

CS LAFERTE RIVER

A-66

WELL NAME CS Laferte River A-66
FIELD Wildcat Area:
LOCATION: Unit A Section 66 Grid 61-50 - 118-30
Latitude 61-45-07.5 Longitude 118-41-29.0625
From Established Reference Marker

U. W. I. A. - 61-75208 - 118.69141
U. W. I. No. 300A666150118300

Rig Release Date: 8-4-67
Status DIA
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
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	Data for Back Pressure Test on Natural Gas Wells — Monograph 7 Method.
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	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
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	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

WELL COMPLETION DATA

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

Well name and number CS LAFORTE RIVER A-66

Permit No. 4058

Leave No.

Canada-Cities Service Patr. Corp. Exploratory Licence No. 1022
(Permittee, Licensee, Lessee)

Canada-Cities Service Petr. Corp. Exploratory Licence No. 1022

Location: Unit A Section 66

Grid 61°50' N Lat 118°30' W Long

Latitude 61°45' 7.5" N

Longitude 118°41' 29.0625" W

From Established Reference Marker

From Established Reference Marker
 Universal Well Location Reference: Lat. 61.75200⁰ N. Long. 118.69141⁰ W

	DATE	DEPTH
Spudded.....	Mar 23/67	
Suspended.....		
Resumed.....		
Finished Drilling.....	Apr 8/67	1870'
Deepened.....		
Complets (gas/oil).....		
Abandoned.....	Apr 8/67	
Rig released.....	Apr 8/67	

Pool (Σ)

Interval(s) open to production

Elevation: Gr. 823'

K.B. 830'

Drilling Contractor & Rig No. Tri-City Drig., Co. Rig#7

Contractor's Business Licence No. 18121

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Bbl at—	Sacks of Cement and Additives
5"	T&C		238.37'	238.37'	75 sxs cement + 1 sx CaCl ₂
1.					
2.					
3.					
4.					
5.					
6.					

[illegible]



File No. _____
Drilling Authority No. 254

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

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 CS LAFERTE RIVER A-66
Location: Unit A Section 66 Grid 61°50' N Lat., 118°30' W Long.
Latitude 61° 45' 7.5" N Longitude 118° 41' 29.0625" W
From Established Reference Marker
Universal Well Location Reference
Permit No. 4058 Lease No. _____

Canada-Cities Service Petr. Corp.
(Permitter, Licensee, Lessee)

Date of commencement of proposed program _____

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at _____
Gas at _____
Water at _____
Total Depth 1870' Date of last operations April 8th, 1967
Present condition of well D & A

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Filled
1. 5"	T & C	238.37'	238.37'	75 sxs cement & 1 CaCl ₂	1 sx
2.					
3.					None
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug		Geological Formation	Number of Sacks of Cement	Remarks
No.	Position			
1	1870-1270	Pre-Camb - U. Devonian	60	
2	300-Surface	U. Devonian-Glacial D.	30	
				Screwed on plate April 8th, 1967

The following logs have been run... Widco E. Log... 1861 - 943'

Other operations proposed _____

Operations to be carried out by Tri City Drlg. Co. Contractor Licence No. 18121
Address 14305 - 120 Ave. Edmonton Address _____

Responsible Agent in field Mr. E.M. Dwyer

Dated at Calgary this 21st Day of August 1967

Signed by *E.M. Dwyer* Company Canada-Cities Service Petr. Corp.
Title Chief Geologist Operator's Exploratory Licence No. 1022

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

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. B.H.J. Thoms

Dated 24th August 1967

B.H.J. Thoms
Oil Conservation Engineer

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

Department of Indian Affairs and Northern Development
Resource & Economic Development Group



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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 Land Regulations", application is hereby made for approval to drill:—

Name and number of well CS LAFERTE RIVER A-66
Location: Unit A Section 66 Grid 61°50' N Lat, 118°30' W Long
Latitude 61° 45' 7.5" Longitude 118° 41' 29.0625"
From Established Reference Marker

Elevation: Est 795 K.B. feet above sea-level.
Well is expected to produce from Slave Point formation at a depth
of about 1170' feet.
Area assigned to well (for Oil Conservation Engineer's use only)

Permit No. 4058 Lease No. Acreage 60,622 acres
Permittee, licensee, or lessee Canada-Cities Service Petroleum Corporation
Exploratory Licence No. 1022
Surface owned by Crown or Crown (If alienated submit name and address of owner and occupant.)
Petroleum and natural gas rights owned by Crown
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	Bread	New or Used	Estimated Depth	Sacks of Cement
1. 5 1/2"	14	J-55		New	150'	
2.						
3.						
4.						
5.						

Expected water, gas, and oil horizons and type of control equipment.
All horizons to be controlled with drilling fluid of proper density.
B.O.P's 8" - 600 series, double Guibersons 2 3/8" Rams and Blind Rams

Well will be drilled with (Rotary) Rig No. 5 by Tri-City Drilling Co. Ltd.
(Cable) (Drilling Contractor or company)

14305 - 120 Avenue, Edmonton, Alberta.
Responsible agent of applicant: Contractor's Business Licence No. 20203

At well Mr. F.M. Dwyer At registered office Mr. W.J. Mooney
Address 1100 Calgary House, Calgary Address 1100 Calgary House, 6th. Avenue SW, Calg.

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

Dated at Calgary this 14th day of December 19 66

Signed by W.J. Mooney Company Canada-Cities Service Petr. Corp.

Title Chief Geologist Operator's Licence No. 1022

(For Resource Management Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:—
The Company will submit to this office, on Tuesday of each week, the
latest reports received by radio on the progress of the well.

Dated 22th December 19 66 Oil Conservation Engineer

Forms to be submitted to Oil Conservation Engineer, Calgary, Alberta.

NANR 52-90-1 (7-65)

UNIVERSAL WELL LOCATION REFERENCE: 61.75208° N 118.69141° W

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 7 LOCATION Cities Service Lapata River AREA DATE March 29 1967

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller	<u>E. Ferguson</u>	8	845	70	915								
Derrick	<u>D. Danie</u>	8											
Floor	<u>B. Cole</u>	8											
Floor													
Floor													
Floor													
Motor													
Mechanic													
Extra													
Injuries:													
Fires:													

Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller	<u>H. Ashland</u>	8	915	81	996								
Derrick	<u>D. Ziegler</u>	8											
Floor	<u>D. Pederson</u>	8											
Floor													
Floor													
Floor													
Motor													
Mechanic													
Extra													
Injuries:													
Fires:													

Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands
Specify actual hours worked							No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons
Driller	<u>B. Huchard</u>	8	996	125	1121								
Derrick	<u>S. Machinist</u>	8											
Floor	<u>H. Kerne</u>	8											
Floor													
Floor													
Floor													
Motor													
Mechanic													
Extra													
Injuries:													
Fires:													

REMARKS	Time		
	Start	Stop	Interval
Service Rig + B.O.P. Drilling	0.00	0.15	
	0.15	8.00	
Service Rig + B.O.P. Drilling	8.00	8.30	
	8.30	12.45	
	12.45	13.45	
	13.45	16.00	
Service Rig + B.O.P. Clean mud tank Drilling	16.00	16.15	
	16.15	16.45	
	16.45	24.00	
Company Time	Cont'r Time		
	Cont'r Time		
Company Time	Cont'r Time		
	Cont'r Time		
Company Time	Cont'r Time		
	Cont'r Time		

Toico Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

BOARD DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 7 LOCATION Atia Service Laputa River A 21 AREA _____ DATE March 29 1967

[illegible]

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
S.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved _____

DAILY DRILLING REPORT

BOARD

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 7 LOCATION Cities Service Laporte River A ⁶⁶21 AREA _____ DATE March 38 19 67

REMARKS

Time		
Start	Stop	Interval

RIG No. 1		LOCATION		WELL		DATE		TIME		WELL		DATE		TIME		WELL		DATE		TIME											
Tour — Midnight - 8 a.m.		Specify actual hours worked		Hrs.		From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS		FUEL		WATER		COAL		Stands							
Driller E. Ferguson		8				240		45		285						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		Singles	
Derrick D. Davis		8				240		45		285						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		D. Collars	
Floor B. Coker		8				240		45		285						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		Other Ft.	
Floor						240		45		285						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		C.B. Ft.	
Floor						240		45		285						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		Subs. Ft.	
Motor						240		45		285						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		Ft. Up On Kelly	
Mechanic						240		45		285						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		TOTAL	
Extra						240		45		285						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons			
Injuries:						240		45		285						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons			
Fires:						240		45		285						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons			
Tour — 8 a.m. to 4 p.m.		Specify actual hours worked		Hrs.		From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS		FUEL		WATER		COAL		Stands							
Driller H. Duckland		8				285		72		357						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		Singles	
Derrick D. Laurie		8				285		72		357						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		D. Collars	
Floor P. Pederson		8				285		72		357						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		Other Ft.	
Floor						285		72		357						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		C.B. Ft.	
Floor						285		72		357						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		Subs. Ft.	
Motor						285		72		357						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		Ft. Up On Kelly	
Mechanic						285		72		357						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		TOTAL	
Extra						285		72		357						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons			
Injuries:						285		72		357						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons			
Fires:						285		72		357						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons			
Tour — 4 p.m. to Midnight		Specify actual hours worked		Hrs.		From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS		FUEL		WATER		COAL		Stands							
Driller B. Harkness		8				357		83		440						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		Singles	
Derrick S. Mochanek		8				357		83		440						No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons		D. Collars	
Floor H. Lepore		8				357		83		440						No.</															

Toeco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Mrs. Toolpusher
Total Company Time _____ Mrs. Approved

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. <u>7</u> LOCATION <u>Cities Service Lafayette River A 266</u> AREA <u>DATE March 27 1967</u>		REMARKS		Time	
				Start	Stop
Tour — Midnight - 8 a.m. Specify actual hours worked Hrs.		From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.) DRILL COLLARS No. O.D. I.D. Wgt. FUEL Gals. WATER Bbls. COAL Tons Stands		0.00	0.15
Driller <u>E. Ferguson</u> 8 Derrick <u>D. Davis</u> 8 Floor <u>B. Cole</u> 8		BITS No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION <u>1</u> <u>7 1/2</u> <u>Regular</u> <u>Perun</u> <u>34</u> <u>H/A</u>		0.15	5.00
Floor Floor Motor Mechanic Extra Injuries: Fires:		MUD 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change WEIGHT VISCOSITY GEL PUMPS No. 1 Pres- sure Model S.P.M. Liner Size No. 2 Pres- sure Model S.P.M. Liner Size Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet or Cut Feet Left on Spool Next Slip General		5.00	7.00
Tour — 8 a.m. to 4 p.m. Specify actual hours worked Hrs.		From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.) DRILL COLLARS No. O.D. I.D. Wgt. FUEL Gals. WATER Bbls. COAL Tons Stands		7.00	8.00
Driller <u>H. Duckland</u> 8 Derrick <u>D. Lundy</u> 8 Floor <u>D. Peterson</u> 8		BITS No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change WEIGHT <u>2 bags 4 el</u> VISCOSITY <u>75 bags Cement</u> GEL <u>1 bag Calcium</u> PUMPS No. 1 Pres- sure Model S.P.M. Liner Size No. 2 Pres- sure Model S.P.M. Liner Size Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet or Cut Feet Left on Spool Next Slip General <u>Casing: 11 joints, 5" T+C, 238.37 ft. 3 barrel return.</u>		8.00	8.15
Floor Floor Motor Mechanic Extra Injuries: Fires:		W.L. F.C. pH.		8.15	10.00
Tour — 4 p.m. to Midnight Specify actual hours worked Hrs.		From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.) DRILL COLLARS No. O.D. I.D. Wgt. FUEL Gals. WATER Bbls. COAL Tons Stands		10.00	10.30
Driller <u>B. Kukarschak</u> 8 Derrick <u>B. Moskiewich</u> 8 Floor <u>H. Legere</u> 8		BITS No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change WEIGHT VISCOSITY GEL PUMPS No. 1 Pres- sure Model S.P.M. Liner Size No. 2 Pres- sure Model S.P.M. Liner Size Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet or Cut Feet Left on Spool Next Slip General		10.30	13.00
Floor Floor Motor Mechanic Extra Injuries: Fires:		W.L. F.C. pH.		13.00	16.00
Total Contractor Time _____ Hrs. Toolpusher _____ Total Company Time _____ Hrs. Approved by _____		Company Time Cont'r Time <u>W. O. C.</u> 16.00 24.00			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

BOARD DAY WORK RECORD
NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

REMARKS	Time		
	Start	Stop	Interval

T. ☐ C. Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____
 B. ☐ O. P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 7 LOCATION <i>Cities Service Laporte River A 24</i> AREA DATE <i>March 25 19 47</i>		REMARKS		Time	
		Start	Stop	Interval	
Tour — Midnight - 8 a.m. Specify actual hours worked Hrs.		Service Rig Drilling		0.00	0.15
Driller <i>E. Ferguson</i> 8	From 150 Footage 97 To 247			0.15	8.00
Derrick <i>D. Davis</i> 8	DRILL COLLARS: No. 3, Size 3 1/2", Type H, Serial No. 214, Weight 97, R.P.M. 75				
Floor <i>B. Cole</i> 8	FUEL: Gals. 1, Bbls. 1, Tons 1				
Floor	WATER: Gals. 1, Bbls. 1, Tons 1				
Floor	COAL: Tons 1				
Motor	At Surveys Degree				
Mechanic	MOTOR HOURS				
Extra	Next Oil Change				
Injuries:					
Fires:					
Tour — 8 a.m. to 4 p.m. Specify actual hours worked Hrs.		Service Rig Trip to Room		8.00	8.30
Driller <i>H. Buckland</i> 8	From 0 Footage 15 To 15	Reaming		8.30	9.00
Derrick <i>D. Laurie</i> 8	DRILL COLLARS: No. 1, Size 3 1/2", Type H, Serial No. 214, Weight 15, R.P.M. 75			9.00	12.00
Floor <i>D. Peterson</i> 8	FUEL: Gals. 1, Bbls. 1, Tons 1				
Floor	WATER: Gals. 1, Bbls. 1, Tons 1				
Floor	COAL: Tons 1				
Motor	At Surveys Degree				
Mechanic	MOTOR HOURS				
Extra	Next Oil Change				
Injuries:					
Fires:					
Tour — 4 p.m. to Midnight Specify actual hours worked Hrs.		Service Rig Reaming		16.00	16.15
Driller <i>B. Kularschuk</i> 8	From 15 Footage 25 To 40			16.15	24.00
Derrick <i>A. Machinich</i> 8	DRILL COLLARS: No. 1, Size 3 1/2", Type H, Serial No. 214, Weight 25, R.P.M. 75				
Floor <i>H. Lepine</i> 8	FUEL: Gals. 1, Bbls. 1, Tons 1				
Floor	WATER: Gals. 1, Bbls. 1, Tons 1				
Floor	COAL: Tons 1				
Motor	At Surveys Degree				
Mechanic	MOTOR HOURS				
Extra	Next Oil Change				
Injuries:					
Fires:					

Total King on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 7 LOCATION Cities Service Laporte River A-66 AREA DATE March 24 1947

Tour — Midnight - 8 a.m.		Specify actual hours worked		Hrs.	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands	REMARKS	Start	Time	Interval
										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons					
Driller	<u>E. Ferguson</u>	<u>8</u>			<u>5</u>	<u>30</u>	<u>35</u>											<u>Service Rig</u>	<u>0.00</u>	<u>0.15</u>	
Derrick	<u>D. D. Davis</u>	<u>8</u>																<u>Drilling</u>	<u>0.15</u>	<u>4.00</u>	
Floor	<u>B. Coles</u>	<u>8</u>																<u>Trip for bit</u>	<u>4.00</u>	<u>4.15</u>	
																		<u>Drilling</u>	<u>4.15</u>	<u>8.00</u>	
MUD WEIGHT VISCOSITY GEL 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change																					
No. 1 Model S.P.M. Liner Size No. 2 Model S.P.M. Liner Size Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut Feet Left on Spool Next Slip																					
W.L. F.C. pH.																					
MUD WEIGHT VISCOSITY GEL 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change																					
No. 1 Model S.P.M. Liner Size No. 2 Model S.P.M. Liner Size Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut Feet Left on Spool Next Slip																					
W.L. F.C. pH.																					
MUD WEIGHT VISCOSITY GEL 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change																					
No. 1 Model S.P.M. Liner Size No. 2 Model S.P.M. Liner Size Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut Feet Left on Spool Next Slip																					
W.L. F.C. pH.																					

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

DAILY DRILLING REPORT

BOARD DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 7 LOCATION Ct. 2 miles E. to Home A-2 AREA _____ DATE April 1 1967

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER		COAL	Stands
Specify actual hours worked		Hrs.	1724	42	1866		No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	Singles	
Driller	E. Ferguson	8	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Derrick	D. D. Davis	8	17	4 1/2	Hammer		2542			42	7 1/4				Other Ft.
Floor	B. Cole	8													C.B. Ft.
Floor															Subs. Ft.
Floor															Ft. Up On Kelly
Motor															TOTAL
Mechanic															
Extra															
Injuries:															
Fires:															
Tour — 8 a.m. to 1 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER		COAL	Stands
Specify actual hours worked		Hrs.	1866	H	1870		No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	Singles	
Driller	H. Duckland	8	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Derrick	D. Davis	8	17	4 1/2	Hammer		2542			1	1				Other Ft.
Floor	D. Peterson	8			Coring					3	1 1/2				C.B. Ft.
Floor															Subs. Ft.
Floor															Ft. Up On Kelly
Motor															TOTAL
Mechanic															
Extra															
Injuries:															
Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER		COAL	Stands
Specify actual hours worked		Hrs.					No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	Singles	
Driller	B. Haluschak	8	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Derrick	B. Haluschak	8													Other Ft.
Floor	H. Howard	8													C.B. Ft.
Floor	D. Davis	6													Subs. Ft.
Floor	B. Cole	6													Ft. Up On Kelly
Motor															TOTAL
Mechanic															
Extra															
Injuries:															
Tour — 8 a.m. to 1 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER		COAL	Stands
Specify actual hours worked		Hrs.	1866	H	1870		No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	Singles	
Driller	H. Duckland	8	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
Derrick	D. Davis	8	17	4 1/2	Hammer		2542			1	1				Other Ft.
Floor	D. Peterson	8			Coring					3	1 1/2				C.B. Ft.
Floor															Subs. Ft.
Floor															Ft. Up On Kelly
Motor															TOTAL
Mechanic															
Extra															
Injuries:															
Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER		COAL	Stands
Specify actual hours worked		Hrs.					No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	Singles	
Driller	B. Haluschak	8	No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed			

REMARKS	Time		
	Start	Stop	Interval

[illegible]

Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD DAY WORK RECORD
NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 7 LOCATION Cities Service Refractory River AREA DATE April 7 1967

Tour — Midnight - 8 a.m.		Specify actual hours worked		Hrs.	From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FUEL	WATER	COAL	Stands	REMARKS	Time		
										No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons		Start	Stop	Interval	
Driller	<u>R. Ferguson</u>	<u>8</u>			1787	13	1800											<u>Service Rig + B.O.P.</u>	0.00	0.15	
Derrick	<u>D. Davis</u>	<u>8</u>																<u>Coring</u>	0.15	4.30	
Floor	<u>B. Cole</u>	<u>8</u>																<u>Pulling out core</u>	4.30	5.45	
Floor																		<u>Running in the room</u>	5.45	6.45	
Floor																		<u>Reaming</u>	6.45	8.00	
Driller	<u>H. Quirkland</u>	<u>8</u>			18.00	17	18.17											<u>Service Rig + B.O.P.</u>	8.00	8.30	
Derrick	<u>D. Lanza</u>	<u>8</u>																<u>Reaming</u>	8.30	9.00	
Floor	<u>D. Pederson</u>	<u>8</u>																<u>Tris to core</u>	9.00	11.30	
Floor																		<u>Coring</u>	11.30	16.00	
Driller	<u>B. Kucharski</u>	<u>8</u>			1817	3	1820											<u>Coring</u>	16.00	16.30	
Derrick	<u>S. Machinick</u>	<u>8</u>																<u>Service Rig + B.O.P.</u>	16.30	16.45	
Floor	<u>H. Lapine</u>	<u>8</u>																<u>Tris out for rock</u>	16.45	18.00	
Floor																		<u>Waiting on logs</u>	18.00	19.00	
Floor																		<u>Logging</u>	19.00	20.00	
Floor																			20.00	23.15	
Floor																			23.15	24.00	

Total Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved by _____

BOARD DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 7 LOCATION Chase Service Laporte River A AREA 60 DATE April 6 1967

Tour — Midnight - 8 a.m.		From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS				FUEL		WATER		COAL		Stands					
Specify actual hours worked		Hrs.		1737		28		1765				No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons			
Driller E. Ferguson		8		No.		Size		Type		Size J-nts		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed		Hrs.		CONDITION	
Derrick D. Davis		8		16		H		H		727								24		24							
Floor B. Cole		8						Coring										H		24							
Floor																											
Floor																											
Floor																											
Motor																											
Mechanic																											
Extra																											
Injuries:																											
Fires:																											
Tour — 8 a.m. to 4 p.m.		From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS				FUEL		WATER		COAL		Stands					
Specify actual hours worked		Hrs.		1765		15		1780				No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons			
Driller K. Augland		8		No.		Size		Type		Size J-nts		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed		Hrs.		CONDITION	
Derrick D. Laurie		8						Coring										15		5							
Floor P. Peterson		8																									
Floor																											
Floor																											
Motor																											
Mechanic																											
Extra																											
Injuries:																											
Fires:																											
Tour — 4 p.m. to Midnight		From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS				FUEL		WATER		COAL		Stands					
Specify actual hours worked		Hrs.		1780		7		1787				No.		O.D.		I.D.		Wgt.		Gals.		Bbls.		Tons			
Driller B. Runkelshub		8		No.		Size		Type		Size J-nts		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed		Hrs.		CONDITION	
Derrick B. Mackinich		8						Coring										7		3							
Floor H. Lipine		8		17		H		H		2542										19		13					
Floor																											
Floor																											
Motor																											
Mechanic																											
Extra																											
Injuries:																											

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 7 LOCATION Clio Service Laporte River A 266 AREA DATE April 5 1967

Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands	REMARKS	Time		
Specify actual hours worked	Hrs.					No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons	Start		Stop	Interval	
Driller <u>E. Ferguson</u>	8	1664	17	1681										<u>Service Rig + B.O.P.</u> <u>Reaming</u> <u>Drilling</u>	0.00	0.15	
Derrick <u>D. Davis</u>	8														0.15	5.00	
Floor <u>B. Coles</u>	8														5.00	8.00	
Floor																	
Floor																	
Driller <u>K. Auckland</u>	8	1681	39	1720										<u>Service Rig + B.O.P.</u> <u>Drilling</u>	8.00	8.30	
Derrick <u>D. Davis</u>	8														8.30	16.00	
Floor <u>D. Peterson</u>	8																
Floor																	
Floor																	
Driller <u>B. Kucharski</u>	8	1720	17	1737										<u>Service Rig + B.O.P.</u> <u>Drilling</u> <u>Trip for bit</u> <u>Reaming</u> <u>Drilling</u>	16.00	16.15	
Derrick <u>B. Maschewich</u>	8														16.15	16.30	
Floor <u>H. Lesine</u>	8														16.30	19.30	
Floor															19.30	21.00	
Floor															21.00	24.00	

Total Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B-O.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

BOARD DAY WORK RECORD
NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

REMARKS

Time		
Start	Stop	Interval

RIG No.		LOCATION		DATE	
Tour — Midnight - 5 a.m.		Specify actual hours worked		Hrs.	
Driller	E. Ferguson	8			
Derrick	D. Davis	8			
Floor	B. Collier	8			
Floor					
Floor					
Motor					
Mechanic					
Extra					
Injuries:					
Fires:					
From		Footage		To	
1603		41		1644	
Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS	
				No. O.D. I.D. Wgt.	
				Gals. Bbls. Tons	
				CONDITION	
				Hrs. Feet Reamed	
				Hrs.	
				At Surveys Degree	
				MOTOR HOURS	
				Next Oil Change	
				D. Collars	
				Other Ft.	
				C.B. Ft.	
				Subs. Ft.	
				Ft. Up On Kelly	
				TOTAL	
				Next Slip	
				Slip Feet Cut Feet Left on Spool	
				General	
				W.L. F.C. pH.	
Tour — 8 a.m. to 4 p.m.		Specify actual hours worked		Hrs.	
Driller	H. Highland	8			
Derrick	D. Laurie	8			
Floor	D. Peterson	8			
Floor					
Floor					
Motor					
Mechanic					
Extra					
Injuries:					
Fires:					
From		Footage		To	
1644		20		1664	
Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS	
				No. O.D. I.D. Wgt.	
				Gals. Bbls. Tons	
				CONDITION	
				Hrs. Feet Reamed	
				Hrs.	
				At Surveys Degree	
				MOTOR HOURS	
				Next Oil Change	
				D. Collars	
				Other Ft.	
				C.B. Ft.	
				Subs. Ft.	
				Ft. Up On Kelly	
				TOTAL	
				Next Slip	
				Slip Feet Cut Feet Left on Spool	
				General	
				W.L. F.C. pH.	
Tour — 4 p.m. to Midnight		Specify actual hours worked		Hrs.	
Driller	B. Henderson	8			
Derrick	S. Mackiewicz	8			
Floor	J. Leane	8			
Floor					
Floor					
Motor					
Mechanic					
Extra					
Injuries:					
Fires:					
From		Footage		To	
Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS	
				No. O.D. I.D. Wgt.	
				Gals. Bbls. Tons	
				CONDITION	
				Hrs. Feet Reamed	
				Hrs.	
				At Surveys Degree	
				MOTOR HOURS	
				Next Oil Change	
				D. Collars	
				Other Ft.	
				C.B. Ft.	
				Subs. Ft.	
				Ft. Up On Kelly	
				TOTAL	
				Next Slip	
				Slip Feet Cut Feet Left on Spool	
				General	
				W.L. F.C. pH.	

Yotco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
D.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 7		LOCATION <i>Cities Service Laporte River A 66</i>		AREA		DATE <i>April 3 19 67</i>		REMARKS		Time							
Tour — Midnight - 8 a.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands	Start	Stop	Interval	
Specify actual hours worked		Hrs.					No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons				
Driller <i>E. Ferguson</i>	8	1523	17	1540										<i>Service Rig + B.O.P.</i>	0.00	0.30	
Derrick <i>D. Davis</i>	8													<i>Drilling</i>	0.30	1.30	
Floor <i>B. Colie</i>	8													<i>Trip for bit</i>	1.30	3.00	
														<i>Drilling</i>	3.00	8.00	
MUD		12 Mn.	2 a.m.	4 a.m.	6 a.m.	Add'lives				At Surveys Degree	MOTOR HOURS		Next Oil Change				
WEIGHT																	
VISCOSITY																	
GEL																	
PUMPS		No. 1	Pressure	Model	S.P.M.	Liner Size											
		No. 2	Pressure	Model	S.P.M.	Liner Size											
Injuries:																	
Fires:																	
Tour — 8 a.m. to 4 p.m.		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands	Company Time			
Specify actual hours worked		Hrs.					No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons				
Driller <i>H. Auckland</i>		1540	36	1576										<i>Service Rig + B.O.P.</i>	8.00	8.30	
Derrick <i>D. Lauge</i>														<i>Drilling</i>	8.30	12.00	
Floor <i>D. Pedersen</i>																	
MUD		8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives				At Surveys Degree	MOTOR HOURS		Next Oil Change				
WEIGHT																	
VISCOSITY																	
GEL																	
PUMPS		No. 1	Pressure	Model	S.P.M.	Liner Size											
		No. 2	Pressure	Model	S.P.M.	Liner Size											
Injuries:																	
Fires:																	
Tour — 4 p.m. to Midnight		From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS			FUEL	WATER	COAL	Stands	Company Time			
Specify actual hours worked		Hrs.					No.	O.D.	I.D.	Wgt.	Gals.	Bbls.	Tons				
Driller <i>B. Hukarukub</i>	8	1576	27	1603										<i>Service Rig + B.O.P.</i>	16.00	16.15	
Derrick <i>M. Mackenich</i>	8													<i>Drilling</i>	16.15	19.00	
Floor <i>H. Lipine</i>	8													<i>Trip for bit</i>	19.00	21.00	
														<i>Drilling</i>	21.00	24.00	
MUD		4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives				At Surveys Degree	MOTOR HOURS		Next Oil Change				
WEIGHT																	
VISCOSITY																	
GEL																	
PUMPS		No. 1	Pressure	Model	S.P.M.	Liner Size											
		No. 2	Pressure	Model	S.P.M.	Liner Size											
Injuries:																	
Fires:																	

Cotco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
 Total Company Time _____ Hrs. Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 7 LOCATION <i>Chis Service Lapata River A.M. 66</i> AREA DATE <i>April 2 19 67</i>		REMARKS		Time		
				Start	Stop	Interval
Tour — Midnight - 8 a.m. Specify actual hours worked Hrs.		From 1429	Footage 36	To 1450		
Driller <i>E. Ferguson</i>	8					
Derrick <i>D. Davis</i>	8					
Floor <i>B. Cole</i>	8					
MUD		12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives
WEIGHT						
VISCOSITY						
GEL						
PUMPS						
Injuries:						
Fires:						
W.L.		F.C.	pH.			
Tour — 8 a.m. to 4 p.m. Specify actual hours worked Hrs.		From 1450	Footage 32	To 1492		
Driller <i>H. Anderson</i>	8					
Derrick <i>D. Davis</i>	8					
Floor <i>D. Peterson</i>	8					
MUD		8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives
WEIGHT						
VISCOSITY						
GEL						
PUMPS						
Injuries:						
Fires:						
W.L.		F.C.	pH.			
Tour — 4 p.m. to Midnight Specify actual hours worked Hrs.		From 1492	Footage 31	To 1523		
Driller <i>B. Anderson</i>	8					
Derrick <i>J. Mackintosh</i>	8					
Floor <i>H. Legend</i>	8					
MUD		4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives
WEIGHT						
VISCOSITY						
GEL						
PUMPS						
Injuries:						
Fires:						
W.L.		F.C.	pH.			

Total Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 D.P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. _____
 Total Company Time _____ Hrs. _____
 Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 7 LOCATION Lower Garwood Lagoon to River A 2 1/2 AREA _____ DATE April 1 19 67

Tour — Midnight - 8 a.m.										DATE April 19 61										REMARKS										Time																			
Specify actual hours worked																														Start			Stop			Interval													
Driller	E. Ferguson																			Service Rig + B.O.P.										0.00			0.15																
Derrick	D. Davis																			Drilling										0.15			8.00																
Floor	B. Cole																																																
Floor																																																	
Floor																																																	
Motor																																																	
Mechanic																																																	
Extra																																																	
Injuries:																																																	
Fires:																																																	
Tour — 8 a.m. to 4 p.m.																				Company Time										Cont'r Time																			
Specify actual hours worked																				Service Rig + B.O.P.										8.00										8.30									
Drill	B. K. Land																			Drilling										8.30										14.45									
Derrick	D. Davis																			Trip for bit										14.45										16.00									
Floor	D. Peterson																																																
Floor																																																	
Floor																																																	
Motor																																																	
Mechanic																																																	
Extra																																																	
Injuries:																																																	
Fires:																																																	
Tour — 4 p.m. to Midnight																				Company Time										Cont'r Time																			
Specify actual hours worked																				Run in with bit										11.00										16.30									
Driller	B. K. Land																			Service Rig + B.O.P.										16.30										16.45									
Derrick	S. Mackiewicz																			Drilling										16.45										24.00									
Floor	H. Levine																																																
Floor																																																	
Floor																																																	
Motor																																																	
Mechanic																																																	
Extra																																																	
Injuries:																																																	
Fires:																																																	

Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 P. Test-Operated _____ Time _____ Results _____

Total Contractor Time _____ Hrs. Toolpusher _____
Total Company Time _____ Hrs. Approved by _____

TRI-CITY DRILLING LTD.

DAILY DRILLING REPORT

BOARD DAY WORK RECORD

RIG No. 7 LOCATION Cities Service Laputa River #2

AREA

DATE March 31 1967

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

Tour — 3 a.m. to 8 a.m.		DATE <u>Nov 31 19 67</u>										REMARKS		Time																									
Specify actual hours worked		Hrs.		From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS		FUEL		WATER		COAL		Stands		Start			Stop			Interval									
Driller <u>E. Ferguson</u>		8		1121		84		1205																Service Rig + B.O.P.		0.00			0.15										
Derrick <u>D. Lewis</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed		Hrs.		CONDITION		D. Collars		0.15			6.20						
Floor <u>B. Cole</u>		8		8		4 1/2		Hwy				209						74		6								Other Ft.		6.20			7.30						
Floor				S								202						10		1 1/2								C.B. Ft.		7.30			8.00						
Floor				MUD		12 Mn.		2 a.m.		4 a.m.		6 a.m.		Additives		At Surveys Degree		MOTOR HOURS		Next Oil Change																			
Motor				WEIGHT																																			
Mechanic				VISCOSITY																																			
Extra				GEL																																			
Injuries:				PUMPS		No. 1		Pres- sure																															
Injuries:				Model		S.P.M.																																	
Injuries:				Liner Size																																			
Injuries:				No. 2		Pres- sure																																	
Injuries:				Model		S.P.M.																																	
Injuries:				Liner Size																																			
Injuries:				General																																			
Injuries:				W.L.		F.C.		pH.																															
Tour — 3 a.m. to 4 p.m.		Specify actual hours worked		Hrs.		From		Footage		To		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS		FUEL		WATER		COAL		Stands		Company Time			Cont'r Time										
Driller <u>H. Archibald</u>		8		1205		83		1288																		Service Rig + B.O.P.		8.00			8.15								
Derrick <u>D. Lewis</u>		8		No.		Size		Type		Size Jets		Serial No.		Weight		R.P.M.		Ft. Drilled		Hrs.		Feet Reamed		Hrs.		CONDITION		D. Collars		8.15			11.00						
Floor <u>D. Peterson</u>		8		8		4 1/2		Hwy				202						83		7 1/2								Other Ft.											
Floor				S																																			
Floor				MUD		8 a.m.		10 a.m.		12 Noon		2 p.m.		Additives		At Surveys Degree		MOTOR HOURS		Next Oil Change																			
Motor				WEIGHT																																			
Mechanic				VISCOSITY																																			
Extra				GEL																																			
Injuries:				PUMPS																																			

Totco Rins on Bit No. _____ D.P. Calipered Date _____ Results _____
B.O.P. Test - Operated _____ Time _____ Results _____ From Pipe Rack _____

Company Time	Cont'r Time
Total Contractor Time _____ Hrs.	Toelpusher _____
Total Company Time _____ Hrs.	Approved by _____

Report on 17 lots of subsurface Devonian fossils from the District of Mackenzie submitted by H.R. Belyea. NTS 85C, D, E, 95A, B, 96E.

The relevant parts of any manuscript prepared for publication that paraphrase or quote from this report should be referred to the Paleontology Subdivision, Calgary, for possible revision.

<u>Depth & Stratigraphy</u>	<u>Well, Fauna & Age</u>	<u>GSC Loc. No.</u>
2,156' Watt Mountain Fm., 4' above base, 26' below top.	Briggs N.E. Tathlina Lake No. 1 60°46'01"N; 117°19'45"W. NTS 85C. <i>Alaiophyllum</i> sp. nov. gastropod moulds, indet. age: Probably Givetian (Middle Devonian).	C-9897
2,159' Watt Mountain Fm., 1' above base, 29' below top.	Same well as above <i>Chastetes</i> sp. age: Ordovician to Permian.	C-9898
2,396' Sulphur Point Fm. 104' above base, 6' below top.	Briggs N.E. Tathlina Lake No. 9 60°43'12"N; 117°22'17"W. NTS 85C. fragment of a large pseudopunctate brachiopod, possibly <i>Megastrophia</i> age: Middle Devonian?	C-9899
2,397' Sulphur Point Fm., 103' above base, 7' below top.	Same well fragment of a large nautiloid age: not determined.	C-9901
2,399' Sulphur Point Fm., 101' above base, 9' below top.	Same well stromatoporoids, not studied <i>Dendrostella</i> sp. cf. <i>D. disjuncta</i> (Whiteaves) age: probably Middle Devonian, Givetian.	C-9900
2,414' Sulphur Point Fm., 86' above base, 24' below top.	Same well stromatoporoid, not studied <i>Syringopora</i> sp. <i>Grypophyllum</i> sp. cf. <i>G. mackenziense</i> (Pedder) age: probably Middle/Upper Devonian, Zackenziense Zone?	C-22943
2,438' Sulphur Point Fm., 62' above base, 48' below top.	Same well <i>Stachyodes</i> sp., broad sense <i>Thamnopora</i> sp. <i>Psydracophyllum</i> sp. age: Middle Devonian, probably late Eifelian or Givetian.	C-9902

<u>Depth & Stratigraphy</u>	<u>Well, Fauna & Age</u>	<u>GSC Loc. No.</u>
2,452' Sulphur Point Fm., 48' above base, 62' below top.	Same well stromatoporoids, not studied indeterminate brachiopod fragments age: not determined.	C-9903
2,486' Sulphur Point Fm., 14' above base, 96' below top.	Same well <i>Thamnopora</i> sp. <i>Dohmophyllum</i> or <i>Psyracophyllum</i> sp. age: Lower Devonian (Siegenian) to Middle Devonian (early Givetian?).	C-9904
2,707' Pine Point Fm., 121' above base, 7' below top.	Briggs Rabbit Lake No. 2 60°54'53"N; 118°49'37"W. NTS 85D. <i>Thamnopora</i> sp. <i>Alveolites</i> sp. <i>Psyracophyllum lonsdaleiaforme</i> Pedder age: Middle Devonian, late Eifelian, <i>dysmorphostrota</i> Zone.	C-7672
2,717' Pine Point Fm., 111' below base, 17' below top.	Same well as above <i>Thamnopora</i> sp. rugose coral, indet. age: Silurian or Devonian.	C-7673
1,805' Ernestina Lake Fm., 2' above base, 1' below top.	CS Laferte River A-66 61°45'07"N; 118°41'29"W. NTS 85E fragment of a large orthoconic nautiloid age: not determined.	C-15924
5,853' Sulphur Point Fm.,	Union Pan Am. Trainor L-59 60°28'33"N; 120°40'50"W. NTS 95A <i>Stachyodes</i> sp. cf. <i>S. thomascarki</i> Stearn age: probably Middle/Upper Devonian <i>mackenziense</i> Zone to early Frasnian.	C-19211
6,474.5' Sulphur Point Fm., 20.5' above base, 62.5' below top.	Imperial Sun Arrowhead I-46 60°45'37"N; 122°22'47"W. NTS 95B stromatoporoids, not studied <i>Thamnopora</i> sp. <i>Grypophyllum mackenziense</i> (Pedder) age: Middle/Upper Devonian, <i>mackenziense</i> Zone.	C-8946

<u>Depth & Stratigraphy</u>	<u>Well, Fauna & Age</u>	<u>GSC Loc. No.</u>
5,791.5' Sulphur Point Fm., 253.5' above base 97.5' below top.	Murphy-B.O.C. Arrowhead River No. 1 60°50'25"N; 122°05'50"W. NTS 95B. <i>Temnophyllum richardsoni</i> (Meek)? age: Middle Devonian, late Givetian, <i>Stringocephalus alaskanus</i> to Lower <i>hermanni-cristatus</i> Zone?	C-8998
6,195' Pine Point Fm., 140' above base, 150' below top.	Same well <i>Exilifrons</i> sp. nov. age: Eifelian, probably <i>dysmorphostrota</i> Zone.	C-9002
1,369' Ramparts Fm., (broad sense), 70' above base, 346' below top.	Imperial Norman Wells No. 37X 65°16'57"N; 126°51'50"W. NTS 96E <i>Grypophyllum mackenziense</i> (Pedder) age: Middle/Upper Devonian, <i>mackenziense</i> Zone.	C-9905

Remarks

Psydracophyllum lonsdaleiaforme (C-7672) and the new species of *Exilifrons* (C-9002) are regarded as reliable indices to the late Eifelian *dysmorphostrota* Zone, which, at surface, occurs in the pre-*Leiorhynchus castanea* bearing beds of the Headless, Nahanni and Hume Formations. It is thus probable that the subsurface Pine Point of the Rabbit Lake and Arrowhead River areas is just older than the *Leiorhynchus castanea* bearing beds of the Pine Point Formation of the Great Slave Lake area. *P. lonsdaleiaforme* has also been reported (Pal. Rept. HRB 25 AEHP 71, p. 2) from the subsurface Keg River Formation of the Gulf et al. Trout River D-14 well (C-7153, C-7154).

Good examples of *Grypophyllum mackenziense* occur in the Sulphur Point of the Arrowhead I-46 well (C-8946) and the Ramparts of Norman Wells 37X well (C-9905). The latter identification extends the range of the *mackenziense* Zone in the Norman Wells 37X well to 1,369 feet, giving it a total thickness of at least 208 feet (see Pal. Rept. HRB 28 AEHP 71, p. 2, for further details). *Grypophyllum mackenziense* may also be present in beds assigned to the Sulphur Point Formation in Briggs N.E. Tathlina Lake No. 9 well (C-22943), but the only specimen available has 17x2 septa and a diameter of 9.2 mm whereas normally in adult stages the species has 18x2 to 26x2 septa and a diameter ranging from 9.0 to 19.0 mm. *G. mackenziense* is believed to be a good megafossil index to the Upper *hermanni-cristatus* conodont zone, which, on this continent, is usually accepted as the latest Middle Devonian Zone.

The occurrence of a species comparable with *Dendrostella disjuncta* in C-9900 is of considerable interest in that *D. disjuncta*, sensu stricto, is known only from the older *Stringocephalus*-bearing Methy and Winnipegosis Formations of Alberta and Manitoba respectively.

The *Temnophyllum* from the Sulphur Point Formation of the Murphy-B.O.C. Arrowhead River No. 1 well (C-8998) is worn peripherally and has suspiciously wedge-shaped septa, and can therefore only be questionably referred to the species *T. richardsoni*. If the identification were upheld it would strongly suggest that this part of the Sulphur Point Formation in the Arrowhead River No. 1 well is older than much of the Sulphur Point of other subsurface sections, as current data indicate that the range of *T. richardsoni* entirely predates that of *Grypophyllum mackenziense*.

Alan Pedder

A.E.H. Pedder

P.E.H.

Paleontology Subdivision
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