
Held safety meeting on B.O.P. prevention
Held B.O.P. drill

REMARKS	START	STOP	INT VAL	
Rig service & B.O.P check	4:00	4:15	1/4	
Drill 9 3/4" hole	4:15	7:15	3	3
Run survey @ 5950 - 1 3/4°	7:15	8:00	3/4	
Drill 8 3/4" hole	8:00	11:00	3	3
Run survey @ 6045 - 1 3/4°	11:00	12:00	1	

AT	SURVEYS	DEGREES
5950		1 3/4°
6045		1 3/4°

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	35734	46	35613	230	3-18-70

Marvin Hernandez 20 hrs
Red Line Hoodlums 21 hrs

DRILL PIPE SIZE	4 1/2	TYPE	X.H.
B.O.P.'S TESTED	4 1/2 Rams + Hydril	ELAPSED TIME	

TOTAL NO. OF JOINTS	261	DATE LAST SONOSCOPED	Dec 68	FOOTAGE DRILLED SINCE LAST SONOSCOPED		TOTAL FOOTAGE DRILLED	3675
PRESSURE	Close + Open	RESULTS	3268 6000				

LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

TOTCO RING ON BIT NO. 6

TOOLPUSHER J. Nilson

APPROVED BY [signature]

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE MARCH 21/70 REPORT NO. 19

WELL NAME BANNER ET AL WITH PROWL 121°-40'W 60-10'N

LOCATION LSD. ___ SEC. ___ TWP. ___ RGE. ___

DATE MARCH 21

RIG NO. THREE

PUMPS

	MANUFACTURER	TYPE	STROKE LENGTH
NO. 1	Emsco	D-500	16"
NO. 2	Oilwell	214P	14"

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
5384	—			138 m	4-6 3/4 1-6 1/4	55 m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
1	8	35734	46	35613	230	3-18-70

AT	SURVEYS	DEGREES
5380		5 1/4°

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

		HOURS
DRILLER	R. Verschoor	8
DERRICK	B. Ward	8
FLOOR	H. Methe	8
FLOOR	B. Verschoor	8
FLOOR	E. Bratzel	8
FIREMAN		
MECHANIC		
INJURIES		

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
50	STANDS	4685.15 FT.	6	8 3/4	2-11 1-12	22626	X1E	NEW										
	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Kelly	9.45 FT.																
	KELLY IN	32.56 FT.																
TOTAL		5384.01 FT.																

	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.
	WEIGHT	8.9			
	VISCOSITY	140			
	PUMP PRESSURE	1500			
	R.P.M. PUMP NO.1	60			
	R.P.M. PUMP NO.2				
	PUMP NO. 1 LINER SIZE	5 1/2			

WATER LOSS	FILTER CAKE	PH	ADDITIVES

GENERAL REMARKS

TALLY — 5385.01
DOUBLE MEAS - 5386.18
DIFF — 1.17
NO CORRECTION

REMARKS	START	STOP	INT. VAL
PULL OUT SLOWLY	12 00		
(DOUBLE MEASURE)		3 30	3 1/2
RIG SERVICE & BOP CHECK	3 30	4 00	1/2
RUN IN BREAKING CIRC.	4 00		
@ 3000'		7 00	3
BREAK CIRC & CLEAN TO BTM.	7 00	8 00	1

TOUR NO. 2 8 A.M. TO 4 P.M.

		HOURS
DRILLER	W. Smith	8
DERRICK	H. Thomas	8
FLOOR	W. Ewack	8
FLOOR	D. Halatishy	8
FLOOR	A. Day	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
5384	151	5535	6	138 m	4-6 3/4 1-6 1/4	55 m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	35734	46	35613	230	3-18-70

AT	SURVEYS	DEGREES
5456		3 1/4°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
51	STANDS	FT.	6	8 3/4	2-11 1-12	22626	X1G	30/35	75	5384	5535	151	6					
2	SINGLES	48 42.91 FT.																
22	D.C.'S	651.33 FT.																
2	SUB XO	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Kelly	9.45 FT.																
	KELLY IN	24.79 FT.																
TOTAL		5535.00 FT.																

	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.
	WEIGHT	9.0	9.0	9.0	8.9
	VISCOSITY	90	80	76	75
	PUMP PRESSURE	1450	1450	1450	1450
	R.P.M. PUMP NO.1	60	60	60	60
	R.P.M. PUMP NO.2				
	PUMP NO. 1 LINER SIZE	5 1/2"			

WATER LOSS	FILTER CAKE	PH	ADDITIVES
5.6	2/32	9.0	CAUSTIC #100
			GEL - #3700
			BENEX #17
			CYPAN #50

PUMP NO. 2 LINER SIZE	5 1/2

NO-SURK - 2 gal.

GENERAL REMARKS

	8 A.M.	12 NOON
DESANDER		
SUCTION	9.0	9.0
DISCHARGE	9.0	9.0
SUMP	9.4	9.7

REMARKS	START	STOP	INT. VAL
Drill	8:00	8:15	1/4
Rig Ser. & B.O.P.	8:15	8:30	1/4
Drill	8:30	10:45	2 1/4
Survey @ 5456' - 3 1/4°	10:45	11:45	1
Drill	11:45	12:30	3/4
Repair leak in Stand pipe	12:30	1:15	3/4
Drill	1:15	4:00	2 3/4

TOUR NO. 3 4 P.M. TO MIDNIGHT

		HOURS
DRILLER	Mitch Boychuk	8
DERRICK	P. Comeau	8
FLOOR	N. Shewchuk	8
FLOOR	B. Burgess	8
FLOOR		
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
5535	110	5645	6 1/2	140 m	6-6 1/4	55 m

TRIPS	NO. OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	35734	46	35613	230	3-17-70

AT	SURVEYS	DEGREES
5541		3 1/2°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
52	STANDS	4956.55 FT.	1	8 3/4	2-11 1-12	22626	X1G	20	105	5535	5645	261	12 1/2					Drilling
2	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Kelly	9.45 FT.																
	KELLY IN	47.00 FT.																
TOTAL		5645.12 FT.																

	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.
	WEIGHT	9.4	8.9	8.9	8.9
	VISCOSITY	93	78	75	75
	PUMP PRESSURE	1425	1425	1450	1450
	R.P.M. PUMP NO.1	60	60	100	30
	R.P.M. PUMP NO.2				
	PUMP NO. 1 LINER SIZE	5 1/2"			

WATER LOSS	FILTER CAKE	PH	ADDITIVES
5.9	2/32	10.5	GEL 3900 #
			BENEX 14 #
			ALOXITE Seal
			DIESEL/Seal
			CYPAN 50 #

PUMP NO. 2 LINER SIZE	5 1/2"

GENERAL REMARKS

	4 P.M.	6 P.M.	8 P.M.	10 P.M.
DESANDER - WAM	5 P.M.			
SUCTION	8.9			8.9
DISCHARGE	9.4			9.2
SUMP	9.3			9.2

Marvin Rentals 20 hrs
RED Zone Mudlines 22 HRS

REMARKS	START	STOP	INT. VAL
DRILL	4:00	4:30	1/2
TOTCO @ 5541 - 3 1/2°	4:30	5:15	3/4
Drill	5:15	11:15	6
TOTCO 5635 - 2 1/2°	11:15	12:00	3/4

DRILL PIPE SIZE	4 1/2	TYPE	X-H
B.O.P.'S TESTED			

TOTAL NO. OF JOINTS	261	DATE LAST SONOSCOPED	DEC 68
ELAPSED TIME		PRESSURE	

FOOTAGE DRILLED SINCE LAST SONOSCOPED		TOTAL FOOTAGE DRILLED	5268
RESULTS	OK	LAST CALIPER DATE	
RESULTS		CODE LETTER OF STRING	
TOTCO RING ON BIT NO.			

TOOLPUSHER J. Nikkel

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECC

DATE March 20/70 REF 18

WELL NAME Dome et al Little Grand 121-60W-45-13

DATE March 20/70

RIG NO. Three

LOCATION LSD. SEC. TWP. RGE.

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

	MANUFACTURER	TYPE	STROKE LENGTH
NO. 1	Emsco	D500	16
NO. 2	Oilwell	214P	14

EACH EMPLOYEE MUST SIGN THIS BOOK

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
5140	70	5210	6 3/4	135m	4 6 3/4 / 12 2 1/4	55m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
	8	35613	46	35613	230	Mar 18	5130		3

NO.	DRILLING STRING	FT.
48	STANDS	
1	SINGLES	45 27.43 FT.
22	D.C.'S	651.33 FT.
2	SUB X.O.	6.52 FT.
	SUB	FT.
	BIT OR C.B.	FT.
1	Shock	9.45 FT.
	KELLY IN	15.27 FT.
TOTAL		5210.00 FT.

BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
5	8 3/4	1-12 2-11	18493	X1G	30m	105	4809	5210	401	27 1/4					Drlg

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.
WEIGHT	8.9	8.9	8.9	8.9
VISCOSITY	74	79	83	82
PUMP PRESSURE	1400	1400	1400	1400
R.P.M. PUMP NO. 1	60	60	60	60
R.P.M. PUMP NO. 2	ON MIXER	ON MIXER	ON MIXER	ON MIXER
PUMP NO. 1 LINER SIZE	5 1/2		PUMP NO. 2 LINER SIZE	5 1/2

WATER LOSS	FILTER CAKE	PH
6.6	2/32	9.5

ADDITIVES GEL - 2500#, BEN-EX - 10#, CAUSTIC - 50#, CYPAN - 50#

GENERAL REMARKS

	12 MID	4 A.M.
DESANDER		
SUCTION	8.9	8.9
DISCHARGE	8.9	8.9
SUMP	9.3	9.2

REMARKS	START	STOP	INT. VAL	
Rig service & B.O.P. check	12:00	12:15	1/4	
Drill 8 3/4" hole	12:15	6:00	5 3/4	5 3/4
Run surveys @ 5200 Misrun	6:00	7:00	1	
Drill 8 3/4" hole	7:00	8:00	1	1

TOUR NO. 2 — 8 A.M. TO 4 P.M.

	HOURS
DRILLER W. Smith	8
DERRICK H. Thomas	8
FLOOR W. Evach	8
FLOOR D. Halabisky	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
5210	79	5289	7	135m	18 6 1/4	55 cm

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
	8	35613	46	35613	230	Mar 18	5235		2 3/4

NO.	DRILLING STRING	FT.
49	STANDS	
	SINGLES	45 90.69 FT.
22	D.C.'S	651.33 FT.
2	SUB X.O.	6.52 FT.
	SUB	FT.
	BIT OR C.B.	FT.
1	Shock	9.45 FT.
	KELLY IN	31.01 FT.
TOTAL		5289.00 FT.

BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
5	8 3/4	1-12 2-11	18493	X1G	30/35	70/75	4809	5289	480	34 1/4					running

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.
WEIGHT	9.0	8.9	8.9	8.9
VISCOSITY	97	79	80	76
PUMP PRESSURE	1400	1400	1400	1400
R.P.M. PUMP NO. 1	60	60	60	60
R.P.M. PUMP NO. 2				
PUMP NO. 1 LINER SIZE	5 1/2"		PUMP NO. 2 LINER SIZE	5 1/2"

WATER LOSS	FILTER CAKE	PH
6.6	2/32	9.5

ADDITIVES NO STICK - 2 GAL, GEL - 4000#, CYPAN - 50#, BENEX - 16#, CAUSTIC - 50#

GENERAL REMARKS

	8 A.M.	12 NOON
DESANDER		
SUCTION	9.0	8.9
DISCHARGE	8.9	8.9
SUMP	9.3	9.3

Marion Remarks Bbls
Red Line Holdings 23 Hrs.

REMARKS	START	STOP	INT. VAL	
Drill	8:00	9:30	1 1/2	
Survey Rig Ser + B.O.P.'s	9:30	10:30	1	
Drill	10:30	4:00	5 1/2	

TOUR NO. 3 — 4 P.M. TO MIDNIGHT

	HOURS
DRILLER Mitch Boychuk	8
DERRICK J. Campau	8
FLOOR N. Shewchuk	8
FLOOR B. Burgess	8
FLOOR	
FIREMAN	
MECHANIC	
INJURIES	

N.L

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
5289	95	5384	6 3/4	135 m	18 6 1/4	55 cm

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
	8	35613	46	35613	230	3-17-70	5274		3°

NO.	DRILLING STRING	FT.
55	STANDS	46 85.15 FT.
	SINGLES	FT.
22	D.C.'S	651.33 FT.
2	SUB	6.52 FT.
	SUB	FT.
	BIT OR C.B.	FT.
1	Shock	9.45 FT.
	KELLY IN	52.56 FT.
TOTAL		5384.01 FT.

BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
5	8 3/4	1-12 2-11	18493	X1G	55/55	70/75	4809	5374	565	41					

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.
WEIGHT	8.9	8.9	8.9	8.9
VISCOSITY	72	70	73	71
PUMP PRESSURE	1250	1400	1400	1400
R.P.M. PUMP NO. 1	55	59	59	59
R.P.M. PUMP NO. 2	ON	60	60	
PUMP NO. 1 LINER SIZE	5 1/2"		PUMP NO. 2 LINER SIZE	5 1/2"

WATER LOSS	FILTER CAKE	PH
6.9	2/32	10.5

ADDITIVES CYPAN - 50#, NO STIK - 2 GAL, DRISPAC - 75 GAL, GEL - 4600#, 50# Mats. CMC, BENEX - 18#

GENERAL REMARKS

	2 P.M.	8 P.M.
DESANDER	2 P.M.	8 P.M.
SUCTION	8.9	8.9
DISCHARGE	8.8	8.9
SUMP	8.8	9.2

INSTAL NEW STAND PIPE D-105

REMARKS	START	STOP	INT. VAL	
Drill	4 1/4 HRS	5 3/4	1 3/4	
Trip	5 3/4 HRS	5 3/4		
Drill	5 3/4	11 3/4	6	
Drop Tool + Circ	11 3/4	12 1/2	1/2	

DRILL PIPE SIZE	4 1/2	TYPE	X-H
B.O.P.'S TESTED			
TOTAL NO. OF JOINTS	261	DATE LAST SONOSCOPED	Dec 6/69
ELAPSED TIME		FOOTAGE DRILLED SINCE LAST SONOSCOPED	
		PRESSURE	
		TOTAL FOOTAGE DRILLED	36007
		RESULTS	O.K.

LAST CALIPER DATE		RESULTS	CODE LETTER OF STRING
TOTCO RING ON BIT NO.			

TOOLPUSHER G. Hansen

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 19-70 REPORT NO. 17

WELL NAME Bonnie Vol. Little Head 121 - 4620 45 - 13W

DATE March 19-70

RIG NO. ~~Ideal~~ 3

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D500	16"
NO. 2 Gardell	2142	14"

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.	HOURS
DRILLER A Pearson	8
DERRICK B. Ward	8
FLOOR H. Mathe	8
FLOOR E. Protzel	8
FLOOR	
FIREMAN	
MECHANIC	
INJURIES	

LAST CASING SIZE	LAST CASING SET AT
10-3/4	870

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
4809	113	4922	7¼	120,000	4-6¾ 15-6¼	55,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
8	8	3513	46	3513	230	3/18/70	4880	2½

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
45	STANDS	4214.41 FT.	5	8¾	1-12 3-11	18493	X16	22	75	4809	4932	123	7¼					
	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Shock	9.45 FT.																
	KELLY IN	41. FT.																
TOTAL		4922.70 FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.
WEIGHT	9.9	8.9	8.9	8.9
VISCOSITY	132	110	70	61
PUMP PRESSURE	1350	1350	1350	1350
R.P.M. PUMP NO. 1	59	59	59	59
R.P.M. PUMP NO. 2	ON	GUNS		
PUMP NO. 1 LINER SIZE	5½		PUMP NO. 2 LINER SIZE	5½

WATER LOSS	FILTER CAKE	PH
6.0	2/32	9.0

ADDITIVES CAUSTIC 50# HOSTIK 2 gal GEL 2500# BEN-EX 10#

GENERAL REMARKS

DESANDER 12 m.d 4 A.M.
SUCTION 8.9 8.9
DISCHARGE 8.9 8.9
SUMP 9.3 9.2
FUEL TOP H' BOTTOM 7'6"

REMARKS	START	STOP	INTERVAL
Rig service + BOP's	12:00	12:15	¼
Drill	12:15	3:15	3
survey @ 4880 -	3:15	3:45	½
Drill	3:45	8:00	4¼

TOUR NO. 2 8 A.M. TO 4 P.M.	HOURS
DRILLER W Smith	8
DERRICK H. Thomas	8
FLOOR W Cusack	8
FLOOR D Walchuk	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
4922	128	5050	6¾	130,000	4-6¾ 15-6¼	55,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
8	8	3561 3	46	3561 3	230	3/19/70	4953	2½
							5046	2⅞

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
46	STANDS	FT.	5	8¾	1-12 2-11	18493	X16	40/45 30	70	4809	5050	241	14					running
2	SINGLES	4369.18 FT.																
22	D.C.'S	651.33 FT.																
2	SUB XO	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Shock	9.45 FT.																
	KELLY IN	13.52 FT.																
TOTAL		5050.00 FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.
WEIGHT	8.9	8.9	8.9	8.9
VISCOSITY	57	61	64	57
PUMP PRESSURE	1350	1350	1350	1350
R.P.M. PUMP NO. 1	59	59	59	59
R.P.M. PUMP NO. 2	ON	GUNS		
PUMP NO. 1 LINER SIZE	5½"		PUMP NO. 2 LINER SIZE	5½"

WATER LOSS	FILTER CAKE	PH

ADDITIVES BEN-EX - 20# NO-STICK 2 gal GEL - 4100# CAUSTIC #50 CYPAN #50

GENERAL REMARKS

DESANDER 8 A.M. 12 NOON
SUCTION 8.9 8.9
DISCHAGE 8.9 8.9
SUMP 9.3 9.3

REMARKS	START	STOP	INTERVAL
Drill	8:00	8:15	¼
Rig Ser + BOP's	8:15	8:30	¼
Drill	8:30	10:15	1¾
Survey 4953' - 2½°	10:15	10:45	½
Drill	10:45	3:00	4¼
Survey 5046' - 2⅞°	3:00	3:30	½
Drill	3:30	4:00	½

TOUR NO. 3 4 P.M. TO MIDNIGHT	HOURS
DRILLER Mitch Bychuk	8
DERRICK L. Comeau	8
FLOOR N. Shewchuk	8
FLOOR B. Burgess	8
FLOOR	
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
5050	90	5140	6½	132,000	4-6¾ 15-6¼	55,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
8	8	3561 5	46	3561 5	230	3/19/70	5050	3°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
47	STANDS	4432.46 FT.	5	7¾	1-12 2-11	18493	X16	50M	75	4809	5140	331	20½					
1	SINGLES	FT.																
12	D.C.'S	651.33 FT.																
2	SUB XO	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Shock	9.45 FT.																
	KELLY IN	41.00 FT.																
TOTAL		5140' FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.
WEIGHT	8.9	8.8	8.9	8.9
VISCOSITY	62	68	63	75
PUMP PRESSURE	325	1350	1375	1400
R.P.M. PUMP NO. 1	59	60	60	60
R.P.M. PUMP NO. 2				
PUMP NO. 1 LINER SIZE	5½		PUMP NO. 2 LINER SIZE	5½

WATER LOSS	FILTER CAKE	PH
7.2	2/32	10.5

ADDITIVES GEL 4000# BENEX 15# HOSTIK 2 gal. DIESEL 15 gal. CYPAN 100#

GENERAL REMARKS

DESANDER 4 P.M. 9 A.M.
SUCTION 9.9 9.9
DISCHARGE 9.9
SUMP 9.3
Mount Kennedy 21 KMS
RED LINE HOLD LINES 21 KMS

REMARKS	START	STOP	INTERVAL	
DRILL	4:00	6:15	2¼	2¼
RIG SERVICE + BOP CHECK	6:15	6:30	¼	
DRILL	6:30	8:00	1½	1½
TOTCO	8:00	8:30	½	
DRILL	8:30	10:30	2	2½
TOTCO 5150 = 3°	10:30	11:15	¾	
DRILL	11:15	12:00	¾	¾

DRILL PIPE SIZE 2⅞	TYPE X H	TOTAL NO. OF JOINTS 261	DATE LAST SONOSCOPED DEC/68
B.O.P.'S TESTED		ELAPSED TIME	PRESSURE

FOOTAGE DRILLED SINCE LAST SONOSCOPED 358.5
TOTAL FOOTAGE DRILLED 358.5
RESULTS OK

LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

TOTCO RING ON BIT NO. 5

TOOLPUSHER J. Hilland

APPROVED BY J. Hilland

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 19 - 70 REPORT NO. 16

WELL NAME Dennis et al Little Hoard 121° - 60 W - W5° - 13 W

DATE March 19 - 70 RIG NO. Clan LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D-375	16"
NO. 2 Oilwell	3142	14"

LAST CASING SIZE 10 3/4 — LAST CASING SET AT 810

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER A. Pearson	8
DERRICK B. Ward	8
FLOOR B. Day	8
FLOOR N. Mitke	8
FLOOR E. Bodtjel	8
FIREMAN	
MECHANIC	
INJURIES R. Day Banged left knee when going from sub to cat	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
4638	85	4723	6 1/4	117,000	4-6 3/4 / 18-6 1/4	55,000

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
4 1/2	STANDS	4025.14 FT.	4	8 3/4	3-11	575931	STIAG	15	110	4261	4723	462	25 3/4					
	SINGLES	FT.																
22	D.C.'S	651.35 FT.																
2	SUB	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Kelly Cock	9.45 FT.																
	KELLY IN	30.56 FT.																
	TOTAL	4723.60 FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.0	8.9	8.9	8.9	6.2	2/32	9.5
VISCOSITY	70	65	64	61			
PUMP PRESSURE	1400	1400	1400	1400			
R.P.M. PUMP NO.1	60	60	60	60			
R.P.M. PUMP NO.2	ON	GUNS					

ADDITIVES GEL-4200# BEN-EX-6# CAUSTIC-50# CYPAN-50# NO STIK 2 gal

PUMP NO. 1 LINER SIZE 5 1/2 — PUMP NO. 2 LINER SIZE 5 1/2

GENERAL REMARKS

	12 MID	4 A.M.
DESANDER		
SUCTION	9.0	8.9
DISCHARGE	8.9	8.9
SUMP	9.3	9.3

Fuel Top 60" bottom 72"

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
	8	35458	46	36092	226	3-9-70	4660	3°
							4690	3°

REMARKS	START	STOP	INTERVAL
Rig service + BOPs	12:00	12:15	1/4
Drill	12:15	1:45	1 1/2
survey	1:45	2:15	1/2
Drill	2:15	5:00	2 3/4
survey	5:00	5:30	1/2
Drill	5:30	8:00	2 1/2

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER W. Smith	12
DERRICK H. Thomas	8
FLOOR W. Evach	12
FLOOR D. Halabisky	12
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
4723	77	4800	6 3/4	118,000	4-6 3/4 / 18-6 1/4	55,000

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
44	STANDS	4119.43 FT.	4	8 3/4	3-11	575931	STIAG	20/30	75	4261	4800	539	32 1/2					
	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
2	SUB XO	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Kelly Cock	9.45 FT.																
	KELLY IN	13.27 FT.																
	TOTAL	4800.00 FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	8.9	8.9	8.9	8.8	6.4	2/32	9.5
VISCOSITY	70	64	56	64			
PUMP PRESSURE	1400	1400	1400	1400			
R.P.M. PUMP NO.1	60	60	60	60			
R.P.M. PUMP NO.2	ON	GUNS					

ADDITIVES WATER NO-STICK - 2 GAL CAUSTIC ~~50#~~ 100# GEL 300# CYPAN - 50#

PUMP NO. 1 LINER SIZE 5 1/2" — PUMP NO. 2 LINER SIZE 5 1/2"

GENERAL REMARKS

	8 AM	12 AM
DESANDER		
SUCTION	8.9	5.9
DISCHARGE	8.9	8.9
SUMP	9.2	9.3

Check Fire Extinguishers

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
	8	35458	46	36092	226	3-9-70	4733	3°
							4765	3°

REMARKS	START	STOP	INTERVAL
Drill	8:00	8:30	1/2
Survey, Rig Service + B.O.P's	8:30	9:15	3/4
Drill	9:15	12:00	2 3/4
Survey	12:00	12:30	1/2
Drill	12:30	4:00	3 1/2

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER A. Pearson	4
DERRICK B. Comeau	8
FLOOR N. Mitke	4
FLOOR E. Bodtjel	4
FLOOR L. Buggins	8
FIREMAN	
MECHANIC	
INJURIES Pleurisy Left Knee	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
4800	9	4809	1 1/4	120,000	4-6 3/4 / 12-6 1/4	55,000

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
44	STANDS	4119.43 FT.	4	8 3/4	3-11	575931	STIAG	30	75	4261	4809	548	33 3/4					
	SINGLES	FT.	5	8 3/4	2-11 1-12	18493	X16											
22	D.C.'S	651.33 FT.																
2	SUB XO	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Kelly Cock	9.45 FT.																
	KELLY IN	22.27 FT.																
	TOTAL	4809.00 FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY							
PUMP PRESSURE							
R.P.M. PUMP NO.1							
R.P.M. PUMP NO.2							

ADDITIVES CMC 150#

PUMP NO. 1 LINER SIZE 5 1/2" — PUMP NO. 2 LINER SIZE 5 1/2"

GENERAL REMARKS

Drawn Remarks 22 hrs
Red Line Hookings 29 HS

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
	8	35613	46	35613	330	3/18/70	4809	2 7/8°

REMARKS	START	STOP	INTERVAL
Drill	4:00	5:15	1 1/4
Drop Survey	5:15	5:30	1/4
Trip for Bit + Re-Run Collars	5:30	8:15	2 3/4
Rig Service + Fan Clutch	8:15	8:30	1/4
Run In Collars	8:30	9:00	3/4
Cut + Slip 46' Line	9:15	10:15	1
Run In	10:15	12:00	1 3/4

DRILL PIPE SIZE 4 1/2	TYPE XH	TOTAL NO. OF JOINTS 211	DATE LAST SONOSCOPED DEC 68
B.O.P.'S TESTED Blind pipe rams	ELAPSED TIME 15 mins	PRESSURE close open	RESULTS OK

FOOTAGE DRILLED SINCE LAST SONOSCOPED — TOTAL FOOTAGE DRILLED 35472

LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

TOTCO RING ON BIT NO. #5

TOOLPUSHER J. McLean

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 17 - 70 REPORT NO. 15

WELL NAME Ramm Mod Little Bow
121-0-60W 4th - 13-22-14

LOCATION LSD. SEC. TWP. RGE.

DATE March 17 - 70

RIG NO. Three

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

	MANUFACTURER	TYPE	STROKE LENGTH
NO. 1	Emsco	D375	16"
NO. 2	Oilwell	214P	14"

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
4261	89	4350	5 1/2	114,000	4-6 3/4 18-6 1/4	55,000

TRIPS	NO. OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36458	46	36092	276	3-9-70

AT	SURVEYS DEGREES
4260	1 1/2

TOUR NO. 1 MIDNIGHT TO 8 A.M.

		HOURS
DRILLER	A Pearson	8
DERRICK	B. Wood	8
FLOOR	B. Day	8
FLOOR	H Mills	8
FLOOR	E. Brotzel	8
FIREMAN		
MECHANIC		
INJURIES		

EACH EMPLOYEE MUST SIGN THIS BOOK

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
39	STANDS	3641.95 FT.	4	8 3/4	3-11	575931	STIAG	40	55	4261	4350	89	5 1/2					scraped
	SINGLES	FT.																
33	D.C.'S	651.35 FT.																
2	SUB	6.52 FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT			89	90	5.6	2/32	9.5	DESANDER	4 A.M.	6 A.M.					
	BIT OR C.B.	FT.	VISCOSITY			115	76	ADDITIVES	WATER		SUCTION	8.9	9.0					
1	shock	9.45 FT.	PUMP PRESSURE			1300	1300	GEL 2000 #			DISCHARGE	8.9	8.9					
	KELLY IN	35.72 FT.	R.P.M. PUMP NO. 1			60	60	BEN-EX-10 #			SUMP	9.2	9.3					
			R.P.M. PUMP NO. 2	ON	GUNS			NO STIK 2gal			FUEL TOP 75'							
TOTAL	4350.00 FT.		PUMP NO. 1 LINER SIZE	5 1/2		PUMP NO. 2 LINER SIZE	5 1/2				" BOTTOM 30"							

TIME START	TIME STOP	TIME INT. VAL.	REMARKS
12:00	12:15	1/4	Rig service + B.O.P.'s
12:15	2:30	2 1/4	Run in clear Brine at 3000
2:30	8:00	5 1/2	Drill

TOUR NO. 2 8 A.M. TO 4 P.M.

		HOURS
DRILLER	H. Smith	12
DERRICK	H. Thomas	12
FLOOR	W. Cusack	12
FLOOR	D. Kalakirky	12
FLOOR	L. Day	12
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
4350	160	4510	7	115,000	4-6 3/4 18-6 1/4	55,000

TRIPS	NO. OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36458	46	36092	276	3-9-70

AT	SURVEYS DEGREES
4350	1 1/2
4450	2°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
40	STANDS	FT.	4	8 3/4	3-11	575931	STIAG	40	75	4261	4510	249	12 1/2		4502			
2	SINGLES	3803.78 FT.																
32	D.C.'S	651.32 FT.																
2	SUB X O	6.52 FT.	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT	90	9.0	8.9	8.9	6.2	2/32	9.0	DESANDER	8 AM.	12 NOON					
	BIT OR C.B.	FT.	VISCOSITY	68	66	62	64	ADDITIVES	WATER		SUCTION	- 9.0	8.9					
1	shock	9.45 FT.	PUMP PRESSURE	1400	1400	1400	1400	GEL - 5800 #			DISCHARGE	- 9.0	8.9					
	KELLY IN	38.93 FT.	R.P.M. PUMP NO. 1	60	60	60	60	BENEX - 22 #			SUMP	- 9.4	9.3					
			R.P.M. PUMP NO. 2	ON	GUNS			CAUSTIC - 50 #			NO-STICK 2 GAL							
TOTAL	4510.00 FT.		PUMP NO. 1 LINER SIZE	5 1/2"		PUMP NO. 2 LINER SIZE	5 1/2"											

TIME START	TIME STOP	TIME INT. VAL.	REMARKS
8:00	8:15	1/4	Drill
8:15	8:45	1/2	Rig Ser + B.O.P.'s + Survey 4350 1 1/4°
8:45	12:30	3 3/4	Drill
12:30	1:00	1/2	Survey 4450 - 2°
1:00	4:00	3	Drill
			Survey 4512

TOUR NO. 3 4 P.M. TO MIDNIGHT

		HOURS
DRILLER	A Pearson	4
DERRICK	B. Wood	4
FLOOR	B. Day	4
FLOOR	H. Mills	4
FLOOR	E. Brotzel	4
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
4510	128	4638	6 1/2		4-6 3/4 18-6 1/4	55,000

TRIPS	NO. OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	35459	46	36092	276	3-9-70

AT	SURVEYS DEGREES
4512	1 3/4
4572	

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
42	STANDS	3930.18 FT.	4	8 3/4	3-11	575431	STIAG	40	75	4261	4638	377	19					
	SINGLES	FT.																
32	D.C.'S	651.32 FT.																
2	SUB X O	6.52 FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT	8.9	8.9	8.9	8.9	6.6	2/32	9.5	DESANDER	4 P.M.	12 P.M.					
	BIT OR C.B.	FT.	VISCOSITY	65	58	57	69	ADDITIVES	CYPAN 50 #		SUCTION		8.9					
1	shock	9.45 FT.	PUMP PRESSURE	1400	1400	1400	1400	GEL 7500 #			DISCHARGE		8.9					
	KELLY IN	41. FT.	R.P.M. PUMP NO. 1	60	60	60	60	BENEX 30 #			SUMP		9.1					
			R.P.M. PUMP NO. 2		ON	GUNS		NO-STICK 2 gal			Marion Romance 22 hrs							
TOTAL	4638.48 FT.		PUMP NO. 1 LINER SIZE	5 1/2"		PUMP NO. 2 LINER SIZE	5 1/2	CAUSTIC 50 #			RED LINE HARDINGS 33 HRS							

TIME START	TIME STOP	TIME INT. VAL.	REMARKS
4:00	4:15	1/4	Drill
4:15	4:45	1/2	Survey + Rig Ser - B.O.P.'s 4512 - 1 3/4
4:45	7:45	3	Drill
7:45	8:15	1/2	Survey 4572 - Miss Run
8:15	11:30	3 1/4	Drill
11:30	12:00	1/2	survey 10 4630 - 3°

DRILL PIPE SIZE	4 1/2	TYPE	XH
B.O.P.'S TESTED	pipe, blind		

TOTAL NO. OF JOINTS	261	DATE LAST SONOSCOPED	DEC 69
ELAPSED TIME	12 min	FOOTAGE DRILLED SINCE LAST SONOSCOPED	11 c.f.
PRESSURE	1000 psi open	TOTAL FOOTAGE DRILLED	35701
		RESULTS	OK

LAST CALIPER DATE		RESULTS	CODE LETTER OF STRING
TOTCO RING ON BIT NO.	4		

TOOLPUSHER R. Hubbard

APPROVED BY J. Johnston

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 16 - 70 REPORT NO. 14

WELL NAME Bonnie Glen Little Beaver 121° 45W - 60° - 13 W

LOCATION LSD: SEC. TWP. RGE.

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D500	16"
NO. 2 Oilwell	2140	14"

LAST CASING SIZE 10 3/4 — LAST CASING SET AT 810

DATE March 16 - 70 — RIG NO. Howe

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3908	112	4020	7 1/4	107,000	4-6 3/4 / 18-6 1/4	52,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
	8	36332	46	36092	326	3-9-70	3920	1/4

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
36	STANDS	FT.	3	8 3/4	3-11	857603	517AG	40/55	110/72	3642	4020	386	24					
2	SINGLES	3332.91 FT.																
22	D.C.'S	651.33 FT.																
2	SUB X O	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Shock	9.42 FT.																
	KELLY IN	19.69 FT.																

TOTAL 4020.80 FT.

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	8.9	9.0	8.9	8.9	6.4	2/32	9.5
VISCOSITY	61	79	75	78			
PUMP PRESSURE	1400	1400	1400	1400			
R.P.M. PUMP NO.1	60	60	60	60			
R.P.M. PUMP NO.2	ON	GUNS					

ADDITIVES REN-EX - 36# / GEL - 6700# / CAUSTIC - 50# / NO STIK - 2 gal

PUMP NO. 1 LINER SIZE 5 1/2 — PUMP NO. 2 LINER SIZE 5 1/2

GENERAL REMARKS

	12 MID.	4 A.M.
DESANDER 12 AND 4 A.M.		
SUCTION	8.9	8.9
DISCHARGE	8.9	8.9
SUMP	9.2	9.1

Fuel Top 66"
" bottom 46"

REMARKS	START	STOP	INTERVAL
Drill	12:00	12:30	1/2
Rig service - B.O.P's	12:30	12:45	1/4
Drill	12:45	2:00	1 1/4
survey @ 3970 - 1 1/4°	5:00	5:30	1/2
Drill	5:30	8:00	2 1/2

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER A Pearson	8
DERRICK B. Ward	8
FLOOR B. Day	8
FLOOR H. Mitke	8
FLOOR E Rostgel	8
FIREMAN	
MECHANIC	
INJURIES	

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER W. Smith	12
DERRICK N. Thomas	12
FLOOR W. Gvach	12
FLOOR D Halabisky	12
FLOOR A. Day	12
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
4020	155	4175	6 3/4	110,000	4-6 3/4 / 8-6 1/4	55m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
	5	36332	46	36092	276	3-9-70	4078	1 1/8
							4167	1 1/8

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
37	STANDS	FT.	3	8 3/4	3-11	857603	517AG	55m	75	3642	4175	533	30 3/4					
1	SINGLES	3490.43 FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Shock	9.45 FT.																
	KELLY IN	17.27 FT.																

TOTAL 4175.00 FT.

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	8.9	8.9	8.9	8.9	7.4	2/32	9.5
VISCOSITY	78	60	60	65			
PUMP PRESSURE	1400	1400	1400	1350			
R.P.M. PUMP NO.1	60	60	60	59			
R.P.M. PUMP NO.2							

ADDITIVES 15 gals BESIEX / MO-STICK - 2 gal / GEL 3900# / BEN-EX 16# / CAUSTIC 50#

PUMP NO. 1 LINER SIZE 5 1/2" — PUMP NO. 2 LINER SIZE 5 1/2"

GENERAL REMARKS

	8 A.M.	12 P.M.
DESANDER	8.9M	12 P.M
SUCTION	8.9	8.9
DISCHARGE	8.9	8.9
SUMP	9.2	9.3

Change liner & rod packing & flushed side in D 500

REMARKS	START	STOP	INTERVAL
Drill	8:00	8:30	1/2
Rig Ser + B.O.P's	8:30	8:45	1/4
Drill	8:45	10:15	1 1/2
Survey 4072 - 1 1/4°	10:15	10:30	1/4
Drill	10:30	3:00	4 1/2
Survey 4167 - 1 1/8	3:00	3:30	1/2
Drill	3:30	4:00	1/2

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER A Pearson	4
DERRICK B. Ward	4
FLOOR B Day	4
FLOOR H Mitke	4
FLOOR E Rostgel	4
FIREMAN	4
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
4175	86	4261	5	110,000	4-6 3/4 / 12-6 3/4	55m

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
1	4	36428	46	36092	276	3-9-70	4261	

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
38	STANDS	3553.00 FT.	3	8 3/4	3-11	857603	517AG	55	75	3642	4261	619	32 3/4					
	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
2	SUB	6.52 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	shock	9.45 FT.																
	KELLY IN	41.00 FT.																

TOTAL 4261.30 FT.

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	8.9	8.9	8.9			2/32	10.0
VISCOSITY	64	60	129				
PUMP PRESSURE	1350	1350	1350				
R.P.M. PUMP NO.1	60	60	60				
R.P.M. PUMP NO.2	ON	GUNS					

ADDITIVES HI-DIS CHC. 50# / GEL - 4000# / BENEX - 16# / CAUSTIC 50#

PUMP NO. 1 LINER SIZE 5 1/2" — PUMP NO. 2 LINER SIZE 5 1/2"

GENERAL REMARKS

	4 PM	8 PM
DESANDER	4 PM	8 PM
SUCTION	8.9	8.9
DISCHARGE	8.9	8.9
SUMP	9.3	9.2

Marion Remarks 20 hrs
RED LINE HOLDINGS 21 HRS

REMARKS	START	STOP	INTERVAL
Drill	4:00	9:00	5
Rig service - B.O.P's	9:00	9:12	1/4
Pulled survey - Pull out of hole	9:12	11:45	2 1/2
Rig service - B.O.P's	11:45	12:00	1/4

DRILL PIPE SIZE 4 1/2	TYPE XH	TOTAL NO. OF JOINTS 261	DATE LAST SONOSCOPED Dec 65
FOOTAGE DRILLED SINCE LAST SONOSCOPED		TOTAL FOOTAGE DRILLED 34924	
B.O.P.'S TESTED Pipe, Blind rams	ELAPSED TIME 15 min	PRESSURE open, close	RESULTS OK

LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

TOTCO RING ON BIT NO. #4

TOOLPUSHER

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE 5/15/70 REPORT NO. 15

WELL NAME Bander et al Little Soul

DATE 5/15/70 RIG NO. 31

LOCATION LSD. 12 SEC. 11 TWP. 60° RGE. 15W6

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D-375	16
NO. 2 Oilwell	214P	14

LAST CASING SIZE 10 3/4 — LAST CASING SET AT 710

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3642	58	3700	2	105	3 1/2 x 6 1/4	55 M

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
7	36352	46	36092	276	5/12/70	

AT	SURVEYS	DEGREES
3646		1 3/4°
3691		2 3/4°

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER M Tah Boychuk	8
DERRICK C. Cuffaro	8
FLOOR N Shewchuk	8
FLOOR G. Hiebert	8
FLOOR B. Burgess	8
FIREMAN	
MECHANIC	
INJURIES	

Nil

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
92	STANDS	2992.57 FT.	3	7 7/8	3-11	J57663	Speed	30/20	76/126	3642	3700	57	5					
	SINGLES	FT.																
22	D.C.'S	651.33 FT.																
Tric	SUB 6 3/16	5.65 FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
Ch	SUB 6 3/4	2.87 FT.	WEIGHT		BHA Out	8.8	9.1	5.8	2/32	10.0	DESANDER ON 5:00 A.M.							
	SIT. OR C.B.	FT.	VISCOSITY			105	115	ADDITIVES			SUCTION 6 A.M. 9.1							
1	Stk	9.45 FT.	PUMP PRESSURE			1450	1425	Gel. 100#			DISCHARGE 9.0							
1	KELLY IN	41.00 FT.	R.P.M. PUMP NO. 1			55	59	Benex 2#			SUMP 9.2							
			R.P.M. PUMP NO. 2	ON		105		CAUSTIC 50#										
TOTAL		3700.87 FT.	PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE												

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER A Reason	8
DERRICK B. Ward	8
FLOOR B. Day	8
FLOOR H. Miller	8
FLOOR C. Bridgel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3700	115	3815	6 3/4	90M	4-6 3/4, 1-6 1/4	55M

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36332	46	36092	276	5/9/70 5/20/70

AT	SURVEYS	DEGREES
3698		2°
3720		2°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
33	STANDS	3119.09 FT.	3	8 3/4	3-11	857603	STIAG	20/25	110	3642	3815	173	9 3/4					
1	SINGLES																	
22	D.C.'S	651.33 FT.																
2	SUB XO	1.52 FT.	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT	9.1	9.1	9.0	9.0	5.2	3/32	9.0	DESANDER 12 P.M. 4.00							
	BIT OR C.B.	FT.	VISCOSITY	65	63	58	55	ADDITIVES	BEN-EX-12#		SUCTION 9.0 9.1							
1	Stock	9.45 FT.	PUMP PRESSURE	1450	1460	1450	1450	GEL-3100#			DISCHARGE 9.0 9.0							
1	KELLY IN	28.61 FT.	R.P.M. PUMP NO. 1	60	60	60	60	NO STIK-2 gal			SUMP 9.2 9.2							
			R.P.M. PUMP NO. 2	ON	Guns			CAUSTIC-50#										
TOTAL		FT.	PUMP NO. 1 LINER SIZE	5 1/2		PUMP NO. 2 LINER SIZE	5 1/2											

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER W. Smith	8
DERRICK H. Thomas	8
FLOOR W. Cusack	8
FLOOR D. Kalafisky	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3815	93	3908	7 3/4	100M	4-6 3/4, 1-6 1/4	55M

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36332	46	36092	276	5/9/70

AT	SURVEYS	DEGREES
3729		1 1/2°
3787		1 1/2°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
34	STANDS	FT.	3	8 3/4	3-11	857603	STIAG	40	70	3642	3908	266	16 3/4					
V	SINGLES	3210.91 FT.																
22	D.C.'S	651.33 FT.																
2	SUB XO	1.52 FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT	9.1	9.0	8.9	8.9	6.8	3/32	9.5	DESANDER 8 PM.							
	BIT OR C.B.	FT.	VISCOSITY	78	92	70	75	ADDITIVES	WATER		SUCTION 9.0							
1	shock	9.45 FT.	PUMP PRESSURE	1400	1400	1400	1400	GEL - 3700			DISCHARGE 8.9							
	KELLY IN	29.79 FT.	R.P.M. PUMP NO. 1	60	60	60	60	BEN-EX-14#			SUMP 9.2							
			R.P.M. PUMP NO. 2	ON	Guns			ND-STICK-2 GAL			Injuries Remarks 16 hrs							
TOTAL	3908.00	FT.	PUMP NO. 1 LINER SIZE	5 1/2		PUMP NO. 2 LINER SIZE	5 1/2	CAUSTIC 50#			Red Line Hoco Rings 16 hrs							

DRILL PIPE SIZE	4 1/2	TYPE	XH	TOTAL NO. OF JOINTS	261	DATE LAST SONOSCOPED	Dec 68
B.O.P.'S TESTED	Hydril + Pipe rams	ELAPSED TIME	15 min.	PRESSURE	1/2	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED 3458
RESULTS	O.K.	LAST CALIPER DATE		RESULTS		CODE LETTER OF STRING	
TOTCO RING ON BIT NO.	3						

TOOLPUSHER

APPROVED BY

REMARKS	START	STOP	INT VAL
Start Pick up DC.	12:00	1:00	1
Start Pick up Drill pipe	1:00		
Ream Tight hole 2600 - T.D.			
5560		4:00	3
Break Circ	4:00	4:15	1/4
Drill	4:15	5:30	1 1/4
Toco	5:30	6:15	3/4
Drill	6:15	7:00	1 3/4

REMARKS	START	STOP	INT VAL
survey @ 3698 - 2°	8:00	8:30	1/2
Rig service + B.O.P.	8:30	8:45	1/4
Drill	8:45	10:00	1 1/4
survey @ 3720 - 2°	10:00	10:30	1/2
Drill	10:30	4:00	5 1/2

REMARKS	START	STOP	INT VAL
Drill	4:00	4:45	3/4
Rig Service + Survey	4:45	5:15	1/2
Drill	5:15	10:00	4 3/4
Survey 3887 - 1 1/2°	10:00	10:30	1/2
Drill	10:30	12:00	1 1/2

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE 3-14-70 REPORT NO. 12

WELL NAME BARKER ETAL LITTLE JEAN 121° 14W 6° 13 N

LOCATION LSD. SEC. TWP. RGE.

RIG NO. 3

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 EMSCO	D-500	16
NO. 2 OILWELL 214-P		14

LAST CASING SIZE 8⅝ — LAST CASING SET AT 1°C

DATE 3-14-70

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M. — HOURS

DRILLER Mitch Boychuk 8
DERRICK P. Comeau 8
FLOOR N. Sbrenchuk 8
FLOOR G. Hiebert 8
FLOOR B. Burgess 8
FIREMAN
MECHANIC
INJURIES

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3348	92	3440	7	90.M	43 × 6"	45.M

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE
30	STANDS	2867.90 FT.	3	7⅞	2-11 1-10	22623	X19
	SINGLES	FT.					
18	D.C.'S	551.46 FT.					
2	SUB	5.74 FT.					
	SUB	FT.					
	BIT OR C.B.	FT.					
1	Shock	9.45 FT.					
	KELLY IN	25.86 FT.					

TOTAL 3440.00 FT.

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	SURVEYS AT	SURVEYS DEGREES
8	8	36252	46	36092	276	3/9/70	3424	2°

WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
30M	56	3206	3440	234	23½					

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.0	9.0	9.0	8.9	7.2	2/32	9.5
VISCOSITY	110	115	105	125	ADDITIVES BENEX		18#
PUMP PRESSURE	1500	1525	1500	1525	100 STIK. 2gal. 15gal DISEL		
R.P.M. PUMP NO.1	60	60	60	60	CYPAN	50#	
R.P.M. PUMP NO.2	ON GUNS.				GEL. 45 sk.		

PUMP NO. 1 LINER SIZE 5½ — PUMP NO. 2 LINER SIZE

GENERAL REMARKS

DESILTER. 12 MID. 2 AM 6 A.M.
SUCTION 9.0 9.0 9.0
DISCHARGE 8.9 8.9 8.9
SUMP. 9.1 9.1 9.0.
Top Tank 3" @ 6 AM
Btm Tank 3" Full

TIME START	TIME STOP	TIME INT VAL	
	12 00	3	3
12 00	1 00	1	
1 00	6 30	4 3/4	4 3/4
6 00	6 30	½	
6 30	8 00	1½	1½

TOUR NO. 2 8 A.M. TO 4 P.M. — HOURS

DRILLER A. Pearson 12
DERRICK B. Ward 12
FLOOR B. Day 12
FLOOR H. Meikle 12
FLOOR E. Bontgel 12
FIREMAN
MECHANIC
INJURIES

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3440	170	3610	6¾	92.000	13 - 6¼	45.000

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE
31	STANDS	FT.	2	7⅞	2-11 1-10	22623	X10
2	SINGLES	20.23.49 FT.					
18	D.C.'S	531.46 FT.					
2	SUB XO	5.83 FT.					
	SUB	FT.					
	BIT OR C.B.	FT.					
1	Shock	9.45 FT.					
	KELLY IN	39.77 FT.					

TOTAL 3610.00 FT.

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	SURVEYS AT	SURVEYS DEGREES
8	8	36252	46	36092	276	3/9/70	3520	2¼°

WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
30/20	110	3006	3510	504	30¼					

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M	WATER LOSS	FILTER CAKE	PH
WEIGHT	8.9	8.9	8.9	8.9	5.2	2/32	9.5
VISCOSITY	110	119	120	119	ADDITIVES BEN-EX-16#		
PUMP PRESSURE	1500	1500	1500	1500	100 Wastik-2gal-15gal DISEL		
R.P.M. PUMP NO.1	61	61	61	100	CYPAN-100#		
R.P.M. PUMP NO.2	ON	GUNS			GEL-4800# WATER		

PUMP NO. 1 LINER SIZE 5½ — PUMP NO. 2 LINER SIZE 5½ — CAUSTIC-100#

GENERAL REMARKS

DESILTER 8AM 12 P.M. 2 P.M.
SUCTION 8.9 8.9 8.9
DISCHARGE 8.9 8.9 8.9
SUMP 9.0 9.2 9.1

TIME START	TIME STOP	TIME INT VAL	
8 00	9 30	1½	
9 30	10 00	½	
10 00	10 15	¼	
10 15	1 45	3½	
1 45	2 15	½	
2 15	4 00	1¾	

REMARKS

Drill
Survey @ 3475' 2°
Rig service B.O.P's
Drill
Survey @ 3570' 2¼°
Drill

TOUR NO. 3 4 P.M. TO MIDNIGHT — HOURS

DRILLER Mitch Boychuk 4
DERRICK P. Comeau 4
FLOOR N. Sbrenchuk 4
FLOOR G. HIEBERT 4
FLOOR B. BERGESS 4
FIREMAN
MECHANIC
INJURIES

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3610	32	3642	2½	90		45

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE
	STANDS	FT.	2	7⅞	2-11 1-10	22623	X10
	SINGLES	FT.	3	8¾	3-11	85760	
	D.C.'S	622.21 FT.					
TDC	SUB 5½	3.65 FT.					
DA	SUB 6⅝	2.77 FT.					
	BIT OR C.B.	9.45 FT.					
		FT.					
	KELLY IN	FT.					

TOTAL FT.

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	SURVEYS AT	SURVEYS DEGREES
1	8	36252	46	36092	276	3/9/70	3600	2¼

WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
30/20	110	3806	3642	456	32½					
	Reel									

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.0	9.0					
VISCOSITY	124	117			ADDITIVES		
PUMP PRESSURE	1475	1500					
R.P.M. PUMP NO.1	60	61					
R.P.M. PUMP NO.2	ON	Guns					

PUMP NO. 1 LINER SIZE 5½ — PUMP NO. 2 LINER SIZE 5½

GENERAL REMARKS

Morning Remarks 16 Days
RED LINE READINGS ON MUD

TIME START	TIME STOP	TIME INT VAL	
4 00	4 15	¼	
4 15	4 30	¼	
4 45	6 45	2	
6 45	7 00	¼	
7 00			
	12	5	

REMARKS

Rig service - B.O.P's
Survey @ 3600' 2¼
Drill
Mixing Mud
Pull out of hole for Coring
Lay down

DRILL PIPE SIZE	4½	TYPE	X-H
B.O.P.'S TESTED	Hydril + Pipe		

TOTAL NO. OF JOINTS 361 — DATE LAST SONOSCOPED 3/C 6E — FOOTAGE DRILLED SINCE LAST SONOSCOPED 3305 — TOTAL FOOTAGE DRILLED

ELAPSED TIME 1½ — PRESSURE NIL — RESULTS

LAST CALIPER DATE — RESULTS — CODE LETTER OF STRING

TOT.CO-RING ON BIT NO.

TOOLPUSHER

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 13/70 REPORT NO. 11

WELL NAME Dome Flat Mobil Pembina 11-14-62-13W5

DATE March 13 RIG NO. Rig 1 LOCATION LSD. SEC. TWP. RGE.

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

	MANUFACTURER	TYPE	STROKE LENGTH
NO. 1	Emsco	D-500	16"
NO. 2	Gardner	7148	14"

LAST CASING SIZE	LAST CASING SET AT
10 3/4	610

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3006	34	3090	7 1/2	46,000	3 - 6 3/4, 18 - 5 1/4	45,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
6	36	232 ~~233~~	46	36092	276	March 9			

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER W. Smith	8
DERRICK P. Comeau	8
FLOOR N. Shewchuk	8
FLOOR G. Hiebert	8
FLOOR B. Burgess	8
FIREMAN	
MECHANIC	
INJURIES	

EACH EMPLOYEE MUST SIGN THIS BOOK

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
97	STANDS	2574.47 FT.	2	8 3/4	3-11, 1-10	22623	X16	45	75	3006	3090	84	9 1/2					
	SINGLES	FT.																
18	D.C.'S	531.46 FT.																
2	SUB X0	5.83 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Check	9.46 FT.																
	KELLY IN	18.37 FT.																
TOTAL		3090.00 FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT			9.0	9.0			10.0
VISCOSITY			230	200			
PUMP PRESSURE				1950			
R.P.M. PUMP NO. 1				60			
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE	5 1/2		PUMP NO. 2 LINER SIZE	6"			

ADDITIVES: GEL - 400#; BENEX - 7#; 2 gal. No-STIK; 43 cal DIESEL

GENERAL REMARKS: Top Fuel Tank 4'-2"; Bottom Fuel Tank 3'-0"

TIME START	TIME STOP	TIME INT VAL	REMARKS
12:00	12:15	1/4	Rig Service - check B.O.P.'s
12:15	2:15	2	Ream & wash 60' to bottom
			Circ. at 3220'
2:15	5:30	3 1/4	Condition mud & trip for bit
5:30	7:00	1 1/2	Drill

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER A. Cairns	12
DERRICK B. Ward	12
FLOOR B. Day	12
FLOOR N. Smith	12
FLOOR E. Bratzel	12
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3090	150	3240	7 1/4	88,000	3 - 6 3/4, 15 - 5 1/4	45,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
8	36252	46	36092	276	March 9		3600		1/2°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
38	STANDS	3582.50 FT.	2	8 3/4	3-11, 1-10	22623	X16	45	75	3006	3240	234	9 3/4					
	SINGLES	FT.																
18	D.C.'S	531.46 FT.																
2	SUB X0	5.83 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Check	9.48 FT.																
	KELLY IN	20.76 FT.																
TOTAL		3240 FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	90	90	90	91	6.0	2/32	9.5
VISCOSITY	110	118	123	120			
PUMP PRESSURE	1500	1500	1500	1500			
R.P.M. PUMP NO. 1	60	60	60	60			
R.P.M. PUMP NO. 2	ON	GUNS					
PUMP NO. 1 LINER SIZE	5 1/2		PUMP NO. 2 LINER SIZE	5 1/2			

ADDITIVES: GEL - 2300#; CAUSTIC - 160#; BEN-EX - 8#; CYFAN - 120#; WR-TIP - 2 gal; D-15 Diesel

GENERAL REMARKS: N.A.M. 2 P.M. [illegible]

TIME START	TIME STOP	TIME INT VAL	REMARKS
8:00	8:30	1/2	D-11
8:30	8:45	1/4	Rig service - B.O.P.'s
8:45	3:15	6 1/2	No. 11
3:15	3:45	1/2	Survey @ 3235' misrun
3:45	4:00	1/4	Drill

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER Mitch Baychuk	4
DERRICK P. Comeau	4
FLOOR N. Shewchuk	4
FLOOR G. Hiebert	4
FLOOR B. Burgess	4
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3240	108	3348	6 1/4	90 M	3 - 6 3/4, 12 - 5 1/4	42 M

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
8	36252	46	36092	276	5-9-10		3300		1 3/4°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	2775.54 FT.	2	8 3/4	3-11, 1-10	22623	X16	45	55	3006	3348	342	16 1/2					
	SINGLES	FT.																
18	D.C.'S	531.46 FT.																
2	SUB	5.23 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
1	Check	9.45 FT.																
	KELLY IN	2.57 FT.																
TOTAL		3348.00 FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	9.1	9.0	9.0	9.1	7.0	2/32	9.0
VISCOSITY	124	120	97	100			
PUMP PRESSURE	1500	[illegible]	[illegible]	[illegible]			
R.P.M. PUMP NO. 1	60	60	60	60			
R.P.M. PUMP NO. 2	ON	GUNS					
PUMP NO. 1 LINER SIZE	5 1/2		PUMP NO. 2 LINER SIZE	5 1/2			

ADDITIVES: RED LINE HOLDINGS 16 HRS; Mason Nomade 16 hrs; BENEX 10#; CYFAN 50#; No-STIK 2 gal; Diesel 15 gal

GENERAL REMARKS: [illegible]

TIME START	TIME STOP	TIME INT VAL	REMARKS
14:00	15:30	1 1/2	No. 11
15:30	16:00	1/2	survey @ 3260'
16:00	16:15	1/4	Rig Service + B.O.P.'s
16:15	[illegible]	[illegible]	Drill
[illegible]	17:30	1/2	[illegible]
18:30	12:00	5 1/2	Drill

DRILL PIPE SIZE 4 1/2 TYPE X-H

30 JTS. TESTED

TOTAL NO. OF JOINTS 346

DATE LAST SONOSCOPED

FOOTAGE DRILLED SINCE LAST SONOSCOPED

ELAPSED TIME

PRESSURE

TOTAL FOOTAGE DRILLED 3168

RESULTS

LAST CALIPER DATE

RESULTS

GOOD LETTER-OF STRING

TOTCO RING ON BIT NO.

TOOLPUSHER

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 12/70 REPORT NO. 10

WELL NAME Banner Stal Little Gravel 120°14'W - 60°13'N

DATE March 12/70

RIG NO. "Ideal"

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

	MANUFACTURER	TYPE	STROKE LENGTH
NO. 1	Emsco	D500	16"
NO. 2	Ideco	214-P	14"

LAST CASING SIZE	LAST CASING SET AT
10 3/4"	810'

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
		3006				

TRIPS	NO. OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
	8	36138	46	36092	276	Mar 9			

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.	2.	8 3/4	2-11 1-10	22623	X16			3005								
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
		FT.																
TOTAL		FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.
WEIGHT	8.9	8.9	8.9	9.0
VISCOSITY	180	165	195	225
PUMP PRESSURE			450	450
R.P.M. PUMP NO. 1			42	70
R.P.M. PUMP NO. 2				

WATER LOSS ____ FILTER CAKE ____ PH 10

ADDITIVES GEL 1200#

GENERAL REMARKS

Top fuel tank 5"

Bottom fuel tank 2'-11"

PUMP NO. 1 LINER SIZE 5 1/2" PUMP NO. 2 LINER SIZE 5 1/2"

REMARKS

	START	STOP	INT VAL
Working over fish	12:00	5:00	8

TOUR NO. 1 MIDNIGHT TO 8 A.M.

EACH EMPLOYEE MUST SIGN THIS BOOK

	HOURS
DRILLER W Smith	8
DERRICK H Thomas	8
FLOOR W. Swack	8
FLOOR D. Halabisky	8
FLOOR U. Day	8
FIREMAN	
MECHANIC	
INJURIES	

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER J. Elliott	8½
DERRICK P. Conners	8
FLOOR N. Shewchuk	8
FLOOR G. Fielder	8
FLOOR B. Burgess	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT

TRIPS	NO. OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
		FT.																
TOTAL		FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.
WEIGHT				
VISCOSITY				
PUMP PRESSURE				
R.P.M. PUMP NO. 1				
R.P.M. PUMP NO. 2				

WATER LOSS ____ FILTER CAKE ____ PH ____

ADDITIVES

GENERAL REMARKS

PUMP NO. 1 LINER SIZE ____ PUMP NO. 2 LINER SIZE ____

REMARKS

	START	STOP	INT VAL
Lay down D.C.	5:00	5:30	½
Pull out slow	8:30	12:00	3½
Pick up fish tool	1:00	1:00	1
Run in with fishing tool	2:00	4:00	2
Jar fish loose	4:00	5:00	1

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER A. Pearson	8
DERRICK B Wanel	8
FLOOR B Day	8
FLOOR H. Mitke	8
FLOOR C. Bratzel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
		3006				

TRIPS	NO. OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
1	8	36252	46	36092	276	Mar 9			

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
		FT.																
TOTAL		FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.
WEIGHT				
VISCOSITY				
PUMP PRESSURE				
R.P.M. PUMP NO. 1				
R.P.M. PUMP NO. 2				

WATER LOSS ____ FILTER CAKE ____ PH ____

ADDITIVES

GENERAL REMARKS

Warren Resources 7 Hrs

PUMP NO. 1 LINER SIZE ____ PUMP NO. 2 LINER SIZE ____

REMARKS

	START	STOP	INT VAL
Try to screw into fish	4:00	5:30	1½
Fill out slow up fish +	5:30		
Lay down 2 D.C.		10:30	5
Lay down wash pipe	10:30		
Load fishing tools		11:30	1
Wash on plugged N.C.	11:30	12:00	½

DRILL PIPE SIZE 4½	TYPE XH	TOTAL NO. OF JOINTS 361	DATE LAST SONOSCOPED
FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED 2156	LAST CALIPER DATE	RESULTS
B.O.P.'S TESTED	ELAPSED TIME	PRESSURE	RESULTS
TOTCO RING ON BIT NO.		COOL CUTTER OF STRING	

TOOLPUSHER W Burns

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 11/70 REPORT NO. 9

WELL NAME Beaver Hat Lake Ground
121° 14' W · 60° 13' N

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D500	16"
NO. 2 Oilwell	214-P	14"

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3006				9 1/4 000	5-6 3/4 16-6 1/4	55,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36092	46	36092	276	Mar. 9

AT SURVEYS	DEGREES

REMARKS

Wait for work over pipe

TIME START	TIME STOP	TIME INT. VAL
12.00	7.00	8

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER W. Smith	12
DERRICK N. Thomas	12
FLOOR W. Cwoch	12
FLOOR D. Halabisky	12
FLOOR A. Day	12
FIREMAN	
MECHANIC	
INJURIES	

EACH EMPLOYEE MUST SIGN THIS BOOK

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.	2	8 3/4	1-10 2-11	22623	X16											
	SINGLES	FT.																
21	D.C.'S	623.99 FT.																
2	SUB 10	5.83 FT.																
1	SUB stab	4.43 FT.																
	BIT OR C.B.	FT.																
1	shock	9.45 FT.																
	KELLY IN	FT.																
TOTAL		FT.																

	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS
MUD WEIGHT	8.9	8.9	8.9	8.9	7.8	2/32	10.0	Sq. fuel tank 5'8"
VISCOSITY	120	150	155	125	ADDITIVES	GEL - 210		Bottom fuel tank 1'2"
PUMP PRESSURE								
R.P.M. PUMP NO. 1								
R.P.M. PUMP NO. 2								

PUMP NO. 1 LINER SIZE 5 1/2" PUMP NO. 2 LINER SIZE 5 1/2"

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER J. Elliott	12
DERRICK P. Lemire	12
FLOOR N. Skwarchuk	12
FLOOR D. Hiebert	12
FLOOR R. Burgess	12
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36092	46	36092	276	Mar. 9

AT SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
TOTAL	3006	FT.																

	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS
MUD WEIGHT	9.7	9.8					10.5	
VISCOSITY	200	180			ADDITIVES			
PUMP PRESSURE								
R.P.M. PUMP NO. 1								
R.P.M. PUMP NO. 2								

PUMP NO. 1 LINER SIZE PUMP NO. 2 LINER SIZE

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER	
DERRICK	
FLOOR	
FLOOR	
FLOOR	
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
				74,000		

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36138	46	36092	276	Mar. 9

AT SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
TOTAL		FT.																

	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS
MUD WEIGHT			9.8	9.8			10.5	Marion Romaniuk Thurs
VISCOSITY			190	180	ADDITIVES			
PUMP PRESSURE			250	250				
R.P.M. PUMP NO. 1								
R.P.M. PUMP NO. 2								

TRIPPING

PUMP NO. 1 LINER SIZE 5 1/2" PUMP NO. 2 LINER SIZE 5 1/2"

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	COOL LETTER OF STRING
4 1/2	XH				32088			

B.O.P.'S TESTED ____ ELAPSED TIME ____ PRESSURE ____ RESULTS ____ TOTCO RING ON BIT NO. ____

REMARKS

	TIME START	TIME STOP	TIME INT. VAL
Start on work over	8.00	12.30	4 1/2
Unload washover string	12.30	1.00	1/2
Pull out of Hole	1.00	2.00	1
Pick up work over string	2.00	3.00	1
Rih Tag slow	3.00	4.00	1
Pull 2 stds slow	4.00	4.30	1/2
Ream with washover string to fish	4.30	9.00	5
Washing over fish	9.30	12.00	3

TOOLPUSHER W. Smith

APPROVED BY E. Corbett

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 10/70 REPORT NO. 2

WELL NAME Banner etal Little Arrow

121°45'W - 60°13'W

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

RIG NO. 2 Ideal

DATE March 10/70

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D-500	16"
NO. 2 Gardwell	214-P	14"

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3005		3006		94,000	5-6 3/4 12-6 1/4	55,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
	8	36092	46	36092	276	March 9			

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER W. Smart	12
DERRICK N. Thomas	12
FLOOR W. Ewach	12
FLOOR D. Halabisky	12
FLOOR A. Day	12
FIREMAN	
MECHANIC	
INJURIES	

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
25	STANDS	FT.	2	8 3/4	2-11 1-10	22623	X16											
	SINGLES	FT.																
21	D.C.'S	623.99 FT.																
2	SUB XO	5.83 FT.																
1	SUB stab	4.43 FT.																
	BIT OR C.B.	FT.																
1	Shock	9.45 FT.																
	KELLY IN	23.65 FT.																

	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS
	WEIGHT	8.4	8.4	8.5	8.8	7.4		10.0	Top fuel tank Full
	VISCOSITY	50	45	90	140	ADDITIVES			Bottom fuel tank 1'5"
	PUMP PRESSURE					GEL 46 lbs			
	R.P.M. PUMP NO. 1								
	R.P.M. PUMP NO. 2								

TOTAL 3006.00 FT. PUMP NO. 1 LINER SIZE 5 1/2 PUMP NO. 2 LINER SIZE 5 1/2

TIME START	TIME STOP	TIME INT VAL	REMARKS
12.30	4.00	8	Stuck in hole
			WAITON FISH TOOLS

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER J. Elliott	12
DERRICK P. Conrad	12
FLOOR V. Shuchuk	12
FLOOR H. Hebert	12
FLOOR K. Burgess	12
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
		3006			5-6 3/4 16-6 1/4	55,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
	8	36092	46	36092	276	March 9			

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
25	STANDS	FT.	2	8 3/4	2-11 1-10	22623	X16			3005								
	SINGLES	FT.																
21	D.C.'S	623.99 FT.																
2	SUB XO	5.83 FT.																
1	SUB Stab	4.43 FT.																
	BIT OR C.B.	FT.																
1	Shock	9.45 FT.																
	KELLY IN	FT.																

	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS
	WEIGHT								
	VISCOSITY	250	125	105	125	ADDITIVES			
	PUMP PRESSURE								
	R.P.M. PUMP NO. 1								
	R.P.M. PUMP NO. 2								

TOTAL 3006 FT. PUMP NO. 1 LINER SIZE 5 1/2 PUMP NO. 2 LINER SIZE 5 1/2

TIME START	TIME STOP	TIME INT VAL	REMARKS
	2.00	6	Stuck in hole
2.00	3.30	5	WAITON FISHING TOOLS
2.30	3.30	1	Rig up Fishing Tools
3.30	4.00	½	Hook up Fishing T
			Back off Fish
			Lay Down Drill Collars

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER	
DERRICK	
FLOOR	
FLOOR	
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
					5-6 3/4 16-6 1/4	55,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
	8	36092	46	36092	276	March 9			

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.	2	8 3/4	1-10 2-11	22623	X16			3005								
	SINGLES	FT.																
21	D.C.'S	623.99 FT.																
2	SUB XO	5.83 FT.																
1	SUB Stab	4.43 FT.																
	BIT OR C.B.	FT.																
1	Shock	9.45 FT.																
	KELLY IN	FT.																

	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS
	WEIGHT		9.9	8.9	8.9			11	
	VISCOSITY	125	47	67	97	ADDITIVES			
	PUMP PRESSURE					Gel 3 1/2 bbl			
	R.P.M. PUMP NO. 1					CAUSTIC 5#			
	R.P.M. PUMP NO. 2								

TOTAL 3006 FT. PUMP NO. 1 LINER SIZE 5 1/2" PUMP NO. 2 LINER SIZE 5 1/2

TIME START	TIME STOP	TIME INT VAL	REMARKS
4.00	12.00	8	Lay Down Drill Collars
			Volume

DRILL PIPE SIZE 5 1/2	TYPE XH	TOTAL NO. OF JOINTS 261	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED 3368	LAST CALIPER DATE	RESULTS / CODE LETTER OF STRING
B.O.P.'S TESTED		ELAPSED TIME	PRESSURE	RESULTS	TOTCO RING ON BIT NO.		

TOOLPUSHER W. Smart

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE MARCH 8/70 REPORT NO. 7

WELL NAME BANNER ET AL LITTLE CROW 121°45' W - 60° 13' W

DATE MARCH 9 & 10/70

RIG NO. 3

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AN ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 EMSCO	D500	16
NO. 2 OILWELL	214P	14

EACH EMPLOYEE MUST SIGN THIS BOOK

LAST CASING SIZE	LAST CASING SET AT
10 3/4	810

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3005		3005		94,000	5-6 3/4, 4-6 1/4	55,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
1	8	36092	46	36092	276	Mar. 9	3000	2°

TOUR NO. 1 MIDNIGHT TO 8 A.M. — HOURS

		HOURS
DRILLER	A. PARSON	8
DERRICK	B. WARD	8
FLOOR	B. WAY	8
FLOOR	H. MARTIN	8
FLOOR	F. BIOTZI	8
FIREMAN		
MECHANIC		
INJURIES		

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
24	STANDS	FT.	1	7 7/8	3-11	12165	X15											
2	SINGLES	2307.73 FT.	2	7 7/8	3-11	22623	X16			3005								
21	D.C.'S	623.99 FT.																
2	SUB XO	5.83 FT.																
1	SUB Stab	4.43 FT.																
	BIT OR C.B.	FT.																
1	Shock	9.45 FT.																
	KELLY IN	41. FT.																
TOTAL		2988.81 FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY							
PUMP PRESSURE							
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE							
PUMP NO. 2 LINER SIZE							

ADDITIVES

GENERAL REMARKS

Lost Circulation - 1/4
1/4
MARS 2307 79
BARO 2306 23
OFF 1.56
Fuel for 48 hr. Tom 40"
No CORR. 066 ON COLLARS NO CORR.

REMARKS	START	STOP	INTERVAL
Mix mud	12	1	1
Lay down bottom hole assy	1		
pick up fishing tools			
check unit + service rig		4	3
clean all mud tanks	4	5	1
Rig out	5	6	1
Run 7"	6	7	1 1/4
Clean to Run	7 1/2	8	1/2

TOUR NO. 2 8 A.M. TO 4 P.M. — HOURS

		HOURS
DRILLER	W. Smith	8
DERRICK	H. Thomas	8
FLOOR	W. Cusack	8
FLOOR	D. Kalabishy	8
FLOOR	A. Day	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3005				94,000	5-6 3/4, 4-6 1/4	55,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
	8	36092	46	36092	276	Mar. 9		

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
25	STANDS	2335.65 FT.	2	8 3/4	2-11, 1-10	22623	X16											
	SINGLES	FT.																
21	D.C.'S	623.99 FT.																
2	SUB XO	5.83 FT.																
1	SUB Stab.	4.43 FT.																
	BIT OR C.B.	FT.																
1	Shock	9.45 FT.																
	KELLY IN	23.65 FT.																
TOTAL		3006.60 FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY							
PUMP PRESSURE							
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE 5 1/2"							
PUMP NO. 2 LINER SIZE 5 1/2"							

ADDITIVES CELOPHANE 20 LBS.
GEL 103 SAX
NO STICK - 1/2 BAL
DIESEL - 20 BAL

GENERAL REMARKS

REMARKS	START	STOP	INTERVAL
Clean to Bottom	8:00	8:30	1/2
No returns condition mud x circ.	8:30		
Stuck pipe		4:00	7 1/2

TOUR NO. 3 4 P.M. TO MIDNIGHT — HOURS

		HOURS
DRILLER	J. E. Elliott	8
DERRICK	P. Comeau	8
FLOOR	M. Churchill	8
FLOOR	B. Burgess	8
FLOOR	L. Hiebert	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
3005		3005		94	5-6 3/4, 4-6 1/4	55

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
	8	36092	46	36092	276	Mar. 9		

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
25	STANDS	2335.65 FT.	2	8 3/4	2-11, 1-10	22623	X16			3005								
	SINGLES	FT.																
21	D.C.'S	623.99 FT.																
2	SUB XO	5.83 FT.																
1	SUB Stab	4.43 FT.																
	BIT OR C.B.	FT.																
1	Shock	9.45 FT.																
	KELLY IN	FT.																
TOTAL		3006.60 FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT	8.4	8.4	8.4				
VISCOSITY	83	45	47				
PUMP PRESSURE	200	200					
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE 5 1/2							
PUMP NO. 2 LINER SIZE 6 1/2							

ADDITIVES

GENERAL REMARKS

K.B. Line Hanger 1 ft.
Mousehole 19 hrs

REMARKS	START	STOP	INTERVAL
Stuck in Hole			
Work pipe out Trouble 4:00 PM 8			

DRILL PIPE SIZE 4 1/2	TYPE X H	TOTAL NO. OF JOINTS 261	DATE LAST SONOSCOPED
FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED 3366	LAST CALIPER DATE	RESULTS
CODE LETTER OF STRING	B.O.P.'S TESTED	ELAPSED TIME	PRESSURE
RESULTS	TOTCO RING ON BIT NO.		

TOOLPUSHER

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE April 6/70 — WELL NAME Banner Et Al Little Grosse — DATE April 6 — REPORT NO. 35

RIG NO. 3 — LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____ — 120° 18' W 60° 15' N

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1		
NO. 2		

LAST CASING SIZE ____ LAST CASING SET AT ____

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES

NO	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
	TOTAL	FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.
WEIGHT				
VISCOSITY				
PUMP PRESSURE				
R.P.M. PUMP NO. 1				
R.P.M. PUMP NO. 2				
PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE	

WATER LOSS ____ FILTER CAKE ____ PH ____

ADDITIVES

GENERAL REMARKS

REMARKS	TIME START	TIME STOP	TIME INT. VAL
TEAR OUT RIG + CAMP	12m	8a	8 hrs

TOUR NO. 1 MIDNIGHT TO 8 A.M. — EACH EMPLOYEE MUST SIGN THIS BOOK

	HOURS
DRILLER Wm. Gustafson	16
DERRICK N. Thomas	8
FLOOR W. Enach	8
FLOOR D. Nalifiski	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER M. Boychuk	12
DERRICK J. Pimbabi	8
FLOOR N. Sewchuk	12
FLOOR H. Smith	12
FLOOR H. Lizotte	12
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
	TOTAL	FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.
WEIGHT				
VISCOSITY				
PUMP PRESSURE				
R.P.M. PUMP NO. 1				
R.P.M. PUMP NO. 2				
PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE	

WATER LOSS ____ FILTER CAKE ____ PH ____

ADDITIVES

GENERAL REMARKS

REMARKS	TIME START	TIME STOP	TIME INT. VAL
TEAR OUT RIG + CAMP	4a	4a	12 hrs

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER R. Verschoor	8
DERRICK B. Ward	8
FLOOR H. Mathe	8
FLOOR R. Verschoor	8
FLOOR E. Bretzel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
	TOTAL	FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.
WEIGHT				
VISCOSITY				
PUMP PRESSURE				
R.P.M. PUMP NO. 1				
R.P.M. PUMP NO. 2				
PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE	

WATER LOSS ____ FILTER CAKE ____ PH ____

ADDITIVES

GENERAL REMARKS

REMARKS	TIME START	TIME STOP	TIME INT. VAL
TEAR OUT RIG + CAMP	8a	4a	8 hrs

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

B.O.P.'S TESTED ____ ELAPSED TIME ____ PRESSURE ____ RESULTS ____ TOTCO RING ON BIT NO. ____

TOOLPUSHER J. Hillaby

APPROVED BY ____

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 7-71 REPORT NO. 5

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

DATE March 7-71 WELL NAME Beaver Lodge Cattle 4-wd 12-1-W5-W - 60-13-07

RIG NO. # 3 LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PUMPS

	MANUFACTURER	TYPE	STROKE LENGTH
NO. 1	Emsco	D-550	14"
NO. 2	Emsco	D-550	14"

LAST CASING SIZE 8 5/8 LAST CASING SET AT 310

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER N Lemon	8
DERRICK R Wood	8
FLOOR R Ware	8
FLOOR H. McCle	8
FLOOR E Bartel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
1000	227	1227	6	10,000	6-6 1/4 1-6 1/4	55,000		7	36017	46	35837	322	Feb 27	1100	1°
														1190	1°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
5	STANDS	FT.	7	8 3/4	2-11 1-10	22615	X16	50	75	1000	1227	227	6					Reamed 1
2	SINGLES	179.35 FT.																
22	D.C.'S	651.38 FT.																
2	SUB X O	5.83 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	41 FT.																

TOTAL 1227.76 FT. PUMP NO. 1 LINER SIZE 5 1/2 PUMP NO. 2 LINER SIZE 5 1/2

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.
WEIGHT		8.5	8.6	8.5
VISCOSITY		28	28	28
PUMP PRESSURE		1200	1200	1200
R.P.M. PUMP NO.1		60	60	60
R.P.M. PUMP NO.2		ON	Guns	

WATER LOSS ____ FILTER CAKE ____ PH ____ ADDITIVES ____

GENERAL REMARKS: Fuel for 32" " bottom 44"

REMARKS	START	STOP	INTERVAL
Rig'd out & Cleaned Mud Tanks	12:00		
Drill to 1100'		1:30	1 1/2
Rig'd up & Lubricated Rig	1:30	3:00	1 1/2
Survey @ 1100'	3:00	3:30	1/2
Drill	3:30	6:30	3
Survey @ 1190'	6:30	6:45	1/4
Drill	6:45	8:00	1 1/4

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER W Smart	8
DERRICK H. Thomas	8
FLOOR W Cowell	8
FLOOR D Kalatsky	8
FLOOR A Day	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
1227	358	1585	7 1/2	75,000	6-6 3/4 14-6 1/4	55,000		8	36012	46	35836	322	Feb 22	1390	7/8°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
9	STANDS	FT.	7	8 3/4	2-11 1-10	22615	X16	50	75	1000	1585	585	13 1/2					
2	SINGLES	905.57 FT.																
22	D.C.'S	651.38 FT.																
2	SUB X O	5.83 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	22.22 FT.																

TOTAL 1585.00 FT. PUMP NO. 1 LINER SIZE 5 1/2" PUMP NO. 2 LINER SIZE 5 1/2"

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.
WEIGHT	8.5	8.6	8.5	8.6
VISCOSITY	28	28	28	28
PUMP PRESSURE	1200	1250	1250	1250
R.P.M. PUMP NO.1	60	60	60	60
R.P.M. PUMP NO.2				

WATER LOSS ____ FILTER CAKE ____ PH ____ ADDITIVES ____

GENERAL REMARKS

REMARKS	START	STOP	INTERVAL
Rig Service + Check BOP	8:00	8:15	1/4
Drill	8:15	12:45	4 1/2
Survey	12:45	1:00	1/4
Drill	1:00	4:00	3

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER J E Elliott	8
DERRICK P Lemaire	8
FLOOR N. Shadlock	8
FLOOR L Lubay	8
FLOOR B Bilyea	8
FIREMAN —	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
1585	423	2008	7 1/4	85,000	6-6 3/4 16-6 1/4	55,000		8	36012	~~46~~	~~35836~~	322	Feb 22	1600	3/4°
														1900	1°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
14	STANDS	1312.57 FT.	1	8 3/4	2-11 1-10	22615	X16	35/50	75	1000	2008	1008	20 3/4					Rung
	SINGLES	FT.																
22	D.C.'S	651.38 FT.																
2	SUB	5.83 FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	41 FT.																

TOTAL 2008.72 FT. PUMP NO. 1 LINER SIZE 5 1/2 PUMP NO. 2 LINER SIZE 5 1/2

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.
WEIGHT	9.7	8.7	8.7	8.7
VISCOSITY	31	31	28	31
PUMP PRESSURE	250	1300	1300	1325
R.P.M. PUMP NO.1	60	60	60	61
R.P.M. PUMP NO.2				

WATER LOSS ____ FILTER CAKE ____ PH ____ ADDITIVES ____

GENERAL REMARKS: RED LINE HOLDINGS 21 hrs. MARVIN ROMANKO 21 hrs.

REMARKS	START	STOP	INTERVAL	
Drill 8 3/4 Hole	4:00	4:15	1/4	1/4
Survey at 1600	4:15	4:30	1/4	1/2
Drill 8 3/4 Hole	4:30	6:45	2 1/4	2 1/2
Ser Rig & Check BOP	6:45	7:00	1/4	
Drill 8 3/4 Hole	7:00	9:30	2 1/2	7 1/2
Survey at 1900	9:30	9:45	1/4	
Drill 8 3/4 Hole	9:45	12:00	2 1/4	7 1/4

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING
4 1/2	XH				3264			

B.O.P.'S TESTED Daily ELAPSED TIME 7 hrs PRESSURE 2000 RESULTS OK TOTCO RING ON BIT NO. ____

TOOLPUSHER R. Wood

APPROVED BY J Johnston

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 6 - 20 REPORT NO. 4

WELL NAME Bow Isl 10th Unit

121° 45 W - 05 - 13 W

DATE March 6 - 20

RIG NO. 3

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D570	11"
NO. 2 Gardner	214P	14"

LAST CASING SIZE: 10 3/4 — LAST CASING SET AT: 810

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.	HOURS
DRILLER A. Pearson	8
DERRICK B. Ward	8
FLOOR B. Day	8
FLOOR H. McRae	8
FLOOR E. Brodgen	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.	MUD	12 M.D.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT															
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES										
		FT.	PUMP PRESSURE															
	KELLY IN	FT.	R.P.M. PUMP NO.1															
			R.P.M. PUMP NO.2															
TOTAL		FT.	PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE													

REMARKS	TIME START	TIME STOP	TIME INT VAL
cut core + mud up	12:00		
Rod Trans. to 6			
1200 PST		5:00	5
Lay up B.H.A. + Magnet	5:00		
up		6:00	3

TOUR NO. 2 8 A.M. TO 4 P.M.	HOURS
DRILLER W. Smith	12 8
DERRICK H. Thomas	8
FLOOR W. Church	8
FLOOR D. Walabicky	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES
								8	36012	46	35936	322	Feb 22			

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT								Maxam Remarks 15 hrs							
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES			Rod Line Hooking Up 11 hrs							
		FT.	PUMP PRESSURE															
	KELLY IN	FT.	R.P.M. PUMP NO.1															
			R.P.M. PUMP NO.2															
TOTAL		FT.	PUMP NO. 1 LINER SIZE 5 1/2		PUMP NO. 2 LINER SIZE 5 1/2													

REMARKS	TIME START	TIME STOP	TIME INT VAL
Nipple up	8:00	4:00	8

TOUR NO. 3 4 P.M. TO MIDNIGHT	HOURS
DRILLER A. Pearson	4
DERRICK P. Corriveau	4
FLOOR N. Schaufele	4
FLOOR B. Lucky	4
FLOOR G. Pinguen	4
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.	1	9 7/8	2-11	22615	X16											
	SINGLES	FT.																
22	D.C.'S	631.32 FT.																
2	SUB X11	415 FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT								Press Test Blind Rams & Manifold							
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES			To 1000 P.S.I Held O.K.							
		FT.	PUMP PRESSURE								Test Pipe Rams To 1500 P.S.I. Held O.K							
	KELLY IN	FT.	R.P.M. PUMP NO. 1								Test Hydril To 1500 Held O.K							
			R.P.M. PUMP NO. 2					Motor Shut off OK Kelly valve O.K.										
TOTAL		FT.	PUMP NO. 1 LINER SIZE 5 1/2		PUMP NO. 2 LINER SIZE 5 1/2			Top of Cement at 771			Judge							

REMARKS	TIME START	TIME STOP	TIME INT VAL
Nipple up + Pressure test	4:00	7:00	3
Pick up D.C.'s	7:00	11:00	4
Run Test Pipe rams + Hyd. Kill	11:00		
check Kelly valve		12:00	1

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

B.O.P.'S TESTED ____ ELAPSED TIME ____ PRESSURE ____ RESULTS ____ TOTCO RING ON BIT NO. ____

TOOLPUSHER J. Hibbard

APPROVED BY J. Johnston

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 2 - 70 REPORT NO. 3

WELL NAME Bonanza Gal 6 Blk. Unit
121° - 43' W - 60° - 13' W

DATE March 2 - 70

RIG NO. # 3

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

	MANUFACTURER	TYPE	STROKE LENGTH
NO. 1	Emsco	D300	16"
NO. 2	Gardner	214P	14"

LAST CASING SIZE: ____ LAST CASING SET AT: ____

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.	HOURS
DRILLER A. Pearson	8
DERRICK B. Wood	8
FLOOR B. Day	8
FLOOR H. Mitke	8
FLOOR E. Bodtel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
613	105	718	3½	30,000	6 - 6¼ 2 - 6¼	31,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
1	8	3601.2	46	3533.6	322	Feb 22	790	1°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
3	STANDS	FT.	2A	7 7/8	1-30 2-18	HH476	XV	13/15	120	613	1000	387	11½					
1	SINGLES	313.99 FT.	3A	15"	open	N771	OSC3	15	120	613	718	105	2½					
12	D.C.'S	351.57 FT.																
2	SUB X O	5.83 FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
1	SUB BELL	2.58 FT.	WEIGHT								Top - 4'6"							
1	BIT OR C.B.	FT.	VISCOSITY	70	73		110	ADDITIVES			Bottom - 3'10"							
1	REAMER	4.20 FT.	PUMP PRESSURE	400	400		600											
	KELLY IN	FT.	R.P.M. PUMP NO. 1	61	61		61				K.B. TO GROUND 14.10							
			R.P.M. PUMP NO. 2	ON	Guns		62											
TOTAL	718.77 FT.		PUMP NO. 1 LINER SIZE	5½		PUMP NO. 2 LINER SIZE	5½											

REMARKS	TIME START	TIME STOP	TIME INTERVAL
Nu-11 8¾" hole	12.00	3.00	3
Rig service	3.00	3.15	¼
Rig repair	3.15	3.30	¼
Pull out of pipe 12" hole - hole	3.30		
repair		5.30	2
Ream 8¾" Ream 8¾ to 15" hole	5.30	8.00	2½

TOUR NO. 2 8 A.M. TO 4 P.M.	HOURS
DRILLER W. Smith	8
DERRICK H. Thomas	8
FLOOR W. Ewack	8
FLOOR D. Walaliuk	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
718	92	810	2	50,000	5 - 6¾ 2 - 6¼	31,000

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
1	8		46	3533.6	322	Feb 22	719	1°
							810	1°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
4	STANDS	FT.	3A	15"	open	4871	OSC-3	15/20	120	613	810	197	4½					
1	SINGLES	41.49 FT.																
12	D.C.'S	351.57 FT.																
2	SUB X O	5.83 FT.	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
1	SUB B.H.	2.58 FT.	WEIGHT								Ran 25 Jts H40 8RD NEW CASING SET AT 810 K.B. Equip - Lime 5 BBL W.T. Baker Guide, Float collar & 3 Centralizers Cemented W/ 750 Neat 2% CaCl. @ 15 - 15.5 P.P.G. Plug Down @ 6 P.M. Mar 5/70 30 BBLS Good Returns							
1	BIT OR C.B.	1.00 FT.	VISCOSITY	90	93	140		ADDITIVES										
1	REAMER	4.20 FT.	PUMP PRESSURE	650	650	650												
	KELLY IN	39.56 FT.	R.P.M. PUMP NO. 1	61	61	61												
			R.P.M. PUMP NO. 2	70	70	70												
TOTAL	810.00 FT.		PUMP NO. 1 LINER SIZE	5½"		PUMP NO. 2 LINER SIZE	5½"											

REMARKS	TIME START	TIME STOP	TIME INTERVAL
Survey & Rig Service	8.00	8.15	¼
Ream 8¾ hole to 15"	8.15	10.15	2
Make Dummy Trip (hole tight work pipe)	10.15		
Clean 5' fill		11.15	1
Circ prior to running casing	11.15	12.15	1
Drop survey & pull out to run casing	12.15	1.00	¾
Rig up & run casing	1.00	1.30	½
Running casing	1.30	4.00	2½

TOUR NO. 3 4 P.M. TO MIDNIGHT	HOURS
DRILLER J. Elliott	8
DERRICK P. Lemieux	8
FLOOR N. Skrypchak	11
FLOOR A. Lukey	11
FLOOR B. Burgess	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT								Warren Ramsorbe 16 hrs							
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES			K&O Land Holdings 16 hrs							
		FT.	PUMP PRESSURE															
	KELLY IN	FT.	R.P.M. PUMP NO. 1															
			R.P.M. PUMP NO. 2															
TOTAL		FT.	PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE												

REMARKS	TIME START	TIME STOP	TIME INTERVAL
Run Casing	4.00	4.30	½
Circ & Cond	4.30	5.15	¾
Run T.G.	5.15	6.00	¾
W.O.C.	6.00	12.00	6

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

B.O.P.'S TESTED ____ ELAPSED TIME ____ PRESSURE ____ RESULTS ____ TOTCO RING ON BIT NO. ____

TOOLPUSHER J. Hilborn

APPROVED BY [signature]

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 4-70 REPORT NO. 2

WELL NAME Pan Am Ind Little Bear

LOCATION NE SW - 60° - 13W LSD. ____ SEC. ____ TWP. ____ RGE. ____

DATE March 4-70

RIG NO. # 3

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

	MANUFACTURER	TYPE	STROKE LENGTH
NO. 1	Emsco	D300	16"
NO. 2	Gardner	214P	14"

LAST CASING SIZE	LAST CASING SET AT

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER A Pearson	8
DERRICK B. Ward	8
FLOOR B. Bray	8
FLOOR H. Mitts	8
FLOOR E. Bratfel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO. OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
317	190	507	9¼	50,000	5-6¾ 2-6¼	44,000		8	36012		35556	322	Feb 22		

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
1	STANDS	FT.	1A	15	open	9429	OSC3	15/25	120	0	507	507	19¾					
1	SINGLES	125.63 FT.																
12	D.C.'S	351.58 FT.																
1	SUB XO	2.18 FT.																
1	SUB XO	3.65 FT.																
	BIT OR C.B.	1.00 FT.																
1	BELL	2.38 FT.																
	KELLY IN	21.38 FT.																
TOTAL		507.00 FT.																

	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.
	WEIGHT				
	VISCOSITY	51	49	44	46
	PUMP PRESSURE	400	400	400	400
	R.P.M. PUMP NO.1	61	61	61	61
	R.P.M. PUMP NO.2	64	64	64	64

WATER LOSS | FILTER CAKE | PH | ADDITIVES WATER LIME 15#

PUMP NO. 1 LINER SIZE 5½ PUMP NO. 2 LINER SIZE 5½

GENERAL REMARKS: Fuel top 69" bottom 46"

TIME START	TIME STOP	TIME INT VAL	REMARKS
12:00	1:30	1½	Drill
1:30	1:45	¼	Survey @ 370' ½°
1:45	5:00	3¼	Drill
5:00	5:15	¼	Survey @ 430' ½°
5:15	8:00	2¾	Drill

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER W. Smith	8
DERRICK H. Thomas	8
FLOOR W. Cwach	8
FLOOR D. Kalabisky	8
FLOOR A. Day	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO. OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
507	153	660	16	50,000	5-6¾ 2-6¼	44,000		8	36012	46	35556	322	Feb 22	559	½°
														653	1°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
3	STANDS	282.81 FT.	1A	15	open	9429	OSC-3	30	120	0	613	6.13	24½					
	SINGLES	FT.	2A	8¾	1-20 2-18	HH476	XV	20m	120	613	660	47	1¼	RR	RW			
12	D.C.'S	351.38 FT.																
1	SUB XO	3.63 FT.																
1	SUB XO	2.18 FT.																
1	BIT ~~OR C.B.~~ Dart	2.95 FT.																
	KELLY IN	16.83 FT.																
TOTAL		660.00 FT.																

	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.
	WEIGHT				
	VISCOSITY	47	48	50	53
	PUMP PRESSURE	400	400	400	375
	R.P.M. PUMP NO.1	61	61	61	61
	R.P.M. PUMP NO.2	64	64	64	46

WATER LOSS | FILTER CAKE | PH | ADDITIVES WATER LIME 5#

PUMP NO. 1 LINER SIZE 5½ PUMP NO. 2 LINER SIZE 5½

GENERAL REMARKS

TIME START	TIME STOP	TIME INT VAL	REMARKS
8:00	8:30	½	Drill 12" hole
8:30	8:45	¼	Rig Service
8:45	10:00	1¼	Drill
10:00	10:15	¼	Survey @ 559' ½°
10:15	1:15	3	Drill
1:15			Pull out & double measure out
	2:30	1¼	Run in w/ 8¾ Bit to pilot
2:30	3:30	1	Drill 8¾ hole
3:30	3:45	¼	Survey 653 1°
3:45	4:00	¼	Drill 8¾ hole

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER J. Elliott	8
DERRICK P. Thomas	8
FLOOR N. Skewchuk	8
FLOOR S. Lickey	8
FLOOR B. Burgess	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO. OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES
160	238	898	7	48,000	5 X6¾ 1 X6¼	31,000		8	36012	46	35556	322	Feb 22	650	1°
														710	1°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
5	STANDS	FT.	2A	8¾	1-20 2-18	HH476	XV	15/30	120	613	898	285	8¼	RR	RW			
1	SINGLES	497.44 FT.													710			1/8
12	D.C.'S	351.58 FT.													830			¾°
1	SUB XO	3.65 FT.																
1	SUB XO	2.18 FT.																
1	BIT OR C.B. SUB	2.95 FT.																
	KELLY IN	41 FT.																
TOTAL		898.80 FT.																

	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.
	WEIGHT				
	VISCOSITY	58	75	100	100
	PUMP PRESSURE	375	375	375	400
	R.P.M. PUMP NO.1	62	62	62	62
	R.P.M. PUMP NO.2				

WATER LOSS | FILTER CAKE | PH | ADDITIVES

PUMP NO. 1 LINER SIZE 5½ PUMP NO. 2 LINER SIZE 5½

GENERAL REMARKS: Mavin Romanko 10 hrs

TIME START	TIME STOP	TIME INT VAL	REMARKS
4:00	4:30	½	Drill 8¾ Surface Hole
4:30	4:45	¼	Survey at 680
4:45	6:45	2	Drill 8¾ Surface Hole
6:45	7:00	¼	Survey at 710
7:00	9:00	2	Drill 8¾ Surface Hole
9:00	9:15	¼	Survey at 790
9:15	10:30	1¼	Drill 8¾ Surface Hole
10:30	10:45	¼	Survey at 850
10:45	12:00	1¼	Drill 8¾ Surface Hole

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING
4½	XH							

BOP'S TESTED | ELAPSED TIME | PRESSURE | RESULTS | TOTCO RING ON BIT NO.

TOOLPUSHER J. McGee

APPROVED BY J. Gilbertson

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 3 - 10 REPORT NO. 1

WELL NAME Bow Isl. Ville Stewart 121° 42' W - 60° 13' N

DATE March 3 - 10

RIG NO. # 3

LOCATION LSD. SEC. TWP. RGE.

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

	MANUFACTURER	TYPE	STROKE LENGTH
NO. 1	Emsco	D375	16"
NO. 2	Oil Well	214E	14"

LAST CASING SIZE: LAST CASING SET AT:

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER R Rasmussen	8
DERRICK R Wood	8
FLOOR B Guy	8
FLOOR H. Wells	8
FLOOR E Brogel	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	9	36012	46	35836	322	Feb 22

AT SURVEYS DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.	1A	15"	open	9429	OSC3			0								
	SINGLES	FT.																
	D.C.'S	FT.																
1	SUB XO	2.18 FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
1	SUB XO	3.65 FT.	WEIGHT															
	BIT OR C.B.	1.00 FT.	VISCOSITY					ADDITIVES										
	Bell	2.55 FT.	PUMP PRESSURE					GEL-350#										
	KELLY IN	FT.	R.P.M. PUMP NO.1															
			R.P.M. PUMP NO.2															
TOTAL		FT.	PUMP NO. 1 LINER SIZE 5½		PUMP NO. 2 LINER SIZE 5½													

REMARKS	TIME START	TIME STOP	TIME INT VAL
Rig to Spud + Mix Mud	12[00]	8[00]	8

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER W Smith	8
DERRICK H Thomas	8
FLOOR W. Swack	8
FLOOR D Halahay	8
FLOOR L Day	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
0	199	199	7		6 6¾	

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36012	46	35836	322	Feb 22

AT SURVEYS DEGREES: 50' 1/8°; 90' 1/2°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.	1A	15"	open	9429	OSC3	10M	120	0	199	199	7		120	—	½°	
	SINGLES	FT.													200	—	½	
6	D.C.'S	178.76 FT.																
1	SUB XO	2.18 FT.	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
1	SUB XO	3.65 FT.	WEIGHT								SPUD @ 8 A.M.							
1	BIT OR C.B.	1.00 FT.	VISCOSITY	38	47	48	50	ADDITIVES										
1	Bell	2.55 FT.	PUMP PRESSURE	300	300	300	350	GEL = 1000										
	KELLY IN	10.73 FT.	R.P.M. PUMP NO.1	62	62	62	62	LIME										
			R.P.M. PUMP NO.2			65	65											
TOTAL	199.00	FT.	PUMP NO. 1 LINER SIZE 5½"			PUMP NO. 2 LINER SIZE 5½"												

REMARKS	TIME START	TIME STOP	TIME INT VAL
Spud in - Drill	8[00]	10[45]	2¾
Survey @ 50' 1/8°	10[45]	11[00]	¼
Drill	11[00]	12[15]	1¼
Survey 90' 1/2°	12[15]	12[30]	¼
Drill	12[30]	1[45]	1¼
Survey 120' - 1/2°	1[45]	2[00]	¼
Drill	2[00]	3[45]	1¾
~~Trips~~ Survey 200'	3[45]	4[00]	¼

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER J. E Wiatt	8
DERRICK P. Comeau	8
FLOOR N. Shewchuk	8
FLOOR S Lukey	8
FLOOR B Burgess	8
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT
199	118	317	5¼	46	6 6¾	

TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT
	8	36012	46	35836	322	Feb 22

AT SURVEYS DEGREES: 280 ¼°

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.	1A	15"	open	9429	OSC3	10	120	0	317	317	12¼				Ream	
	SINGLES	FT.																
10	D.C.'S	294.19 FT.																
1	SUB XO	2.18 FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
1	SUB XO	3.65 FT.	WEIGHT	8.9	8.9	8.9	8.9				LEA LAKE HOLDINGS 21hrs.							
	BIT OR C.B.	1.00 FT.	VISCOSITY	45	43	45	48	ADDITIVES			MARVIN KOMARKO 21hrs.							
1	Bell	2.55 FT.	PUMP PRESSURE	350	350	375	375	ZINC 10#										
	KELLY IN	14 FT.	R.P.M. PUMP NO.1	62	62	62	62											
			R.P.M. PUMP NO.2	65	65	65	65											
TOTAL	317.22	FT.	PUMP NO. 1 LINER SIZE 5½			PUMP NO. 2 LINER SIZE 5½												

REMARKS	TIME START	TIME STOP	TIME INT VAL	
Drill 15" Surface Hole	4[00]	7[00]	3	3
Change Rotating Head	7[00]	7[30]	½	
Drill 15" Surface Hole	9[30]	10[30]	1	1
Survey @ 250'	10[30]	10[45]	¼	
Drill 15" Surface Hole	10[45]	12[00]	1¼	1¼

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

B.O.P.'S TESTED ELAPSED TIME PRESSURE RESULTS TOTCO RING ON BIT NO.

TOOLPUSHER

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 2/70 REPORT NO.

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1 Emsco	D-Eoo	16"
NO. 2 Bilwell	214-P	14"

LAST CASING SIZE | LAST CASING SET AT

DATE March 2/70

WELL NAME Exmoor Tal Little Head
12°45' N 60°13' N

RIG NO. Ideco

LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER T. Pearson	9
DERRICK B. Ward	9
FLOOR G. Day	9
FLOOR N. Mills	9
FLOOR E. Bastyn	9
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT															
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES										
		FT.	PUMP PRESSURE															
	KELLY IN	FT.	R.P.M. PUMP NO.1															
			R.P.M. PUMP NO.2															
TOTAL		FT.	PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE													

REMARKS	TIME START	TIME STOP	TIME INT VAL
Rig up	8:00	5:00	9½

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER W. Smith	14
DERRICK T. Thomas	14
FLOOR W. Circosh	14
FLOOR D. Kolabitsky	14
FLOOR A. Day	14
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT								START Baker @ 1 P.M March 2/70							
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES										
		FT.	PUMP PRESSURE															
	KELLY IN	FT.	R.P.M. PUMP NO.1															
			R.P.M. PUMP NO.2															
TOTAL		FT.	PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE													

REMARKS	TIME START	TIME STOP	TIME INT VAL
Pour derrick & rig up	8:00	4:00	8

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER J. Elliott	8
DERRICK R. Comeau	16
FLOOR N. Schaufnuck	16
FLOOR L. Lucky	16
FLOOR B. Burgess	16
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT															
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES										
		FT.	PUMP PRESSURE															
	KELLY IN	FT.	R.P.M. PUMP NO. 1															
			R.P.M. PUMP NO. 2															
TOTAL		FT.	PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE													

REMARKS	TIME START	TIME STOP	TIME INT VAL
Rig up & get ready to spud	4:00	8:00	8

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

B.O.P.'S TESTED | ELAPSED TIME | PRESSURE | RESULTS | TOTCO RING ON BIT NO.

TOOLPUSHER T. Pearson

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE March 1/70 REPORT NO.

WELL NAME Conwest Rail Mile Hand 171°45'W 60°23'N.

DATE March 1/70

RIG NO. Thor

LOCATION LSD. SEC. TWP. RGE.

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1		
NO. 2		

LAST CASING SIZE	LAST CASING SET AT

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.

	HOURS
DRILLER A. Pearson	10
DERRICK D. Ward	10
FLOOR B. Day	10
FLOOR H. Metz	10
FLOOR E. Bastgac	10
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT															
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES										
		FT.	PUMP PRESSURE															
	KELLY IN	FT.	R.P.M. PUMP NO. 1															
			R.P.M. PUMP NO. 2															
TOTAL		FT.	PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE												

REMARKS	TIME START	TIME STOP	TIME INT VAL
Unload Trucks + rig up	8:00	6:00	10

TOUR NO. 2 8 A.M. TO 4 P.M.

	HOURS
DRILLER W. Smith	10
DERRICK N. Thomas	10
FLOOR G. Cwach	10
FLOOR D. Wolodisky	10
FLOOR G. Day	11
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT															
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES										
		FT.	PUMP PRESSURE															
	KELLY IN	FT.	R.P.M. PUMP NO. 1															
			R.P.M. PUMP NO. 2															
TOTAL		FT.	PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE												

REMARKS			
Unload Trucks + rig up	8:00	6:00	10

TOUR NO. 3 4 P.M. TO MIDNIGHT

	HOURS
DRILLER J. Elliott	10
DERRICK J. Comeau	10
FLOOR N. Shuchat	10
FLOOR L. Lukey	10
FLOOR B. Burgin	10
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT															
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES										
		FT.	PUMP PRESSURE															
	KELLY IN	FT.	R.P.M. PUMP NO. 1															
			R.P.M. PUMP NO. 2															
TOTAL		FT.	PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE												

REMARKS			
Unload Trucks + rig up.	4:00	6:00	10

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

B.O.P.'S TESTED	ELAPSED TIME	PRESSURE	RESULTS	TOTCO RING ON BIT NO.

TOOLPUSHER

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE FEB 28/70 REPORT NO.

WELL NAME Banner ET AL HITLER CROWL DATE Feb 28/70

121° 45' W. 60° 10' N

RIG NO. Three LOCATION LSD. SEC. TWP. RGE.

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1		
NO. 2		

LAST CASING SIZE	LAST CASING SET AT

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.	MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT															
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES										
		FT.	PUMP PRESSURE															
	KELLY IN	FT.	R.P.M. PUMP NO.1															
			R.P.M. PUMP NO.2															
TOTAL		FT.	PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE												

REMARKS	TIME START	TIME STOP	TIME INT VAL
Unload Trucks	4:00	4:00	8

TOUR NO. 1 MIDNIGHT TO 8 A.M.

		HOURS
DRILLER	J. PEARSON	8
DERRICK	B. WARD	8
FLOOR	B. DAY	8
FLOOR	H. METKE	8
FLOOR	E. BROTZEL	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.	MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT															
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES										
		FT.	PUMP PRESSURE															
	KELLY IN	FT.	R.P.M. PUMP NO.1															
			R.P.M. PUMP NO.2															
TOTAL		FT.	PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE												

REMARKS	TIME START	TIME STOP	TIME INT VAL
Un Load Trucks	4:00	4:00	8

TOUR NO. 2 8 A.M. TO 4 P.M.

		HOURS
DRILLER	W. SMITH	10
DERRICK	N. THOMAS	9
FLOOR	W. EWACH	8
FLOOR	D. HALLIBISHI	9
FLOOR	A. DAY	8
FIREMAN		
MECHANIC		
INJURIES		

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.	MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH	GENERAL REMARKS							
	SUB	FT.	WEIGHT															
	BIT OR C.B.	FT.	VISCOSITY					ADDITIVES										
		FT.	PUMP PRESSURE															
	KELLY IN	FT.	R.P.M. PUMP NO.1															
			R.P.M. PUMP NO.2															
TOTAL		FT.	PUMP NO. 1 LINER SIZE			PUMP NO. 2 LINER SIZE												

REMARKS	TIME START	TIME STOP	TIME INT VAL
Unload Trucks	8:00	4:00	8

TOUR NO. 3 4 P.M. TO MIDNIGHT

		HOURS
DRILLER	J. ELLIOTT	8
DERRICK	P. COMEAU	8
FLOOR	N. SEWCHOK	8
FLOOR	S. HOWEY	8
FLOOR	B. BURGESS	8
FIREMAN		
MECHANIC		
INJURIES		

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

B.O.P.'S TESTED	ELAPSED TIME	PRESSURE	RESULTS	TOTCO RING ON BIT NO.

TOOLPUSHER J. Hallibard

APPROVED BY

REGENT DRILLING LIMITED

DAY WORK RECORD

DATE _____ REPORT NO. _____

DATE FEB 27/70 WELL NAME RENNER

RIG NO. THREE LOCATION LSD. ____ SEC. ____ TWP. ____ RGE. ____

PLEASE SHOW FOOTAGE MADE WHILE "CONTROL DRILLING" AS WELL AS HOURS AND ALSO RECORD CORE CUTTERS, CATCHERS, SWAB RUBBERS, ETC.

PUMPS

MANUFACTURER	TYPE	STROKE LENGTH
NO. 1		
NO. 2		

LAST CASING SIZE	LAST CASING SET AT

EACH EMPLOYEE MUST SIGN THIS BOOK

TOUR NO. 1 MIDNIGHT TO 8 A.M.	HOURS
DRILLER A. PEARSON	10
DERRICK B. WARD	10
FLOOR B. DAY	10
FLOOR H. METKE	10
FLOOR E. BROTZEL	10
FIREMAN	
MECHANIC	

INJURIES

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
TOTAL		FT.																

MUD	12 MID.	2 A.M.	4 A.M.	6 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY					ADDITIVES		
PUMP PRESSURE							
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE					

GENERAL REMARKS

REMARKS	TIME START	TIME STOP	TIME INT. VAL.
LOAD OUT	8:00		
MOVE & RIG UP CAMP		6:00	10

TOUR NO. 2 8 A.M. TO 4 P.M.	HOURS
DRILLER W. SMITH	10
DERRICK H. THOMAS	10
FLOOR W. FWACH	10
FLOOR D. NALLBISH	10
FLOOR N. DAY	10
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
TOTAL		FT.																

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY					ADDITIVES		
PUMP PRESSURE							
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE					

GENERAL REMARKS

REMARKS	TIME START	TIME STOP	TIME INT. VAL.
LOAD OUT	8:00		
MOVE & RIG UP CAMP		6:00	10

TOUR NO. 3 4 P.M. TO MIDNIGHT	HOURS
DRILLER J. ELLIOTT	10
DERRICK P. CONRAD	10
FLOOR N. SEMCHUK	10
FLOOR S. HURLEY	10
FLOOR B. BURGESS	10
FIREMAN	
MECHANIC	
INJURIES	

FROM	FOOTAGE	TOTAL DEPTH	HOURS ON BOTTOM	DRILL PIPE WEIGHT	NO. AND SIZE OF D.C.'S	D.C. WEIGHT	TRIPS	NO OF LINES	TOTAL TON MILES	LINE CUT FEET	AT MILES	FEET LEFT ON SPOOL	DATE OF LAST CUT	AT	SURVEYS	DEGREES

NO.	DRILLING STRING		BITS RUN NO.	SIZE	NOZZLE SIZE	SERIAL NO.	TYPE	WEIGHT	RPM	FOOTAGE FROM	FOOTAGE TO	FOOTAGE	HOURS	CORED FROM	CORED TO	REAMED FROM	REAMED TO	CONDITION
	STANDS	FT.																
	SINGLES	FT.																
	D.C.'S	FT.																
	SUB	FT.																
	SUB	FT.																
	BIT OR C.B.	FT.																
		FT.																
	KELLY IN	FT.																
TOTAL		FT.																

MUD	4 P.M.	6 P.M.	8 P.M.	10 P.M.	WATER LOSS	FILTER CAKE	PH
WEIGHT							
VISCOSITY					ADDITIVES		
PUMP PRESSURE							
R.P.M. PUMP NO. 1							
R.P.M. PUMP NO. 2							
PUMP NO. 1 LINER SIZE		PUMP NO. 2 LINER SIZE					

GENERAL REMARKS

REMARKS	TIME START	TIME STOP	TIME INT. VAL.
LOAD OUT MOVE & RIG UP CAMP		6:00	10

DRILL PIPE SIZE	TYPE	TOTAL NO. OF JOINTS	DATE LAST SONOSCOPED	FOOTAGE DRILLED SINCE LAST SONOSCOPED	TOTAL FOOTAGE DRILLED	LAST CALIPER DATE	RESULTS	CODE LETTER OF STRING

B.O.P.'S TESTED	ELAPSED TIME	PRESSURE	RESULTS	TOTCO RING ON BIT NO.

TOOLPUSHER J. Hubbard

APPROVED BY _____