

ATLANTIC LITTLE
CHICAGO · N-32

WELL NO. **E** Atlantic Little Chicago N-32
FIELD Area:
LOCATION: Unit **N** Section **32** Grid **67-20** - **130-00**.....
Latitude **67-11-46** Longitude **130-06-55**.....
From Established Reference Marker

Rig Release Date:
Status
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
	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



Drilling Authority No. 235
Date Issued June 22, 1966

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCE MANAGEMENT DIVISION

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 **Atlantic Little Chicago N-32**
Permit No. **4103** Lease No. **1029**
Atlantic Richfield Company Exploratory Licence No. **1029**
(Permittee, Licensee, Lessee)
Atlantic Richfield Company Exploratory Licence No. **1029**
(Operator)
Location: Unit **N** Section **32** Grid **67°20' N Lat, 130°00' W Long.**
Latitude **67°11' 46"** Longitude **130°06' 55"**
From Established Reference Marker

	DATE	DEPTH
Spudded	6-16-66	
Suspended		
Resumed		
Finished Drilling	7-13-66	6422
Deepened		
Complete (gas/oil)	7-17-66	
Abandoned	7-18-66	
Rig released		

Pool (s) **None**
Interval(s) open to production
Elevation: Gr. **280**
K.B. **292.2**
Drilling Contractor & Rig No. **S & T Rig 1E**
Contractor's Business Licence No. **24354**

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at—	Sacks of Cement and Additives
1. 16" Conductor	P-25	55#	40	53	75 sx CHES + 2% CaCl2.
2. 8-5/8"	N-80	28#	623.56	606.16	330 Sx CHES + 2% CaCl2. Recemented w/90 sx + 3% CaCl2.
3.					Recemented w/60 sx CHES +
4.					2% CaCl2.
5.					
6.					

GEOLOGICAL TOPS	ELEVATION	
	Depths	Sub-Sea
Hare Indian	254	+38
Hume	505	-213
Bear Rock	815	-523
Lower Bear Rock	1424	-1132
Silurio - Ord	2266	-1974
Cambrian	6234	-5942

CORE RECORD					
From	To	Rec.	From	To	Rec.
1860	1920	60			

LOG RECORD			
Run No.	Type of Log	From	To
1	Laterolog	6420	605
1	Microlaterolog Cal.	6420	605
1	Sonic Gamma Ray	6420	605
1	Gamma Ray	605	50
1	Formation Density	6418	605
1	Velocity Survey	6385	700
	Mud Log	6422	610

ATTENTION: S.A. Kanik, Esq.

The attached was omitted from our parcel containing the Well History for Atlantic Little Chicago N-32

V.A.H.

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
7-16-66	6422	6300	w/60 OMC								
7-16-66	3700	3600	w/50 CHES + 4% CaCl ₂ . Felt top @ 3592.								
7-17-66	1500	1300	w/85 CHES + 4% CaCl ₂ . Felt Top @ 1346.								
7-17-66	1346	1250	w/40 CHES + 4% CaCl ₂ . Felt Top @ 1282.								
7-17-66	650	550	60 CHES + 4%. Felt Top @ 541.								

10 ex surface plug, weld steel cap.

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.B.H.P.	F.S.I.B.H.P.	I.F.B.H.P.	F.P.B.H.P.	I.H.P.	F.H.P.	REMARKS
1	6-25-66	Hume	820	970	60	30	60	417	413	110	154	418	405	Rec. 880' slightly sulphurous salt water.

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
E66-1472 CNP-4-3328	Water C-40-#1	820 1859	970 1720	Hume Bear Rock Dolomite	1 sample - top of tool - DST #1

PRESENT STATUS OF WELL

Oil.....	(Interval)
Gas.....	(Interval)
Dry.....	X 7-17-66
Susp.....	

Company..... **Atlantic Richfield Company**

Signed by..... **(R.A. Evans)**

Title..... **Production and Drilling Superintendent**

Date..... **August 15, 1966**

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



DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
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 **Atlantic Little Chicago N-32**
Location: Unit **32** Section **32** Grid **67° 20' N Lat, 130° 00' W Long.**
Latitude **67° 11' 46"** Longitude **130° 06' 53"**
From Established Reference Marker

Permit No. **4103** Lease No. **Atlantic Richfield Company**
(Permittee, Licensee, Lessee)

Date of commencement of proposed program **July 16, 1966**
OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at **None**
Gas at **None**
Water at **820 - 970 (DST #1) Recovered 880' Salt Water**
Total Depth **6422** Date of last operations **7-16-66**
Present condition of well **Waiting on Approval to Abandon.**

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sack of Cement and Additives	Amount Pulled
1. 16" Conductor	55#	40'	53'	75 Sx CHES + 2% CaCl₂	None
2. 8-5/8"	24 & 28#	623.36'	606.16'	330 Sx CHES + 2% CaCl₂	None
3.				Reamended w/60 Sx CHES + 3% CaCl₂.	
4.				150	
5.					

PROPOSED ABANDONMENT PROGRAM

Plug		Geological Formation	Number of Sacks of Cement	Remarks
No.	Position			
1	6422 - 6300	Cambrian	60 Sx CHES	No Fee!
2	3700 - 3600	Silurian - Ordovician	50 Sx CHES + 4% CaCl₂ - WOC 8 Hrs.	
3	1500 - 1300	Bear Rock	85 Sx CHES + 4% CaCl₂ - WOC 8 Hrs.	
4	650 - 550	Surface Casing Stub.	60 Sx CHES + 4% CaCl₂ - WOC 8 Hrs.	
	Cement top with 10 Sx Cnt, weld on steel cap and install permanent marker.			

The following logs have been run **LL, MLL-C, Velocity Survey, FDL & Mud Record, SG-Ray Plug and Abandon**
Other operations proposed

Operations to be carried out by **S & T Rig # 1E** Contractor Licence No. **24354**
Address **5825 - 98th Street, Edmonton, Alberta** Address
Responsible Agent in field **W.K. Walters**
Dated at **Edmonton**, this **25th** Day of **July** 19**66**
Signed by **R.A. Evans** Company **Atlantic Richfield Company**
Title **Prod. & Enlg. Superintendent** Operator's Exploratory Licence No. **1029**

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. A. E. Coad** on the **16th July 1966**

Dated **26th July**, 19**66**
Oil Conservation Engineer

Forms to be submitted in triplicate to Oil Conservation Engineer, Calgary, Alberta

File No.....
Drilling Authority No. 235



DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCE MANAGEMENT DIVISION

Application to Amend a Drilling Authority

This application, in triplicate, must be submitted and approved before commencing operations. If the well location is changed, this application must be accompanied where required, with a plan of survey approved by the Surveyor General.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made to amend
Drilling Authority No. 235, concerning Atlantic Little Chicago N-32

(Name and Number of Well)

The following amendments are required:
to amend the following section:

Well is expected to produce from Silurian-Ordovician formation at a depth of about
2200 feet.

To be replaced with;

Well is expected to produce from Cambrian formation at a depth of about 5500 feet.

Reasons for the amendment is:

To evaluate all horizons including the Cambrian

Dated at Edmonton, this 6th day of July, 1966

Signed by (Original Signed) R. A. EVANS R.A. Evans

Title Production and Drilling Superintendent

Company ATLANTIC RICHFIELD COMPANY

(For Resource Management Division use only)

APPROVED

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

Date 11th July, 1966

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

File No.
Drilling Authority No. 235



DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
RESOURCE MANAGEMENT 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 Land Regulations", application is hereby made for approval to drill:—

Name and number of well. Atlantic Little Chicago N-32
Location: Unit N Section 32 Grid 67° 20' N Lat. 130° 00' W
Latitude 67° 11' 46" Longitude 130 06' 55" Long.
From Established Reference Marker

Elevation: Ground 280 (est) K.B. 292 (est) feet above sea-level.

Well is expected to produce from Silurio-Ordovician formation at a depth of about 2200 feet.

Area assigned to well (for Oil Conservation Engineer's use only)

Permit No. 4103 Lease No. Acreage

Permittee, licensee, or lessee Atlantic Richfield Company

Exploratory Licence No. 1029

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	Brand	New or Used	Estimated Depth	Sacks of Cement
1. 16" Conductor	55	F-25		New	70	(Circ) 100 CHES. + 2% CaCl ₂ .
2. 8-5/8"	24	J-55	ST & C	New	600	(Circ) 400 CHES. + 2% CaCl ₂ .
3.						
4.						
5.						

Expected water, gas, and oil horizons and type of control equipment. All horizons to be controlled with drilling fluids of proper density. BOP's: one 10" 3000# Hydril, and one 10" 3000# Double Gate Shaffer with pipe and blank rams.

Well will be drilled with (Rotary) Rig No. 1E by S & T Drilling Company Ltd.
(Cable) (Drilling Contractor or company)

5825 - 98th Street, Edmonton

Responsible agent of applicant:—

Contractor's Business Licence No. 24354

At well J.W. Davidson At registered office R.A. Evans

Address 10025-108th St., Edmonton, Alta. Address 10025-108th St., Edmonton, Alberta.

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

Dated at Edmonton this 16 day of June 1966

Signed by R.A. Evans R.A. Evans Company Atlantic Richfield Company

Title Prod. & Drlg. Supt. Operator's Licence No. 1029

(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.

Oral approval given earlier.

Dated 22 June 1966

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

NANR 52-90-1 (7-65)

UNIVERSAL WELL LOCATION REFERENCE: 67.19611° N. 130.11527° W.

Canadian Pacific

CD 2x

TELEGRAPHS

WORLD WIDE COMMUNICATIONS

CHECK	Class of Service Desired
	☒ FULL RATE
	☐ DAY LETTER
	☐ NIGHT MESSAGE
	☐ NIGHT LETTER

TIME FILED 11:45 a.m.

Send the following message, subject to the terms on back hereof, which are hereby agreed to.

Calgary, 21st June 1966

(Confirmation)

RESOURCE MANAGEMENT DIVISION
DEPARTMENT OF NORTHERN AFFAIRS & NATIONAL RESOURCES
400 LAURIER AVENUE, WEST
OTTAWA ONTARIO

INQUEST STATUS & SURFACE DISPOSITION PERMIT 4103

A. R. COAD

(Phoned in)

WELL HISTORY REPORT

ATLANTIC LITTLE CHICAGO N-32

246-11-6-24

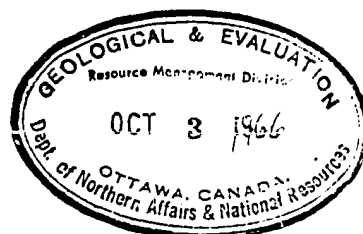
WELL HISTORY REPORT

ATLANTIC LITTLE CHICAGO N-32

RA Evans

R.A. Evans
Superintendent

Atlantic Richfield Company,
10025 - 108th Street,
Edmonton, Alberta.



WELL HISTORY REPORT
ATLANTIC LITTLE CHICAGO N-32

Section I - SUMMARY OF WELL DATA

- a) Well Name
- b) Permittee
- c) Operator
- d) Location
- e) Co-ordinates
- f) Permit No.
- g) Drilling Contractor
- h) Drilling Authority
- i) Classification
- j) Elevation
- k) Spudded
- l) Completed Drilling
- m) Total Depth
- n) Well Status
- o) Rig Released
- p) Hole Size
- q) Casing

Section II - GEOLOGICAL SUMMARY

- a) Formation Tops
- b) Cored Intervals
- c) Core Description
- d) Sample Description

Section III - ENGINEERING SUMMARY

- a) Report of Drill Stem Tests
- b) Casing Record
- c) Bit Record
- d) Mud Report
- e) Deviation Record
- f) Abandonment Plugs
- g) Lost Circulation Zones
- h) Report of Blowouts

Section IV - LOGS

Section V - ANALYSIS

- a) Core Analysis
- b) Water Analysis
- c) Gas Analysis
- d) Oil Analysis

Section VI - COMPLETION SUMMARY

- a) Tubing Record
- b) Perforation Record
- c) Cementation Record
- d) Acidization and Fracturing Record
- e) Back Pressure and Production Tests

Section I - SUMMARY OF WELL DATA

- a) Well Name: Atlantic Little Chicago N-32
- b) Permittee: Atlantic Richfield Company
- c) Operator: Atlantic Richfield Company
- d) Location: Unit N, Section 32, Grid 67° 20' N Lat, 130° 00' W Long.
- e) Co-ordinates: 67° 11' 46" North Latitude, 130° 06' 55" West Longitude.
- f) Permit No: 4103
- g) Drilling Contractor: S & T Drilling Company Ltd. Rig 1E
- h) Drilling Authority: No. 235 issued June 22, 1966 and an amendment approved July 11, 1966.
- i) Classification: Exploratory Well.
- j) Elevation: Ground - 280 feet
RKB - 292.2 feet
- k) Spudded: June 16, 1966 at 2:30 P.M.
- l) Completed Drilling: July 13, 1966 at 7:00 P.M.
- m) Total Depth: 6422 feet.
- n) Well Status: Plugged and Abandoned.
- o) Rig Released: July 18, 1966 at 10:00 A.M.
- p) Hole Size: 0 - 53 feet 20 inch, 53 - 615 feet 11 inch,
615 - 6422 feet 7-7/8 inch.
- q) Casing: Conductor pipe - 16", 55#, F-25 from 0 - 53'
Surface Casing - 8-5/8", 24 and 28#, J-55 and N-80
from 0 - 606.16'

Section II - GEOLOGICAL SUMMARY

a)	<u>Formation Tops</u>	<u>Samples</u>	<u>Logs</u>
	Hare Indian (Shale)	240	254
	Hume	510	518
	Bear Rock	820	815
	Bear Rock Dolomite	1430	1430
	Silurian-Ordovician	2590	2580
	Cambrian	6235	6230
	Cambrian (Halite)	6400	6383
	T.D.		6422

b) Cored Intervals:

<u>Core No.</u>	<u>Formation</u>	<u>Interval</u>	<u>Recovery</u>
1	Bear Rock Dolomite	1859 - 1920	59.3

c) Core Description: See Appendix 1.

d) Sample Description: See Appendix 1.

Section III - ENGINEERING SUMMARY

a) Report of Drill Stem Tests: See Appendix 2.

b) Casing Record:

6-16-66: Set 2 jts (40) 16", 55#, F-25 plain end conductor pipe at 53' KB in 20 inch hole. Cemented with 75 sacks Canada High Early Set Cement plus 2% calcium chloride.

6-21-66: Set 20 jts (623.56) 8-5/8", 24 and 28#, J-55 and N-80 casing at 606.16' in 11 inch hole. Cemented with 330 sacks Canada High Early Set Cement plus 2% Calcium Chloride. No cement returns.

6-22-66: Recemented 85' down the casing annulus with 90 sacks Construction Cement plus 3% Calcium Chloride. No cement returns.
Re-cemented 40' down the casing annulus with 60 sacks Canada High Early Set Cement plus 3% Calcium Chloride. Good cement returns.

c) Bit Record: See Appendix 2.

d) Mud Report: See Appendix 2.

e) Deviation Record: See Appendix 2.

f) Abandonment Plugs:

7-16-66 - Plug #1: 6422 - 6300, cemented with 60 sacks Oilwell cement. Plug down at 8:30 P.M.

7-16-66 - Plug #2: 3700 - 3600, cemented with 50 sacks Canada High Early Set cement plus 4% Calcium Chloride. Plug down at 9:20 P.M. *Felt @ 3592'*

7-17-66: After 7-1/2 hours felt Plug #2 at 3592.

Plug #3: 1500 - 1300, cemented with 85 sacks Canada High Early Set cement plus 4% Calcium Chloride. Plug down at 5:48 A.M. After 8 hours felt plug at 1346.

Plug #3A: 1346 - 1250, cemented with 40 sacks Canada High Early Set cement plus 4% Calcium Chloride. Plug down at 2:26 P.M. After 8 hours felt plug at 1282.

7-17-66: Plug #4: 650 - 550, cemented with 60 sacks Canada High Early Set cement plus 4% Calcium Chloride. Plug down at 11:05 P.M. *Felt @ 541'*

7-18-66: After 7-3/4 hours, felt Plug #4 at 541'. Cut casing 3' below ground level and placed 10 sack plug inside the casing. Welded on steel plate and erected required well monument.

----- continued -----

g) Lost Circulation Zones:

No lost circulation encountered.

h) Report of Blow-outs: None

Section IV - LOGS (ENVELOPE)

a) Electric Logs:

<u>Date</u>	<u>Log Type</u>	<u>Scale</u>	<u>Intervals</u>
7-14-66	Microlaterolog - Caliper	2 & 5"	604 - 6420
7-14-66	Sonic Gamma Ray	2 & 5"	606 - 6411 <i>with Gamma Ray from 50-60'</i>
7-14-66	Laterolog	2 & 5"	606 - 6415
7-16-66	Compensated Formation Density	2 & 5"	605 - 6418
7-15-66	Velocity Survey		700 - 6385

b) Baroid P.P.M. Log from 610 - 6422'.

Section V - ANALYSIS

- a) Core Analysis: See Appendix 1;
- b) Water Analysis: See Appendix 1.
- c) Gas Analysis: None
- d) Oil Analysis: None

Section VI - COMPLETION SUMMARY

- a) Tubing Record: None
- b) Perforation Record: None
- c) Cementation Record:
 - Cementation of Casing see III (b)
 - Abandonment Plugs see III (f)
- d) Acidization and Fracturing Record: None
- e) Back Pressure and Production Tests: None

APPENDIX I

ATLANTIC LITTLE CHICAGO N-32

Core Description

Core #1 (1859-1920)

Cut 61

Rec 59.3'

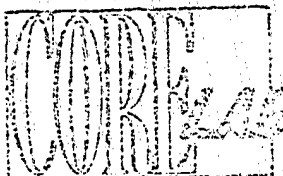
- 11.5' Dolomite: Med gry-brn/lt. brn-gry, vfxln/microxin, recrystallized in pt, NCSOF, ti: - rare small vugs infilled with clear secondary dolomite rare high angle (near verticle) hairline fractures infilled with wht secondary dolomite. Rare stylolites.
(Core contaminated with dk.brn.greasy substance.
core probably contaminated in core barrel). (Cronox)
- 11.8' Dolomite: Dr brn-gry/lt brn-gry, vfxln/microxln, sl. argil, in pt, ti: scatt small vugs infilled with clear/wht secondary dolomite. - Core ptly contaminated - A/A.
- 13.6' Dolomite: Brn-gry/dk brn-gry, microxln, NCSOF scatt fair/poor vugular porosity throughout interval (1.3' fair porosity, 12.3' poor porosity) scatt hairline fractures & small vugs partly infilled with white secondary dolomite. Rare stylolites; core ptly contaminated with dk brn substance- A/A. (Cronox)
- 6.3' Dolomite: Gry-brn/dk gry-brn, microxln, sl. argil, tight. Rare small vugs & hairline fractures infilled with white xln dolomite. Rare stylolites.
- 4.9' Dolomite: Lt gry-brn/gry-brn, microxln. Ptly recrystallized ti scatt recrystallized fossils.
- 7.8' Dolomite: Gry-brn/dk gry-brn, vf xln/microxln, NCSOF, scatt poor interxln & vugular porosity (in upper 3' of interval), No cut, stain, odor or fluor.
- 1.6' Dolomite: Lt gry-brn/buff, microxln, scatt. Small vugs & fine fractures infilled with white secondary dolomite.
- 0.6' Dolomite: Grey, microxln/lith argil tight.
- 1.2' Dolomite: Gry-brn/lt gry-brn, microxln/vf xln NCSOF tight.

ATLANTIC LITTLE CHICAGO N-32

Sample Description

- Surface - 254' (Glacial Drift)
- 254 - 518' (Hare Indian) - Shale: Grey to Dark Grey
(Upper 90' Slightly Calcareous.)
(Note: Small gas Blow (Surface Gas) while tripping at 421'.)
- 518' - 815' (Hume:) Shale: Grey to Dark Grey, Micromic in Pt, Ptly Calc., Ptly Foss., with inbds Ls: Gy-Brn/Dk Gry-Brn, Ptly Buff/Lt Brn V.F. XLN/Microxln, Foss, Ptly Chky, Tight. (No oil cut, stain, odor or flavor.) Contains Brachiopods, Pelecypods, Crinoids and Skeletal Detritus.
- 815' - 1430' (Bear Rock) Limestone: Lt Brn/Brn, Ptly Buff, Ptly Gy-Brn/Dk Gry-Brn, Microxln, Ptly Chky, Ptly Recrystallized along Fractures, Tight. No Oil cut, Stain, Odor or Flavor. - No Gas Kick on Baroid Gas Analyzer.
(Note: 5' Gas Flare After connection at 959' (Flare Burned only when air was turned off for connection)
(Drillstem Test (820' - 970') Recovered 880' Sl. Sulph. Salt water.)
- 1430' - 2580' (Bear Rock Dolomite: Gry-Brn/Brn/Dk Gy-Brn, Ptly Grn/Lt Brn, V.F.xln/microxln, Ptly Chky, Scattered fair/poor vugular and interxln porosity (in upper two thirds of interval); W/Strgs and interbeds of Limestone (in upper and lower third of interval).
Shale: Gy/Gy-Grn, Ptly Lt Grn, Ptly Pyritic
Limestone: Gy/Buff/Lt Brn, Microxln, Ptly Chky, Ti:
- 2580 - 6230' (Silurian-Ordovician) Dolomite: Wht/Lt Brn/Dr Gy-Brn, V.F. XLN/Microxln, Ptly Fine XLN/Med. XLN, Bedded Chert Zones, Scattered interxln Porosity (in Upper 200' of Interval); with Strgs Shale: (in Upper 700' and Lower 1200') Gy/Gy-Grn. Ptly Lt Grn. Ptly Pyritic. Ptly Dolomitic.
- 6230 - 6383 (Cambrian) Shale: Gry-Grn/Maroon/Grn, Dolomitic in Pt, waxy in Pt., with Strgs Dolomite, Limestone, Sltst and Sandstone.
Dolomite: Lt/Dk Gry, V.F. XLN/Microxln, Argil, Ti;
Limestone: Lt Gy, Microxln, Argil, Ti;
Siltstone: Brn, Dolomitic,
Sandstone: Wht, VFG, Dolomitic, Silty, Argil, Ti;
- 6383 - 6422 (T.D.)(Cambrian) Halite
Shale, Sandstone and Dolomite: A/A, W/Probable Strgs of Halite:
(Porosity in Dolomite Possibly due to Solution of Halite Infill During Drilling Operations).

CORE LABORATORIES - CANADA LTD.



Petroleum Reservoir Engineering

COMPANY

FIELD

FILE CNP-4.3326

WELL Atlantic Little Chicago N-32

DATE

LOCATION

PROV

ELEV

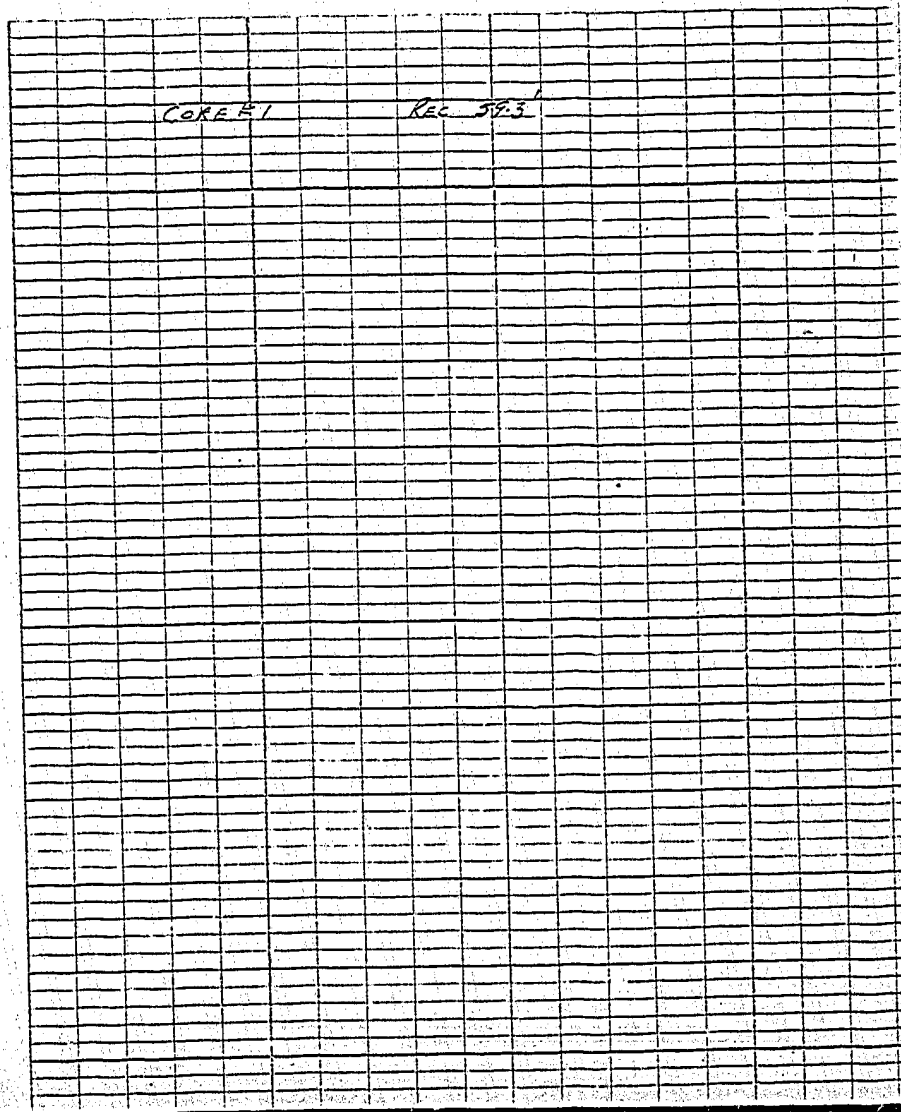
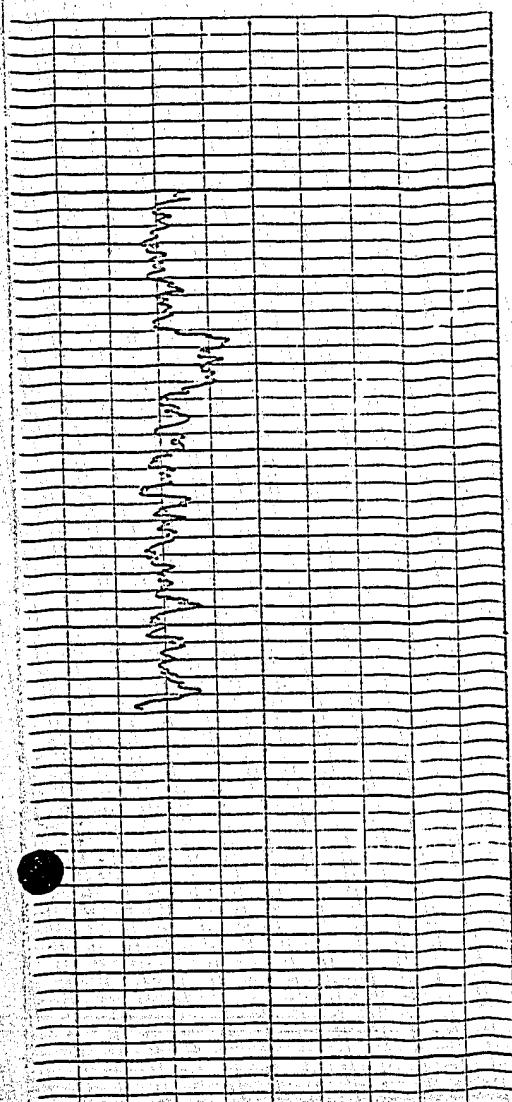
CORE-GAMMA CORRELATION

These analysis, surveys or interpretations are based on observations of materials supplied to the client by whom, and for whose satisfaction and confidential use, the report is made. The interpretation is subject to change without notice. The client is responsible for the accuracy of the data and for the interpretation of the results. The client is also responsible for the accuracy of the data and for the interpretation of the results. The client is also responsible for the accuracy of the data and for the interpretation of the results.

T.C. 12 Secs.

VERTICAL SCALE: 5" = 100'

Sens. 7500 GPM.



CORE LABORATORIES - CANADA, LTD.
Petroleum Reservoir Engineering
CALGARY, ALBERTA

Company Formation Page 1 of
 Well ATLANTIC LITTLE CHICAGO N-3.2 Date Report File CAP-4 33.2B
 Field, Province D. Fluid Analysts Remarks

CORE ANALYSIS RESULTS
 (Figures in parentheses refer to footnote remarks)

NOTE
 ALL SAMPLES WERE SAND BLASTED.
 MOST SAMPLES CONTAIN SOME CALCITE.

Sample Number	Depth Feet	Ft. Rep.	Permeability Millidarcys		Perm. Ft.	Porosity Percent	Porosity Feet	Density		Residual Saturation		Visual Estimation
			K Max	K 90°	KV			Bulk	Grain	Oil %	Water %	
			Core #1									
1	5.5		2.3	2.2	1.15	7.3	3.65					DENSE
2	0.5		0.21	0.08	0.273	5.9	2.67			0.0	44.1	1 PPV
	1.3											1 STY
3	4.5											DENSE
	0.6		0.03	0.01	0.013	5.0	3.00					1 PPV
11	0.7		0.06	0.01	0.042	3.1	2.17			0.0	41.9	1
	5.8											DENSE
5	1.0		0.02	0.02	0.020	3.6	3.60			0.0	36.2	1
6	1.1		0.05	0.03	0.055	3.2	3.52			0.0	12.5	1
	1.2											DENSE
557	0.7		*	0.1	*	2.3	1.61					PPV 50-60% Calc
58	1.2		13.	3.5	15.6	4.4	5.53			0.0	55.2	1 PPV
9	0.6		0.74	0.26	0.444	3.2	1.92			0.0	62.5	1
	2.0											DENSE
10	0.8		0.03	0.03	0.034	1.3	1.04					1 PPV
11	0.9		2.5	2.1	2.25	9.2	5.23			0.0	42.6	PPV F
12	0.6		*	0.05	*	7.5	4.50			0.0	34.7	1 PPV F

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CORE LABORATORIES - CANADA, LTD.

Petroleum Reservoir Engineering
CALGARY, ALBERTA

Company Formation Page 2 of

Well ATLANTIC LITTLE CHANCO N-32 Date Report File CWP-7- 2328

Field, Province Analysts

Location Analysis Remarks

CORE ANALYSIS RESULTS

(Figures in parentheses refer to footnote remarks)

Core Number	Depth Feet	Ft. Rep.	Permeability Millidarcys		Form. Ft.	Porosity Percent	Porosity Feet	Density		Residual Saturation		Visual Examination
			K Max	K 90°				Bulk	Grain	Oil %	Water %	
13		0.7	1.6	1.5	0.96	3.5	5.95			0.0	44.7	1 PPV
14		0.6	2.6	2.1	0.26	9.9	5.94			0.0	59.9	1 PPV
15		0.1	0.12	0.06	0.013	7.2	2.83			0.0	51.9	1 PPV
16		0.7	0.36	0.13	0.134	2.5	1.75			0.0	64.0	1 PPV
17		1.4	0.01	0.01	0.041	2.7	3.73			0.0	71.5	PPV
18		0.3										DENSE
19		0.8	0.09	0.09	0.072	4.5	3.60			0.0	47.6	1 PPV
20		0.5	0.28	0.33	0.140	7.9	3.25			0.0	43.0	1 PPV
21		0.3	14.	12.	4.20	13.5	1.05					1 PPV
22		0.4	1.3	1.3	0.520	11.1	4.44					1 PPV
23		0.5	0.05	0.02	0.025	6.9	3.35					1 PPV
24		0.7	0.03	0.03	0.021	3.4	2.33			0.0	58.8	1 STY
25		1.4	0.03	0.03	0.031	5.2	7.23			0.0	61.5	1
26		0.7	0.02	0.02	0.014	3.3	2.62			0.0	44.7	1 PPV
27		0.4	0.23	2.31	0.112	9.2	3.53			0.0	40.2	1 STY
28		1.2	0.03	0.01	0.035	3.5	4.20					1
29		1.1	0.03	0.03	0.033	1.1	1.21					DENSE
30		0.8	0.10	0.02	0.080	1.0	0.10					DENSE
31		5.2										DENSE

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CORE ANALYSIS RESULTS

[illegible]

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CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E66-1472

Received: July 20, 1966 Reported: July 27, 1966

Operator: Atlantic Richfield Company

Well: Location: Atlantic Little Chicago N-32

Field or Area: N.W.T.

Elev.: K.B. 292.2' Grd. 280' Zone/Formation: Hume

Method of Production: D.S.T. #1

Sampled from: at tool.

Sample Interval: 820' - 970'

Sampled by: J.W. Davidson

Date: June 25, 1966

OTHER PERTINENT DATA "SEE INFORMATION SHEET"

(Signed) J.W. Davidson,
Atlantic Richfield Co.

	Na	K	Ca	Mg	SO ₄	Cl	CO ₃	HCO ₃	
Mg./L	4,303		280	542	114	8,180		770	
Meq./L	187.16		13.97	44.55	2.37	230.68		12.63	
Meq. %	38.09		2.84	9.07	0.48	46.95		2.57	

Total Solids Mg/L:

By Evaporation 15,615

Fe Present Specific Gravity 1.015

Observed pH 7.8

@ 75 °F

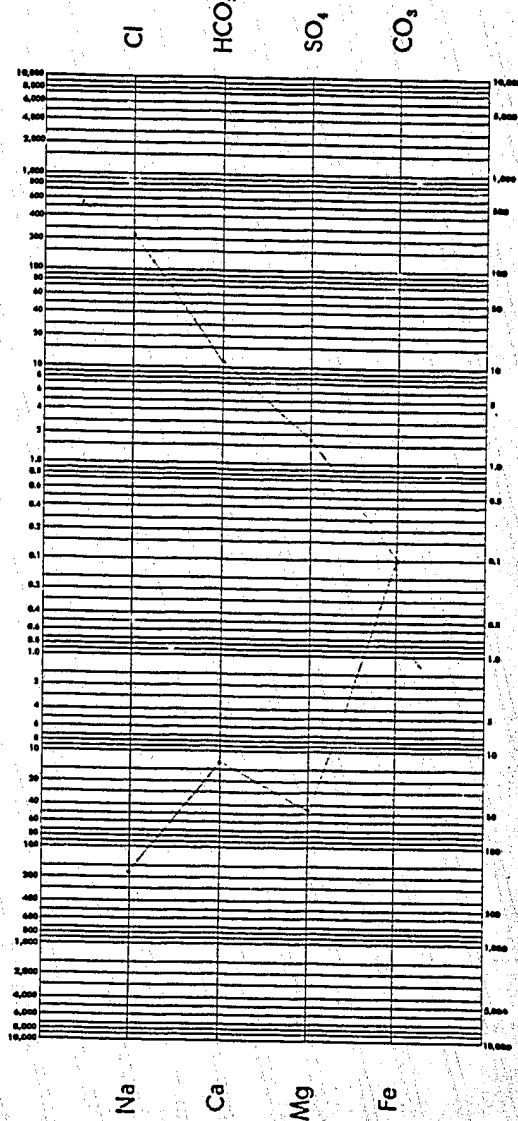
Calculated 14,189

After Ignition 12,575

H₂S Present Refractive Index 1.3390

Resistivity 0.488 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

The sample as received contained a relatively large amount of black coloured sediment (possibly iron sulfide). The filtered sample was clear and colourless. Formation water analysis from this area are too limited for correlation of this sample.

OIL AND GAS CONSERVATION BOARD (PROVINCE OF ALBERTA)

Laboratory Report Number: E66-1472

STANDARD SAMPLE INFORMATION SHEET

INFORMATION TO BE FORWARDED WITH EACH SAMPLE OF WATER, OIL OR GAS (Please supply as much of the following information as possible. Please Print Clearly.)

Kind of sample (water, oil or gas): Water

Marks on sample container: D.S.T. #1, Little Chicago N-32.

Sample obtained by: J.W. Davidson

Date: 6/25/66

Operator: Atlantic Richfield Co.

Mailing address for results:

Well name and No. Atlantic Little Chicago Field or Area: N.W.T.
N-32

Located in: L.S.D.	Sec.	Twp.	Rge.	W	Mer.	Elev:	K.B. 292.2
	67° 11' 46" N.	130° 06' 55" W.					Grd. 280

Sample obtained from (line, tubing, separator, etc.): D.S.T.

Pressure: (a) at point of sampling psig. (b) Gas Bomb pressure psig.

Temperature: (a) at point of sampling °F (b) Separator °F

Name of Zone and Formation: Hume

Method of Production: D.S.T., Pump, Flowing, Swabbing,

Other (specify)

If D.S.T. sample, D.S.T. results: D.S.T. #1

Interval 820' - 970'

Height taken above tool: at tool.

Recovery 880' salt water.

Mud Type: Fresh water

Well production at sampling time: Oil Bpd; Gas MCFD; Water Bpd.

Perforations or open hole interval:

Pressures: Reservoir , Tubing , Casing , Separator

REMARKS:

J.W. Davidson

(Signed)

Atlantic Richfield Co.

(Company)

DRILL STEM TESTS SUMMARY

DST	Formation	Depth Interval	Initial Flow (Min.)	Initial Shut-in (Min.)	Flow Period (Min.)	Final Shut-in (Min.)	Recovery	Pressures
1	Hume	820 - 970	3	30	60	60	Recovered 880' slightly sulphurous salt water.	IHP 418 IFP 110 ISIP 417 FFP 154 FSIP 413 FHP 405

Atlantic Little Chicago N-32

e) Deviation Record: Slope tests by Rig Wireline

<u>Depth</u>	<u>Degree</u>	<u>Depth</u>	<u>Degree</u>
75	1/8	4274	1-1/4
135	1/8	4733	1
344	1/4	5194	1/2
450	1/2	5452	1
615	1/2	5702	MR
800	3/4	5862	1/2
1220	7/8	6104	1/2
1845	2	6422	1/2
2331	1-3/4		
2776	1-3/4		
3460	1-7/8		
3955	1-1/8		

DRILLING PROPOSAL

TIGHT HOLE

SUBJECT: Atlantic Middle Chicago M-32

March 25, 1966

Authorization No: 54-2549

Region: Canadian

District: B.C. - N.W.T. District

Location: 67° 11' 55" N, 133° 07' W.

Project: To test all formations down to and including the Siluro-Ordovician.

Depth: 2200': All drilling on a dry wash basis. Sufficient drill pipe will be used to permit drilling to 3000'.

Casing Program: Conductor: 0 - 75', 16" 554, W26 (welded connections). Conductor to be set through Glacial Drift. Surface: 0 - 600', 8-5/8", 244, J-S. This casing to be set at least 20' into the Burn Limestone. Production: To be designed as required. Casing Head: 16" API 2000

Cement Program: Conductor: Cement to surface with 400 Sx high early strength cement + 2% C.G.L.
Surface Casing: Cement to surface with 400 Sx high early strength cement + 2% C.G.L.
Production Casing: To be designed as required.

Estimated Formation
Logs:

Based on estimated ground elevation 250'

Fort Grant shale	surface
Fort Indian shale	200'
Burn Limestone	600'
Fort Rock limestone	1400'
Siluro-Ordovician	1900'
T.D.	2200' (311-Ord)

continued on Page Two

Mid Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>
12-1/4" Surface 0' - 600'	Gel	9 - 10#/gal.	50-100 Secs.	10 - 15 cc.
7-7/8" 600' - T.D.	Air/Mist/Aerated Water/Water			

Air will be attempted below 3-5/8" casing shoe. If formation water is encountered, mist drilling will be attempted using lime and soap. If volume of formation water is too great for mist drilling an aerated or straight water system will be used to T.D.

Inhibitor to be added as required. Corrosion coupons to be used in drill pipe from surface shoe to TD.

If gel mud is required to reach TD, mud properties should be:

Weight	9.4 lb/gal or less.
Viscosity	40 - 50 sec/qt. (increase as required)
Water Loss	Natural value of $\frac{1}{2}$ 15 cc/30 min.
P.H.	9.5 (higher if corrosion)
Filter Cake	2/32 inches or less.

Ferrocchrome lignosulfonates will be used to treat contamination as needed.

Surveys:

1. Induction Electrical Log (GWH40)

Run 2" and 5" scales, surface casing to T.D.
Run repeat section over lower 150' of hole.
Run S.P. curve with power off over lower 150 feet of hole. Use 20 millivolts/inch division on S.P. curve. Use 0 - 100 ohm scale on induction curve.

2. Porchale Compressed Sonic Log

Run 2" and 5" scales, surface casing to T.D.
Run repeat section over lower 150' of hole.
Do not run integration with sonic log. Use 0 - 120 Gamma Ray API units as scale on gamma ray curve.
Use 40-70-100 microseconds/ft. as transit time scale.

3. Microlog-Log-Salman

Run 2" and 5" scales, surface casing to T.D.
Run repeat section over lower 150' of hole.
Use 0-250-cc ohm on linear scale.

A footage/time recorder from surface to T.D. will be supplied.
A focusing type log package will be substituted for the above if the well should be deepened to the Cambrian.

Coring and Drill Stem Testing

Coring and drill stem testing will be largely left up to the discretion of the wellsite geologist. It is suggested that full diameter cores be taken in any geological zone with a significant gas kick on gas analysis unit or in any zone exhibiting free oil seepage. In the event that hydrocarbons are found from coring and/or gas analyzer unit, a drillstem test should be run. If hydrocarbons are present on drillstem test, an additional 60 foot core should be cut and drillstem test run. Coring and testing should be continued until either is obtained or until core has been penetrated. Inasmuch as this well is a test for stratigraphic information, the geologist should feel free to core or test any zone to which he has serious question.

Samples:

It is extremely important that satisfactory samples be obtained. If in the opinion of the wellsite geologist the samples are unsatisfactory, the necessary steps will be taken to correct the situation.

1. Two bags of washed and dried samples will be collected every 10 feet then glass route to T.D.
2. Gas bag will be shipped direct to the proper Federal agency.
3. Two cuts will be taken from the other bag for distribution as follows:
 1. one cut to be retained at wellsite.
 2. one cut for Atlantic Calgary office to be shipped to office at regular intervals.

Ship all tagged samples to Specs Exploration Services
c/o Atlantic Refining Company
1002 - 10th Avenue S.W.,
Calgary, Alberta

Fluid Samples:

Obtain three samples of fluid recovered on each D.S.T. Preliminary analysis will be made at the wellsite and one sample sent to C. & C. Labo for analysis. Additional 10 gallon sample of oil is required. Fluid samples will be taken from any zone flowing water during drilling. These should be sent in regularly for analysis.

----- continued on Page Four -----

Field Samples:
(Continued)

The wellsite geologist will ensure that water resistivities of recovered formation fluid are taken by Schlumberger at the wellsite. These formation water resistivities should be recorded on the appropriate resistivity log film by the Schlumberger engineer.

Mud Logging:

One mud gas analyzing unit, from surface to TD will be supplied by Envid.

Elevation:

Estimated ground elevation 200'. Actual elevation will be noted on our report when available.

True Completion: To be determined.

Completion

Equipment: To be determined and added to drill site as required.

Endorsed:

R. A. Jones
K. C. McDowell
Production and Drilling Superintendent

Date: May 16/66

F. G. Vetsch

Regional Operations Manager

Date: May 18, 1966

T. J. Hitchcock

Regional Exploration Manager

Date: May 19, 1966

Approved:

Fred A. Eidenbrand
Regional Manager

Date: May 20, 1966

CORE ANALYSIS REPORT
FOR
ATLANTIC RICHFIELD COMPANY
ATLANTIC LITTLE CHICAGO N-32
WILDCAT
NORTHWEST TERRITORIES

CORE LABORATORIES - Canada Ltd.

Petroleum Reservoir Engineering

CALGARY - EDMONTON - REGINA

CORE LABORATORIES - CANADA LTD.



Petroleum Reservoir Engineering

COMPANY Atlantic Richfield Company FIELD Wildcat FILE CNP-4 3328
WELL Atlantic Little Chicago N-32 DATE Nov. 3/66
LOCATION _____ PROV. _____ ELEV. _____

CORE-GAMMA CORRELATION

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T.C. 12 Secs.

VERTICAL SCALE: 5" = 100'

Sens. 7500 CPM.

1859

1920

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

Company	- ATLANTIC RICHFIELD COMPANY	Date Report	- NOVEMBER 8, 1966	Page	- 1 of 2
Well	- ATLANTIC LITTLE CHICAGO N-32	Formation	- BEAR ROCK	File	- CNP-4-3328
Field	- WILDCAT, NORTHWEST TERRITORIES	D. Fluid	- WATER BASE MUD	Analysts	- SS RM
Location	- 67° - 11' - 46" N 130° - 6' - 55" W	Analysis	- FULL DIAMETER	Cores	- DIAMOND

Note: All samples were sand blasted. Most samples contain some calcite.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL)		PERM. X FEET	POROSITY		RESIDUAL SATURATION		VISUAL EXAMINATION
			K MAX	K 90°		PER CENT	X FEET	OIL % PORE	TOTAL WATER % PORE	
CORED INTERVAL 1859' - 1920'										
CORE NO. 1 1859' - 1920' (Rec. 59.3') (13 Boxes)										
-	1859.0-1865.3	6.3	-	-	-	-	-	-	-	Dense
1	1865.3-1865.8	0.5	2.3	2.2	1.15	7.3	3.65	-	-	Intergranular, PPV.
2	1865.8-1867.1	1.3	0.21	0.08	0.273	5.9	7.67	0.0	44.1	Intergranular, stylolite
-	1867.1-1871.9	4.8	-	-	-	-	-	-	-	Dense
3	1871.9-1872.5	0.6	0.03	0.01	0.018	5.0	3.00	-	-	Intergranular, PPV.
4q	1872.5-1873.2	0.7	0.06	<0.01	0.042	3.1	2.17	0.0	41.9	Intergranular
-	1873.2-1879.0	5.8	-	-	-	-	-	-	-	Dense
5	1879.0-1880.0	1.0	0.02	0.02	0.020	3.6	3.60	0.0	36.2	Intergranular
6	1880.0-1881.1	1.1	0.05	0.03	0.055	3.2	3.52	0.0	12.5	Intergranular
-	1881.1-1882.3	1.2	-	-	-	-	-	-	-	Dense
SS-7	1882.3-1883.0	0.7	*	<0.1	-	2.3	1.61	-	-	PPV, broken core
8	1883.0-1884.2	1.2	13.	3.3	15.6	4.9	5.88	0.0	55.2	Intergranular, PPV.
9	1884.2-1884.8	0.6	0.74	0.26	0.444	3.2	1.92	0.0	62.5	Intergranular
-	1884.8-1886.8	2.0	-	-	-	-	-	-	-	Dense
10	1886.8-1887.6	0.8	0.03	0.03	0.024	1.3	1.04	-	-	Intergranular, PPV.
11	1887.6-1888.5	0.9	2.5	2.1	2.25	9.2	8.28	0.0	47.6	PPV. Fracture
12	1888.5-1889.1	0.6	*	0.05	0.030	7.5	4.50	0.0	34.7	Intergranular, PPV, fract.
13	1889.1-1889.8	0.7	1.6	1.5	1.12	8.5	5.95	0.0	44.7	Intergranular, PPV., argillaceous, fracture
14	1889.8-1890.4	0.6	2.6	2.4	1.56	9.9	5.94	0.0	69.7	Intergranular, PPV.

ATLANTIC RICHFIELD COMPANY
ATLANTIC LITTLE CHICAGO N-32

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL)		PERM. FEET	POROSITY		RESIDUAL SATURATION OIL	TOTAL WATER		VISUAL EXAMINATION
			K MAX	K 90°		PER CENT	FEET		% PORE	% PORE	
CORE NO. 1 cont'd											
15	1890.4-1890.8	0.4	0.12	0.06	<0.01	0.048	7.2	2.88	0.0	51.7	Intergranular, PPV.
16	1890.8-1891.5	0.7	0.26	0.13	<0.01	0.182	2.5	1.75	0.0	64.0	Intergranular, PPV.
17	1891.5-1892.9	1.4	0.01	0.01	<0.01	0.014	2.7	3.78	0.0	71.5	ppv.
-	1892.9-1893.2	0.3	-	-	-	-	-	-	-	-	Dense
18	1893.2-1894.0	0.8	0.09	0.09	<0.01	0.072	4.5	3.60	0.0	47.6	Intergranular, PPV.
19	1894.0-1894.5	0.5	0.28	0.23	<0.01	0.140	7.9	3.95	0.0	43.0	Intergranular, PPV.
20	1894.5-1894.8	0.3	14.	12.	3.9	4.20	13.5	4.05	-	-	Intergranular, PPV.
21	1894.8-1895.2	0.4	1.3	1.3	0.12	0.520	11.1	4.44	-	-	Intergranular, PPV.
22	1895.2-1895.7	0.5	0.05	0.02	<0.01	0.025	6.7	3.35	-	-	ppv.
23	1895.7-1896.4	0.7	0.03	0.03	<0.01	0.021	3.4	2.38	0.0	58.8	Intergranular, stylolite
24	1896.4-1897.8	1.4	0.03	0.03	<0.01	0.042	5.2	7.28	0.0	61.5	Intergranular
25	1897.8-1898.5	0.7	0.02	0.02	<0.01	0.014	3.8	2.66	0.0	44.7	Intergranular, argillaceous stylolite
25A	1898.5-1898.9	0.4	0.28	0.21	0.05	0.112	9.2	3.68	0.0	40.2	Intergranular, shale bre
26	1898.9-1900.1	1.2	0.03	0.01	<0.01	0.036	3.5	4.20	-	-	Intergranular
27	1900.1-1901.2	1.1	0.03	0.03	<0.01	0.033	1.1	1.21	-	-	Dense
28	1901.2-1902.0	0.8	0.10	0.02	<0.01	0.080	1.0	0.10	-	-	Dense argillaceous
-	1902.0-1907.2	5.2	-	-	-	-	-	-	-	-	Dense
29	1907.2-1908.9	1.7	1.5	1.3	0.33	2.55	7.4	12.58	0.0	40.6	Intergranular, PPV.
30	1908.9-1909.9	1.0	0.03	0.03	<0.01	0.030	1.4	1.40	-	-	Intergranular, calcite
31	1909.9-1911.1	1.2	0.82	0.20	0.06	0.984	7.4	8.88	0.0	43.3	Intergranular, PPV.
32	1911.1-1912.2	1.1	0.25	0.25	0.09	0.275	6.7	7.37	0.0	49.3	Intergranular, PPV.
33	1912.2-1913.3	1.1	0.57	0.46	0.09	0.527	7.8	8.58	0.0	37.2	Intergranular
34	1913.3-1914.4	1.1	1.2	0.92	0.17	1.32	9.6	10.56	0.0	57.4	Intergranular
35	1914.4-1915.0	0.6	0.03	0.03	<0.01	0.018	3.2	1.92	0.0	53.2	PPV.
-	1915.0-1918.3	3.3	-	-	-	-	-	-	-	-	Dense
-	1918.3-1920.0	1.7	-	-	-	-	-	-	-	-	Lost core

SS - Small sample
PPV - Pin point vugs

* - Broken or fractured core. K 90° used for summary purposes.

SONIC LOG

AND

WELL GEOPHONE SURVEY

ATLANTIC LITTLE CHICAGO N-32

N67°11'56" - W130°06'55"

N.W.T., CANADA

SONIC LOG

AND

WELL GEOPHONE SURVEY

ATLANTIC LITTLE CHICAGO N-32

N67°11'46" - W130°06'55"

N.W.T., CANADA

FOR

ATLANTIC RICHFIELD COMPANY

CALGARY, ALBERTA

INTEGRATED VELOCITY SERVICES LTD.

CALGARY, ALBERTA

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OPERATIONAL STATISTICS

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Velocity Test Records	1V
Sonic Log - Geophone Survey Deviation Graph	V
Linear Velocity Plot - Specimen Reflection Record	V1

165-0059-2 1

BACK COVER:

Calibrated Sonic Log

Digital Velocity Data Analysis

Well Velocity Graphs

OPERATIONAL STATISTICS

Client: Atlantic Richfield Company
Well: Atlantic Little Chicago N-32
Location: 67° 11' 46" N Lat., 130° 06' 55" W Long., N.W.T.

Survey Contractors:

Sonic Log - Schlumberger of Canada

Abbreviated Well Geophone Survey -
Electronic Logging and Velocity Ltd.

Survey Date: July 14, 1966

K.B. Elevation: 292 Ft. A.S.L.

Total Depth: Driller 6422 Ft.

S.O.C. 6420 Ft.

Casing: 606 Ft.

Sonic Tool Dimensions:

Spacing 3 Ft.

Span 1 Ft.

Geophone Level Surveyed: 8

Maximum Shot Hole Charge: 25 Lb. Dynamite

Minimum Shot Hole Charge: 1 1/4 Lb. Dynamite

Maximum Shot Depth: 60 Ft.

Minimum Shot Depth: 13 Ft.

Total Explosives Used:

Well Geophone Survey: 145 Lb. Dynamite
16 Seismic Caps

Reflection Spread:

Six stations recorded simultaneously with
velocity test shots.

Operating Time:

Well Geophone Survey:

First Run:

Well Available: 11:15 A.M., July 14, 1966
Well Released: 2:10 P.M., July 14, 1966

Second Run:

Well Available: 10:30 P.M., July 14, 1966
Well Released: 12:45 A.M., July 15, 1966

Velocity Records

Trace Arrangement

Trace #1	-	Well Geophone: Low Gain Setting
Trace #2	-	Well Geophone: Medium Gain Setting
Trace #3	-	Well Geophone: High Gain Setting.
Trace #4	-	Sub-reference Geophone
Traces # 5 to #10 Incl.	-	Surface Reflection Profile
Trace #11	-	Time Break
Trace #12	-	Uphole Time

SONIC LOG - WELL GEOPHONE SURVEY COMPARISON

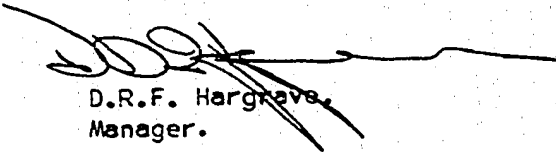
Datum Elevation: 80 Ft. A.S.L.

<u>D</u> <u>K.B.</u>	<u>T_c</u> (Geo.)	<u>T_c</u> (Log)	<u>Δtc</u>
700	.0520	.0532	+.0012
815	.0610	.0612	+.0002
1435	.0920	.0917	-.0003
2335	.1350	.1348	-.0002
3200	.1760	.1758	-.0002

<u>D_{K.B.}</u>	<u>T_c (Geo.)</u>	<u>T_c (Log)</u>	<u>Δ tc</u>
4200	.2240	.2241	+.0001
5200	.2720	.2704	-.0016
5235	.3180	.3177	-.0003
6385	.3260	.3260	.0000

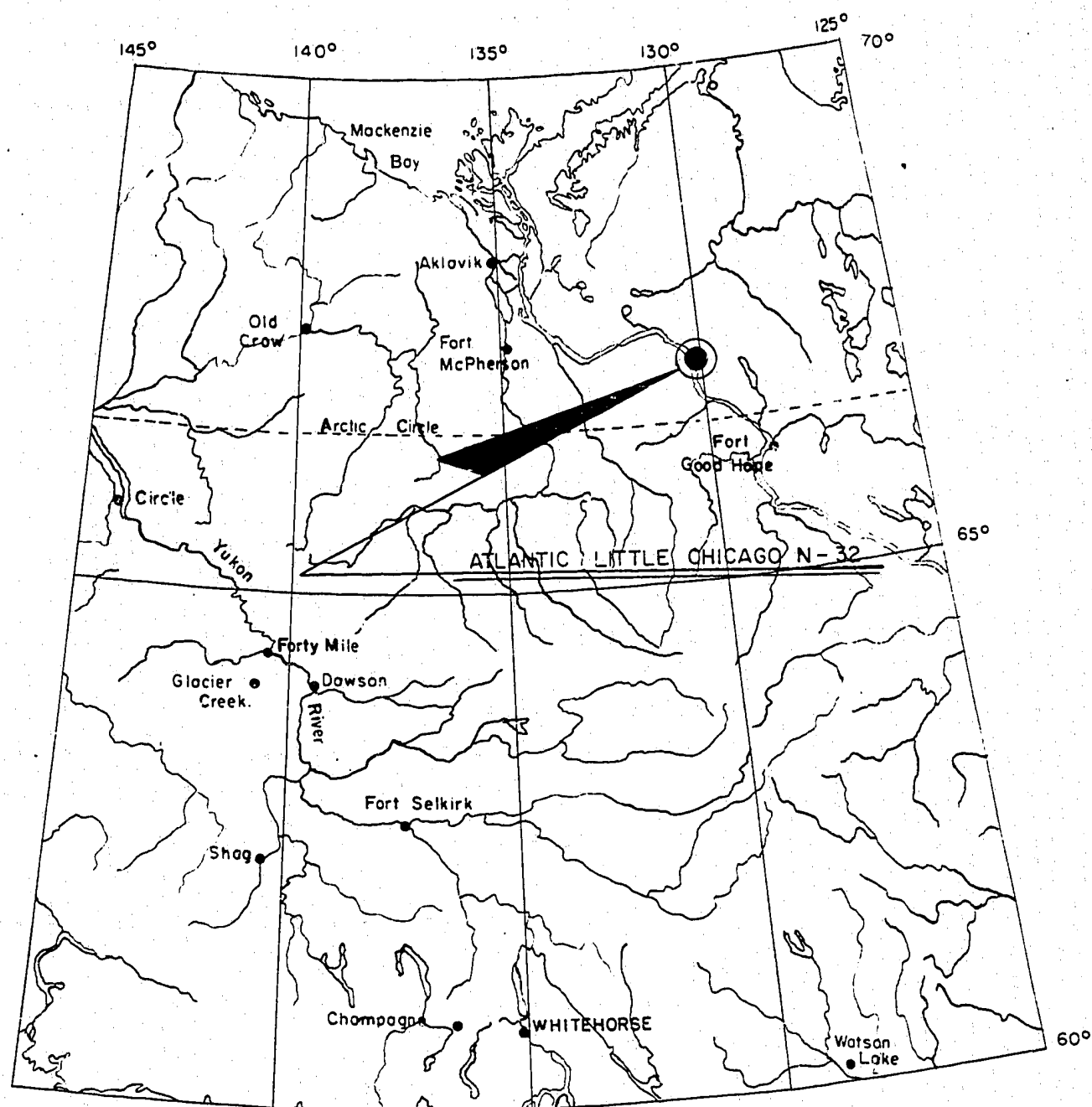
Reasonable agreement exists between data
at all levels tested and the survey is considered reliable.

Respectfully submitted,
INTEGRATED VELOCITY SERVICES LTD.


D.R.F. Hargrave,
Manager.

August 17, 1966

LOCATION MAP

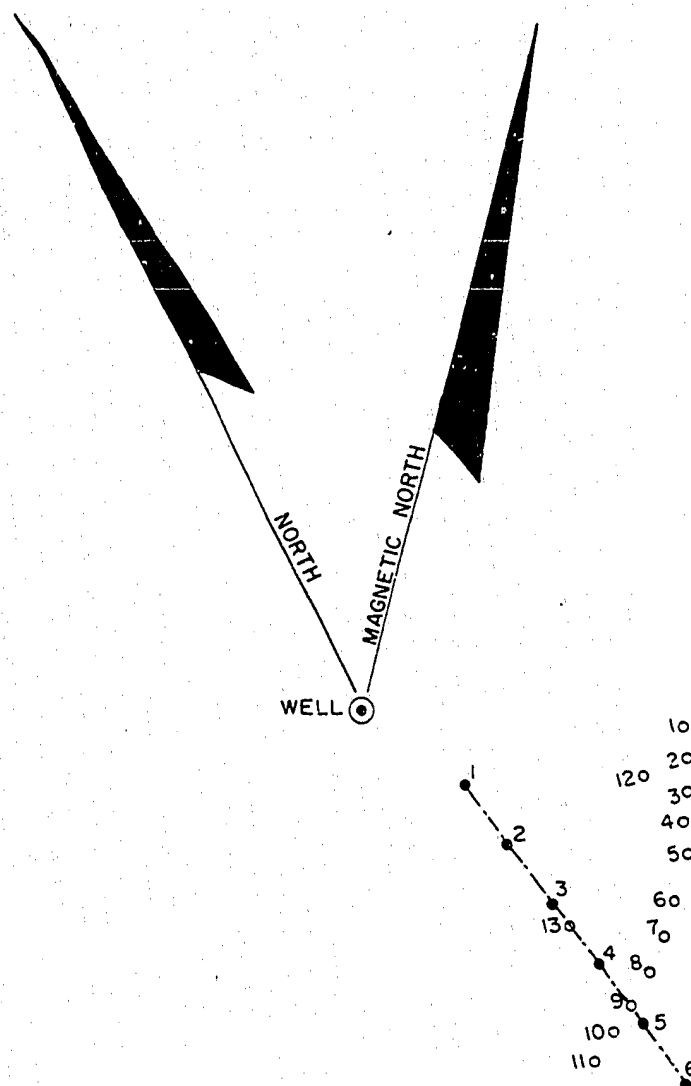


SHOOTING PLAN

Well: ATLANTIC LITTLE CHICAGO N-32

Location: $67^{\circ}11'46''$ N $130^{\circ}06'55''$ W

Scale: 1" = 100'



LEGEND:

- Well ⊙
 Shot Point ○
 Geophone ●

[illegible]

Well ATLANTIC LITTLE CHICAGO #32
Record No. 15. WELL GEOPHONE
Well Geophone Depth 700 N. (K.R.)
Shot Point 10 Amp. Gain % 32 %
Charge 5 No. Shot Depth 13 N.
Filter 30-64 Gen./Trace 3
Date July 14, 1966
DITRATED
Priority Service Ltd.

Well ATLANTIC LITTLE CHICAGO #32
Record No. 2 WELL GEOPHONE
Well Geophone Depth 815 N. (K.R.)
Shot Point 2 Amp. Gain % 20 %
Charge 1.8 No. Shot Depth 60 N.
Filter 30-64 Gen./Trace 3
Date July 14, 1966
DITRATED
Priority Service Ltd.

Well ATLANTIC LITTLE CHICAGO #32
Record No. 3 WELL GEOPHONE
Well Geophone Depth 1435 N. (K.R.)
Shot Point 3 Amp. Gain % 27 %
Charge 2.8 No. Shot Depth 60 N.
Filter 30-64 Gen./Trace 3
Date July 14, 1966
DITRATED
Priority Service Ltd.

Well ATLANTIC LITTLE CHICAGO #32
Record No. 4 WELL GEOPHONE
Well Geophone Depth 2375 N. (K.R.)
Shot Point 13 Amp. Gain % 34 %
Charge 2.8 No. Shot Depth 60 N.
Filter 30-64 Gen./Trace 3
Date July 14, 1966
DITRATED
Priority Service Ltd.

Well ATLANTIC LITTLE CHICAGO #32
Record No. 5 WELL GEOPHONE
Well Geophone Depth 3200 N. (K.R.)
Shot Point 6 Amp. Gain % 30 %
Charge 5 No. Shot Depth 60 N.
Filter 30-64 Gen./Trace 3
Date July 14, 1966
DITRATED
Priority Service Ltd.

Well ATLANTIC LITTLE CHICAGO #32
Record No. 6 WELL GEOPHONE
Well Geophone Depth 4200 N. (K.R.)
Shot Point 7 Amp. Gain % 40 %
Charge 5 No. Shot Depth 60 N.
Filter 30-64 Gen./Trace 3
Date July 14, 1966
DITRATED
Priority Service Ltd.

Well ATLANTIC LITTLE CHICAGO #32
Record No. 7 WELL GEOPHONE
Well Geophone Depth 5200 N. (K.R.)
Shot Point 8 Amp. Gain % 32 %
Charge 5 No. Shot Depth 60 N.
Filter 30-64 Gen./Trace 3
Date July 14, 1966
DITRATED
Priority Service Ltd.

Well ATLANTIC LITTLE CHICAGO #32
Record No. 13 WELL GEOPHONE
Well Geophone Depth 6235 N. (K.R.)
Shot Point 10 Amp. Gain % 35 %
Charge 13 No. Shot Depth 5278 N.
Filter 30-64 Gen./Trace 3
Date July 14, 1966
DITRATED
Priority Service Ltd.

Well ATLANTIC LITTLE CHICAGO #32
Record No. 14 WELL GEOPHONE
Well Geophone Depth 6365 N. (K.R.)
Shot Point 10 Amp. Gain % 40 %
Charge 25 No. Shot Depth 5278 N.
Filter 30-64 Gen./Trace 3
Date July 14, 1966
DITRATED
Priority Service Ltd.

Well ATLANTIC LITTLE CHICAGO #32
Record No. 16 WELL GEOPHONE
Well Geophone Depth 6420 N. (K.R.)
Shot Point 10 Amp. Gain % 28 %
Charge 25 No. Shot Depth 5278 N.
Filter 30-64 Gen./Trace 3
Date July 14, 1966
DITRATED
Priority Service Ltd.

VELOCITY TEST RECORDS
ATLANTIC LITTLE CHICAGO #32

$T_c - T_L = \text{Milliseconds}$

APP. V

.0200 (-) .0000 (+) .0200

Calibrating Adjustment:

$\frac{.0163''}{5685'} = 2.9 \text{ Microseconds Per Foot}$

INTERVAL TRANSIT TIME DECREASE

5685 Ft.

.0163 Sec.

1000

2000

DEPTH

3000

BELOW

4000

K.B.

5000

FEET

6000

7000

SONIC LOG - GEOPHONE SURVEY

DEVIATION GRAPH

ATLANTIC LITTLE CHICAGO N-32

KE 10 X 10 TO 1 1/2 INCH 46 1323
KEUFFEL & ESSER CO.

SPECIMEN REFLECTION RECORD

ADJUSTED SONIC TRAVEL TIME CORRECTED TO EQUIVALENT SURFACE ARRIVAL TIME

$$2t_e + t_{uh} = 2(.015") + .009" = .039"$$

NOTE: CORRECTION DOES NOT INCLUDE INDETERMINABLE LAG DUE TO INSTRUMENT AND GROUND FILTERING EFFECTS.

Well ATLANTIC LITTLE CHICAGO M32

Record No. 13 WELL GEOPHONE

Well Geophone Depth 5235 ft. (K.B.)

Shot Point 10 Amp. Gain % 35 %

Charge 15 lbs. Shot Depth 52' B ft.

Filter 30-64 Geo./Trace 3

Date July 14, 1966

INTEGRATED

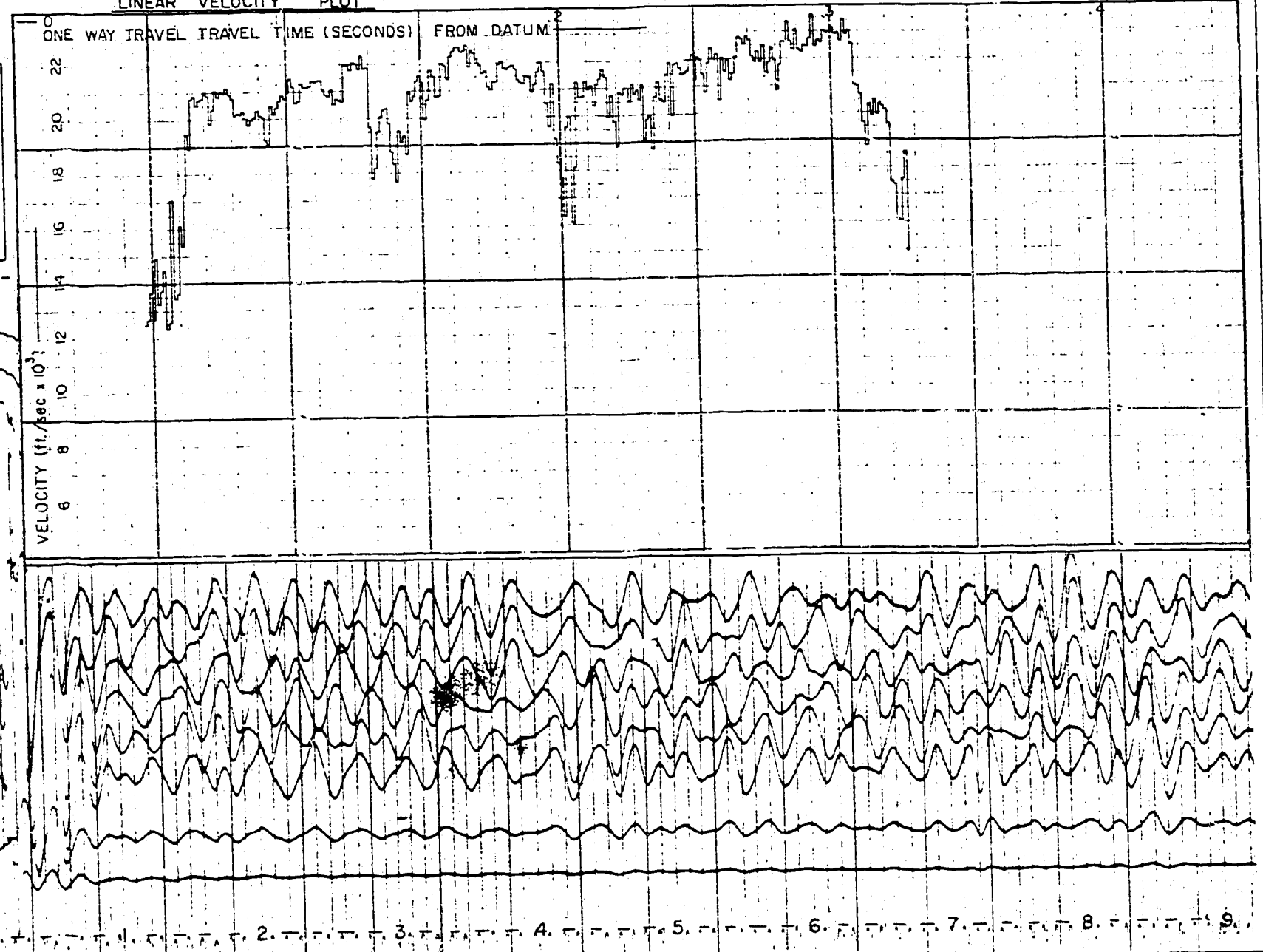
Velocity Services Ltd.

.019

+ .009

.009

LINEAR VELOCITY PLOT





Formation Test

TECHNICAL REPORT

This Technical Report supplies complete field data on type and amount of formation fluid recovered, pressure recordings and description of all tools run. Obtaining this information with an open hole test provides the only dynamic evaluation of a formation before completing the well.

Johnston's Special Data Analysis provides valuable calculated data on reservoir pressure, flow capacity, effective permeability, well bore damage, radius of investigation, and potentiometric surface. Included also is a valuable written analysis of these data that can provide important help in planning your completion.



Formation Test

TECHNICAL REPORT

This **Technical Report** supplies complete field data on type and amount of formation fluid recovered, pressure recordings and description of all tools run. Obtaining this information with an open hole test provides the only dynamic evaluation of a formation before completing the well.

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Formation Test

TECHNICAL REPORT

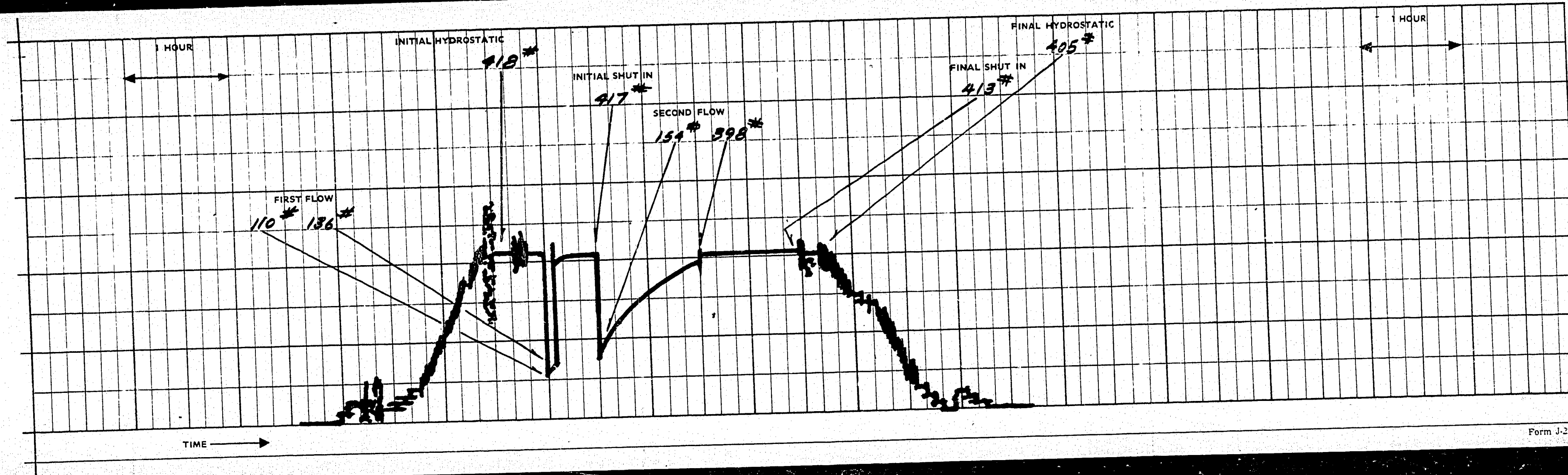
This Technical Report supplies complete field data on type and amount of formation fluid recovered, pressure recordings and description of all tools run. Obtaining this information with an open hole test provides the only dynamic evaluation of a formation before completing the well.

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Field Report No. C-8528
Instrument:
Number AKI-2078
Capacity 4000 p.s.i.
Depth 953 ft.

* a continuous tracing of the original chart



JOHNSTON TESTERS

TEST DATA								
Formation	Zone Thickness		Ft.	Elevation	280 GL			
Interval	820	To	970	I.D.	970	Bottom Hole Choke Size		
Type of Test	OPEN HOLE BOTTOM HOLE		Hrs.	Tool Open	2233	Fluid Cushion Type		
Time Started in Hole	2130					Amount		
First Flow	3	Min	Shut In	30	Min	TOOL SEQUENCE		
Second Flow	60	Min	Final Shut In	60	Min	Tool	Length	
Pulled Loose @	0105	Hrs.	Out of Hole	0200	Hrs.		O.D.	
Wt. Set on Packer	15,000	#	Pulled Loose Wt.	4,000	#	SUB.	.75	
Remarks						SHUT IN TOOL	6.05	
Description of Blow During Test GOOD BLOW FOR 30 MINUTES, DECREASING TO VERY LIGHT B.O.W.						HYD. TOOL	7.40	
						JARS	4.10	
						SAFETY JT.	1.75	
						PKR.	5.30	
						TOTAL	23.35	
						STUB	1.30	
						PERF.	13.00	
						SUB.	.75	
						D.C.	118.83	
						GAS BLOW MEASUREMENTS	I.D. Riser or Est. ☐	
Measured with					RECORDER	4.80		
Type of Instrument					RECORDER	4.90		
Time	Sfco. Choke	Reading Inches	Cubic Feet Day			PERF. & B.N.	5.50	
						TOTAL INTERVAL	149.88	
FLUID RECOVERY								
Was Test Reverse Circulated Yes ☐ No ☒						TOTAL LENGTH 175.23		
Fluid Recovered Total 880'						MUD AND HOLE DATA		
Description of Fluid Recovered 880' SALT WATER.						Mud Type	W.L.	
						Filter Cake	Visc. Wt.	
						Time Taken		
						Contractor	S & T DRILLING	
Remarks TEST SATISFACTORY.						Rig No.	1	
						Drill Pipe Size	4" IF	
						Drill Collar Size	2 7/8 ID Length 416'	
						Main Hole Size	7 7/8"	
						Rat Hole Size		
Co. Rep.	J. DAVIDSON		Ticket No.		C-8528	Date	JUNE 25/66	
Tester	R. MICHALSKI		Address		10025 - 108TH STREET, EDMONTON, ALBERTA	J.T.L. Test No.	1	
District	EDMONTON		Field		WILDCAT	Province	N.W.T.	
Company	ATLANTIC RICHFIELD COMPANY		Consultant					
Well Name	ATLANTIC LITTLE CHICAGO N. M32							
Number	#67°-11'-46"N-130°-06'-55"-W							
Formation	820-970							
and Interval								
Distribution of Reports	1 - DALLAS, T.S. HUTCHINSON		4 - EDMONTON, R. A. EVANS					
	2 & CHARTS - CALGARY, F.G. VETSCH		1 - CALGARY, B.H. J. THOMS					
	1 - CALGARY, T.J. HITCHCOCK							

PRESSURE DATA

INSTRUMENT NO.		AK1-2593	AK1-2078	FIELD REPORT No. C-8528	
CAPACITY psi/g		3250	4000		
INSTRUMENT DEPTH		959	953		
INSTRUMENT OPENING		OUTSIDE	OUTSIDE		
PRESSURE GRADIENT psi/ft				TIME DATA	
WELL TEMP. °F				TIME GIVEN	TIME COMPUTED
INITIAL HYDROSTATIC	A	412#	418#	MINS	MINS
FIRST FLOW	B	107#	110#		
B-1		131#	136#		
INITIAL SHUT IN	C	409#	417#	MINS	MINS
SECOND FLOW	D	145#	154#	MINS	MINS
D-1		391#	398#		
SECOND SHUT IN	E			MINS	MINS
THIRD FLOW	F			MINS	MINS
FINAL SHUT IN	G	406#	413#	MINS	MINS
FINAL HYDROSTATIC	H	397#	405#	CLOCK TRAVEL	IN/MIN.

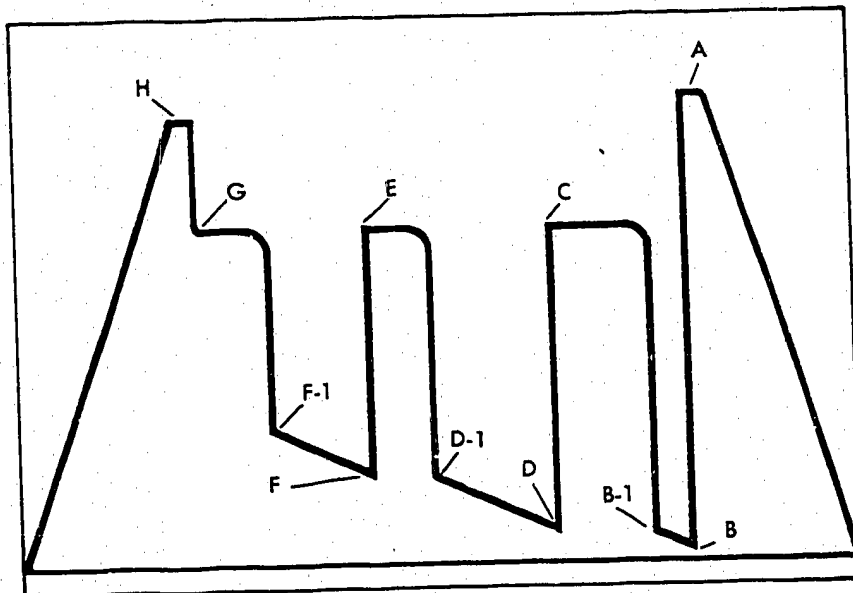
REMARKS:

PRESSURE INCREMENTS

[illegible]



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).

- 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.

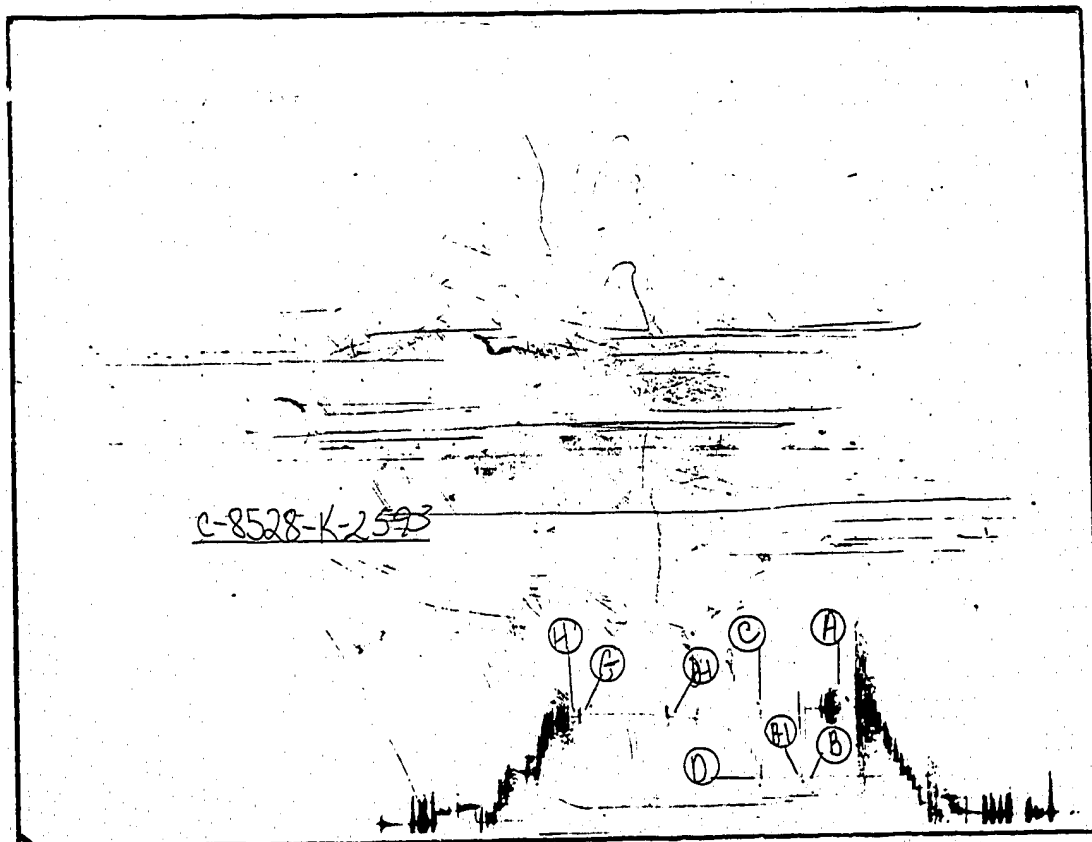


FIELD
REPORT NO.
C-8528

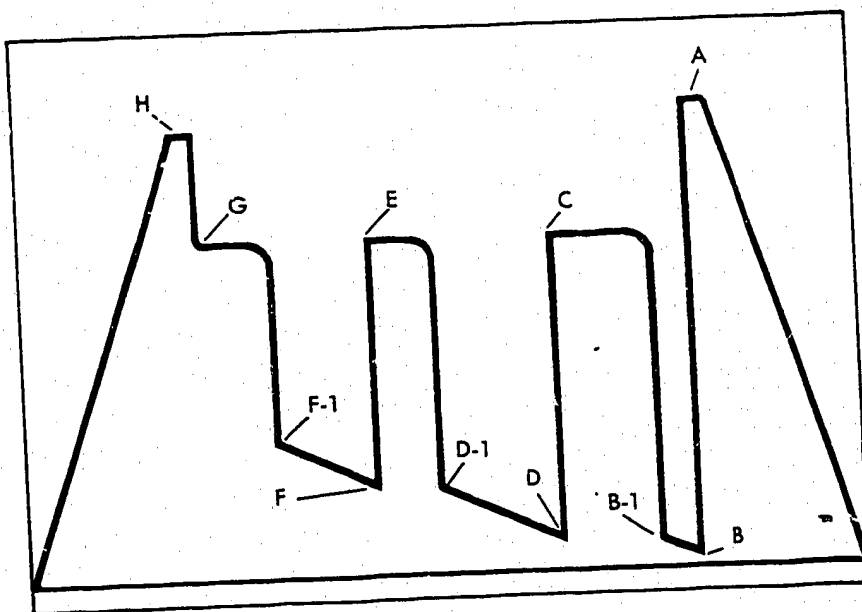
RECORDER NO.
AK1-2593

CAPACITY
3250

REPORTS
REQUESTED
9



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).

- 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.

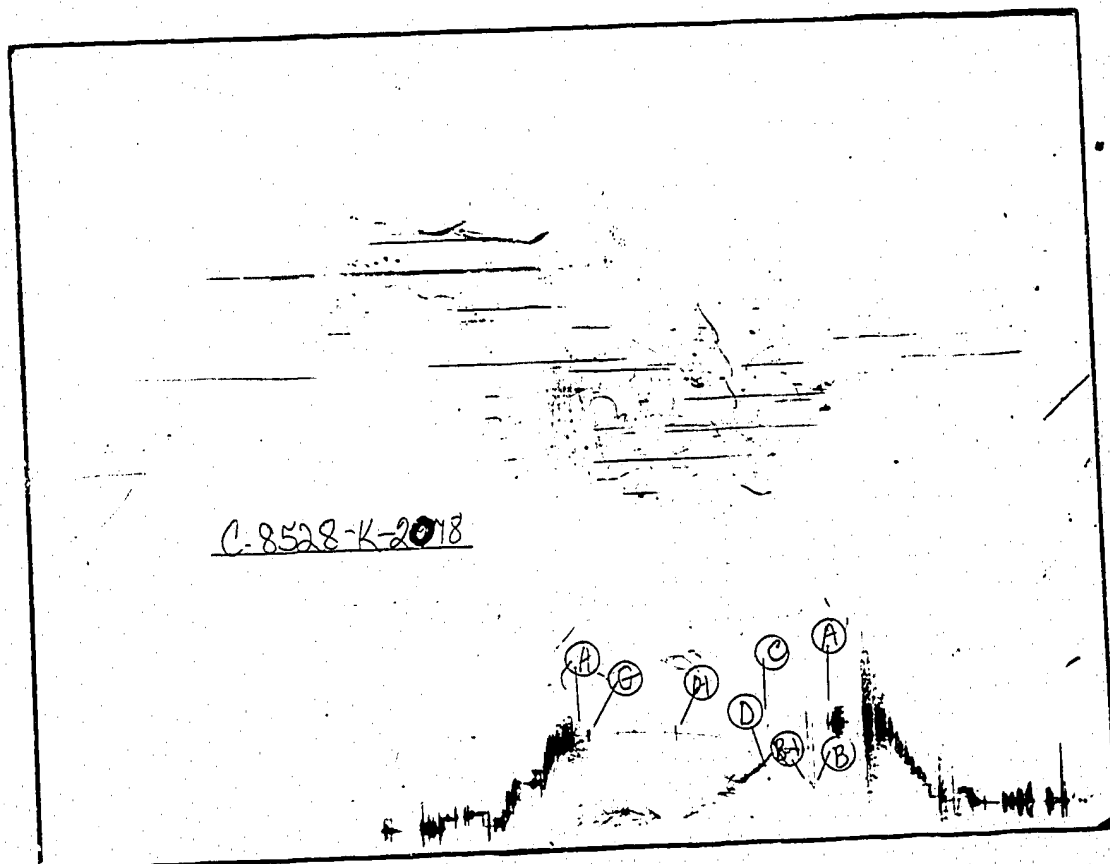
 **JOHNSTON TESTERS LTD.**

FIELD
REPORT NO.
C-8528

RECORDER NO.
AK1-2078

CAPACITY
4000

REPORTS
REQUESTED
9



DAILY DRILLING REPORT

REPORT NO. 32

DATE JUL 18, 1966

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																	
ATLANTIC RICHFIELD CO.		ARCO LITTLE CHICAGO N32		N.W.T.																							
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	O.D.	PUMPS		SIZE	MAKE	WT. 3 GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS												
S & T DRILLING CO. LTD.			NO. SIZE	TYPE THD.		NO.	MANUFACTURER	TYPE	STROKE LENGTH																		
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER			LAST CASING TUBING OR LINER																						
H. K. Walter		[Signature]			1. NATIONAL K 380 14																						
					2.																						
					3.																						
TIME DISTRIBUTION—HOURS		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN SGL. S PART. P COM'D-C	
MORN DAY EVE		STANDS D.P. FT.		BIT NO.		TIME		FROM TO																			
RIG UP & TEAR DOWN		SINGLES D.P. FT.		SIZE		WEIGHT		541 PEA 0																			
DRILLING ACTUAL		D.C.		MFG.		VISC.-SEC																					
REAMING		I.D. O.D. FT.		TYPE		W.L.-C.C.																					
CONDITIONING MUD & CIRCULATING		D.C.		NOZZLE NO. SIZE		FLTR. CK.																					
TRIPS		I.D. O.D. FT.		SER. NO.		PH																					
LUBRICATE RIG		STB. BODY O.D. FT.		DEPTH OUT		CONT. %																					
DEVIATION SURVEY		STB. BODY O.D. FT.		DEPTH IN		PRESSURE GRADIENT																					
TEST B.O.P.		RMR. BODY O.D. FT.		TOTAL FTG.		MUD & CHEMICALS ADDED																					
CUT OFF DRILLING LINE		SUBS O.D. FT.		TYPE AMT. TYPE AMT.																							
REPAIR RIG		BIT OR C.B. FT.		TOTAL HR. RUN																							
CORING		KELLY DOWN FT.		COND. OF BIT																							
WIRE LINE LOGGING		TOTAL FT.		REAMER NO.																							
RUNNING CASING & CEMENTING		WT. OF STRING LBS.		REAMER TYPE		DRILLER																					
WAITING ON CEMENT																											
DRILL STEM TEST																											
OTHER																											
FISHING																											
COMPLETION WORK																											
A. PERFORATING																											
B. TUBING TRIPS																											
C. SWABBING																											
D. TESTING																											
E. ADDITIONAL																											
TOTALS		8 2																									
TIME SUMMARY (OFFICE USE ONLY)																											
DAY WORK		8 2																									
HRS. W/DP																											
HRS. WO/DP																											
HRS. STANDBY																											
TOTAL DAY WORK		8 2																									
WIRE LINE RECORD																											
REEL NO.																											
NO. OF LINES		SIZE																									
FEET SLIPPED																											
FEET CUT OFF																											
PRESENT LENGTH																											
TON MI. OR TRIPS SINCE LAST CUT																											
CUMULATIVE TON MI. OR TRIPS																											
NO. OF DAYS FROM SPUD																											
CUMULATIVE ROTATING HRS.																											

RECEIVED
JUL 25 1966
Emery Oil Co.

DAILY DRILLING REPORT

REPORT NO. 30

DATE July 16, 1966

OPERATOR		LEASE		WELL NO.	FIELD OR DIST.	COUNTY	STATE																		
ARIZANTIL RICHFIELD CO.		ARL LITTLE CHICAGO N-32			NORTHWEST TERRITORIES		PRIVATE																		
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	O.D.	PUMPS																			
S & T DRILLING CO. LTD.			NO. SIZE	TYPE THD.		LAST CASING TUBING OR LINER																			
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		NO. MANUFACTURER TYPE STROKE LENGTH		SIZE MAKE WT. & GR. NO. JOINTS FEET RKB. TO CSG. HD. SET AT REMARKS																			
H. K. Katter		M. J. Katter		1. NATIONAL K-380 12		8 3/8 24" J 20 673 1230 606 TIGHT HOLE																			
2.				3.																					
3.																									
TIME DISTRIBUTION-HOURS		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D. R. M. R. CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
MORN DAY EVE		STANDS D.P. FT.		BIT NO.		TIME		FROM TO		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
RIG UP & TEAR DOWN		SINGLES D.P. FT.		SIZE		WEIGHT		6422 6422 0		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
DRILLING ACTUAL		D.C.		MFG.		VISC.-SEC				CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
REAMING		I.D. O.D. FT.		TYPE		W.L.-C.C.				CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
CONDITIONING MUD & CIRCULATING		D.C.		NOZZLE NO. SIZE		FLTR. CK.				CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
TRIPS		I.D. O.D. FT.		SER. NO.		SD. CONT. %				CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
LUBRICATE RIG		STB. BODY O.D. FT.		DEPTH OUT		PRESSURE GRADIENT				CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
DEVIATION SURVEY		STB. BODY O.D. FT.		DEPTH IN						CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
TEST B.O.P.		RMR. BODY O.D. FT.		TOTAL FTG.		MUD & CHEMICALS ADDED				CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
CUT OFF DRILLING LINE		SUBS O.D. FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.				CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
REPAIR RIG		BIT OR C.B. FT.		COND. OF BIT						CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
CORING		KELLY DOWN FT.		REAMER NO.		DRILLER				CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
WIRE LINE LOGGING		TOTAL FT.		REAMER TYPE						CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
RUNNING CEMENT & CEMENTING		WT. OF STRING LBS.								CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
WAITING ON CEMENT										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
DRILL STEM TEST										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
OTHER: N.C.O.		7 8 4								CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FISHING										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
COMPLETION WORK										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
A. PERFORATING										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
B. TUBING TRIPS										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
C. SWABBING										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
D. TESTING										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
E. ADDITIONAL										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
TOTALS		8 8								CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
TIME SUMMARY (OFFICE USE ONLY)										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
DAY WORK		8 8 8								CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
HRS. W/DP										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
HRS. WO/DP										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
HRS. STANDBY										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
TOTAL DAY WORK		8 8 8								CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
WIRE LINE RECORD										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
REEL NO.										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
NO. OF LINES		SIZE								CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FEET SLIPPED										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FEET CUT OFF										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
PRESENT LENGTH										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
YON M. OR TRIPS SINCE LAST CUT										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
CUMULATIVE TON MI. OR TRIPS										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
NO. OF DAYS FROM SPUD										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
CUMULATIVE ROTATING HRS.										CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

12:00 1:00 1 Run Schl. (then to 6418) Formation Permeability

2" x 5" Scale @ 6418-600'

1:00 8:00 7 Wait on Order

8:00 4:00 8 Wait on Order

4:00 8:00 4 Wait on Order. Sand down T. Co. Received verbal approval @ 7:50 PM from Mr. Good. Dept. Northern Affairs for following Plug Program:

1) 6422-6366 (122') Corbit test. (2) 3700-3600 (100') test after 8

3) 1500-1300 (200') test after 8. (4) 650-550 (100') test after 8 hrs.

8:00 8:30 1/2 Run Cement Plug #1

8:30 9:30 1 Pulled up and Run Plug #2

9:30 12:00 2 1/2 W.O.C.

REPORT NO. 29 DATE JULY 15 1966

OPERATOR		LEASE		REPORT NO.		DATE		WELL NO.		FIELD OR DIST.		COUNTY		STATE															
ATLANTIC RICHFIELD		ARCO LITTLE CHICAGO		N 32		N.W.T.																							
CONTRACTOR		RIG NO.		DRILL PIPE STRING		TOOL JOINT		O.D.		PUMPS		LAST CASING TUBING OR LINER		REMARKS															
S & T DRILLING CO. LTD.		IE		NO. SIZE		TYPE THD.		O.D.		NO. MANUFACTURER TYPE STROKE LENGTH		SIZE MAKE WT. & GR. NO. JOINTS FEET RKB. TO CSG. HD. SET AT		PRIVATE															
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER												TIGHT HOLE															
J. H. Walters		W. H. Haines																											
TIME DISTRIBUTION—HOURS		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN SGL-S PAPER-L COM'D-C	
RIG UP & TEAR DOWN		STANDS D.P.		FT.		BIT NO.		TIME		FROM TO																			
DRILLING ACTUAL		SINGLES D.P.		FT.		SIZE		WEIGHT		6422																			
REAMING		D.C.				MFG.		VISC.-SEC																					
CONDITIONING MUD & CIRCULATING		I.D. O.D.		FT.		TYPE		W.L.-C.C.																					
TRIPS		D.C.				NOZZLE NO. SIZE		FLTR. CK.																					
LUBRICATE RIG		STB. BODY O.D.		FT.		SER. NO.		SD. CONT. %																					
DEVIATION SURVEY		STB. BODY O.D.		FT.		DEPTH OUT		PRESSURE GRADIENT																					
TEST B.O.P.		RMR. BODY O.D.		FT.		DEPTH IN																							
CUT OFF DRILLING LINE		SUBS O.D.		FT.		TOTAL FTG.		MUD & CHEMICALS ADDED TYPE AMT. TYPE AMT.																					
REPAIR RIG		BIT OR C.B.		FT.		TOTAL HR. RUN																							
CORING				FT.		COND. OF BIT																							
WIRE LINE LOGGING		TOTAL		FT.		REAMER NO.																							
RUNNING CASING & CEMENTING		WT. OF STRING		LBS.		REAMER TYPE		DRILLER																					
WAITING ON CEMENT								M. Karpinski																					
DRILL STEM TEST		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN SGL-S PAPER-L COM'D-C	
OTHER		STANDS D.P.		FT.		BIT NO.		TIME		FROM TO																			
FISHING		SINGLES D.P.		FT.		SIZE		WEIGHT		6422																			
A. PERFORATING		D.C.				MFG.		VISC.-SEC																					
B. TUBING TRIPS		I.D. O.D.		FT.		TYPE		W.L.-C.C.																					
C. SWABBING		D.C.				NOZZLE NO. SIZE		FLTR. CK.																					
D. TESTING		I.D. O.D.		FT.		PH																							
E. ADDITIONAL		STB. BODY O.D.		FT.		SER. NO.		SD. CONT. %																					
TOTALS		STB. BODY O.D.		FT.		DEPTH OUT		PRESSURE GRADIENT																					
TIME SUMMARY (OFFICE USE ONLY)		RMR. BODY O.D.		FT.		DEPTH IN																							
DAY WORK		SUBS O.D.		FT.		TOTAL FTG.		MUD & CHEMICALS ADDED TYPE AMT. TYPE AMT.																					
HRS. W/DP																													

DAILY DRILLING REPORT

REPORT NO. 28

DATE JULY 14/66

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																			
ATLANTIC RICHFIELD		ARCO LITTLE CHICAGO N32																											
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	O.D.	PUMPS		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS														
S & T DRILLING CO. LTD.		IE	NO.	SIZE	TYPE THD.	NO.	MANUFACTURER	TYPE	STROKE LENGTH																				
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER				1. NAT		H 380		14				PRIVATE															
						2.								TIGHT HOLE															
						3.																							
TIME DISTRIBUTION-HOURS		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR-D RM-R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
MORN DAY EVE		STANDS D.P.		FT.		BIT NO.		TIME		FROM		TO																	
RIG UP & TEAR DOWN		SINGLES D.P.		FT.		SIZE		WEIGHT		6422																			
DRILLING ACTUAL		D.C.				MFG.		VISC.-SEC																					
REAMING		I.D. O.D.		FT.		TYPE		W.L.-C.C.																					
CONDITIONING MUD & CIRCULATING		D.C.				NOZZLE		NO.		FLTR. CK.																			
TRIPS		I.D. O.D.		FT.		SER. NO.		SD. CONT. %																					
LUBRICATE RIG		STB. BODY O.D.		FT.		DEPTH OUT		PRESSURE GRADIENT																					
DEVIATION SURVEY		STB. BODY O.D.		FT.		DEPTH IN																							
TEST B.O.P.		RMR. BODY O.D.		FT.		TOTAL FTG.		MUD & CHEMICALS ADDED																					
CUT OFF DRILLING LINE		SUBS O.D.		FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.																					
REPAIR RIG		BIT OR C.B.		FT.		COND. OF BIT																							
CORING		KELLY DOWN		FT.		REAMER NO.		DRILLER																					
WIRE LINE LOGGING		TOTAL		FT.		REAMER TYPE																							
RUNNING CASING & CEMENTING		WT. OF STRING		LBS.																									
WAITING ON CEMENT																													
DRILL STEM TEST																													
OTHER																													
FISHING																													
COMPLETION WORK																													
A. PERFORATING																													
B. TUBING TRIPS																													
C. SWABBING																													
D. TESTING																													
E. ADDITIONAL																													
TOTALS		8 8 8																											
TIME SUMMARY (OFFICE USE ONLY)																													
DAY WORK																													
HRS. W/DP																													
HRS. WO/DP																													
HRS. STANDBY																													
TOTAL DAY WORK																													
WIRE LINE RECORD																													
REEL NO.																													
NO. OF LINES																													
SIZE																													
FEET SLIPPED																													
FEET CUT OFF																													
PRESENT LENGTH																													
TON MI. OR TRIPS SINCE LAST CUT																													
CUMULATIVE TON MI. OR TRIPS																													
NO. OF DAYS FROM SPUD																													
CUMULATIVE ROTATING HRS.																													

RECEIVED AT
LONDON, OHIO
JULY 25 1966

TIGHT HOLE

PRIVATE

DAILY DRILLING REPORT

REPORT NO. 27

DATE JULY 13/66

OPERATOR ATLANTIC RICHFIELD		LEASE ARCO LITTLE CHICAGO N32		WELL NO.	FIELD OR DIST. N.W.T.	COUNTY	STATE						
CONTRACTOR S & T DRILLING CO. LTD.		RIG NO. 1E	DRILL PIPE STRING NO. SIZE TOOL JOINT O.D. TYPE THD.	PUMPS NO. MANUFACTURER TYPE STROKE LENGTH		SIZE 5 7/8	MAKE 245	WT. & GR. 20	NO. JOINTS 623	FEET 1230	RKB. TO CSG. HD. 606	SET AT	REMARKS
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>J. M. Davidson</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>H. Schulz</i>		LAST CASING TUBING OR LINER									

TIME DISTRIBUTION-HOURS				DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP NO. 1		PUMP NO.		METHOD RUN	
RIG UP & TEAR DOWN	MORN	DAY	EVE	NO.	STANDS D.P.	BIT NO.	SIZE	TIME	WEIGHT	FROM	TO	DR. D R.M. R CORE-C	CORE NO.	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	SGL-S PART-EL-P COM-D-C
DRILLING ACTUAL	7 3/4	7 1/2	3	1	SINGLES D.P. 3117 FT.	16	7 7/8	2 00	8.5	6210	6278	D											
REAMING				2	D.C. 592.16			4 00	8.5														
CONDITIONING MUD & CIRCULATING				1	I.D. O.D. 10 35 FT.			6 00	28														
TRIPS				1	D.C. 10 35 FT.				28														
LUBRICATE RIG	1/4	5/4		1	I.D. O.D. 2763 FT.																		
DEVIATION SURVEY				1	STB. BODY O.D. 615 FT.																		
TEST B.O.P.				1	STB. BODY O.D. 719 FT.																		
CUT OFF DRILLING LINE				1	RMR. BODY O.D. 459 FT.																		
REPAIR RIG				2	SUBS O.D. 483 FT.																		
CORING					BIT OR C.B. FT.																		
WIRE LINE LOGGING					JARS 614 FT.																		
RUNNING CASING & CEMENTING					KELLY DOWN 4053 FT.																		
WAITING ON CEMENT					TOTAL 6278 FT.																		
DRILL STEM TEST					WT. OF STRING 130 000 LBS.																		
OTHER					REAMER TYPE																		
FISHING					DRILLER <i>M. Karpunk</i>																		

TIME DISTRIBUTION-HOURS				DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP NO. 1		PUMP NO.		METHOD RUN	
RIG UP & TEAR DOWN	MORN	DAY	EVE	NO.	STANDS D.P.	BIT NO.	SIZE	TIME	WEIGHT	FROM	TO	DR. D R.M. R CORE-C	CORE NO.	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	SGL-S PART-EL-P COM-D-C
DRILLING ACTUAL	8 3/4	8 1/2	3	1	SINGLES D.P. 3304 FT.	16	7 7/8	10 00	9.5	6278	6390	D											
REAMING				2	D.C. 592.16			12 00	7.5														
CONDITIONING MUD & CIRCULATING				1	I.D. O.D. 10 35 FT.			2 00	28														
TRIPS				1	D.C. 10 35 FT.				28														
LUBRICATE RIG				1	I.D. O.D. 2763 FT.																		
DEVIATION SURVEY				1	STB. BODY O.D. 615 FT.																		
TEST B.O.P.				1	STB. BODY O.D. 719 FT.																		
CUT OFF DRILLING LINE				1	RMR. BODY O.D. 459 FT.																		
REPAIR RIG				2	SUBS O.D. 473 FT.																		
CORING					BIT OR C.B. FT.																		
WIRE LINE LOGGING					JARS 614 FT.																		
RUNNING CASING & CEMENTING					KELLY DOWN 4053 FT.																		
WAITING ON CEMENT					TOTAL 6390 FT.																		
DRILL STEM TEST					WT. OF STRING 130 000 LBS.																		
OTHER					REAMER TYPE																		
FISHING					DRILLER <i>A. Panchen</i>																		

TIME DISTRIBUTION-HOURS				DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP NO. 1		PUMP NO.		METHOD RUN	
RIG UP & TEAR DOWN	MORN	DAY	EVE	NO.	STANDS D.P.	BIT NO.	SIZE	TIME	WEIGHT	FROM	TO	DR. D R.M. R CORE-C	CORE NO.	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	SGL-S PART-EL-P COM-D-C
DRILLING ACTUAL				1	SINGLES D.P. 6305 FT.	16	7 7/8	4 00	7.5	6390	6422	D											
REAMING				2	D.C. 592.16			12 00	28														
CONDITIONING MUD & CIRCULATING				1	I.D. O.D. 10 35 FT.																		
TRIPS				1	D.C. 10 35 FT.																		
LUBRICATE RIG				1	I.D. O.D. 2763 FT.																		
DEVIATION SURVEY				1	STB. BODY O.D. 615 FT.																		
TEST B.O.P.				1	STB. BODY O.D. 719 FT.																		
CUT OFF DRILLING LINE				1	RMR. BODY O.D. 459 FT.																		
REPAIR RIG				2	SUBS O.D. 483 FT.																		
CORING					BIT OR C.B. FT.																		
WIRE LINE LOGGING					JARS 614 FT.																		
RUNNING CASING & CEMENTING					KELLY DOWN 4053 FT.																		
WAITING ON CEMENT					TOTAL 6422 FT.																		
DRILL STEM TEST					WT. OF STRING 130 000 LBS.																		
OTHER					REAMER TYPE																		
FISHING					DRILLER																		

At 6400 Chlorides rose from 34,000 to 45,000 P.P.M.

PRIVATE

REPORT NO. 76

DATE JULY 12 1961

OPERATOR						LEASE						REPORT NO.						DATE																																																																	
ATLANTIC RICHFIELD N-32						ARCO LITTLE CHICAGO N-32						WELL NO.						FIELD OR DIST.						COUNTY						STATE																																																					
CONTRACTOR S & T DRILLING CO. LTD.						RIG NO. IE						DRILL PIPE STRING NO. SIZE TYPE THD.						TOOL JOINT O.D.						PUMPS MANUFACTURER TYPE STROKE LENGTH						LAST CASING TUBING OR LINER						SIZE MAKE WT. & GR. NO. JOINTS FEET RKB. TO CSG. HD. SET AT REMARKS																																															
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>J. M. Danilow</i>						SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>						1. DIAT						H-380 14						8 5/8 245 20 623 1230 606																																																											
TIME DISTRIBUTION-HOURS						MORN DAY EVE						NO. DRILLING ASSEMBLY AT END OF TOUR						BIT RECORD						MUD RECORD						FOOTAGE						FORMATION (SHOW CORE RECOVERY)						ROTARY RPM WT. ON BIT 1000# PUMP PRESS PUMP NO. / LINER SIZE S.P.M. LINER SIZE S.P.M. METHOD RUN SGL-S PARCEL-COM-D-G																																									
RIG UP & TEAR DOWN						DRILLING ACTUAL 4 3/4 6 9						REAMING						CONDITIONING MUD & CIRCULATING						TRIPS 2 1/2 13 4						LUBRICATE RIG 1/4 1/4						DEVIATION SURVEY 1/4 1/4						TEST B.O.P. 1/4						CUT OFF DRILLING LINE						REPAIR RIG						CORING						WIRE LINE LOGGING						RUNNING CASING & CEMENTING						WAITING ON CEMENT					
DRILL STEM TEST						OTHER						FISHING						COMPLETION WORK A. PERFORATING B. TUBING TRIPS C. SWABBING D. TESTING E. ADDITIONAL						TOTALS 8 9 8						TIME SUMMARY (OFFICE USE ONLY)						DAY WORK						HRS. W/DP						HRS. WO/DP						HRS. STANDBY																													
TOTAL DAY WORK 8 8 8						WIRE LINE RECORD						REEL NO.						NO. OF LINES SIZE						FEET SLIPPED						FEET CUT OFF						PRESENT LENGTH						TON MI. OR TRIPS SINCE LAST CUT						CUMULATIVE TON MI. OR TRIPS						NO. OF DAYS FROM SPUD						CUMULATIVE ROTATING HRS.																							
NO. DRILLING ASSEMBLY AT END OF TOUR						BIT RECORD						MUD RECORD						FOOTAGE						FORMATION (SHOW CORE RECOVERY)						ROTARY RPM WT. ON BIT 1000# PUMP PRESS PUMP NO. / LINER SIZE S.P.M. LINER SIZE S.P.M. METHOD RUN SGL-S PARCEL-COM-D-G																																																					
STANDS D.P. 5383.53 FT.						BIT NO. 15 116						TIME 2 00 4 00 6 00						FROM 6053 TO 6104 0						SERV. RIG						45 45 550 5 1/2 69																																																					
SINGLES D.P. 3157 FT.						SIZE 7 7/8 7 7/8						WEIGHT 8.5 8.5																																																																							
D.C. 592.16						MFG. HW' HW'						VISC.-SEC 28 28																																																																							
I.D. O.D. 10.35 FT.						TYPE AG-2XJ AG-2YT						W.L.-C.C.																																																																							
D.C.						NOZZLE NO. 3						FLTR. CK.																																																																							
I.D. O.D. 2763 FT.						SIZE OUT						PH 2.8 7.4																																																																							
STB. BODY O.D. 615 FT.						SER. NO. JB161 FPO53						SD. CONT. %																																																																							
STB. BODY O.D. 719 FT.						DEPTH OUT 6104						PRESSURE GRADIENT																																																																							
RM. BODY O.D. 459 FT.						DEPTH IN 5862																																																																													
SUBS O.D. 483 FT.						TOTAL FTG. 242						MUD & CHEMICALS ADDED TYPE AMT. TYPE AMT.																																																																							
BIT OR C.B. FT.						TOTAL HR. RUN 20 1/4						CRONO 10T																																																																							
JAAS 614 FT.						COND. OF BIT 5-2-0																																																																													
KELLY DOWN 36 FT.						REAMER NO.																																																																													
TOTAL 6104 FT.						REAMER TYPE						DRILLER J. M. Danilow																																																																							
WT. OF STRING 126 000 LBS.																																																																																			
NO. DRILLING ASSEMBLY AT END OF TOUR						BIT RECORD						MUD RECORD						FOOTAGE						FORMATION (SHOW CORE RECOVERY)						ROTARY RPM WT. ON BIT 1000# PUMP PRESS PUMP NO. / LINER SIZE S.P.M. LINER SIZE S.P.M. METHOD RUN SGL-S PARCEL-COM-D-G																																																					
STANDS D.P. 5477.22 FT.						BIT NO. 16						TIME 10.00 12.00 2.00						FROM 6104 TO 6156 12												45 40 550 5 1/2 69																																																					
SINGLES D.P. FT.						SIZE 7 3/8						WEIGHT 8.5 8.5 8.5																																																																							
D.C. 592.16						MFG. HW'						VISC.-SEC 28 28 28																																																																							
I.D. O.D. 10.35 FT.						TYPE AG-2XJ						W.L.-C.C.																																																																							
D.C.						NOZZLE NO. 3						FLTR. CK.																																																																							
I.D. O.D. 2763 FT.						SIZE OUT						PH 6.4 6.4 6.4																																																																							
STB. BODY O.D. 615 FT.						SER. NO. FPO53						SD. CONT. %																																																																							
STB. BODY O.D. 719 FT.						DEPTH OUT 6104						PRESSURE GRADIENT																																																																							
RM. BODY O.D. 459 FT.						DEPTH IN 6104																																																																													
SUBS O.D. 483 FT.						TOTAL FTG. 52						MUD & CHEMICALS ADDED TYPE AMT. TYPE AMT.																																																																							
BIT OR C.B. FT.						TOTAL HR. RUN 6						CRONO 10T																																																																							
JAAS 614 FT.						COND. OF BIT																																																																													
KELLY DOWN 26.83 FT.						REAMER NO.																																																																													
TOTAL 6156 FT.						REAMER TYPE						DRILLER A. Danilow																																																																							
WT. OF STRING 199 000 LBS.																																																																																			
NO. DRILLING ASSEMBLY AT END OF TOUR						BIT RECORD						MUD RECORD						FOOTAGE						FORMATION (SHOW CORE RECOVERY)						ROTARY RPM WT. ON BIT 1000# PUMP PRESS PUMP NO. / LINER SIZE S.P.M. LINER SIZE S.P.M. METHOD RUN SGL-S PARCEL-COM-D-G																																																					
STANDS D.P. 5477.22 FT.						BIT NO. 16						TIME 6.00 8.00 10.00						FROM 6156 TO 6210 0												50 40 525 5 1/2 69																																																					
SINGLES D.P. 62.92 FT.						SIZE 7 3/8						WEIGHT 8.5																																																																							

PRIVATE

DAILY DRILLING REPORT

REPORT NO. 25

DATE JULY 11/66

[illegible]

DATE JULY 10/46

OPERATOR		LEASE		REPORT NO.		DATE		WELL NO.		FIELD OR DIST.		COUNTY		STATE	
ATLANTIC RICHFIELD		ARCO LITTLE CHICAGO N 32		N.W.T.											
CONTRACTOR		RIG NO.		DRILL PIPE STRING		TOOL JOINT		O.D.		PUMPS		LAST CASING TUBING OR LINER		REMARKS	
S & T DRILLING CO. LTD.		1E		NO. SIZE		TYPE THD.		NO.		MANUFACTURER		TYPE		STROKE LENGTH	
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		1. NAT		K 380		14						TIGHT HOLE PRIVATE	
J. M. Davidson															
TIME DISTRIBUTION - HOURS		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M. R. CORE - C		CORE NO.	
RIG UP & TEAR DOWN		53		STANDS D.P. 5007.08 FT.		BIT NO. 13		TIME 2 00 40 6 00		FROM TO		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	
DRILLING ACTUAL		21		SINGLES D.P. 592.16		SIZE 7 7/8		WEIGHT 8.5 8.5 8.5		5575 5700		65 40 550 5 1/2 69			
REAMING		1		I.D. O.D. 10 3/5 FT.		MFG. SEC		VISC. SEC 28 28 28							
CONDITIONING MUD & CIRCULATING		1		D.C.		TYPE H8J		W.L. - C.C.							
TRIPS		1		I.D. O.D. 2763 FT.		NOZZLE NO. SIZE		FLTR. CK.							
LUBRICATE RIG		1		STB. BODY O.D. 615 FT.		SER. NO. 790930		SD. CONT. %							
DEVIATION SURVEY		1		STB. BODY O.D. 719 FT.		DEPTH OUT		PRESSURE GRADIENT							
TEST B.O.P.		1		RMR. BODY O.D. 459 FT.		DEPTH IN									
CUT OFF DRILLING LINE		2		SUBS O.D. 483 FT.		TOTAL FTG. 232		MUD & CHEMICALS ADDED							
REPAIR RIG		JUNK		205 FT.		TOTAL HR. RUN 15		TYPE AMT. TYPE AMT.							
CORING		JARS		614 FT.		COND. OF BIT		CRANOX 1GT							
WIRE LINE LOGGING		KELLY DOWN		410 83 FT.		REAMER NO.		CAUSTIC 50%							
RUNNING CASING & CEMENTING		TOTAL		5700 FT.		REAMER TYPE		DRILLER							
WAITING ON CEMENT		WT. OF STRING		121000 LBS.				211 Karpiuk							
DRILL STEM TEST		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M. R. CORE - C		CORE NO.	
OTHER		53		STANDS D.P. 5005.03 FT.		BIT NO. 13 14		TIME 8.00 2.00		FROM TO		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	
FISHING		2		SINGLES D.P. 6278 FT.		SIZE 7 3/8 7 3/8		WEIGHT 8.5 8.5		5700 5735		65 40 550 5 1/2 69			
COMPLETION WORK		21		D.C. 592.16		MFG. SEC SEC		VISC. SEC 28 28							
A. PERFORATING		1		I.D. O.D. 10 3/5 FT.		TYPE H8J H8J		W.L. - C.C.							
B. TUBING TRIPS		1		D.C.		NOZZLE NO. SIZE		FLTR. CK.							
C. SWABBING		1		I.D. O.D. 2263 FT.		PH 10.0 9.0									
D. TESTING		1		STB. BODY O.D. 615 FT.		SER. NO. 790930 790930		SD. CONT. %							
E. ADDITIONAL		1		STB. BODY O.D. 719 FT.		DEPTH OUT		PRESSURE GRADIENT							
TOTALS		1		RMR. BODY O.D. 459 FT.		DEPTH IN									
TIME SUMMARY (OFFICE USE ONLY)		2		SUBS O.D. 483 FT.		TOTAL FTG. 239 33		MUD & CHEMICALS ADDED							
DAY WORK		BIT OR C.B.		FT.		TOTAL HR. RUN 15 1/4 3		TYPE AMT. TYPE AMT.							
HRS. W/DP		JARS		614 FT.		COND. OF BIT		CRANOX 1GT							
HRS. WO/DP		KELLY DOWN		1483 FT.		REAMER NO.		CAUSTIC 100							
HRS. STANDBY		TOTAL		5735 FT.		REAMER TYPE		L.M.F. 100%							
TOTAL DAY WORK		WT. OF STRING		122000 LBS.				DRILLER							
WIRE LINE RECORD		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M. R. CORE - C		CORE NO.	
REEL NO.		54		STANDS D.P. 5099.52 FT.		BIT NO. 14		TIME 4.00 8.00 10.00		FROM TO		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	
NO. OF LINES		1		SINGLES D.P. 31.42 FT.		SIZE 7 3/8		WEIGHT 8.5 8.5 8.5		5735 5817		65 40 550 5 1/2 69			
FEET SLIPPED		21		D.C. 592.16		MFG. SEC		VISC. SEC 28 28 28							
FEET CUT OFF		1		I.D. O.D. 10 3/5 FT.		TYPE H8J		W.L. - C.C.							
PRESENT LENGTH</															

DAILY DRILLING REPORT

REPORT NO. 23

DATE JULY 9/61

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE												
ATLANTIC RICHFIELD		ARCO LITTLE CHICAGO		N 32		N.W.T.																
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	PUMPS		LAST CASING TUBING OR LINER		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	TIGHT HOLE						
S & T DRILLING CO. LTD.		1E	NO. SIZE	TYPE THD.	NO. MANUFACTURER TYPE STROKE LENGTH				8 3/8		245	20	623	1230	606	PRIVATE						
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		1. NAT		K 380 14																
J. Davidson		H. Schultz																				
TIME DISTRIBUTION-HOURS		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M.R. CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN	
RIG UP & TEAR DOWN		50 STANDS D.P. 4724.98 FT.		BIT NO. 12		TIME 2 00 4 00 6 00		FROM TO		D												
DRILLING ACTUAL		2 1 D.C. 592.16 FT.		SIZE 7 7/8		WEIGHT 8.5 8.5 8.5		5259 5416								65	40	530	5 1/2	69		
REAMING		1 I.D. O.D. 1035 FT.		MFG. SEC		VISC.-SEC 28 28 28																
CONDITIONING MUD & CIRCULATING		1 D.C. 2763 FT.		TYPE H8J		W.L.-C.C.																
TRIPS		1 I.D. O.D. 2763 FT.		NOZZLE NO. 1		FLTR. CK.																
LUBRICATE RIG		1 STB. BODY O.D. 615 FT.		SER. NO. 790939		SD. CONT. %																
DEVIATION SURVEY		1 STB. BODY O.D. 719 FT.		DEPTH OUT		PRESSURE GRADIENT																
TEST B.O.P.		1 RMR. BODY O.D. 459 FT.		DEPTH IN																		
CUT OFF DRILLING LINE		2 SUBS O.D. 483 FT.		TOTAL FTG.		MUD & CHEMICALS ADDED																
REPAIR RIG		BIT OR C.B. 614 FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.																
CORING		1 JARS 614 FT.		COND. OF BIT		CRONOX 1 BT																
WIRE LINE LOGGING		KELLY DOWN 4083 FT.		REAMER NO.																		
RUNNING CASING & CEMENTING		TOTAL 5416 FT.		REAMER TYPE		DRILLER J. M. Smith																
WAITING ON CEMENT		WT. OF STRING 18 000 LBS.																				
DRILL STEM TEST		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M.R. CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN	
OTHER		50 STANDS D.P. 4724.98 FT.		BIT NO. 12		TIME 8 00 10 00		FROM TO		D												
FISHING		2 SINGLES D.P. 622.0 FT.		SIZE 7 7/8		WEIGHT 9.5 9.5		5416 5463								65	40	530	5 1/2	69		
A. PERFORATING		1 D.C. 592.16 FT.		MFG. SEC		VISC.-SEC 28 28																
B. TUBING TRIPS		1 I.D. O.D. 1035 FT.		TYPE H8J		W.L.-C.C.																
C. SWABBING		1 D.C. 2763 FT.		NOZZLE NO. 1		FLTR. CK.																
D. TESTING		1 I.D. O.D. 2763 FT.		SER. NO. 790938		SD. CONT. %																
E. ADDITIONAL		1 STB. BODY O.D. 615 FT.		DEPTH OUT		PRESSURE GRADIENT																
TOTALS		1 STB. BODY O.D. 719 FT.		DEPTH IN																		
TIME SUMMARY (OFFICE USE ONLY)		1 RMR. BODY O.D. 459 FT.		TOTAL FTG.		MUD & CHEMICALS ADDED																
DAY WORK		2 SUBS O.D. 483 FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.																
HRS. W/DP		BIT OR C.B. 614 FT.		COND. OF BIT		CRONOX 1 BT																
HRS. WO/DP		JUNK SUB 205 FT.		TOTAL		CAUSTIC 100																
HRS. STANDBY		KELLY DOWN 23.86 FT.		REAMER NO.		LIME 100																
		TOTAL 5463 FT.		REAMER TYPE		DRILLER A. P. Smith																
		WT. OF STRING 120 000 LBS.																				
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M.R. CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN	
		51 STANDS D.P. 4818.12 FT.		BIT NO. 13		TIME 6 10 10 00 12 00		FROM TO		D												
		2 SINGLES D.P. 62.77 FT.		SIZE 7 7/8		WEIGHT 8.5 8.5 8.5		5463 5575								65	40	530	5 1/2	69		
		1 D.C. 592.16 FT.		MFG. SEC		VISC.-SEC 28 28 28																
		1 I.D. O.D. 1035 FT.		TYPE H8J		W.L.-C.C.																
		1 D.C. 2763 FT.		NOZZLE NO. 1		FLTR. CK.																
		1 I.D. O.D. 2763 FT.		SER. NO. 790930		SD. CONT. %																
		1 STB. BODY O.D. 615 FT.		DEPTH OUT		PRESSURE GRADIENT																
		1 STB. BODY O.D. 719 FT.		DEPTH IN																		
		1 RMR. BODY O.D. 459 FT.		TOTAL FTG.		MUD & CHEMICALS ADDED																
		2 SUBS O.D. 483 FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.																
		BIT OR C.B. 614 FT.		COND. OF BIT		CRONOX 1 BT																
		JUNK SUB 205 FT.		TOTAL		LIME 150																
		KELLY DOWN 4083 FT.		REAMER NO.																		
		TOTAL 5575 FT.		REAMER TYPE		DRILLER																
		WT. OF STRING 120 000 LBS.																				
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M.R. CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN	
		51 STANDS D.P. 4818.12 FT.		BIT NO. 13		TIME 6 10 10 00 12 00		FROM TO		D												
		2 SINGLES D.P. 62.77 FT.		SIZE 7 7/8		WEIGHT 8.5 8.5 8.5		5463 5575								65	40	530	5 1/2	69		
		1 D.C. 592.16 FT.		MFG. SEC		VISC.-SEC 28 28 28																
		1 I.D. O.D. 1035 FT.		TYPE H8J		W.L.-C.C.																
		1 D.C. 2763 FT.		NOZZLE NO. 1		FLTR. CK.																
		1 I.D. O.D. 2763 FT.		SER. NO. 790930		SD. CONT. %																
		1 STB. BODY O.D. 615 FT.		DEPTH OUT		PRESSURE GRADIENT																
		1 STB. BODY O.D. 719 FT.		DEPTH IN																		
		1 RMR. BODY O.D. 459 FT.		TOTAL FTG.		MUD & CHEMICALS ADDED																
		2 SUBS O.D. 483 FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.																
		BIT OR C.B. 614 FT.		COND. OF BIT		CRONOX 1 BT																
		JUNK SUB 205 FT.		TOTAL		LIME 150																
		KELLY DOWN 4083 FT.		REAMER NO.																		
		TOTAL 5575 FT.		REAMER TYPE		DRILLER																
		WT. OF STRING 120 000 LBS.																				
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M.R. CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN	
		51 STANDS D.P. 4818.12 FT.		BIT NO. 13		TIME 6 10 10 00 12 00		FROM TO		D												
		2 SINGLES D.P. 62.77 FT.		SIZE 7 7/8		WEIGHT 8.5 8.5 8.5		5463 5575								65	40	530	5 1/2	69		
		1 D.C. 592.16 FT.		MFG. SEC		VISC.-SEC 28 28 28																
		1 I.D. O.D. 1035 FT.		TYPE H8J		W.L.-C.C.																
		1 D.C. 2763 FT.		NOZZLE NO. 1		FLTR. CK.																
		1 I.D. O.D. 2763 FT.		SER. NO. 790930		SD. CONT. %																
		1 STB. BODY O.D. 615 FT.		DEPTH OUT		PRESSURE GRADIENT																
		1 STB. BODY O.D. 719 FT.		DEPTH IN																		
		1 RMR. BODY O.D. 459 FT.		TOTAL FTG.		MUD & CHEMICALS ADDED																
		2 SUBS O.D. 483 FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.																
		BIT OR C.B. 614 FT.		COND. OF BIT		CRONOX 1 BT																
		JUNK SUB 205 FT.		TOTAL		LIME 150																
		KELLY DOWN 4083 FT.		REAMER NO.																		
		TOTAL 5575 FT.		REAMER TYPE		DRILLER																
		WT. OF STRING 120 000 LBS.																				
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M.R. CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN	
		51 STANDS D.P. 4818.12 FT.		BIT NO. 13		TIME 6 10 10 00 12 00		FROM TO		D												
		2 SINGLES D.P. 62.77 FT.		SIZE 7 7/8		WEIGHT 8.5 8.5 8.5		5463 5575								65	40	530	5 1/2	69		
		1 D.C. 592.16 FT.		MFG. SEC		VISC.-SEC 28 28 28																
		1 I.D. O.D. 1035 FT.		TYPE H8J		W.L.-C.C.																
		1 D.C. 2763 FT.		NOZZLE NO. 1		FLTR. CK.																
		1 I.D. O.D. 2763 FT.		SER. NO. 790930		SD. CONT. %																
		1 STB. BODY O.D. 615 FT.		DEPTH OUT		PRESSURE GRADIENT																
		1 STB. BODY O.D. 719 FT.		DEPTH IN																		
		1 RMR. BODY O.D. 459 FT.		TOTAL FTG.		MUD & CHEMICALS ADDED																
		2 SUBS O.D. 483 FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.																
		BIT OR C.B. 614 FT.		COND. OF BIT		CRONOX 1 BT																
		JUNK SUB 205 FT.		TOTAL		LIME 150																
		KELLY DOWN 4083 FT.		REAMER NO.																		
		TOTAL 5575 FT.		REAMER TYPE		DRILLER																
		WT. OF STRING 120 000 LBS.																				
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M.R. CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN	
		51 STANDS D.P. 4818.12 FT.		BIT NO. 13		TIME 6 10 10 00 12 00		FROM TO		D												

DAILY DRILLING REPORT 22

REPORT NO.

DATE JUL 18 66

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE	
ATLANTIC RICHFIELD		Atlantic PRC LITTLE CHICAGO		N 32		N.W.T.					
CONTRACTOR		RIG NO.		DRILL PIPE STRING		TOOL JOINT		O.D.		PUMPS	
S & T DRILLING CO. LTD.		1E		NO. SIZE		TYPE THD.				LAST CASING TUBING OR LINER	
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		NO.		MANUFACTURER		TYPE		STROKE LENGTH	
J. Davidson				1.		NAT		K 380		14	
				2.							
				3.							
TIME DISTRIBUTION—HOURS		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE	
MORN DAY EVE		47		STANDS D.P. 4441.58 FT.		BIT NO. 11		TIME 2 00 4 00 6 00		FROM TO	
RIG UP & TEAR DOWN		21		SINGLES D.P. FT.		SIZE 7 3/4		WEIGHT 8.5 8.5 8.5		4965 5105	
DRILLING ACTUAL 7 3/4 6 1/2 4 1/4		1		D.C. 592.16		MFG. HW		VISC.-SEC 28 28 28			
REAMING		1		I.D. O.D. 10.35 FT.		TYPE PG7X5		W.L.-C.C.			
CONDITIONING MUD & CIRCULATING		1		D.C.		NOZZLE NO.		FLTR. CK.			
TRIPS		1		I.D. O.D. 27.63 FT.		NOZZLE SIZE		PH 10.5 11 10.5			
LUBRICATE RIG 1/4 1/4		1		STB. BODY O.D. 6.15 FT.		SER. NO. FPD60		SD. CONT. %			
DEVIATION SURVEY 1/4		1		STB. BODY O.D. 7.19 FT.		DEPTH OUT		PRESSURE GRADIENT			
TEST B.O.P. 1/4		1		RMR. BODY O.D. 4.59 FT.		DEPTH IN					
CUT OFF DRILLING LINE		2		SUBS O.D. 4.83 FT.		TOTAL FTG. 372		MUD & CHEMICALS ADDED			
REPAIR RIG 1/4				BIT OR C.B. FT.		TOTAL HR. RUN 24		TYPE AMT. TYPE AMT.			
CORING				JARS 6.14 FT.		COND. OF BIT		CRD 0.08 30% CAUSTIC 100%			
WIRE LINE LOGGING				KELLY DOWN 11 FT.		REAMER NO.		DRILLER			
RUNNING CASING & CEMENTING				TOTAL 5105 FT.		REAMER TYPE					
WAITING ON CEMENT				WT. OF STRING 112,000 LBS.							
DRILL STEM TEST				NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
OTHER		48		STANDS D.P. 4536.51 FT.		BIT NO. 11		TIME 8.00 12.00 2.00		FROM TO	
FISHING		21		SINGLES D.P. FT.		SIZE 7 3/4		WEIGHT 8.5 8.5 8.5		5105 5206	
A. PERFORATING		1		D.C. 592.16		MFG. HW		VISC.-SEC 28 28 28			
B. TUBING TRIPS		1		I.D. O.D. 10.35 FT.		TYPE PG7X5		W.L.-C.C.			
C. SWABBING		1		D.C.		NOZZLE NO.		FLTR. CK.			
D. TESTING		1		I.D. O.D. 27.63 FT.		NOZZLE SIZE		PH 10.0 10.5 10.5			
E. ADDITIONAL		1		STB. BODY O.D. 6.15 FT.		SER. NO. FPD60		SD. CONT. %			
TOTALS 8 8 8		1		STB. BODY O.D. 7.19 FT.		DEPTH OUT		PRESSURE GRADIENT			
TIME SUMMARY (OFFICE USE ONLY)		1		RMR. BODY O.D. 4.59 FT.		DEPTH IN					
DAY WORK		2		SUBS O.D. 4.83 FT.		TOTAL FTG. 493		MUD & CHEMICALS ADDED			
HRS. W/DP				BIT OR C.B. FT.		TOTAL HR. RUN 30 1/2		TYPE AMT. TYPE AMT.			
HRS. WO/DP				JARS 6.14 FT.		COND. OF BIT 8-8-1		GAUSTIC 100% LIME 250%			
HRS. STANDBY				KELLY DOWN 16.73 FT.		REAMER NO.		DRILLER C. P. Parker			
TOTAL DAY WORK 8 8 8				TOTAL 5206 FT.		REAMER TYPE					
WIRE LINE RECORD				WT. OF STRING LBS.							
REEL NO.				NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
NO. OF LINES SIZE		49		STANDS D.P. 4536.51 FT.		BIT NO. 12		TIME 8.00 10.00		FROM TO	
FEET SLIPPED		1		SINGLES D.P. 31.58 FT.		SIZE 7 3/4		WEIGHT 8.6 8.6		5206 5259	
FEET CUT OFF		21		D.C. 592.16		MFG. SFC		VISC.-SEC 28 28			
PRESENT LENGTH		1		I.D. O.D. 10.35 FT.		TYPE H85		W.L.-C.C.			
TON MI. OR TRIPS SINCE LAST CUT		1		D.C.		NOZZLE NO.		FLTR. CK.			
CUMULATIVE TON MI. OR TRIPS		1		I.D. O.D. 27.63 FT.		NOZZLE SIZE		PH 10.5 10.5			
NO. OF DAYS FROM SPUD		1		STB. BODY O.D. 6.15 FT.		SER. NO. 790938		SD. CONT. %			
CUMULATIVE ROTATING HRS.		1		STB. BODY O.D. 7.19 FT.		DEPTH OUT		PRESSURE GRADIENT			
		1		RMR. BODY O.D. 4.59 FT.		DEPTH IN					
		2		SUBS O.D. 4.83 FT.		TOTAL FTG. 53		MUD & CHEMICALS ADDED			
				BIT OR C.B. FT.		TOTAL HR. RUN 4 1/4		TYPE AMT. TYPE AMT.			
				JARS 6.14 FT.		COND. OF BIT		CRD 0.08 10% CAUSTIC 100% LIME 100%			
				KELLY DOWN 40.83 FT.		REAMER NO.		DRILLER			
				TOTAL 5259 FT.		REAMER TYPE					
				WT. OF STRING 115,000 LBS.							
				NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
		49		STANDS D.P. 4536.51 FT.		BIT NO. 12		TIME 8.00 10.00		FROM TO	
		1		SINGLES D.P. 31.58 FT.		SIZE 7 3/4		WEIGHT 8.6 8.6		5206 5259	
		21		D.C. 592.16		MFG. SFC		VISC.-SEC 28 28			
		1		I.D. O.D. 10.35 FT.		TYPE H85		W.L.-C.C.			
		1		D.C.		NOZZLE NO.		FLTR. CK.			
		1		I.D. O.D. 27.63 FT.		NOZZLE SIZE		PH 10.5 10.5			
		1		STB. BODY O.D. 6.15 FT.		SER. NO. 790938		SD. CONT. %			
		1		STB. BODY O.D. 7.19 FT.		DEPTH OUT		PRESSURE GRADIENT			
		1		RMR. BODY O.D. 4.59 FT.		DEPTH IN					
		2		SUBS O.D. 4.83 FT.		TOTAL FTG. 53		MUD & CHEMICALS ADDED			
				BIT OR C.B. FT.		TOTAL HR. RUN 4 1/4		TYPE AMT. TYPE AMT.			
				JARS 6.14 FT.		COND. OF BIT		CRD 0.08 10% CAUSTIC 100% LIME 100%			
				KELLY DOWN 40.83 FT.		REAMER NO.		DRILLER			
				TOTAL 5259 FT.		REAMER TYPE					
				WT. OF STRING 115,000 LBS.							
				NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
		49		STANDS D.P. 4536.51 FT.		BIT NO. 12		TIME 8.00 10.00		FROM TO	
		1		SINGLES D.P. 31.58 FT.		SIZE 7 3/4		WEIGHT 8.6 8.6		5206 5259	
		21		D.C. 592.16		MFG. SFC		VISC.-SEC 28 28			
		1		I.D. O.D. 10.35 FT.		TYPE H85		W.L.-C.C.			
		1		D.C.		NOZZLE NO.		FLTR. CK.			
		1		I.D. O.D. 27.63 FT.		NOZZLE SIZE		PH 10.5 10.5			
		1		STB. BODY O.D. 6.15 FT.		SER. NO. 790938		SD. CONT. %			
		1		STB. BODY O.D. 7.19 FT.		DEPTH OUT		PRESSURE GRADIENT			
		1		RMR. BODY O.D. 4.59 FT.		DEPTH IN					
		2		SUBS O.D. 4.83 FT.		TOTAL FTG. 53		MUD & CHEMICALS ADDED			
				BIT OR C.B. FT.		TOTAL HR. RUN 4 1/4		TYPE AMT. TYPE AMT.			
				JARS 6.14 FT.		COND. OF BIT		CRD 0.08 10% CAUSTIC 100% LIME 100%			
				KELLY DOWN 40.83 FT.		REAMER NO.		DRILLER			
				TOTAL 5259 FT.		REAMER TYPE					
				WT. OF STRING 115,000 LBS.							
				NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
		49		STANDS D.P. 4536.51 FT.		BIT NO. 12		TIME 8.00 10.00		FROM TO	
		1		SINGLES D.P. 31.58 FT.		SIZE 7 3/4		WEIGHT 8.6 8.6		5206 5259	
		21		D.C. 592.16		MFG. SFC		VISC.-SEC 28 28			
		1		I.D. O.D. 10.35 FT.		TYPE H85		W.L.-C.C.			
		1		D.C.		NOZZLE NO.		FLTR. CK.			
		1		I.D. O.D. 27.63 FT.		NOZZLE SIZE		PH 10.5 10.5			
		1		STB. BODY O.D. 6.15 FT.		SER. NO. 790938		SD. CONT. %			
		1		STB. BODY O.D. 7.19 FT.		DEPTH OUT		PRESSURE GRADIENT			
		1		RMR. BODY O.D. 4.59 FT.		DEPTH IN					
		2		SUBS O.D. 4.83 FT.		TOTAL FTG. 53		MUD & CHEMICALS ADDED			
				BIT OR C.B. FT.		TOTAL HR. RUN 4 1/4		TYPE AMT. TYPE AMT.			
				JARS 6.14 FT.		COND. OF BIT		CRD 0.08 10% CAUSTIC 100% LIME 100%			
				KELLY DOWN 40.83 FT.		REAMER NO.		DRILLER			
				TOTAL 5259 FT.		REAMER TYPE					
				WT. OF STRING 115,000 LBS.							
				NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
		49		STANDS D.P. 4536.51 FT.		BIT NO. 12		TIME 8.00 10.00		FROM TO	
		1		SINGLES D.P. 31.58 FT.		SIZE 7 3/4		WEIGHT 8.6 8.6		5206 5259	
		21		D.C. 592.16		MFG. SFC		VISC.-SEC 28 28			
		1		I.D. O.D. 10.35 FT.		TYPE H85		W.L.-C.C.			
		1		D.C.		NOZZLE NO.		FLTR. CK.			
		1		I.D. O.D. 27.63 FT.		NOZZLE SIZE		PH 10.5 10.5			
		1		STB. BODY O.D. 6.15 FT.		SER. NO. 790938		SD. CONT. %			
		1		STB. BODY O.D. 7.19 FT.		DEPTH OUT		PRESSURE GRADIENT			
		1		RMR. BODY O.D. 4.59 FT.		DEPTH IN					
		2		SUBS O.D. 4.83 FT.		TOTAL FTG. 53		MUD & CHEMICALS ADDED			
				BIT OR C.B. FT.		TOTAL HR. RUN 4 1/4		TYPE AMT. TYPE AMT.			
				JARS 6.14 FT.		COND. OF BIT		CRD 0.08 10% CAUSTIC 100% LIME 100%			
				KELLY DOWN 40.83 FT.		REAMER NO.		DRILLER			
				TOTAL 5259 FT.		REAMER TYPE					
				WT. OF STRING 115,000 LBS.							
				NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
		49		STANDS D.P. 4536.51 FT.		BIT NO. 12		TIME 8.00 10.00		FROM TO	
		1		SINGLES D.P. 31.58 FT.		SIZE 7 3/4		WEIGHT 8.6 8.6		5206 5259	
		21		D.C. 592.16		MFG. SFC		VISC.-SEC 28 28			
		1		I.D. O.D. 10.35 FT.		TYPE H85		W.L.-C.C.			
		1		D.C.		NOZZLE NO.		FLTR. CK.			
		1		I.D. O.D. 27.63 FT.		NOZZLE SIZE		PH 10.5 10.5			
		1		STB. BODY O.D. 6.15 FT.		SER. NO. 790938		SD. CONT. %			
		1		STB. BODY O.D. 7.19 FT.		DEPTH OUT		PRESSURE GRADIENT			
		1		RMR. BODY O.D. 4.59 FT.		DEPTH IN					
		2		SUBS O.D. 4.83 FT.		TOTAL FTG. 53		MUD & CHEMICALS ADDED			
				BIT OR C.B. FT.		TOTAL HR. RUN 4 1/4		TYPE AMT. TYPE AMT.			
				JARS 6.14 FT.		COND. OF BIT		CRD 0.08 10% CAUSTIC 100% LIME 100%			
				KELLY DOWN 40.83 FT.		REAMER NO.		DRILLER			
				TOTAL 5259 FT.		REAMER TYPE					
				WT. OF STRING 115,000 LBS.							
				NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
		49		STANDS D.P. 4536.51 FT.		BIT NO. 12		TIME 8.00 10.00		FROM TO	
		1		SINGLES D.P. 31.58 FT.		SIZE 7 3/4		WEIGHT 8.6 8.6		5206 5259	
		21		D.C. 592.16		MFG. SFC		VISC.-SEC 28 28			
		1		I.D. O.D. 10.35 FT.		TYPE H85		W.L.-C.C.			
		1		D.C.		NOZZLE NO.		FLTR. CK.			
		1		I.D. O.D. 27.63 FT.		NOZZLE SIZE		PH 10.5 10.5			
		1		STB. BODY O.D. 6.15 FT.		SER. NO. 790938		SD. CONT. %			
		1		STB. BODY O.D. 7.19 FT.		DEPTH OUT		PRESSURE GRADIENT			
		1		RMR. BODY O.D. 4.59 FT.		DEPTH IN					
		2		SUBS O.D. 4.83 FT.		TOTAL FTG. 53		MUD & CHEMICALS ADDED			
				BIT OR C.B. FT.		TOTAL HR. RUN 4 1/4		TYPE AMT. TYPE AMT.			
				JARS 6.14 FT.		COND. OF BIT		CRD 0.08 10% CAUSTIC 100% LIME 100%			
				KELLY DOWN 40.83 FT.		REAMER NO.		DRILLER			
				TOTAL 5259 FT.		REAMER TYPE					
				WT. OF STRING 115,000 LBS.							
				NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
		49		STANDS D.P. 4536.51 FT.		BIT NO. 12		TIME 8.00 10.00		FROM TO	
		1		SINGLES D.P. 31.58 FT.		SIZE 7 3/4		WEIGHT 8.6 8.6		5206 5259	
		21		D.C. 592.16		MFG. SFC		VISC.-SEC 28 28			
		1		I.D. O.D. 10.35 FT.		TYPE H85		W.L.-C.C.			
		1		D.C.		NOZZLE NO.		FLTR. CK.			
		1		I.D. O.D. 27.63 FT.		NOZZLE SIZE		PH 10.5 10.5			
		1		STB. BODY O.D. 6.15 FT.		SER. NO. 790938		SD. CONT. %			
		1		STB. BODY O.D. 7.19 FT.		DEPTH OUT		PRESSURE GRADIENT			
		1		RMR. BODY O.D. 4.59 FT.		DEPTH IN					
		2		SUBS O.D. 4.83 FT.		TOTAL FTG. 53		MUD & CHEMICALS ADDED			

DATE JULY 7 1964

OPERATOR		DATE		REPORT NO.		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																					
ATLANTIC RICHFIELD		JUL 4 1965		21		Atlantic Area LITTLE CHICAGO N32		N.W.T.		N.W.T.		N.W.T.		N.W.T.																					
CONTRACTOR		RIG NO.		DRILL PIPE		TOOL JOINT		PUMPS		LAST CASING		SIZE		MAKE		WT. & CR.		NO. JOINTS		FEET		RKB. TO		SET AT		PRIVATE									
S & T DRILLING CO. LTD.		1E		NO.		SIZE		O.D.		NO.		MANUFACTURER		TYPE		STROKE		8 7/8		245		20		623		1230		624							
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		NO.		1		NAT		2		3		380		14												HOLE							
TIME DISTRIBUTION - HOURS		MORN		DAY		EVE		NO.		DRILLING ASSEMBLY		BIT RECORD		MUD RECORD		FOOTAGE		DR. D		CORE NO.		FORMATION		ROTARY		WT. ON		PUMP		PUMP NO.		METHOD			
RIG UP & TEAR DOWN		3 1/2		6 1/2		8		43		STANDS D.P.		4062 84 FT.		BIT NO.		10		11		TIME		12 00		7 00		FROM		TO		ELAPSED		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS			
DRILLING ACTUAL		3 1/2		6 1/2		8		2		D.C.		592.16		MFG.		H.W.		H.W.		VISC. SEC		28		28		4713		4753		0		SERV. RIG			
REAMING		1/2						1		I.D. O.D.		10.35 FT.		TYPE		RG 7 1/2		RG 7 1/2		W.L. - C.C.												DRLG 7 1/2 HOLE			
CONDITIONING MUD & CIRCULATING								1		D.C.				NOZZLE		NO.				FLTR. CK.												SURVEY			
TRIPS		3 1/2						1		I.D. O.D.		27.63 FT.		SER. NO.		EW 2 1/2		FPO 100		SD. CONT. %												PULL OUT			
LUBRICATE RIG		1/4		1/4				1		STB. BODY O.D.		6.15 FT.		DEPTH OUT		4733				PRESSURE GRADIENT												CHECK BLIND RAMS			
DEVIATION SURVEY		1/2						1		STB. BODY O.D.		2.19 FT.		DEPTH IN		4288		4733														RUN IN HOLE			
TEST B.O.P.		1/4						1		RMR. BODY O.D.		4.59 FT.		TOTAL FTG.		445		20		MUD & CHEMICALS ADDED												BREAK CIR. BEAM 2 TO BOTTOM			
CUT OFF DRILLING LINE								1		SUBS O.D.		4.83 FT.		TOTAL HR. RUN		27		2		LIME		100										DRLG 7 1/2 HOLE			
REPAIR RIG								1		BIT OR C.B.		6.14 FT.		COND. OF BIT																					
CORING								1		JARS		38. FT.		REAMER NO.						DRILLER															
WIRE LINE LOGGING								1		KELLY DOWN		4753 FT.		REAMER TYPE																					
RUNNING CASING & CEMENTING								1		TOTAL		4753 FT.																							
WAITING ON CEMENT								1		WT. OF STRING		110 000 LBS.																							
DRILL STEM TEST								1		NO.		DRILLING ASSEMBLY		BIT RECORD		MUD RECORD		FOOTAGE		DR. D		CORE NO.		FORMATION		ROTARY		WT. ON		PUMP		PUMP NO.		METHOD	
OTHER								44		STANDS D.P.		4158 84 FT.		BIT NO.		11				TIME		8 00		10 00		2 00		4753		4784		0		SERV. RIG	
FISHING								51		D.C.		592.16		MFG.		H.W.		H.W.		VISC. SEC		28		28										DRLG 7 1/2 HOLE	
A. PERFORATING								1		I.D. O.D.		10.35 FT.		TYPE		RG 7 1/2		RG 7 1/2		W.L. - C.C.												SURVEY			
B. TUBING TRIPS								1		D.C.				NOZZLE		NO.		OUT		FLTR. CK.												PULL OUT			
C. SWABBING																																			

DATE July 6/86

OPERATOR ATLANTIC RICHFIELD CO.		LEASE ARCO LITTLE CHICAGO		WELL NO. NO 32		FIELD OR DIST.		COUNTY DULT		STATE																			
CONTRACTOR S & T DRILLING CO. LTD.		RIG NO. 15		DRILL PIPE NO. SIZE		TOOL JOINT O.D.		PUMPS NO. MANUFACTURER TYPE STROKE LENGTH		LAST CASING TUBING OR LINER		SIZE 8 3/4		MAKE 245		WT. & CR. 20		NO. JOINTS 623		RKB. TO CSG. HD. 1230		SET AT 606		REMARKS					
SIGNATURE OF OPERATOR'S REPRESENTATIVE J. Rando		SIGNATURE OF CONTRACTOR'S TOOL PUSHER H. Rando		1. HAT		K-380		14																					
TIME DISTRIBUTION—HOURS		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO. LINER SIZE S.P.M.		PUMP NO. LINER SIZE S.P.M.		METHOD RUN SGL-S PAR-EL COM-D-C	
RIG UP & TEAR DOWN		40		STANDS D.P. 3772.8 FT.		BIT NO. 10		TIME 2.00 4.00 6.00		FROM 4350 TO 4468		D						65		40		400		5 1/2 69					
DRILLING ACTUAL		21		D.C. 572.16		SIZE 7 1/16		WEIGHT 8.4 8.4 8.4																					
REAMING		1		I.D. O.D. 10.35 FT.		MFG. HW		VISC.-SEC 28 28 28																					
CONDITIONING MUD & CIRCULATING		1		D.C.		TYPE RG 7X5		W.L.-C.C.																					
TRIPS		1		I.D. O.D. 27.63 FT.		NOZZLE NO. 5		FLTR. CK.																					
LUBRICATE RIG		14		STB. BODY O.D. 6.14 FT.		SER. NO. FW245		PH																					
DEVIATION SURVEY		1		STB. BODY O.D. 7.11 FT.		DEPTH OUT		PRESSURE GRADIENT																					
TEST B.O.P.		1		RMR. BODY O.D. 4.59 FT.		DEPTH IN																							
CUT OFF DRILLING LINE		1		SUBS O.D. 4.83 FT.		TOTAL FTG.		MUD & CHEMICALS ADDED																					
REPAIR RIG		14		BIT OR C.B. FT.		TOTAL HR. RUN		COND. OF BIT																					
CORING		1		JARS 6.14 FT.		REAMER NO.		REAMER TYPE																					
WIRE LINE LOGGING		1		KELLY DOWN 36.13 FT.		DRILLER																							
RUNNING CASING & CEMENTING		1		TOTAL 4468 FT.																									
WAITING ON CEMENT		1		WT. OF STRING 108000 LBS.																									
DRILL STEM TEST		41		STANDS D.P. 3873.91 FT.		BIT NO. 10		TIME 7.00 10.00 2.00		FROM 4468 TO 4606		D						65		45		450		5 1/2 69					
OTHER		2		SINGLES D.P. 622.8 FT.		SIZE 7 3/8		WEIGHT 8.4 8.4 8.4										65		18		250		-					
FISHING		21		D.C. 572.16		MFG. HW		VISC.-SEC 28 28 28										65		40		250		-					
A. PERFORATING		1		I.D. O.D. 10.35 FT.		TYPE RG 7X5		W.L.-C.C.																					
B. TUBING TRIPS		1		D.C.		NOZZLE NO. 5		FLTR. CK.																					
C. SWABBING		1		I.D. O.D. 27.63 FT.		SER. NO. FW245		PH																					
D. TESTING		1		STB. BODY O.D. 6.14 FT.		DEPTH OUT		PRESSURE GRADIENT																					
E. ADDITIONAL		1		STB. BODY O.D. 7.11 FT.		DEPTH IN																							
TOTALS		8		RMR. BODY O.D. 4.59 FT.		TOTAL FTG. 318		MUD & CHEMICALS ADDED																					
TIME SUMMARY (OFFICE USE ONLY)																													

DAILY DRILLING REPORT

REPORT NO.

19

DATE July 5/66

OPERATOR

ATLANTIC RICHFIELD

LEASE

Atlantic
ARCO LITTLE CHICAGO

WELL NO.

FIELD OR DIST.

COUNTY

N.W.T.

STATE

CONTRACTOR

S & T DRILLING CO. LTD.

RIG NO.

1E

DRILL PIPE

NO.

SIZE

TOOL JOINT

TYPE THD.

O.D.

PUMPS

NO.

MANUFACTURER

TYPE

STROKE LENGTH

LAST CASING TUBING OR LINER

SIZE

MAKE

WT. & GR.

NO. JOINTS

FEET

RKB. TO CSG. HD.

SET AT

REMARKS

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S TOOL PUSHER

1.

NAT

K380

14

2.

3.

TIME DISTRIBUTION-HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7 3/4	7 3/4	7 3/4
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	1/4		
DEVIATION SURVEY		1/4	1/4
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	BIT RECORD	MUD RECORD	FOOTAGE	DR. D RM. R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
30	STANDS D.P. 3395' 29' FT.	BIT NO. 9	TIME 2 4 6	FROM 4018	TO 4143	12							
2	SINGLES D.P. 6294' FT.	SIZE 7 3/8	WEIGHT 84 84 84										
21	D.C. 5921' 16'	MFG. SEC	VISC.-SEC 28 28 28										
1	I.D. O.D. 1035' FT.	TYPE H8J	W.L.-C.C.										
1	D.C.	NOZZLE NO. 10	FLTR. CK.										
1	I.D. O.D. 2763' FT.	SIZE 10	PH										
1	STB. BODY O.D. 615' FT.	SER. NO. 790909	SD. CONT. %										
1	STB. BODY O.D. 719' FT.	DEPTH OUT	PRESSURE GRADIENT										
1	RMR. BODY O.D. 459' FT.	DEPTH IN 3969											
1	SUBS O.D. 483' FT.	TOTAL FTG.	MUD & CHEMICALS ADDED										
1	BIT OR C.B. 614' FT.	TYPE AMT. TYPE AMT.											
1	KELLY DOWN 2376' FT.	TOTAL HR. RUN 1 1/4											
1	TOTAL 4143' FT.	COND. OF BIT											
1	WT. OF STRING LBS.	REAMER NO.											
1		REAMER TYPE											
1		DRILLER											

DRILL STEM TEST	
OTHER	
FISHING	
COMPLETION WORK	
A. PERFORATING	
B. TUBING TRIPS	
C. SWABBING	
D. TESTING	
E. ADDITIONAL	
TOTALS	8 8 8

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	BIT RECORD	MUD RECORD	FOOTAGE	DR. D RM. R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
28	STANDS D.P. 3585' FT.	BIT NO. 9	TIME 10 12 2	FROM 4145	TO 4278	0							
1	SINGLES D.P. 3161' FT.	SIZE 7 3/8	WEIGHT 8.4 8.4 8.4										
21	D.C. 5421' 10'	MFG. SEC	VISC.-SEC 28 28 28										
1	I.D. O.D. 1035' FT.	TYPE H8J	W.L.-C.C.										
1	D.C.	NOZZLE NO. 10	FLTR. CK.										
1	I.D. O.D. 2763' FT.	SIZE 10	PH										
1	STB. BODY O.D. 615' FT.	SER. NO. 790909	SD. CONT. %										
1	STB. BODY O.D. 719' FT.	DEPTH OUT 4288	PRESSURE GRADIENT										
1	RMR. BODY O.D. 454' FT.	DEPTH IN 3969											
1	SUBS O.D. 483' FT.	TOTAL FTG.	MUD & CHEMICALS ADDED										
1	BIT OR C.B. 614' FT.	TYPE AMT. TYPE AMT.											
1	KELLY DOWN 13.83' FT.	TOTAL HR. RUN 19	CAUSTIC 100										
1	TOTAL 4288' FT.	COND. OF BIT 66.1	LIME 50										
1	WT. OF STRING LBS.	REAMER NO.											
1		REAMER TYPE											
1		DRILLER											

TIME SUMMARY (OFFICE USE ONLY)	
DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	

TOTAL DAY WORK	8 8 8
WIRE LINE RECORD	
REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	BIT RECORD	MUD RECORD	FOOTAGE	DR. D RM. R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
39	STANDS D.P. 3679' 11' FT.	BIT NO. 10	TIME 7:00 11:00	FROM 4288	TO 4350	D							
21	SINGLES D.P. 8921' 16'	SIZE 7 3/8	WEIGHT 8.4										
1	D.C. 1035' FT.	MFG. HW	VISC.-SEC 28										
1	I.D. O.D. 2763' FT.	TYPE RB 7X2	W.L.-C.C.										
1	D.C.	NOZZLE NO. 10	FLTR. CK										
1	I.D. O.D. 615' FT.	SIZE 10	PH										
1	STB. BODY O.D. 719' FT.	SER. NO. EW345	SD. CONT. %										
1	STB. BODY O.D. 459' FT.	DEPTH OUT	PRESSURE GRADIENT										
1	RMR. BODY O.D. 483' FT.	DEPTH IN 4288											
1	SUBS O.D. 614' FT.	TOTAL FTG.	MUD & CHEMICALS ADDED										
1	BIT OR C.B. 614' FT.	TYPE AMT. TYPE AMT.											
1	KELLY DOWN 11.88' FT.	TOTAL HR. RUN 3 1/2											
1	TOTAL 4350' FT.	COND. OF BIT											
1	WT. OF STRING LBS.	REAMER NO.											
1		REAMER TYPE											
1		DRILLER											

CLORIDE CONT- 4:30 PM 28000 P.P.M.	
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DATE 5-21-4/66

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER	1.	N91	K-380	14"	CASING						
<i>J. Davidson</i>	<i>[Signature]</i>	2.				TUBING						
		3.				OR LINER						

[illegible]

REPORT NO. 18 DATE July 3/66

OPERATOR		LEASE		REPORT NO.		DATE		WELL NO.		FIELD OR DIST.		COUNTY		STATE													
AT LANTIC HIGH FIELD		MREO LITTLE CHICAGO		N 32				N 32		T		T		T													
CONTRACTOR		RIG NO.		DRILL PIPE STRING		TOOL JOINT		O.D.		PUMPS		SIZE		MAKE		WT. & GR.		NO. JOINTS		FEET		RKB. TO CSG. HD.		SEY AT		PRIVATE	
S & T DRILLING CO. LTD.		1E		NO. SIZE		TYPE THD.		O.D.		NO. MANUFACTURER		TYPE		STROKE LENGTH		LAST CASING TUBING OR LINER											
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		1. NAT		K 380		14																		TIGHT HOLE	
J. H. HANCOCK		H. H. HANCOCK																									
TIME DISTRIBUTION-HOURS		MORN		DAY		EVE																					
RIG UP & TEAR DOWN																											
DRILLING ACTUAL		4 1/2		7 1/4		7																					
REAMING																											
CONDITIONING MUD & CIRCULATING																											
TRIPS		2 1/2																									
LUBRICATE RIG				1 1/4																							
DEVIATION SURVEY																											
TEST B.O.P.		2 1/4																									
CUT OFF DRILLING LINE		2 1/4																									
REPAIR RIG																											
CORING																											
WIRE LINE LOGGING																											
RUNNING CASING & CEMENTING																											
WAITING ON CEMENT																											
DRILL STEM TEST																											
OTHER																											
FISHING																											
COMPLETION WORK																											
A. PERFORATING																											
B. TUBING TRIPS																											
C. SWABBING																											
D. TESTING																											
E. ADDITIONAL																											
TOTALS		8		8		8																					
TIME SUMMARY (OFFICE USE ONLY)																											
DAY WORK																											
HRS. W/DP																											
HRS. WO/DP																											
HRS. STANDBY																											
TOTAL DAY WORK		8		8		8																					

DATE July 2/66

OPERATOR		DATE		REPORT NO.		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																					
Atlantic Richfield		1960		11700		Atlantic		N32		NWT		NWT		NWT																					
CONTRACTOR		RIG NO.		DRILL PIPE		TOOL JOINT		O.D.		PUMPS		LAST CASING		TUBING OR LINER																					
S & T DRILLING CO. LTD.		1.E		NO. SIZE		NO. SIZE		TYPE THD.		NO. MANUFACTURER		TYPE STROKE LENGTH		SIZE MAKE WT. & GR. NO. JOINTS FEET RKB. TO CSG. HD. SET AT																					
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		1. NAT		K380		17		3. 17		PRIVATE		TIGHT HOLE																					
TIME DISTRIBUTION-HOURS		MORN		DAY		EVE		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
RIG UP & TEAR DOWN		7 1/2		7 1/2		7 1/2		STANDS D.P.		245383 FT.		BIT NO.		7		TIME		2 4 6		FROM		TO		3040 3165		65		40		375		52 69		SGL. S PAR. EL. COM. D.C.	
DRILLING ACTUAL		7 1/2		7 1/2		7 1/2		SINGLES D.P.		3162 FT.		SIZE		7 3/8		WEIGHT		24 84 24		28 28 28		28 28 28		28 28 28		28 28 28		28 28 28		28 28 28		28 28 28		28 28 28	
REAMING								D.C.		54216		MFG.		HW		VISC.-SEC		28 28 28		28 28 28		28 28 28		28 28 28		28 28 28		28 28 28		28 28 28		28 28 28		28 28 28	
CONDITIONING MUD & CIRCULATING								I.D. O.D.		1035 FT.		TYPE		RG 2 1/2		W.L.-C.C.																			
TRIPS								D.C.				NOZZLE		NO. 5		FLTR. CK.																			
LUBRICATE RIG		24		24		24		I.D. O.D.		2763 FT.		SER. NO.		FP037		SD. CONT. %																			
DEVIATION SURVEY								STB. BODY O.D.		615 FT.		DEPTH OUT				PRESSURE GRADIENT																			
TEST B.O.P.								STB. BODY O.D.		719 FT.		DEPTH IN		2776																					
CUT OFF DRILLING LINE								RMR. BODY O.D.		459 FT.		TOTAL FTG.				MUD & CHEMICALS ADDED																			
REPAIR RIG								SUBS O.D.		483 FT.		TOTAL HR. RUN		26																					
CORING								BIT OR C.B.		FT.		COND. OF BIT																							
WIRE LINE LOGGING								JARS		614 FT.		REAMER NO.																							
RUNNING CASING & CEMENTING								KELLY DOWN		2054 FT.		DRILLER		H. H. H. H.																					
WAITING ON CEMENT								TOTAL		2165 FT.																									
DRILL STEM TEST								WT. OF STRING		89000 LBS.		REAMER TYPE																							
OTHER								NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FISHING								23 STANDS D.P.		2554.62 FT.		BIT NO.		7		TIME		8.00 12.00 2.00		FROM		TO		3165 3305		65		40		375		52 69		SGL. S PAR. EL. COM. D.C.	
A. PERFORATING								2 SINGLES D.P.		6319 FT.		SIZE		7 3/8		WEIGHT		8.4 8.4 7.4		28 28 28		28 28 28		28 28 28		28 28 28		28 28 28		28 28 28		28 28 28		28 28 28	
B. TUBING TRIPS								D.C.		54216		MFG.		HW		VISC.-SEC		28 28 28																	

DAILY DRILLING REPORT

REPORT NO. 16

DATE July 1/66

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE	
Atlantic Richfield		Atlantic		N 36		N 36		N 36		N 36	
CONTRACTOR		RIG NO.		DRILL PIPE		TOOL JOINT		PUMPS		LAST CASING	
S & T DRILLING CO. LTD.		1.E		NO. SIZE		O.D.		NO. MANUFACTURER TYPE STROKE LENGTH		TUBING OR LINER	
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		NO. 1		2		3		SIZE MAKE WT. & GR. NO. JOINTS FEET RKB. TO CSG. HD. SET AT	
J. Davidson		N. J. Davidson		1		2		3		PRIVATE	
TIME DISTRIBUTION-HOURS		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)	
RIG UP & TEAR DOWN		22 STANDS D.P. 207630 FT.		BIT NO. 6 7		TIME 200 600		FROM TO		ROTARY RPM WT. ON BIT 1000# PUMP PRESS PUMP NO. PUMP NO. METHOD RUN	
DRILLING ACTUAL		2 SINGLES D.P. 6290 FT.		SIZE 7 7 7		WEIGHT 84 84 84		2745 2820		65 38 350 52 69	
REAMING		2 D.C. 59216		MFG. HW HW		VISC.-SEC 28 28 28					
CONDITIONING MUD & CIRCULATING		1 I.D. O.D. 1035 FT.		TYPE PG 7X1 R67K		W.L.-C.C.					
TRIPS		1 D.C. 2763 FT.		NOZZLE NO. 045		FLTR. CK.					
LUBRICATE RIG		1 STB. BODY O.D. 615 FT.		SER. NO. E244 FP037		SD. CONT. % 500					
DEVIATION SURVEY		1 STB. BODY O.D. 719 FT.		DEPTH OUT 2776		PRESSURE GRADIENT					
TEST B.O.P.		1 RMR. BODY O.D. 459 FT.		DEPTH IN 2345 2776							
CUT OFF DRILLING LINE		1 SUBS O.D. 483 FT.		TOTAL FTG. 431		MUD & CHEMICALS ADDED					
REPAIR RIG		1 BIT OR C.B. FT.		TOTAL HR. RUN 30 3 3 4		TYPE AMT. TYPE AMT.					
CORING		1 KARS 614 FT.		COND. OF BIT							
WIRE LINE LOGGING		1 KELLY DOWN 2177 FT.		REAMER NO.							
RUNNING CASING & CEMENTING		1 TOTAL 2880 FT.		REAMER TYPE							
WAITING ON CEMENT		WT. OF STRING 86000 LBS.		DRILLER							
DRILL STEM TEST		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)	
OTHER		24 STANDS D.P. 227087 FT.		BIT NO. 7		TIME 800 1200 200		FROM TO		ROTARY RPM WT. ON BIT 1000# PUMP PRESS PUMP NO. PUMP NO. METHOD RUN	
FISHING		2 SINGLES D.P. FT.		SIZE 7 7 7		WEIGHT 84 84 84		2820 2935		65 44 350 52 69	
COMPLETION WORK		2 D.C. 59216		MFG. HW		VISC.-SEC 28 28 28					
A. PERFORATING		1 I.D. O.D. 1635 FT.		TYPE R67K		W.L.-C.C.					
B. TUBING TRIPS		1 D.C. 2763 FT.		NOZZLE NO. 045		FLTR. CK.					
C. SWABBING		1 I.D. O.D. 2763 FT.		SER. NO. FP037		SD. CONT. %					
D. TESTING		1 STB. BODY O.D. 615 FT.		DEPTH OUT 2776		PRESSURE GRADIENT					
E. ADDITIONAL		1 STB. BODY O.D. 719 FT.		DEPTH IN 2276							
TOTALS		1 RMR. BODY O.D. 459 FT.		TOTAL FTG. 159		MUD & CHEMICALS ADDED					
(TIME SUMMARY OFFICE USE ONLY)		1 SUBS O.D. 483 FT.		TOTAL HR. RUN 11		TYPE AMT. TYPE AMT.					
DAY WORK		1 BIT OR C.B. FT.		COND. OF BIT							
HRS. W/DP		1 KARS 614 FT.		REAMER NO.							
HRS. WO/DP		1 KELLY DOWN 11.26 FT.		REAMER TYPE							
HRS. STANDBY		1 TOTAL 29.35 FT.		DRILLER							
TOTAL DAY WORK		WT. OF STRING 87000 LBS.									
WIRE LINE RECORD		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		FORMATION (SHOW CORE RECOVERY)	
REEL NO.		25 STANDS D.P. 235922 FT.		BIT NO. 7		TIME 4.00 6.00 10		FROM TO		ROTARY RPM WT. ON BIT 1000# PUMP PRESS PUMP NO. PUMP NO. METHOD RUN	
NO. OF LINES		1 SINGLES D.P. FT.		SIZE 7 7 7		WEIGHT 84 84 84		2935 3040		65 40 350 52 69	
FEET SLIPPED		1 D.C. 59216		MFG. HW		VISC.-SEC 28 28 28					
FEET CUT OFF		1 I.D. O.D. 1035 FT.		TYPE R67K		W.L.-C.C.					
PRESENT LENGTH		1 D.C. 2763 FT.		NOZZLE NO. 3		FLTR. CK.					
TON M. OR TRIPS SINCE LAST CUT		1 I.D. O.D. 2763 FT.		SER. NO. FP037		SD. CONT. %					
CUMULATIVE TON M. OR TRIPS		1 STB. BODY O.D. 615 FT.		DEPTH OUT 2776		PRESSURE GRADIENT					
NO. OF DAYS FROM SPUD		1 STB. BODY O.D. 719 FT.		DEPTH IN 2276							
CUMULATIVE ROTATING HRS.		1 RMR. BODY O.D. 459 FT.		TOTAL FTG. 182		MUD & CHEMICALS ADDED					
		1 SUBS O.D. 483 FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.					
		1 BIT OR C.B. FT.		COND. OF BIT							
		1 KARS 614 FT.		REAMER NO.							
		1 KELLY DOWN 2177 FT.		REAMER TYPE							
		1 TOTAL 3040 FT.		DRILLER							
		WT. OF STRING 87000 LBS.									

DAILY DRILLING REPORT

REPORT NO.

15

DATE JUNE 30/66

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE														
ATLANTIC RICHFIELD		Atlantic AREA LITTLE CHICAGO		N32				N.W.T.																
CONTRACTOR		RIG NO.	DRILL PIPE	TOOL JOINT	O.D.	PUMPS		LAST CASING TUBING OR LINER		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS							
S & T DRILLING CO. LTD.		J.E.	NO. SIZE	TYPE THD.		NO.	MANUFACTURER	TYPE	STROKE LENGTH															
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER				1. NAT		K380		14								PRIVATE TIGHT HOLE						
						2.																		
						3.																		
TIME DISTRIBUTION-HOURS		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR-EL-P COM'D-G
RIG UP & TEAR DOWN		STANDS D.P. 1792.28 FT.		BIT NO. 6		TIME 2 4 6		FROM 2404 TO 2500		D								15	10	200	2	51		
DRILLING ACTUAL 1794 7/4 6		SINGLES D.P. 3130 FT.		SIZE 7/8		WEIGHT 84 84 84		VISC.-SEC 38 28 28																
REAMING		D.C. 59216		MFG. HW		VISC.-SEC 38 28 28		W.L.-C.C.																
CONDITIONING MUD & CIRCULATING		I.D. O.D. 1035 FT.		TYPE RG7X1		FLTR. CK.																		
TRIPS		D.C.		NO. 0		PH 10																		
LUBRICATE RIG 24 24		I.D. O.D. 2763 FT.		NOZZLE SIZE 0		SER. NO. FW244		SD. CONT. %																
DEVIATION SURVEY		STB. BODY O.D. 615 FT.		DEPTH OUT		PRESSURE GRADIENT																		
TEST B.O.P.		STB. BODY O.D. 719 FT.		DEPTH IN 2345																				
CUT OFF DRILLING LINE		RMR. BODY O.D. 457 FT.		TOTAL FTG.		MUD & CHEMICALS ADDED																		
REPAIR RIG		SUBS O.D. 483 FT.		TYPE AMT. TYPE AMT.																				
CORING		BIT OR C.B. FT.		TOTAL HR. RUN 13 1/4																				
WIRE LINE LOGGING		JARS 614 FT.		COND. OF BIT																				
RUNNING CASING & CEMENTING		KELLY DOWN 1732 FT.		REAMER NO.																				
WAITING ON CEMENT		TOTAL 25000 FT.		REAMER TYPE																				
DRILL STEM TEST		WT. OF STRING 2 LBS.		DRILLER																				
O/HER		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR-EL-P COM'D-G
FISHING		STANDS D.P. FT.		BIT NO. 6		TIME 2 4 6		FROM 2500 TO 2615		D														
COMPLETION WORK		SINGLES D.P. FT.		SIZE 7/8		WEIGHT 84 84 84		VISC.-SEC 38 28 28																
A. PERFORATING		D.C. 51216		MFG. HW		VISC.-SEC 38 28 28		W.L.-C.C.																
B. TUBING TRIPS		I.D. O.D. 1035 FT.		TYPE RG7X1		FLTR. CK.																		
C. SWABBING		D.C.		NO. 0		PH 10																		
D. TESTING		I.D. O.D. 2763 FT.		NOZZLE SIZE 0		SER. NO. FW244		SD. CONT. %																
E. ADDITIONAL		STB. BODY O.D. 615 FT.		DEPTH OUT		PRESSURE GRADIENT																		
TOTALS 8 8 8		STB. BODY O.D. 719 FT.		DEPTH IN 2345		TOTAL FTG.		MUD & CHEMICALS ADDED																
TIME SUMMARY (OFFICE USE ONLY)		RMR. BODY O.D. 457 FT.		TYPE AMT. TYPE AMT.																				
DAY WORK		SUBS O.D. 483 FT.		TOTAL HR. RUN																				
HRS. W/DP		BIT OR C.B. FT.		COND. OF BIT																				
HRS. WO/DP		JARS 614 FT.		REAMER NO.																				
HRS. STANDBY		KELLY DOWN 2883 FT.		REAMER TYPE																				
		TOTAL 2615 FT.		DRILLER																				
		WT. OF STRING 84000 LBS.																						
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR-EL-P COM'D-G
		STANDS D.P. 207630 FT.		BIT NO. 6		TIME 6 8 10		FROM 2615 TO 2745		D														
		SINGLES D.P. FT.		SIZE 7/8		WEIGHT 84 84 84		VISC.-SEC 38 28 28																
		D.C. 59216		MFG. HW		VISC.-SEC 38 28 28		W.L.-C.C.																
		I.D. O.D. 1035 FT.		TYPE RG7X1		FLTR. CK.																		
		D.C.		NO. 0		PH 10																		
		I.D. O.D. 2763 FT.		NOZZLE SIZE 0		SER. NO. FW244		SD. CONT. %																
		STB. BODY O.D. 615 FT.		DEPTH OUT		PRESSURE GRADIENT																		
		STB. BODY O.D. 719 FT.		DEPTH IN 2345		TOTAL FTG.		MUD & CHEMICALS ADDED																
		RMR. BODY O.D. 457 FT.		TYPE AMT. TYPE AMT.																				
		SUBS O.D. 483 FT.		TOTAL HR. RUN 29																				
		BIT OR C.B. FT.		COND. OF BIT																				
		JARS 614 FT.		REAMER NO.																				
		KELLY DOWN 2745 FT.		REAMER TYPE																				
		TOTAL 2745 FT.		DRILLER																				
		WT. OF STRING 84000 LBS.																						
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR-EL-P COM'D-G
		STANDS D.P. 207630 FT.		BIT NO. 6		TIME 6 8 10		FROM 2745 TO 2815		D														
		SINGLES D.P. FT.		SIZE 7/8		WEIGHT 84 84 84		VISC.-SEC 38 28 28																
		D.C. 59216		MFG. HW		VISC.-SEC 38 28 28		W.L.-C.C.																
		I.D. O.D. 1035 FT.		TYPE RG7X1		FLTR. CK.																		
		D.C.		NO. 0		PH 10																		
		I.D. O.D. 2763 FT.		NOZZLE SIZE 0		SER. NO. FW244		SD. CONT. %																
		STB. BODY O.D. 615 FT.		DEPTH OUT		PRESSURE GRADIENT																		
		STB. BODY O.D. 719 FT.		DEPTH IN 2345		TOTAL FTG.		MUD & CHEMICALS ADDED																
		RMR. BODY O.D. 457 FT.		TYPE AMT. TYPE AMT.																				
		SUBS O.D. 483 FT.		TOTAL HR. RUN 29																				
		BIT OR C.B. FT.		COND. OF BIT																				
		JARS 614 FT.		REAMER NO.																				
		KELLY DOWN 2745 FT.		REAMER TYPE																				
		TOTAL 2745 FT.		DRILLER																				
		WT. OF STRING 84000 LBS.																						
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR-EL-P COM'D-G
		STANDS D.P. 207630 FT.		BIT NO. 6		TIME 6 8 10		FROM 2815 TO 2915		D														
		SINGLES D.P. FT.		SIZE 7/8		WEIGHT 84 84 84		VISC.-SEC 38 28 28																
		D.C. 59216		MFG. HW		VISC.-SEC 38 28 28		W.L.-C.C.																
		I.D. O.D. 1035 FT.		TYPE RG7X1		FLTR. CK.																		
		D.C.		NO. 0		PH 10																		
		I.D. O.D. 2763 FT.		NOZZLE SIZE 0		SER. NO. FW244		SD. CONT. %																
		STB. BODY O.D. 615 FT.		DEPTH OUT		PRESSURE GRADIENT																		
		STB. BODY O.D. 719 FT.		DEPTH IN 2345		TOTAL FTG.		MUD & CHEMICALS ADDED																
		RMR. BODY O.D. 457 FT.		TYPE AMT. TYPE AMT.																				
		SUBS O.D. 483 FT.		TOTAL HR. RUN 29																				
		BIT OR C.B. FT.		COND. OF BIT																				
		JARS 614 FT.		REAMER NO.																				
		KELLY DOWN 2745 FT.		REAMER TYPE																				
		TOTAL 2745 FT.		DRILLER																				
		WT. OF STRING 84000 LBS.																						
		NO. DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR-EL-P COM'D-G
		STANDS D.P. 207630 FT.		BIT NO. 6		TIME 6 8 10		FROM 2915 TO 3015		D														
		SINGLES D.P. FT.		SIZE 7/8		WEIGHT 84 84 84		VISC.-SEC 38 28 28																
		D.C. 59216		MFG. HW		VISC.-SEC 38 28 28		W.L.-C.C.																
		I.D. O.D. 1035 FT.		TYPE RG7X1		FLTR. CK.																		
		D.C.		NO. 0		PH 10																		
		I.D. O.D. 2763 FT.		NOZZLE SIZE 0		SER. NO. FW244		SD. CONT. %																
		STB. BODY O.D. 615 FT.		DEPTH OUT		PRESSURE GRADIENT																		
		STB. BODY O.D. 719 FT.		DEPTH IN 2345		TOTAL FTG.		MUD & CHEMICALS ADDED																
		RMR. BODY O.D. 457 FT.		TYPE AMT. TYPE AMT.																				
		SUBS O.D. 483 FT.		TOTAL HR. RUN 29																				
		BIT OR C.B. FT.		COND. OF BIT		</																		

DATE JUN 29/66

[illegible]

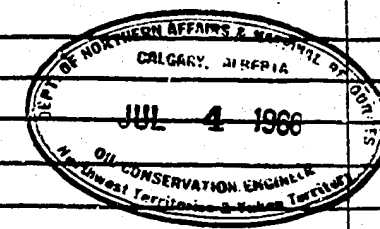
DATE JUNE 28/66

OPERATOR ATLANTIC RICHFIELD						LEASE <i>Atlantic</i> ARCO LITTLE CHICAGO						WELL NO. N3C		FIELD OR DIST.				COUNTY				STATE			
CONTRACTOR S & T DRILLING CO. LTD.						RIG NO. I.E	DRILL PIPE STRING NO. SIZE		TOOL JOINT O.D. TYPE THD.		PUMPS NO. MANUFACTURER TYPE STROKE LENGTH				LAST CASING TUBING OR LINER		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS TIGHT HOLE	
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>J Davidson</i>						SIGNATURE OF CONTRACTOR'S TOOL PUSHER																		PRIVATE	
TIME DISTRIBUTION—HOURS						MORN		DAY		EVE															
RIG UP & TEAR DOWN																									
DRILLING ACTUAL						<i>1 7 1/2</i>																			
REAMING						<i>1 1/2</i>																			
CONDITIONING MUD & CIRCULATING																									
TRIPS						<i>2 3/4</i>																			
LUBRICATE RIG						<i>4</i>																			
DEVIATION SURVEY																									
TEST B.O.P.																									
CUT OFF DRILLING LINE																									
REPAIR RIG						<i>1 1/2</i>																			
CORE CORING						<i>1</i>																			
WIRE LINE LOGGING																									
RUNNING CASING & CEMENTING																									
WAITING ON CEMENT																									
DRILL STEM TEST																									
OTHER						<i>1 1/2</i>																			
FISHING																									
COMPLETION WORK																									
A. PERFORATING																									
B. TUBING TRIPS																									
C. SWABBING																									
D. TESTING																									
E. ADDITIONAL																									
TOTALS						<i>8 8 8</i>																			
TIME SUMMARY (OFFICE USE ONLY)																									
DAY WORK																									
HRS. W/D																									
HRS. WO/D																									
HRS. STANDBY																									
TOTAL DAY WORK						<i>8 8 8</i>																			
WIRE LINE RECORD																									
SEEL NO.																									
NO. OF LINES						SIZE																			
FEET SLIPPED																									
FEET CUT OFF																									
PRESENT LENGTH																									
TON MI. OR TRIPS SINCE LAST CUT																									
CUMULATIVE TON MI. OR TRIPS																									
NO. OF DAYS FROM SPUD																									
CUMULATIVE ROTATING HRS.																									
NO.						DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR-D RM-R CORE-C		CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE S.P.M.		PUMP NO. LINER SIZE S.P.M.	METHOD RUN SOL-S PAR-P COM'D-C
STANDS D.P.						<i>12 1790 FT.</i>		BIT NO. <i>5</i>		TIME		FROM <i>1920</i> TO <i>1934</i>					<i>Bear Rock Recovered 60'</i>		<i>70</i>	<i>30</i>	<i>350</i>	<i>5 1/2 64</i>			
SINGLES D.P.						<i>3169 FT.</i>		SIZE <i>7 7/8</i>		WEIGHT															
D.C.						<i>592' 16"</i>		MFG. <i>SEC</i>		VISC.-SEC															
I.D. O.D.						<i>1035 FT.</i>		TYPE <i>H8-J</i>		W.L.-C.C.															
D.C.								NOZZLE		FLTR. CK.															
I.D. O.D.						<i>2763 FT.</i>		SER. NO. <i>791443</i>		SD. CONT. %															
STB. BODY O.D.						<i>483 FT.</i>		DEPTH OUT		PRESSURE GRADIENT															
STB. BODY O.D.						<i>615 FT.</i>		DEPTH IN <i>1920</i>																	
RMR. BODY O.D.						<i>719 FT.</i>		TOTAL FTG.		MUD & CHEMICALS ADDED															
SUBS O.D.						<i>189 FT.</i>		TOTAL HR. RUN		TYPE AMT. TYPE AMT.															
BIT OR C.B.						<i>FT.</i>		COND. OF BIT																	
JARS						<i>614 FT.</i>		REAMER NO.																	
KELLY DOWN						<i>1540 FT.</i>		REAMER TYPE																	
TOTAL						<i>1934 FT.</i>		DRILLER <i>Nelson</i>																	
WT. OF STRING						<i>7600 LBS.</i>																			
NO.						DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR-D RM-R CORE-C		CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. LINER SIZE S.P.M.		PUMP NO. LINER SIZE S.P.M.	METHOD RUN SOL-S PAR-P COM'D-C
STANDS D.P.						<i>1328.84 FT.</i>		BIT NO. <i>5</i>		TIME <i>10 12 200</i>		FROM <i>1934</i> TO <i>2066</i>					<i>D</i>		<i>63</i>	<i>38</i>	<i>325</i>	<i>5 1/2 64</i>			
SINGLES D.P.						<i>63.14 FT.</i>		SIZE <i>7 7/</i>																	

DAILY DRILLING REPORT										REPORT NO. 12 DATE JUNE 27/66									
OPERATOR ATLANTIC RICHFIELD										LEASE Atlantic RICHFIELD LITTLE CHICAGO									
CONTRACTOR S & T DRILLING CO. LTD.										RIG NO. 1.E									
SIGNATURE OF OPERATOR'S REPRESENTATIVE J. Davidson										SIGNATURE OF CONTRACTOR'S TOOL PUSHER H. Schaefer									
DRILL PIPE STRING NO. 1 SIZE 2 1/2 TYPE THD. 1. NO. 2. 3. MANUFACTURER NAT TYPE K380 STROKE LENGTH 14										PUMPS NO. 1. 2. 3. MAKE 24" J. WT. & GR. 20 FEET 623 RKB. TO CSG. HD. 12.30 SET AT 606									
LAST CASING TUBING OR LINER 7 1/2										SIZE 24" J. MAKE 24" J. WT. & GR. 20 FEET 623 RKB. TO CSG. HD. 12.30 SET AT 606									
TIME DISTRIBUTION-HOURS										MORNING TOUR									
RIG UP & TEAR DOWN										DRILLING ACTUAL 14 7/2									
REAMING										CONDITIONING MUD & CIRCULATING									
TRIPS										LUBRICATE RIG									
DEVIATION SURVEY										TEST B.O.P.									
CUT OFF DRILLING LINE										REPAIR RIG									
CORING										WIRE LINE LOGGING									
RUNNING CASING & CEMENTING										WAITING ON CEMENT									
DRILL STEM TEST										OTHER									
FISHING										COMPLETION WORK									
A. PERFORATING										B. TUBING TRIPS									
C. SKABBING										D. TESTING									
E. ADDITIONAL										TOTALS									
TIME SUMMARY (OFFICE USE ONLY)										DAY WORK 8 8 8									
HRS. W/DP										HRS. WO/DP									
HRS. STANDBY										TOTAL DAY WORK 8 8 8									
WIRE LINE RECORD										REEL NO.									
NO. OF LINES										SIZE									
FEET SLIPPED										FEET CUT OFF									
PRESENT LENGTH										TON MI. OR TRIPS SINCE LAST CUT									
CUMULATIVE TON MI. OR TRIPS										NO. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.										TOTAL 1920									
NO. OF DAYS										SINCE LAST LOST TIME ACCIDENT									
DRILLING ASSEMBLY AT END OF TOUR										BIT RECORD									
STANDS D.P. 1134.11 FT.										BIT NO. 3									
SINGLES D.P. 31.24 FT.										SIZE 7 3/8									
D.C. 542.16 FT.										MFG. HW CRUST									
I.D. O.D. 542.16 FT.										TYPE R67X5 DIAMOND									
D.C. 1860 FT.										NOZZLE NO. 3									
STB. BODY O.D. 1860 FT.										SIZE 0.47									
STB. BODY O.D. 1860 FT.										SER. NO. DP 824									
STB. BODY O.D. 1860 FT.										DEPTH OUT 1860									
STB. BODY O.D. 1860 FT.										DEPTH IN 833									
SUBS O.D. 268 FT.										TOTAL FTG. 952									
BIT OR C.B. 64.73 FT.										TOTAL HR. RUN 39 1/2									
KELLY DOWN 2883 FT.										COND. OF BIT 442									
TOTAL 1861 FT.										REAMER NO. LIME 250									
WT. OF STRING 74000 LBS.										REAMER TYPE									
DRILLER C. Parker										MUD RECORD									
TIME 4:00 6:00 8:00										WEIGHT 8.4 8.4 8.4									
VISC.-SEC 28 28 28										W.L.-C.C.									
FLTR. CK										PH									
SD. CONT. %										PRESSURE GRADIENT									
MUD & CHEMICALS ADDED										TYPE AMT. TYPE AMT.									
FOOTAGE										FORMATION (SHOW CORE RECOVERY)									
FROM TO										ROTARY RPM									
1860 1920										15 14									
C 1										FULL RECOVERY 60'									
Tight dolomite										DEVIATION RECORD									
DEPTH DEV. DIRECTION										DEPTH DEV. DIRECTION									
4 1/2 1200 8										CUT CORE NO-1									
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS										CUT CORE NO-1									
MORNING TOUR										P.M.									
CREW SOC. SEC. NO. NAME HRS.										CREW SOC. SEC. NO. NAME HRS.									
DRILLER V.B. GALENZA 12										DRILLER A. PARCHENI 12									
DRKMAN M. MACKENZIE 12										DRKMAN D. DOYLE 12									
MTRMAN H. FORTU 12										MTRMAN M. SALSALLER 12									
FIREMAN										FIREMAN									
FLRMAN E.D. BEATCH 12										FLRMAN T. BERG 12									
FLRMAN F. HALLAN 12										FLRMAN S. SCHMIDT 12									
FLRMAN L. FEHR 12										FLRMAN G. NIGHTINGALE 12									
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT										NO. OF DAYS SINCE LAST LOST TIME ACCIDENT									
DAY TOUR										EVENING TOUR									
CREW SOC. SEC. NO. NAME HRS.										CREW SOC. SEC. NO. NAME HRS.									
DRILLER										DRILLER									
DRKMAN										DRKMAN									
MTRMAN										MTRMAN									
FIREMAN										FIREMAN									
FLRMAN										FLRMAN									
FLRMAN										FLRMAN									
FLRMAN										FLRMAN									
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT										NO. OF DAYS SINCE LAST LOST TIME ACCIDENT									

DRILLING CREW PAYROLL DATA

DATE JUNE 27/66			
WELL NAME & NO. HRCO LITTLE CHICAGO 14 32			
COMPANY ATLANTIC RICHFIELD			
TOOL PUSHER RIG NO. 1.E			
MORNING TOUR P.M. A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		V.B. GALENZA	12
DRKMAN		M. MACKENZIE	12
MTRMAN		H. FORTU	12
FIREMAN			
FLRMAN		E.D. BEATCH	12
FLRMAN		F. HALLAN	12
FLRMAN		L. FEHR	12
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT			
DAY TOUR A.M. P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		A. PARCHENI	12
DRKMAN		D. DOYLE	12
MTRMAN		M. SALSALLER	12
FIREMAN			
FLRMAN		T. BERG	12
FLRMAN		S. SCHMIDT	12
FLRMAN		G. NIGHTINGALE	12
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT			
EVENING TOUR P.M. P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER			
DRKMAN			
MTRMAN			
FIREMAN			
FLRMAN			
FLRMAN			
FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT			



DATE June 26/66

[illegible]

TIGHT HOLE PRIVATE

DRILLING-COMPLETION-WORKOVER LOG

UNIT OR LEASE ATLANTIC LITTLE CHICAGO WELL NUMBER N-32 DATE 6/25/66
FIELD EXPLORATORY DISTRICT N.W.T.
COUNTY OR PARISH _____ PROVINCE OR STATE N.W.T.
CONTRACTOR S & T DRILLING RIG 1E

I 970-1020. D.S.T.H.I. Interval 820-970'
Initial Hyd 391" , 3 min Pre Flow
I.S.I. 341" , 30 min
I. Flow 83" , F. Flow 329" , 60 minutes
F.S.I. 344" , 60 minutes
F. Hydrostatic 389" , Recovered 880' of salt
water, slightly sulfurous. C.I. 6000 P.P.H.
Good initial puff with steady air blow for 30 min
then decreasing to very light at completion of
flow period.

Had small gas flare when making connection
while mist drilling prior to testing.

II 1020'-1173' Mist drilling 7 7/8" hole.
III 1173'-1240' Drilling 7 7/8" hole.

Samples had appearance of a fine sand (1181)
at 920' ft. Changed over to water drilling
in an attempt to improve samples. No difference
At 1220' button bit was pulled and an RMC
tooth bit was run in. Drilling was resumed
with water. Samples were still a fine
grained limestone. At 1240' when samples
had not improved mist drilling was again
used. When water drilling cutting would
drop through shale shaker screen making
it difficult to catch any samples.

No fill is encountered on bottom after
connections or after tripping.

Injecting 1000 cu. ft. 1 min air, 2 gal soap
10 lbs. lime 10 bbls water / hour
Hole making 10 bbls / hour fluid @ 5200 PPM-O

TIME DISTRIBUTION - HOURS			
	MORN	DAY	EVE
RIG UP AND TEAR DOWN			
DRILLING NORMAL			
DIRECTIONAL DRILLING			
REAMING			
TRIPS TO CHANGE BIT			
DRILLING WITH PARTIAL RETURNS			
COMBATING LOST CIRCULATION			
CONDITIONING MUD AND CIRCULATING			
FISHING			
DEVIATION SURVEY			
LUBRICATE RIG			
CUT OFF DRILLING LINE			
REPAIR RIG			
TEST CASING OR B.Q.P.			
C SIDE WALL			
O CONVENTIONAL			
I DIAMOND			
G WIRE LINE			
DRILL STEM TEST OPEN HOLE			
WIRE LINE LOGGING OPEN HOLE			
PLUGGING BACK			
RUNNING CASING AND CEMENTING			
WAITING ON CEMENT			
LOGGING CASE, HOLE			
PERFORATING			
WIRE LINE FORMATION TEST CASED HOLE			
DRILL STEM TEST CASED HOLE			
TESTING			
SWABBING			
ACIDIZING			
FRACTURING			
TUBING TRIPS			
OTHER			
TOTALS			
TIME SUMMARY			
DAY WORK			
HOURS W/DP			
HOURS WO/DP			
HOURS STANDBY			
TOTAL DAY WORK			

JOINTS	FEET	WEIGHT	GRADE	THREAD	CLASS	SIZE O.D. CASING
						SHOE
						SET JOINT
						COLLAR
						JOINTS PIPE
						TOTAL
						RKB TO
						DEPTH SET

SIGNED J. M. Davidson

DATE JUNE 25/66

OPERATOR		DATE		REPORT NO.		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																							
S & T DRILLING CO. LTD.		15		Atlantic		ARCO		1,111		CHICAGO		N.W.T.		STATE																							
CONTRACTOR		RIG NO.		DRILL PIPE STRING		TOOL JOINT		O.D.		PUMPS		LAST CASING TUBING OR LINER		SIZE		MAKE		WT. & GR.		NO. JOINTS		FEET		RKB. TO CSG. HD.		SET AT		TIGHT HOLE		REMARKS							
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		NO.		MANUFACTURER		TYPE		STROKE LENGTH		NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.					
J. Davidson				1		NAT		K380		14		1		1		1		1		1		1		1		1		1		1							
TIME DISTRIBUTION-HOURS		MORN		DAY		EVE		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M. R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
RIG UP & TEAR DOWN		3 1/2		7 1/2		5		1		STANDS D.P.		24817 FT.		BIT NO.		3		TIME		970		1020															
DRILLING ACTUAL		3 1/2		7 1/2		5		1		SINGLES D.P.		FT.		SIZE		7 1/8		WEIGHT																			
REAMING								1		D.C.		57216		MFG.		HW		VISC.-SEC																			
CONDITIONING MUD & CIRCULATING								1		I.D. O.D.		1035 FT.		TYPE		RC 7X1		W.L.-C.C.																			
TRIPS		3 1/2		7 1/2		5		1		D.C.		2763 FT.		NOZZLE		NO.		FLTR. CK.																			
LUBRICATE RIG								1		STB. BODY O.D.		189 FT.		SER. NO.		DP 829		SD. CONT. %																			
DEVIATION SURVEY								1		STB. BODY O.D.		615 FT.		DEPTH OUT				PRESSURE GRADIENT																			
TEST B.O.P.								1		RMR. BODY O.D.		719 FT.		DEPTH IN		833																					
CUT OFF DRILLING LINE								1		SUBS O.D.		483 FT.		TOTAL FTG.		180		MUD & CHEMICALS ADDED																			
REPAIR RIG								1		BIT OR C.B.		FT.		TOTAL HR. RUN		82		AFROX 200		10 QTS																	
CORING								1		KELLY DOWN		2100 FT.		COND. OF BIT		LIME		50#																			
WIRE LINE LOGGING								1		TOTAL		1020 FT.		REAMER NO.				DRILLER		B. Halverson																	
RUNNING CASING & CEMENTING								1		WT. OF STRING		70.000 LBS.		REAMER TYPE																							
WAITING ON CEMENT								1		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M. R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
DRILL STEM TEST		1 1/2		7 1/2		5		1		STANDS D.P.		473.32 FT.		BIT NO.		5		TIME		1020		1173		0		6,000 P.P.M. CL		62		32		200					
OTHER								1		SINGLES D.P.		3162 FT.		SIZE		7 1/8		WEIGHT																			
FISHING								1		D.C.		57216		MFG.		HW		VISC.-SEC																			
A. PERFORATING								1		I.D. O.D.		1035 FT.		TYPE		RC 7X1		W.L.-C.C.																			
B. TUBING TRIPS								1		D.C.		2763 FT.		NOZZLE		NO.		FLTR. CK.</																			

DATE *June 22/66*

OPERATOR		DATE		REPORT NO.		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																					
CONTRACTOR		RIG NO.		DRILL PIPE STRING		TOOL JOINT		PUMPS		LAST CASING TUBING OR LINER		SIZE		MAKE		WT. & GR.		NO. JOINTS		FEET		RKE. TO C/G. HD.		SET AT		REMARKS									
S & J DRILLING CO. LTD.		1 E		NO. SIZE		O.D. TYPE THD.		NO. MANUFACTURER TYPE STROKE LENGTH				8 3/4		NEW												TIGHT HOLE									
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER						1. 2. 3.																		PRIVATE									
TIME DISTRIBUTION - HOURS		MORN		DAY		EVE		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000 #		PUMP PRESS		PUMP NO. LINER SIZE S.P.M.		PUMP NO. LINER SIZE S.P.M.		METHOD RUN SGL. S PAR. EL. COM'D. C	
RIG UP & TEAR DOWN																																			
DRILLING ACTUAL																																			
REAMING																																			
CONDITIONING MUD & CIRCULATING																																			
TRIPS																																			
LUBRICATE RIG																																			
DEVIATION SURVEY																																			
TEST B.O.P.																																			
CUT OFF DRILLING LINE																																			
REPAIR RIG																																			
CORING																																			
WIRE LINE LOGGING																																			
RUNNING CASING & CEMENTING																																			
WAITING ON CEMENT		3 8 8																																	
DRILL STEM TEST																																			
OTHER																																			
FISHING																																			
COMPLETION WORK																																			
A. PERFORATING																																			
B. TUBING TRIPS																																			
C. SWABBING																																			
D. TESTING																																			
E. ADDITIONAL																																			
TOTALS																																			
TIME SUMMARY (OFFICE USE ONLY)																																			

PRIVATE

TIGHT HOLE

DRILLING-COMPLETION-WORKOVER LOG

UNIT OR LEASE ATLANTIC LITTLE CHICAGO WELL NUMBER N-32 DATE 6/21/66FIELD EXPLORATORY DISTRICT N.W.T.COUNTY OR PARISH _____ PROVINCE OR STATE N.W.T.CONTRACTOR S+T DRILLING RIG 1EI 542-610' Drilling 11" holeII 610-615' Drilling 11" hole. Lay down 8" D.C.III 615' Run 8 5/8" casing + cementingRun + cemented 20J+8 (623.56') 8 5/8" 28" N80 and 24" J55 Casing. Cemented with 330 SX C.H.F. 5 cement + 270 C.C.L. Casing landed at 606.16' K.B.M. J.C. @ 11.30 P.M. 6/21/66.No cement returns to surface.Centralizers @ 595' + 54.5'
Used Rector Guide Shoe + Baker Float Collar.
Baker Lock on Shoe, Float and first two lengths of Csg.Worked 3' of fill out to reach landing depth. Casing worked over 30' intervals while circulating, casing would take weight when lowering 30% of the time.Casing chained to table while displacing plug to float collar.Mixing water temperature + 62°FSlurry temperature + 68°FAir temperature + 55°FSlurry weight 14.0 - 14.5

TIME DISTRIBUTION-HOURS

	MORN	DAY	EVE
RIG UP AND TEAR DOWN			
DRILLING NORMAL	3 1/2	1/4	
DIRECTIONAL DRILLING			
REAMING			
TRIPS TO CHANGE BIT	3	4 1/2	
DRILLING WITH PARTIAL RETURNS			
COMBATIN' LOST CIRCULATION			
CONDITIONING MUD AND CIRCULATING	1/2	2	
FISHING			
DEVIATION SURVEY		1/4	
LUBRICATE RIG	1/4		
CUT OFF DRILLING LINE			
REPAIR RIG			
TEST CASING OR B.Q.P.			
CORING			
CONVENTIONAL			
DIAMOND			
WIRE LINE			
DRILL STEM TEST OPEN HOLE			
WIRE LINE LOGGING OPEN HOLE			
PLUGGING BACK			
RUNNING CASING AND CEMENTING			7 1/2
WAITING ON CEMENT			1/2
LOGGING Cased HOLE			
PERFORATING			
WIRE LINE TEST			
DRILL STEM Cased HOLE			
TESTING			
SWABBING			
ACIDIZING			
FRACTURING			
TUBING TRIPS			
OTHER		3 1/4	1
TOTALS	8	8	8

TIME SUMMARY

DAY WORK			
HOURS W/DP			
HOURS WO/DP			
HOURS STANDBY			
TOTAL DAY WORK	8	8	8

JOINTS	FEET		WEIGHT	GRADE	THREAD	CLASS	SIZE O.D. CASING	
13	465	31	28	N80	LT+C		8 5/8"	
5	155	48	24	J55	ST+C			
							SHOE Rector Guide	1 22
							SET JOINT 28" N80	32 40
							COLLAR Baker Float	1 55
							13 JOINTS PIPE	557 46
							TOTAL	592 64
							RKB TO C.H. Flange	13 52
							DEPTH SET	606 16

PRINTED IN U.S.A.

38-228

5/63

SIGNED

J. M. Davidson

DATE JUNE 21/66

OPERATOR		ATLANTIC RICHFIELD		LEASE		ARCO LITTLE CHICAGO N32		WELL NO.		N32		FIELD OR DIST.		NWT		COUNTY		STATE																			
CONTRACTOR		S & T DRILLING CO. LTD.		RIG NO.		1.E		DRILL PIPE STRING		TOOL JOINT		O.D.		PUMPS		SIZE		MAKE		WT. & GR.		NO. JOINTS		FEET		RKB. TO CSG. NO.		SET AT		TIGHT		REMARKS					
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		NO.		1		MANUFACTURER		NAT		TYPE		H380		STROKE LENGTH		14		LAST CASING TUBING OR LINER												PRIVATE					
TIME DISTRIBUTION - HOURS		MORN		DAY		EVE		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M. CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000 #		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
RIG UP & TEAR DOWN								STANDS D.P.		27105 FT.		BIT NO.		3A		TIME		FROM		TO																	
DRILLING ACTUAL		3 1/2		4				SINGLES D.P.		3170 FT.		SIZE		11		WEIGHT		54 2		610						69		12		300		2 1/2		68			
REAMING + ADJUST		3						D.C.		2 1/2 8 17979 FT.		MFG.		SEC		VISC. - SEC																					
CONDITIONING MUD & CIRCULATING		2 1/2		2				I.D. O.D.		FT.		TYPE		M4L		W.L. - C.C.																					
TRIPS				4 1/2				D.C.				NOZZLE		NO.		FLTR. CK.		DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
LUBRICATE RIG		2 1/2		4				STB. BODY O.D.		306 FT.		SER. NO.		82 7665		SD. CONT. %		TIME LOG		FROM		TO		ELAPSED TIME		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS											
DEVIATION SURVEY				4				STB. BODY O.D.		211 FT.		DEPTH OUT				PRESSURE GRADIENT		1000		1215		2 1/2		Rig 5811													
TEST B.O.P.								RMR. BODY O.D.		565 FT.		DEPTH IN		300				1215		145		1 1/2		DR19													
CUT OFF DRILLING LINE								SUBS O.D.		267 FT.		TOTAL FTG.						145		230		3/4		CHANGE TO 19 1/2 LETTING													
REPAIR RIG								BIT OR C.B.		80 FT.		TOTAL HR. RUN						230		430		2		DR19													
CORING								KELLY DOWN		11.19 FT.		COND. OF BIT						430		500		1/2		CIRC HOLE													
WIRE LINE LOGGING								TOTAL		610 FT.		REAMER NO.						500		800		3		HOIST PUMP OUT													
RUNNING CASING & CEMENTING								WT. OF STRING		45.000 LBS.		REAMER TYPE				DRILLER																					
WAITING ON CEMENT								NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D R.M. CORE - C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000 #		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
DRILL STEM TEST								STANDS D.P.		32105 FT.		BIT NO.		3A		TIME		FROM		TO																	
OTHER		3/4						SINGLES D.P.		3137 FT.		SIZE		11		WEIGHT		610		615								67		110		300		2 1/2 15			
FISHING								D.C.		2 1/2 8 17979 FT.		MFG.		SEC		VISC. - SEC																					
A. PERFORATING								I.D. O.D.		FT.		TYPE		M4L		W.L. - C.C.		DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
B. TUBING TRIPS								D.C.				NOZZLE		NO.		FLTR. CK.		TIME LOG		FROM		TO		ELAPSED TIME		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS											
C. SWABBING		</																																			

DATE JUNE 17/66

OPERATOR		DAILY DRILLING REPORT		LEASE		REPORT NO.		DATE		WELL NO.		FIELD OR DIST.		COUNTY		STATE													
ALANTIC RICHFIELD		Atlantic		HARD LITTLE CHICAGO		N 32																							
CONTRACTOR		RIG NO.		DRILL PIPE STRING		TOOL JOINT		O.D.		PUMPS		LAST CASING TUBING OR LINER		SIZE		MAKE		WT. & GR.		NO. JOINTS		FEET		RKB. TO CSG. HD.		SET AT		REMARKS	
S & T DRILLING CO. LTD.		1.E		NO. SIZE		TYPE THD.				NO. MANUFACTURER TYPE STROKE LENGTH																		RIGHT HOLE PRIVATE	
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL. PUSHER		1. NAT		K 380		14																					
J. Davidson																													
TIME DISTRIBUTION-HOURS		MORN		DAY		EVE																							
RIG UP & TEAR DOWN																													
DRILLING ACTUAL		5		1		2 1/2																							
REAMING		1 1/4		3 1/2																									
CONDITIONING MUD & CIRCULATING																													
TRIPS																													
LUBRICATE RIG																													
DEVIATION SURVEY																													
TEST B.O.P.																													
CUT OFF DRILLING LINE																													
REPAIR RIG																													
CORING																													
WIRE LINE LOGGING																													
RUNNING CASING & CEMENTING																													
WAITING ON CEMENT																													
DRILL STEM TEST																													
OTHER		1 1/4		6 1/2		2																							
FISHING																													
COMPLETION WORK		A. PERFORATING		B. TUBING TRIPS		C. SWABBING		D. TESTING		E. ADDITIONAL																			
TOTALS		8		8		8																							
TIME SUMMARY (OFFICE USE ONLY)																													
DAY WORK		8		8																									
HRS. W/DP																													
HRS. WO/DP																													
HRS. STANDBY																													
TOTAL DAY WORK		8		8																									
WIRE LINE RECORD																													
REEL NO.																													
NO. OF LINES																													

DAILY DRILLING REPORT

REPORT NO. 3

DATE JUNE 18/66

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																			
ATANTIC RCHFIELD		ARCO LITTLE CHICAGO N 32		H32																									
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	O.D.	PUMPS		LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSC. HD.	SET AT	TIGHT HOLE REMARKS													
S & T DRILLING CO. LTD.			NO. SIZE	TYPE THD.		NO.	MANUFACTURER	TYPE	STROKE LENGTH							PRIVATE													
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER			1.		MAT	K380	14																				
2.					3.																								
3.																													
TIME DISTRIBUTION-HOURS		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
RIG UP & TEAR DOWN		STANDS D.P.		FT.		BIT NO.		TIME		FROM		TO																	
DRILLING ACTUAL		SINGLES D.P.		FT.		SIZE		WEIGHT																					
REAMING		D.C.				MFG.		VISC.-SEC																					
CONDITIONING MUD & CIRCULATING		I.D. O.D.		FT.		TYPE		W.L.-C.C.																					
TRIPS		D.C.				NOZZLE		FLTR. CK.																					
LUBRICATE RIG		I.D. O.D.		FT.		NO. SIZE		PH																					
DEVIATION SURVEY		STB. BODY O.D.		FT.		SER. NO.		SD. CONT. %																					
TEST B.O.P.		STB. BODY O.D.		FT.		DEPTH OUT		PRESSURE GRADIENT																					
CUT OFF DRILLING LINE		RMR. BODY O.D.		FT.		DEPTH IN																							
REPAIR RIG		SUBS O.D.		FT.		TOTAL FTG.		MUD & CHEMICALS ADDED																					
CORING		PIT OR C.B.		FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.																					
WIRE LINE LOGGING		KELLY DOWN		FT.		COND. OF BIT																							
RUNNING CASING & CEMENTING		TOTAL		FT.		REAMER NO.		DRILLER																					
WAITING ON CEMENT		WT. OF STRING		LBS.		REAMER TYPE																							
DRILL STEM TEST		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
OTHER		STANDS D.P.		FT.		BIT NO.		TIME		FROM		TO																	
FISHING		SINGLES D.P.		FT.		SIZE		WEIGHT		205																			
A. PERFORATING		D.C.				MFG.		VISC.-SEC																					
B. TUBING TRIPS		I.D. O.D.		FT.		TYPE		W.L.-C.C.																					
C. SWABBING		D.C.				NOZZLE		FLTR. CK.																					
D. TESTING		I.D. O.D.		FT.		NO. SIZE		PH																					
E. ADDITIONAL		STB. BODY O.D.		FT.		SER. NO.		SD. CONT. %																					
TOTALS		STB. BODY O.D.		FT.		DEPTH OUT		PRESSURE GRADIENT																					
TIME SUMMARY (OFFICE USE ONLY)		RMR. BODY O.D.		FT.		DEPTH IN																							
DAY WORK		SUBS O.D.		FT.		TOTAL FTG.		MUD & CHEMICALS ADDED																					
HRS. W/DP		BIT OR C.B.		FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.																					
HRS. WO/DP		KELLY DOWN		FT.		COND. OF BIT																							
HRS. STANDBY		TOTAL		FT.		REAMER NO.		DRILLER																					
TOTAL DAY WORK		WT. OF STRING		LBS.		REAMER TYPE																							
WIRE LINE RECORD		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
REEL NO.		STANDS D.P.		FT.		BIT NO.		TIME		FROM		TO																	
NO. OF LINES		SINGLES D.P.		FT.		SIZE		WEIGHT		205																			
FEET SLIPPED		D.C.				MFG.		VISC.-SEC																					
FEET CUT OFF		I.D. O.D.		FT.		TYPE		W.L.-C.C.																					
PRESENT LENGTH		D.C.				NOZZLE		FLTR. CK.																					
TON M. OR TRIPS SINCE LAST CUT		I.D. O.D.		FT.		NO. SIZE		PH																					
CUMULATIVE TON M. OR TRIPS		STB. BODY O.D.		FT.		SER. NO.		SD. CONT. %																					
NO. OF DAYS FROM SPUD		STB. BODY O.D.		FT.		DEPTH OUT		PRESSURE GRADIENT																					
CUMULATIVE ROTATING HRS.		RMR. BODY O.D.		FT.		DEPTH IN																							
		SUBS O.D.		FT.		TOTAL FTG.		MUD & CHEMICALS ADDED																					
		BIT OR C.B.		FT.		TOTAL HR. RUN		TYPE AMT. TYPE AMT.																					
		KELLY DOWN		FT.		COND. OF BIT																							
		TOTAL		FT.		REAMER NO.		DRILLER																					
		WT. OF STRING		LBS.		REAMER TYPE																							

TIME LOG
FROM 1200 TO 800 ELAPSED TIME 800
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
PULLOUT WAIT ON GEL
Hauling gel with cat + Athey Wagon from stock pile at river.

TIME LOG
FROM 900 TO 400 ELAPSED TIME 9
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
WAIT ON GEL

TIME LOG
FROM 400 TO 1030 ELAPSED TIME 630
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
WAIT ON GEL
Mix Mud

DATE JUNE 17/66

[illegible]

DAILY DRILLING REPORT

REPORT NO. 1

DATE JUNE 16-66

OPERATOR		LEASE		WELL NO.		FIELD OR DIST.		COUNTY		STATE																					
Atlantic Richfield		Atlantic Richfield Little Chicago N-32		N-32																											
CONTRACTOR		RIG NO.	DRILL PIPE STRING	TOOL JOINT	O.D.	PUMPS		SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET	TIGHT HOLE																
S & T DRILLING CO. LTD.		1E																													
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER		NO.		MANUFACTURER		TYPE		STROKE LENGTH		LAST CASING TUBING OR LINER		PRIVATE																	
J. M. Davidson				1.		NAT		K 380		14"																					
				2.																											
				3.																											
TIME DISTRIBUTION-HOURS		NO.		DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD		FOOTAGE		DR. D RM. R CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000#		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN			
RIG UP & TEAR DOWN		MORN		DAY		EVE		STANDS D.P.		FT.		BIT NO.		TIME		WEIGHT		FROM		TO		0		53		0					
DRILLING ACTUAL		1 1/2		8				SINGLES D.P.		FT.		SIZE		MFG.		VISC.-SEC															
REAMING								D.C.		29.87		FT.		MFG.		VISC.-SEC															
CONDITIONING MUD & CIRCULATING								I.D. O.D.		29.87		FT.		MFG.		VISC.-SEC															
TRIPS								D.C.				FT.		MFG.		VISC.-SEC															
LUBRICATE RIG								I.D. O.D.				FT.		MFG.		VISC.-SEC															
DEVIATION SURVEY								STB. BODY		O.D.		FT.		MFG.		VISC.-SEC															
TEST B.O.P.								STB. BODY		O.D.		FT.		MFG.		VISC.-SEC															
CUT OFF DRILLING LINE								RMR. BODY		O.D.		FT.		MFG.		VISC.-SEC															
REPAIR RIG								SUBS		O.D.		519		FT.		MFG.															
CORING								BIT OR C.B.		125		FT.		MFG.		VISC.-SEC															
WIRE LINE LOGGING								KELLY DOWN		116.71		FT.		MFG.		VISC.-SEC															
RUNNING CASING & CEMENTING								TOTAL		53		FT.		MFG.		VISC.-SEC															
WAITING ON CEMENT								WT. OF STRING		22000		LBS.		MFG.		VISC.-SEC															
DRILL STEM TEST								REAMER NO.				FT.		MFG.		VISC.-SEC															
OTHER								REAMER TYPE				FT.		MFG.		VISC.-SEC															
FISHING								DRILLER				FT.		MFG.		VISC.-SEC															
COMPLETION WORK								A. PERFORATING				FT.		MFG.		VISC.-SEC															
A. PERFORATING								B. TUBING TRIPS				FT.		MFG.		VISC.-SEC															
B. TUBING TRIPS								C. SWABBING				FT.		MFG.		VISC.-SEC															
C. SWABBING								D. TESTING				FT.		MFG.		VISC.-SEC															
D. TESTING								E. ADDITIONAL				FT.		MFG.		VISC.-SEC															
E. ADDITIONAL								TOTALS				FT.		MFG.		VISC.-SEC															
TOTALS								TIME SUMMARY (OFFICE USE ONLY)				FT.		MFG.		VISC.-SEC															
DAY WORK						1 1/2		HRS. W/DP				FT.		MFG.		VISC.-SEC															
HRS. W/DP								HRS. WO/DP				FT.		MFG.		VISC.-SEC															
HRS. WO/DP								HRS. STANDBY				FT.		MFG.		VISC.-SEC															
HRS. STANDBY								TOTAL DAY WORK				FT.		MFG.		VISC.-SEC															
TOTAL DAY WORK						1 1/2		WIRE LINE RECORD				FT.		MFG.		VISC.-SEC															
WIRE LINE RECORD								REEL NO.				FT.		MFG.		VISC.-SEC															
REEL NO.								NO. OF LINES				FT.		MFG.		VISC.-SEC															
NO. OF LINES								SIZE				FT.		MFG.		VISC.-SEC															
SIZE								FEET SLIPPED				FT.		MFG.		VISC.-SEC															
FEET SLIPPED								FEET CUT OFF				FT.		MFG.		VISC.-SEC															
FEET CUT OFF								PRESENT LENGTH				FT.		MFG.		VISC.-SEC															
PRESENT LENGTH								TON MI. OR TRIPS SINCE LAST CUT				FT.		MFG.		VISC.-SEC															
TON MI. OR TRIPS SINCE LAST CUT								CUMULATIVE TON MI. OR TRIPS				FT.		MFG.		VISC.-SEC															
CUMULATIVE TON MI. OR TRIPS								NO. OF DAYS FROM SPUD				FT.		MFG.		VISC.-SEC															
NO. OF DAYS FROM SPUD								CUMULATIVE ROTATING HRS.				FT.		MFG.		VISC.-SEC															
CUMULATIVE ROTATING HRS.												FT.		MFG.		VISC.-SEC															

Atlantic Little Chicago N-32 Spudded (m) 2.30 PM, 6/16/66

Ground Elevation (Est.) 280'

Est. RKB - G-d. 12.20

Est. RKB 292.20