TRIAD BP ARCO HUME R.

0-62

Drilling Authority No. 383

Date Issued 14 November 1969

WELL NAME Triad BP ARCO OC Hume R. 0-62

FIELD

Area

LOCATION: Unit O Section 62 Grid 00-00, 124-00

Latitude 65-51-46 Longitude 129-12-04

U.W.L.R. 65.86278 — 129.20111

U.W.I. 300062660012900

Rig Release Date:

Status

Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
14/11/69	Application for a Drilling Authority.
	Well Completion Date.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
1/4/70	Application to Abandon a Well ~~or Suspend Drilling~~.
	Application to Alter Condition of a Well.
	Well History Supplement.
19/5/70	Well Completion Date.
	Work-over Report No.
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells – Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells – Vitter's Method.
	M.P.R. – Oil – Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale..... Small scale.....

IAND 52-90 (3-69)

Drilling Authority No. 383
Date Issued November 14, 1969

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

WELL COMPLETION DATA

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

DIV. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT OIL & MINERAL DIVISION
MAY 22 1970
CALGARY 21, ALBERTA
OIL CONSERVATION ENGINEER
Petroleum Exploration & Production Engineer

Well name and number TRIAD BP ARCO CC PINE R 0-62

Permit No. 3290 Lease No.

Atlantic Richfield & Columbian Carbon Co. (Permittee, Licensee, Lessee) Exploratory Licence No. 1325 and 1328 respectively

Triad Oil Co. Ltd. (Operator) Exploratory Licence No. 1264

Location: Unit O Section 62 Grid 66 00' N, 129° 00' W

Latitude 65° 51' 46" N Longitude 129° 12' 04" W

From Established Reference Marker

Universal Well Location Reference Lat. 65.86278° Long. 129.20111°

	DATE	DEPTH
Spudded	Feb.9/70	
Suspended		
Resumed Operations		
Finished Drilling	Mar.11/70	4600'
Deepened		
Complete (gas/oil)		
Abandoned	Mar.14/15/70	
Rig released	Mar. 15/70	

Pool(s)

Interval(s) open to production

Elevation: Gr. 272(est) K.B. 285(est)

Rig No. 1E

Drilling Contractor S&T Drilling(Western) Co.Ltd.

Contractor's Business Licence No. 564

CASING RECORD

	Casing Size (Inches)	Grade	Weight	Amount	Set at –	Sacks of Cement and Additives
1.	13-3/8		48#	3 joints	87.37'	175 sacks + 4% $CaCl_2$
2.	8-5/8	J-55	24#	15 joints	517.69'	365 sacks + 2% $CaCl_2$
3.						
4.						
5.						
6.						

GEOLOGICAL TOPS	ELEVATION Depths	ELEVATION Sub-Sea
Devonian	1652	-1367
Ramparts Reef	1652	-1367
Ramparts Pltfm.	2073	-1788
Hare Indian	2150	-1865
Evie	2744	-2459
Hume	2790	-2505
Headless/Funeral	2953	-2668
Bear Rock Equiv.	3106	-2821
Ronning	4020	-3735

CORE RECORD

From	To	Rec.	From	To	Rec.
1653	1707'	54'			
1753 (jammed)	1758'	5'			
1758	1812'	54'			

LOG RECORD

Run No.	Type of Log	From	To
1	Induction Electrical	518	4599
1	BHC Sonic Gamma Ray Caliper	518	4598

IAND 52-90 (2) (2-69)

CEMENTING RECORD (Plug, Squeeze, etc.)			
Date 1970	From	To	Remarks
Mar. 14	4300	4600	Plug #1 100 Sacks
Mar. 14	3000	3100	Plug #2 36 sacks + 2% $CaCl_2$ Felt @ 2990'
Mar. 14	1600	1700	Plug #3 50 sacks + 2% $CaCl_2$ Felt @ 1584'
Mar. 15	465	565'	Plug #4 75 sacks + 2% $CaCl_2$. Felt @ 455'

PERFORATING RECORD (Bullet, Jet)			
Date	From	To	Remarks
			NONE

SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks
NONE			

March 15 Surface plug with plate and identification marker installed.

DRILL STEM TESTS

No.	Date 1970	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.F.B.H.P.	I.H.P.	F.H.P.	REMARKS
1	Feb. 19	Ramparts	1630'	1707'	61	62	89	731	729	98	105	756	764	Tool skidding throughout test. WAB on preflow GTS on initial flow, remaining weak. Rec. 200' drilling mud.
2	Feb. 22	Ramparts	1700'	1812'	61	58	60	632	543	40	47	809	809	VWAB on preflow. VWAB on initial flowDead in 18 min. Tool skidding throughout. Rec. 10' drilling mud.
3	Feb. 26	Ramparts	1800'	2150'		M I S	R U N							
4	Feb. 27	Ramparts	1800'	2150'	60	56	58	617	366	68	74	912	878	VWAB dead after 6 min. Rec. 40' drilling mud
5.	Mar. 12	Bear Rock Eq	3100'	3140'	65	59	91	1387	1327	1172	1280	1570	1559	GAB decreasing slowly, dead after 55 min. rec. 1970' drilling mud & 490' sl.salty dr.mud
6	Mar. 13	Ronning	4390'	4600'	60	59	57	2000	1992	1292	1930	2143	2128	GAB decreasing slowly. Rec. 650' muddy sulphurous s.water & 3580' clean sulphurous s.water.

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
CAL 2-1884	Mud	1630	1707	DST #1	R = 3.29 @ 75°F
-	Mud	1700	1812	DST #2	R = 2.60 @ 75°F
	Mud	1800	2150	DST #4	R = 2.05 @ 75°F
CAL-2-1853	Mud	3100	3140	DST #5	R = 1.19 @ 75°F
	S.Water	4390	4600	DST #6	R_w= 0.06 @ 75
CNP 4-5011	Core	1653	1707	Core #1	

PRESENT STATUS OF WELL

Oil ..... (Interval.)

Gas ..... (Interval.)

Dry DRY AND ABANDONED

Susp. .....

Company TRIAD OIL CO. LTD.

Signed by D. D. Wright

Title Production Division Manager

Date May 19, 1970

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

File No.
Drilling Authority No. 383

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application to Abandon a Well [redacted]

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 Triad BP Area CC Name R 0-62

Location: Unit O Section 62 Grid 60° 00' N, 128° 00' W

Latitude 65° 51' 46" N Longitude 129° 12' 04" W

Unique Well Ident. [redacted] 300 0 62 66 00 129 000

Universal Well Location Reference Lat 65.86278 Long 129.20111

Permit No. 3290 Lease No. Acreage 52706

Atlantic Richfield Company & Colombian
(Permittee, Licensee, Lessee) Carbon Company

Date of commencement of proposed program March 14, 1970

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at
Gas at 1630-1707
Water at 4390-4600
Total Depth 4600'
Date of last operations March 15, 1970
Present condition of well Plugged and abandoned

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 13-3/8	48	3 Jts.	87.37'	175 sax + 2% CaCl2	None
2. 8-5/8"	24	528	517.69	365 +2% CaCl2	None
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	4600' to 4300'		100	No Seal
2	3360' to 3000'		36	Felt at 2990'
3	1700' to 1600'		50	Felt at 1584'
4	565' to 465		75	Felt at 455'

Cut off surface casing, cement plug in top of surface casing, 5 sax. Weld plate across top and install welded steel sign 4' above ground with well name. Cemented top of Mousehole and Rathole with 47 sax cement.

The following logs have been run Induction Electrical, BHC Sonic Gamma Caliper
Other operations proposed None

Operations to be carried out by S & T Drilling Contractor Licence No. 564
Address 5825 98 St., Edmonton, Alberta Address
Responsible Agent in field Ed Popovich

Dated at Calgary, this 25 Day of March 1970
Signed by T. A. Siebrecht
Title Drilling Superintendent Company Triad Oil Co. Ltd.
Operator's Exploratory Licence No. 1264

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

(For OIL AND MINERAL DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. B.H.J. Thoms on the 13th March 1970.

Dated 1st April, 1970

Oil Conservation Engineer

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

Project No.

File No.

Canada

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application for a Drilling Authority

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

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

Name and number of well TRIAD BP ARCO CC HUMP R 0-62

Location Unit 0 Section 62 Grid 66 00' N 129° 00' W

Latitude 65° 51' 46" N Longitude 129° 12' 04" W

Unique well Identifier 300 0 62 66 00 129 000

Universal Well Location Reference Lat. 65.86278 Long. 129.20111

Elevation Ground 272 (Est) K.B. 285 (Est) feet above sea level.

Well is expected to produce from Ramparts formation at a depth of about 1800 feet. Expected total final depth 4875 i.e. 600' below base of Bear Rock

Area assigned to well

(For Oil Conservation Engineer's use only)

Permit No. 3290 Lease No. - Acreage 52,306

Permittee, licensee, or lessee Atlantic Richfield Company & Columbian Carbon Company

Exploratory Licence No 1325 & 1328 respectively (under farmout to Triad)

Surface owned by Crown or Crown

(If allocated 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	New or Used	Estimated Depth	Basis of Control
1. 13 3/8	48	H 40	New	80'	to surface
2. 8 5/8	24	J 55	New	500'	to surface
3. 4 1/2	9.5	J 55	New	2300'	as approved by Oil Conservation Engineer
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment Ramparts 1800' to 2300'; Bear Rock 3300' to 4275'; Ronning 4275 to TD.

Control Equipment: One 10" series 900 Double Hydraulic Ram Preventer
One 10" series 900 Hydril GK

Well will be drilled with Rotary Rig No. IE by S&T Drilling (Western) Co. Ltd.
(Drilling Contractor or company)

5825 - 98 Street Edmonton, Alberta

Responsible agent of applicant:—Triad Oil Co. Ltd Contractor's Business Licence No. 564

At well Drilling Foreman At registered office V.A. Siebrasse

Address Norman Wells Address 535 - 7th Avenue S.W. Calgary, Alberta

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

Dated at Calgary, this day of November 19 69

Signed by [signature] Company Triad Oil Co. Ltd.

Title Landman Operator's Licence No. 1264

(For Oil and Mineral Division use only)

APPROVED

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

1. ~~The Company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.~~
2. ~~During well drilling and testing operations, every effort shall be made to ensure~~

Dated 14th November 19 69 [signature] Oil Conservation Engineer (over)

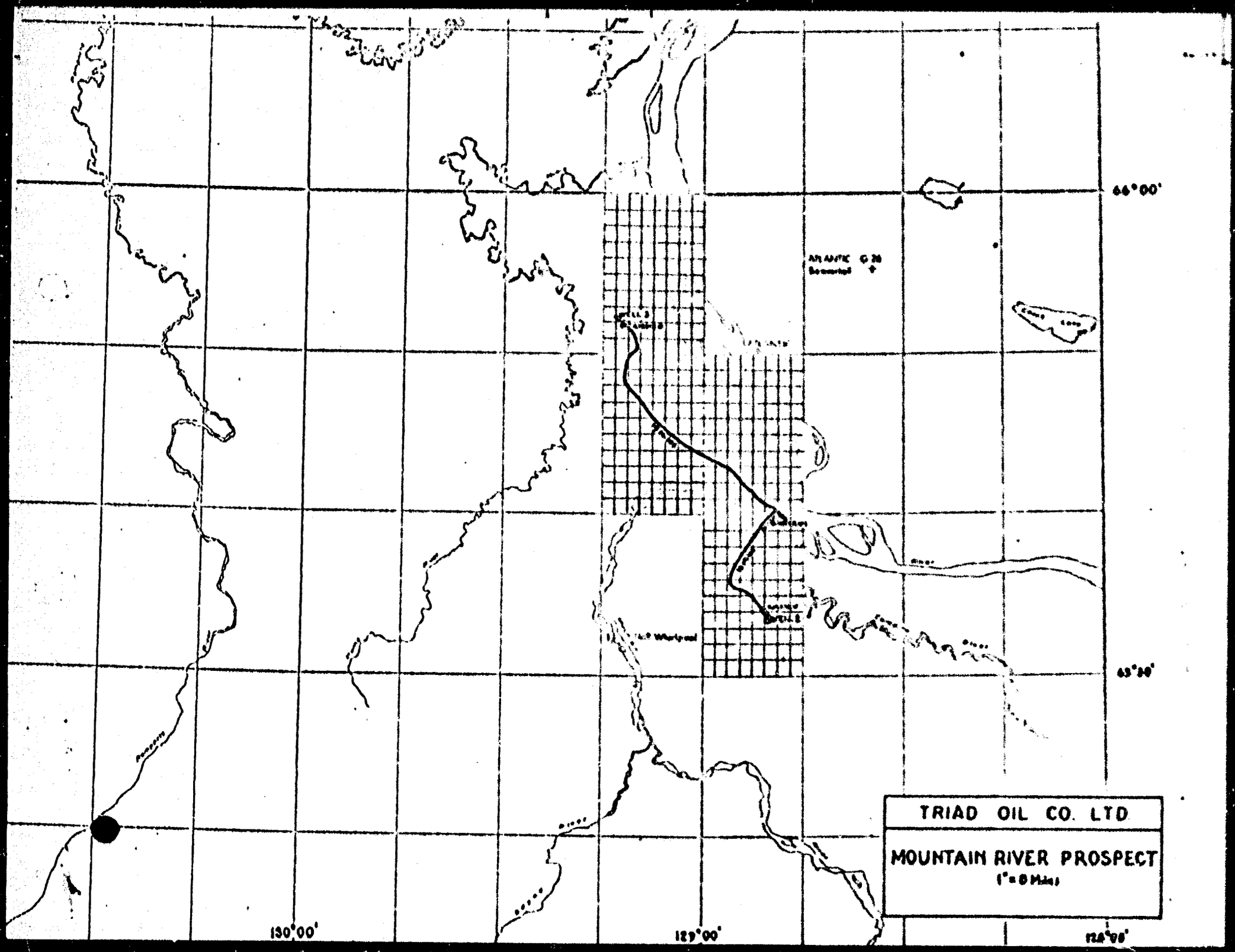
Forms to be submitted to Oil Conservation Engineer, Department of Indian Affairs and Northern Development, Calgary, Alberta.

IAND 52-90-1 (3-69)

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

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

R.H.J. Thomas, Oil Conservation Engineer


66°00'
65°30'
130°00'
129°00'
128°00'
TRIAD OIL CO. LTD
MOUNTAIN RIVER PROSPECT

WELL HISTORY REPORT

TRIAD BP ARCO CC HUME R 0-02

File No. .....
Drilling Authority No. .....383.....

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

OIL AND MINERAL DIVISION

WELL-SITE INSPECTION REPORT

FROM: Field Office or Area: NORMAN WELLS **Date:** 11th July 1971

TO: The Oil Conservation Engineer:

RE: TRIAD BP ARCO CC HUME R O-62

Location: 65.86278°N., 129.20111°W. **Status:** D&A 1970

This location was inspected by the undersigned on 11th July 1971

The location is in satisfactory/unsatisfactory condition. TD 4600'

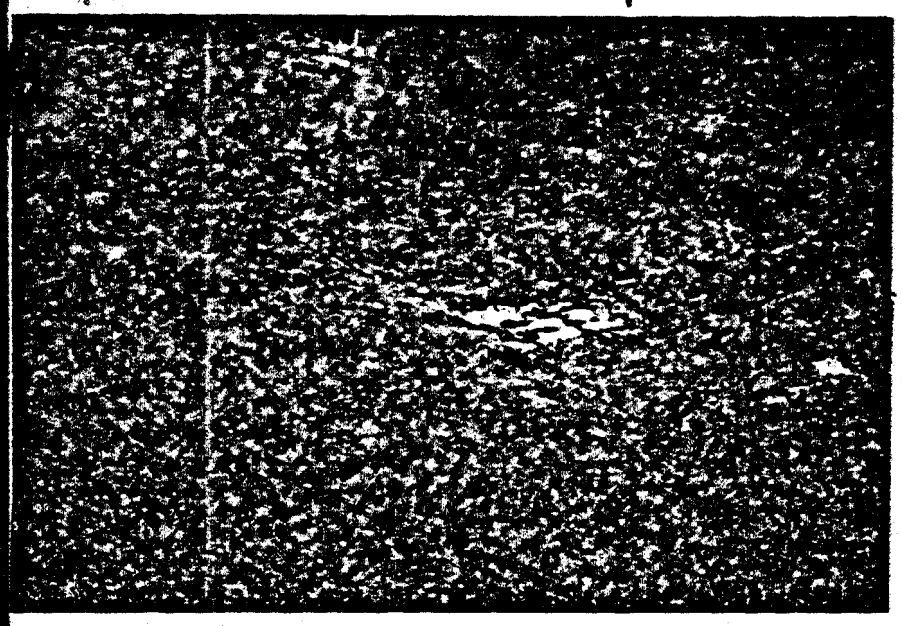
The following items require attention:

1. Remove boards from around cellar, clean out and backfill.
2. Pile and burn all wood or bury
3. Bury all plastic sheeting
4. Fill in rat hole
5. Paint identifier pipe and plate fluorescent orange.
6.

Other comments and recommendations: (Include Map, if necessary for clarity)

Good clean up

Rat hole caved in (See polaroid shot)



Inspected by M. D. Thomas

M. D. Thomas
District 2

Original to Oil Conservation Engineer, Dept of IA & ND, Duplicate to Field Office or Inspecting Engineer.
IAND 52-90-14 (9-69)

OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
AUG 10 1970
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

TRIAD BP ARCO CC HUME R 0-62

WELL HISTORY REPORT

D. D. Wright, P. Eng.
Production Division Manager
TRIAD OIL CO. LTD.

OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
AUG 10 1970
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

May 19, 1970

WELL HISTORY REPORT

TRIAD BP ARCO CC NUMER 0-62

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1. SUMMARY OF WELL DATA

(a)	Name:	Triad BP Arco CC HumeR 0-62
(b)	Permittee:	Atlantic Richfield Co. & Columbia Carbon Co. (under farmout to Triad Oil Co. Ltd.)
(c)	Operator:	Triad Oil Co. Ltd. 535 - Seventh Avenue S.W. Calgary 2, Alberta
(d)	Location:	
	Grid System	0-62-66-00-129-00
	Univ. Well Loc. Ref#	Lat. 65.86278° Long. 129.20111°
	Unique Well Identifier	300062660012900 0
(e)	Co-ordinates:	Lat. 65° 51' 46" N, Long 129° 12' 04" W
(f)	Permit:	No. 3290
(g)	Drilling Contractor:	S & T Drilling (Western) Co. Ltd., Rig 1E
(h)	Drilling Authority:	No. 383 issued 14th November 1969.
(i)	Classification:	New Field Wildcat
(j)	Elevations:	Ground 272(est.) K.B. 285 (est)
(k)	Date Spudded:	February 9, 1970
(l)	Date Drilling Finished:	March 11, 1970
(m)	Total Dpeth:	4500'
(n)	Well Status:	Dry and Abandoned
(o)	Date Rig Released:	March 15, 1970
(p)	Hole Sizes:	(i) 17-1/2" Surface to 87.37' KB (ii) 12-1/4" 87.37' to 522' KB (iii) 7-7/8" 522' to 4600'
(q)	Casing:	(i) Conductor - 13-3/8" @ 87.37' (ii) Surface - 8-5/8" @ 517.69' (iii) Production - None

II. GEOLOGICAL SUMMARY

(a) Summary of Formation Tops

K.B.: 285'

Formation	E. Log	Elevation
Quarternary	Not logged	+ 272'
Cretaceous	Not logged	+ 220'
Devonian	1652'	-1367'
Imperial	N Pr	-
Canol	N Pr	-
Ramparts Reef	1652'	-1367'
Ramparts Platform	2073'	-1788'
Hare Indian	2150'	-1865'
Evie	2744'	-2459'
Hume	2790'	-2505'
Headless/Funeral	2953'	-2668'
Bear Rock Equivalent	3106'	-2821'
Ronning	4020'	-3735'
TOTAL DEPTH	4600'	

(b) Summary of Cored Intervals:

Core No.	Interval	Formation	Description
1	1653-1707'	Ramparts	Recovered 54'. Fossiliferous biocalcarenite. See description.
2	1753-1758'	Ramparts	Recovered 5'. See description.
3	1758-1812'	Ramparts	Recovered 54'. See description.

(c) Cores Analyzed:

Core No.	Interval Analyzed	Weighted Average Porosity	Weighted Average Horizontal Permeability
1	1653-1707'	1.04%	0.03 md

(See pages 4 to 7 inclusive)

(d) Sample Description

Attached. See pages

(See pages 8 to 23 inclusive)

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 3)

CORE DESCRIPTION

Well TRIAD BP ARCO CC HUME RIVER O-62 Described by L. TER BERG Date MARCH 1970

Core No. 1 Interval 1653-1707' Rec. 54' Formation Ramparts

Coring Times As below

Intervals	Descriptions

Coring Times:

		Weight on Bit
1653-1660	18, 26, 32, 28, 31, 36, 31	5000-10,000
1660-1670	35, 35, 41, 48, 47, 42, 44, 48, 50, 35	10,000-12,000
1670-1680	30, 30, 30, 45, 36, 36, 32, 38, 38, 38	12,000
1680-1690	42, 44, 36, 35, 33, 57, 41, 39, 41, 39	12,000
1690-1700	38, 37, 36, 43, 40, 48, 41, 38, 38, 39	12,000
1700-1707	40, 45, 47, 47, 51, 59, 57	12,000

General Description:

Limestone: dark, bituminous, slightly argillaceous. Variable amounts of corals (Coenites, Thamnopora, Alveolites) and some Stachyodes and tabular stromatoporoids in a matrix of biocalcarenite which is partly micritic, partly re-crystallized and slightly dolomitized lime mud, partly sparitic, and partly silicified. Few brachiopods, abundant sponge spicules. Live oil staining was present in:1st partly re-crystallized slightly dolomitic lime mud matrix between crystals, 2nd in fine fractures, and 3rd scattered in the sparry calcite filling in the intra-organic pores.

It appears that the material has undergone strong solution (many fossils have stylolitic outlines) and re-cementation by sparry calcite and silica. As a result, the original permeability has been reduced to less than 0.1 md.

The lithology is that of an organic carbonate detrital bank where deposition of lime sand alternated with Coenites meadows and encrusting tabular corals and stroms. The scarcity of large fragments, of brachiopods, the absence of dip, and the seismic control suggest that the well has been drilled on a bank near the rim of a Ramparts reef.

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 3)

CORE DESCRIPTION

Continued

Well | Described by | Date

Core No. 1 | Interval | Rec. | Formation

Coring Times

Intervals	Descriptions
	Detailed Description:
1653-1656¼	Abundant Coenites in matrix of black, bituminous, slightly argillaceous, calcarenitic lime mud, which is partly re-crystallized to dolomitic micro-crystalline, and partly silicified in dark brown patches. The intra-organic pore space is partly filled with re-crystallized bituminous lime mud, and partly with clear calcite. Contacts between the fossils are often stylolitic.
1656¼-1656-3/4	Slightly bituminous, fossiliferous, calcarenite, cemented by sparry calcite and silica. Some re-crystallized lime mud.
1656-3/4 1662-3/4	Mixture of Coenites, and Coenites with stromatoporoid overgrowths, in black, bituminous calcarenitic, partly silicified, partly sparitic, partly re-crystallized lime mud. Some Stachyodes, some Thamnopora. Some crinoid-stem fragments are well rounded. Some thin encrusting stroms of more than 4" diameter.
1662-3/4 1665	Calcarenitic, dark bituminous lime mud, partly silicified. With thin tabular stroms associated with Aulopora. Small amounts of Coenites and Stachyodes.
1665-1680	Calcarenitic, dark, bituminous lime mud, with variable amounts of Coenites and Thamnopora, some of which have stromatoporoid overgrowths, and some tabular stroms. Some 2" thick intervals are silicified and brownish.
1680-1707	Dark, slightly argillaceous, bituminous bio-calcarenite with a matrix of re-crystallized lime mud, which is partly silicified.
	Scattered tabular stroms and encrusting Alveolites associated with Aulopora. These tabular forms often rest on a 2" thin zone of Coenites and Thamnopora, which rests on an often silicified bed of bio-calcarenite.
	In the lower half of this interval larger fragments of wavy but tabular Alveolites become more frequent.

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 3)

CORE DESCRIPTION

Well TRIAD BP ARCO CC HUME R. O-62 Described by L. TER BERG Date APRIL 1970

Core No. 2 Interval 1753 - 1758' Rec. 5' Formation Ramparts

Coring Times 1753 - 1758" 33, 33, 33, 79

Intervals	Descriptions
1753-1755	(2') Abundant Coenites in a matrix of brown variably argillaceous, fine grained biocalcarenitic lime mud matrix. Weak positive fluorescence.
1755-1756.5'	(1½') Dark brown, slightly biocalcarenitic, argillaceous lime mud with tabular Alveolites. Patchy fluorescence.
1756.5-1758'	(1½') Dark brown, biocalcarenitic, slightly argillaceous lime mud with few scattered tabulate Alveolites. Spotty fluorescence.

Note: It appears that the first two feet were noted on the geolograph as one foot.

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 3)

CORE DESCRIPTION

Well TRIAD BP ARCO HUME R. O-62 Described by L. TER BERG Date APRIL 1970

Core No. 3 Interval 1758-1812' Rec. 54' Formation Ramparts

Coring Times

Intervals	Descriptions

Coring Times:

		Weight on Bit
1758-1760	50, 35	7000-10,000
1760-1770	35, 39, 33, 30, 28, 30, 26, 27, 26, 23	10,000-11,000
1770-1780	30, 25, 30, 28, 26, 29, 27, 28, 36, 28	11,000
1780-1790	43, 29, 29, 31, 32, 31, 32, 34, 36, 35	11,000
1790-1800	35, 38, 32, 28, 29, 28, 24, 26, 23, 23	11,000
1800-1810	24, 23, 27, 28, 29, 30, 34, 35, 36, 35	11,000
1810-1812	35, 32	11,000

Description

1758-1783' Fossiliferous biocalcarenite with very finely recrystallized lime mud matrix, which is slightly porous and oil stained.
Fossils include fragments of tabulate Alveolites and stroms, fragments of massive Alveolites, abundant Coenites, Thamnopora, some Stachyodes, and rare Amphipora, crinoid fragments, and sponge spiculae. The tabulate stroms are sometimes interrupted by a layer of Aulopora.

1783-1792 Brown biocalcarenite with abundant thin crinoid ossicles with a partly very finely recrystallized lime mud matrix. Few larger fragments of Alveolites, stroms and Coenites.

1792-1812' Abundant thin encrusting tabulate stroms and Stachyodes in a brown matrix of biocalcarenitic lime mud. Many crinoid fragments, some Alveolites fragments. Many stylolitic contacts between fossils and through fossils. Here and there slightly porous and oil stained.

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 2)

SAMPLE DESCRIPTION

Well: TRIAD BP ARCO CC HUME RIVER 0-62

Date MARCH 1970 Logged by: L. TER BERG

These sample depths have/have not been lagged for drilling time.

Intervals	Descriptions
	Depths lagged for drilling time at 1 minute/100 feet
13	Quarternary.
13-65	Very coarse sand, consisting of well rounded quartz grains, well rounded black siliceous shale grains, and some feldspar, some chips of very fine grained quartz sand, some ironstone, some Inoceramus prisms, some calcite crystals, some brown chert.
65	Cretaceous.
65-295	Dark grey, very argillaceous, very fine grained sandstone, with scattered glauconite pellets. Some Inoceramus prisms.
295-305	The argillaceous matrix in the sandstone has changed into iron stone.
305-335	Some thin beds of cleaner, fine grained glauconitic sandstone, subangular. Some ironstone.
335-358	Very fine grained slightly glauconitic sandstone, interbedded with some sandstone but with ironstone matrix. Increasingly more dark grey shale. Part of the shale has become ironstone. Scattered glauconite pellets in the shale.
358-635	Dark grey shale. Very glauconitic shale bed at 418, 555, 588. Brown ironstone beds at 475, 598 and down to 635.
635-665	Dark grey, very fine grained, very argillaceous sandstone with scattered glauconite pellets.
665-675	Dark grey shale.
675-710	Dark grey, very fine grained, very argillaceous sandstone, increasingly interbedded with dark grey shale, going downward.

0.254 (Rev.)

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 2)

SAMPLE DESCRIPTION

Well: TRIAD BP ARCO CC HUME RIVER 0-62

Date MARCH 1970 Logged by: L. TER BERG

These sample depths have/have not been lagged for drilling time.

Intervals	Descriptions
710-785	Dark grey shale. Some ironstone. Arenaceous glauconitic shale bed at 770.
785-840	Dark grey, very fine grained, very argillaceous sandstone, with some ironstone, interbedded with dark grey shale. The sandstone grades downward to silty shale and is than less than 50%.
840-1025	Dark grey shale. Ironstone 920-945, 995-1025.
1025-1045	Interbeds of very fine grained, very argillaceous sandstone. Part with ironstone matrix.
1045-1325	Dark grey shale. Ironstone at 1220, 1260, 1310-1325. Thin bed of fine crystalline limestone at 1240'.
1325-1345	Some dark grey, very fine grained, very argillaceous, sandstone with scattered glauconite. Some pyritized wood. Some ironstone.
1345-1365	Dark grey shale.
1365-1395	Dark grey, very fine grained, very argillaceous, sandstone, dark grey shale.
1395-1425	Dark grey, very fine grained, sandstone and scattered glauconite. Part with ironstone matrix.
1425-1453	Light colored f ine grained, slightly to medium glauconitic calcareous sandstone. Some of it has frosted coarse quartz grains, blown in to it. Some has good porosity. Brown shale slivers.
1453-1465	Dark grey shale.
1465-1475	Dark grey silty shale.

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Date MARCH 1970 Logged by: L. TER BERG

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Intervals	Descriptions
1475-1485	Dark grey, very fine grained, very argillaceous sandstone matrix with coal, and coal. Coarse, well rounded quartz sand apparently blown in. Some angular quartz. Looks like a sand fill of a channel in peat filled swamp.
1485-1495	Coal.
1495-1505	Poorly sorted carbonaceous, calcareous sandstone. Grain size ranges from fine to very coarse, and there are some chert pebbles. The grains are a mixture of frosted well rounded, subangular, and angular (quartz overgrowth). Porosity low due to calcareous cement.
1505-1555	Dark grey shale. Ironstone at 1530-1555'.
1555-1580	Dark grey, very fine grained, very argillaceous sandstone, interbedded with dark grey shale.
1580-1615	Dark grey shale, with some ironstone. Piece of pyritized wood.
1615-1620	Fine grained, carbonaceous sandstone, containing fair amount of medium grain. Sorting poor. Rounding varies.
1620-1635	Very fine grained, argillaceous sandstone. Lime cemented. Finely carbonaceous.
1635-1645	Dark grey, very fine grained, very argillaceous sandstone. Interbedded with dark grey shale.
1645	Devonian. Ramparts formation.
1645-1653	Some chert. Cream-white calcarenitic, coenites bearing limestone, with brown flecks. Variably recrystallized. Some very fine intercrystalline porosity, some with live oil staining.

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 2)

SAMPLE DESCRIPTION

Well: TRIAD BP ARCO CC HUME RIVER 0-62

Date APRIL 1970 Logged by: L. TER BERG

These sample depths have/have not been lagged for drilling time.

Intervals	Descriptions
1653-1707	Core #1: Cut 54', recovered 54'.
1707-1710	Fossiliferous bioclastic calcarenite, with a matrix of microcrystalline limestone, locally recrystallized to very fine crystalline, and then oil stained. Bitumen present in intercrystalline and intra-organic pores. Fossils include Thamnopora, Coenites, tabulate Alveolites, and Stachyodes.
1710-1720	Lithology as above, but very rich in bitumen and bituminous, very finely calcarenitic shale. This black to brownish black material occurs as patches, slivers, coatings around Thamnopora, and as partial infilling of intra-organic pores, of which the remainder was plugged before with sparry calcite.
1720-1740	Lithology partly as above, but with abundant Coenites. Remainder is brown stained, fine grained biocalcarenite with a microcrystalline to fine crystalline matrix, and in some chips lime mud.
1740-1753	Fine grained brown biocalcarenite as above, with abundant massive Alveolites in basal few feet.
1753-1758	Core #2: Cut 5'. Jammed. Recovered 5'.
1758-1812	Core #3: Cut 54; recovered 54'.
1812-1835	Massive stroms in calcarenite with slightly brownish micro to very fine crystalline matrix. Pores in stroms plugged with calcite. Spotty oil staining.
1835-1875	White massive stroms. Pores in stroms, plugged with calcite. Reef frame.
1875-1895	Poorly sorted, fossiliferous, biocalcarenite with sparry calcite matrix. Some pyrite concentrations in 1890' sample.
1895-1905	Light brown, porcellaneous limestone; sparry calcite cemented

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 2)

SAMPLE DESCRIPTION

Well: TRIAD BP ARCO CC HUME RIVER 0-62

Date APRIL 1970 Logged by: L. TER BERG

These sample depths have/have not been logged for drilling time.

Intervals	Descriptions
	pelletoidal calcarenite in cryptocrystalline lime mud matrix. Some birds eyes.
1905-1915	Light brown porcellaneous limestone; sparry calcite cemented pelletoidal and bioclastic calcarenite in cryptocrystalline matrix, earthy in spots.
1915-1925	Massive, white, stromatoporoids and Alveolites. Pores plugged with calcite. Reef frame.
1925-1935	Fair amount of finely recrystallized biocalcarenitic lime mud, brown with dead oil staining. Brecciated with stylolitic coats around fragments. Earthy patches.
1935-1955	Fair amount of Alveolites and Coenites in bituminous brown biocalcarenite with very finely recrystallized matrix. Slight oil staining. Some crinoids, some ostracods.
1955-2010	Plus brown porcellaneous biocalcarenite in cryptocrystalline matrix. Grading downward into pelletoid lime mud, with bituminous blobs and stylolites. Some birds' eyes. Some oil staining.
2010-2073	Brown and black bituminous and slightly argillaceous biocalcarenitic lime mud with some smooth ostracods. Some breaks of calcareous shale. Interbeds of brown microcrystalline lime mud.
2073-2150	Grey-brown, very fine grained calcarenite with lime mud matrix and white sparitic Alveolites bearing calcarenite.
	TOP HARE INDIAN 2150'
2150-2180	Poor samples due to dummy trip.

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 2)

SAMPLE DESCRIPTION

Well:

Date Logged by:

These sample depths have/have not been logged for drilling time.

Intervals	Descriptions
2180 - 90	Limestone as above, 60%. Shale, light to medium gray, very calcareous and slightly silty, micromicaceous, trace pyrite 40%. Sample pick Top of Hare Indian formation 2186.
2190 - 2220	Shale as above 100%.
2220 - 30	Sample as above, trace crinoids.
2230 - 2250	Sample as above, no crinoids, trace of pyrites.
2250 - 2270	Sample as above, no pyrites.
2270 - 2280	Sample as above, floating quartzite sand grains.
2280 - 2290	Shale as above, 100% - no sand grains as above.
2290 - 2300	Shale as above, 100%. Limestone, laminae, very light gray micrite, - trace.
2300 - 2310	Shale as above, 90%. Limestone, laminae as above, 10%
2310 - 2320	Shale as above, 100% Limestone laminae as above - trace.
2320 - 2360	Shale as above 100%.
2360 - 70	Shale as above, becoming slightly silty in part.
2370 - 90	Sample as above, trace of pyrite.
2390 - 2410	Sample as above, no pyrite.
2410 - 2420	Sample as above, shale becoming non-silty.
2420 - 2440	Sample as above, trace ostracods.
2440 - 2490	Sample as above, no recognizable fossils.
2490 - 2510	Shale, medium gray, blocky, very abundant micromicaceous flakes, fairly calcareous.

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 2)

SAMPLE DESCRIPTION

Well:

Date Logged by:

These sample depths have/have not been lagged for drilling time.

Intervals	Descriptions
2510 - 20	Sample as above, trace of black bitumenous shale possibly cavings.
2520 - 2590	Sample as above but no black shale as above.
2590 - 2630	Shale, medium gray, very abundant micromicaceous flecks, blocky to flaky, fairly calcareous.
2630 - 2730	Sample as above, some shale grading to dark gray.
2730 - 40	Shale as above, 50% Shale, very dark gray to black, blocky, slightly calcareous, micromicaceous carbonaceous, 50%.
2740 - 2780	Shale black as above, becoming flaky, trace of pyrite.
2780 - 90	Limestone, medium gray micrite, very argillaceous, earthy and mottled, occassionally recrystallized to sparry calcite, no fossils can be identified. Sample pick of Hume formation 2780.
2790 - 2800	Limestone as above, trace pyrite. 100%. Log pick of Top of Hume formation 2790.
2800 - 2810	Sample as above
2810 - 20	Sample as above, ostracods and fragments of unidentifiable fossils, trace of pyrite,
2820 - 30	Sample as above, no recognizable ostracods.
2830 - 2850	Sample as above, trace ostracods.
2850 - 60	Sample as above, limestone becoming very dark gray-brown in parts and slightly bituminous.
2860 - 70	Sample as above, trace of shale laminae.
2870 - 80	Limestone as above, 80%. Shale very dark gray-brown, very calcareous, fossiliferous in parts, 20%.

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 2)

SAMPLE DESCRIPTION

Well:

Date Logged by:

These sample depths have/have not been lagged for drilling time.

Intervals	Descriptions
2880 - 90	Sample as above.
2890 - 2910	Limestone as above, fairly fossiliferous, mostly unidentifiable fragments, some ostracods.
2910 - 20	Limestone, medium to dark gray - brown pelmicrite, slightly argillaceous, some earthy, trace pyrite.
2920 - 50	Limestone, light to medium gray, some dark brown-gray as above, pelmicrite, some chalky and some earthy appearance.
2950 - 60	Sample as above, some ostracods and unidentifiable fossil fragments, trace of pyrites. Log pick for the Top of Headless Funeral 2954
2960 - 80	Limestone as above, 50%. Shale, medium gray - green, blocky, very slightly calcareous, micromicaceous, 50%.
2980 - 90	Limestone, medium gray - brown, micrite, sponge spicules and brachiopods fragments.
2990 - 3000	Limestone as above, 60% Shale, medium gray - green, slightly waxy, slightly calcareous, 40%.
3000 - 3010	Shale as above, 60% Limestone as above 40%
3010 - 20	Limestone, very dark gray, very argillaceous, micrite, some ostracods, 50%. Shale as above, some becoming dark gray, 50%.
3020 - 30	Sample as above
3030 - 40	Sample as above, trace bitumen, some very poor floorescence in limestone.
3040 - 3070	Shale as above, 80% Limestone as above, fossiliferous, 20%.
3070 - 80	Limestone, medium to dark brown, very argillaceous, earthy appearance, abundant ostracods, occassionally pelletoidal, trace of pyrites. Sample pick of Top of Bear Rock formation 3075.

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 2)

SAMPLE DESCRIPTION

Well:

Date Logged by:

These sample depths have/have not been lagged for drilling time.

Intervals	Descriptions
3080 - 90	Limestone, light to medium gray, very fine crystalline sparite, slightly argillaceous, some pelletoidal and fossiliferous, trace pyrite.
3090 - 3100	Sample as above,
3100 - 3110	Limestone as above, some ostracods and pyrite. Shale, medium green-gray, very calcareous, and micromicaceous, trace. Log Pick of Bear Rock Formation 3106.
3110 - 20	Limestone, medium to dark gray - brown, pelsparite, occassional chips with fair vuggy porosity, oil staining, and oil bleeding under floorescope underlying fair vuggy porosity.
3120 - 30	Limestone, medium brown micrite, occassionally pelletoidal, some birdseye, tight.
3130 - 40	Limestone, medium to dark brown micrite, some pelletoidal, occassional scattered vugs very poor effective porosity, some appears oil stained but no cutting indicated under floorescope, some vugs lined with calcite crystals, some lined with black bitumen.
3140 - 50	Limestone as above, [illegible], some chips with good vuggy porosity.
3150 - 60	Limestone, medium brown micrite, some birdseye, occassionally pelletoidal, tight.
3160 - 70	Limestone, medium to dark gray - brown, pelsparite, mottled, slightly argillaceous, abundant ostracods, 80%. Shale, black, very calcareous, trace ostracods, 20%.
3170 - 90	Sample as above.
3190 - 3200	Sample as above, occassionally very dark gray shale laminae.
3200 - 3210	Limestone as above, 50% Shale, very dark gray, very calcareous, blocky, 50%.
3210 - 20	Limestone, medium gray micrite, occassionally slightly pelletoidal. 100%.

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 2)

SAMPLE DESCRIPTION

Well:

Date Logged by:

These sample depths have/have not been lagged for drilling time.

Intervals	Descriptions
3220 - 30	Sample as above, some birdseye.
3230 - 40	Sample as above, some micro fractures, bitumen infilled.
3240 - 50	Sample as above, no micro fractures as above.
3250 - 60	Limestone, dark gray - brown, pelsparite, fairly argillaceous, trace of ostracods and some pyrite.
3260 - 70	Limestone, as above, some poor pinpoint and very fine vuggy porosity, mostly bitumen lined, some poor floorescence and very poor cutting.
3270 - 3300	Limestone, medium brown micrite, occassionally slightly pelletoidal, birdseye tight.
3300 - 3310	Limestone, medium to dark brown - gray, mottled pelsparite, slightly argillaceous, trace ostracods, trace pyrite and trace of green shale partings.
3310 - 20	Sample as above, occassional chips with fair vuggy and inter-crystalline porosity, some bitumen filled, and some clean.
3320 - 30	Sample as above, becoming tight.
3330 - 40	Limestone, medium brown micrite, some ostracods, some micro fractures, bitumen infilled, tight.
3340 - 50	Limestone, medium to dark brown pelsparite, slightly argillaceous, trace pyrite, occassional ostracods, tight, some bitumen surrounding occassional pelletoidal fragments.
3350 - 60	Sample as above.
3360 - 70	Sample as above, poor to fair pinpoint porosity, bitumen lined very poor to non-existing floorescence.
3370 - 80	Limestone, medium brown micrite, occassional birdseye, occassional microstylolites and micro fractures, infilled with bitumen, tight.

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WEEKLY FIELD REPORT (SEC. 2)

SAMPLE DESCRIPTION

Well:

Date Logged by:

These sample depths have/have not been lagged for drilling time.

Intervals	Descriptions
3380 - 3400	Sample as above, occassional pinpoint vugs but no apparent porosity.
3400 - 3410	Limestone as above, some pelletoidal, no vugs as above.
3410 - 20	Sample as above, occassional black shale breaks.
3420 - 40	Limestone, very dark gray - brown, micrite, slightly argillaceous.
3440 - 70	Limestone, medium brown micrite, occassionally bitumenous fracture infilling.
3470 - 80	Limestone, medium to dark brown - gray, mottled, slightly argillaceous, micrite, trace ostracods.
3480 - 90	Limestone as above, becoming pelsparite trace ostracods.
3490 - 3500	Very poor sample
3500- 3510	Limestone, medium greenish-gray micrite, fairly argillaceous, slightly dolomitic, occassionally pelletoidal, mostly limy mud matrix with occassional dolomite eyes, abundant scattered pyrite.
3510 - 20	Limestone, very light gray micrite, birdseye, occassional fractures, calcite infilled.
3520 - 30	Sample as above, some chips with very good vuggy porosity - only one or two porous chips evident in sample.
3530 - 40	Limestone, medium to dark gray, pelsparite, slightly argillaceous, trace pyrite, occassionally scattered pinpoint vugs no porosity apparent some fractured and bitumen infilled.
3540 - 50	Limestone, very light gray - brown, pelsparite, occassionally chalky on fractured surfaces, no pinpoint vugs as above.
3550 - 60	Sample as above, some chips very slightly dolomitized in centre of pellets, some scattered pinpoint vugs but no porosity.
3560 - 70	Sample as above.
3570 - 80	Limestone, medium brown pelmicrite, occassional calcite inclusions.
3580 - 90	Limestone, medium brown micrite, occassionally pelletoidal, trace pyrite.

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 2)

SAMPLE DESCRIPTION

Well:

Date Logged by:

These sample depths have/have not been lagged for drilling time.

Intervals	Descriptions
3590 - 3600	Limestone, very light gray, chalky, micrite, occassional micro-fractures with bitumen infilled.
3600 - 3610	Limestone, medium brown micrite, birdseyes, occassionally pelletoidal, trace pyrite.
3610 - 20	Limestone, very light gray micrite, chalky,
3620 - 30	Sample as above.
3630 - 40	Limestone, medium to dark gray pelmicrite, slightly argillaceous, trace ostracods.
3640 - 50	Limestone as above, 90%. Shale green-gray waxy, slightly calcareous, 10%.
3650 - 60	Limestone, medium brown micrite, occassional birdseye, trace green shale break as above.
3660 - 70	Sample as above.
3670 - 80	Sample as above, trace pyrite, trace green shale as above.
3680 - 90	Dolomite, very dark gray - black, very fine crystalline sparite, very argillaceous.
3690 - 3700	Dolomite, medium to dark gray - brown, medium crystalline sparite, occassionally slightly argillaceous.
3700 - 3710	Dolomite, medium brown, coarse crystalline dolomite, occassional scattered vugs but no porosity.
3710 - 3750	Sample as above, calcite veining.
3750 - 60	Dolomite, medium brown, very fine to fine crystalline sparite.
3760 - 70	Dolomite, medium brown, coarse crystalline sparite, slightly argillaceous.
3770 - 80	Sample as above, some intercrystalline porosity very poor.

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SAMPLE DESCRIPTION

Well:

Date Logged by:

These sample depths have/have not been lagged for drilling time.

Intervals	Descriptions
3780 - 90	Dolomite, medium brown, fine to medium crystalline sparite, occassional scattered vugs but no effective porosity.
3790 - 3800	Sample as above, abundant calcite veining.
3800 - 3810	Sample as above, some dolomite becoming micritic.
3810 - 20	Dolomite, medium gray - brown, very fine crystalline sparite, slightly argillaceous occassional calcite veining.
3820' - 30	Dolomite, becoming dark gray - brown, very fine to fine crystalline sparite, slightly argillaceous, abundant calcite vein infill, scattered vugs but no effective porosity.
3830 - 40	Dolomite, dark gray - brown, medium to coarse crystalline sparite, some with poor to fair vuggy and intercrystalline porosity, no staining, calcite fracture infilling as above.
3840 - 50	Sample as above, some possible staining but no flourescence or cutting.
3850 - 60	Dolomite as above, becoming tight.
3860 - 70	Sample as above, scattered vuggy porosity - very poor.
3870 - 80	Dolomite, light brown micrite, with abundant calcite veining.
3880 - 90	Dolomite, light to medium brown, very fine crystalline sparite, occassional pinpoint and vug porosity - very poor, no staining but occassional bitumen.
3890 - 3900	Sample as above but becoming tight.
3900 - 3910	Dolomite, medium brown, medium crystalline sparite, good vuggy and intercrystalline porosity, with small amount of flourescence but no cutting.
3910 - 20	Sample as above, abundant calcite veining, porosity as above.
3920 - 30	Dolomite, medium brown, very fine crystalline sparite, porosity becoming fair to poor.
3930 - 40	Sample as above, porosity becoming poor and scattered.

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SAMPLE DESCRIPTION

Well:

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These sample depths have/have not been lagged for drilling time.

Intervals	Descriptions
3940 - 50	Dolomite as above, becoming tight.
3950 - 60	Dolomite, medium to dark gray, coarse crystalline sparite, slightly argillacsous, tight.
3960 - 70	Dolomite, medium brown, very fine crystalline sparite, some poor scattered vuggy porosity, no fluorescence, no oil cutting, abundant calcite veining.
3970 - 80	Sample as above.
3980 - 90	Dolomite, medium gray - brown, micrite, fairly argillaceous, stylolites, and calcite veining.
3990 - 4000	Dolomite as above, 40%. Shale, gray - green - brown, slightly waxy, trace pyrite. 60%.
4000 - 4010	Dolomite, very light gray - brown, coarse crystalline sparite, abundant pyrite inclusions. Sample - Top Running 4000
4010 - 20	Sample as above.
4020 - 30	Sample as above, trace pyrite. Log Top Pick Too Running 4026
4030 - 4060	Sample as above.
4060 - 4070	Sample as above, occassional scattered vugs but no effective porosity.
4070 - 80	Dolomite as above, 50%. Dolomite, medium to dark gray, salt & pepper (sand-like granules) medium-coarse crystalline sparite, slightly argillaceous, and slightly siliceous, 50%.
4080 - 90	Dolomite, light gray - brown, micrite, occassional brecciated and re-cemented with medium crystalline sparite, abundant trace pyrite.
4090 - 4110	Dolomite, medium gray, medium crystalline sparite, abundant calcite veining, trace pyrite.

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WEEKLY FIELD REPORT (SEC. 2)

SAMPLE DESCRIPTION

Well:

Date Logged by:

These sample depths have/have not been lagged for drilling time.

Intervals	Descriptions
4110 - 20	Dolomite, very light gray - white, coarse crystalline sparite.
4120 - 30	Dolomite,as above, becoming very light brown.
4130 - 40	Dolomite as above, 80%. Shale, greenish-gray, slightly waxy, 20%.
4140 - 50	Dolomite, medium to dark brown, fine crystalline sparite, abundant calcite veining.
4150 - 70	Dolomite, very light brown- gray, very fine crystalline sparite.
4170 - 80	Dolomite as above, 50%. Dolomite, medium to dark brown, fine crystalline sparite, with occassional calcite veining.
4180 - 4200	Dolomite, dark brown as above, 100%.
4200 - 4210	Sample as above, trace of intercrystalline porosity in one or two chips.
4210 - 4270	Sample as above, no porosity.
4270 - 80	Dolomite, light to medium brown, fine crystalline sparite, trace of white chert - massive.
4280 - 90	Dolomite as above, becoming very fine crystalline sparite, no chert.
4290 - 4340	Dolomite, medium to dark brown, very fine to fine crystalline sparite, trace chert.
4340 - 4370	Dolomite, medium brown, very fine crystalline sparite.
4370 - 4390	Dolomite, light to medium brown, fine crystalline sparite, some becoming sucrosic.
4390 - 4400	Dolomite, dark brown, very fine to fine crystalline sparite.
4400 - 4420	Dolomite as above, becoming medium to dark brown.
4420 - 30	Sample as above, dolomite becoming siliceous in part with abundant well-developed quartzite crystals.

TRIAD OIL CO. LTD.

WEEKLY FIELD REPORT (SEC. 2)

SAMPLE DESCRIPTION

Well:

Date Logged by:

These sample depths have/have not been lagged for drilling time.

Intervals	Descriptions
4430 - 4460	Sample as above but no quartzite crystals.
4460 - 70	Sample as above, trace of very poor fractured porosity.
4470 - 80	Dolmite, medium brown, medium crystalline sparite, some intercrystalline and vuggy porosity, trace of dead oil staining.
4480 - 90	Dolomite as above, tight, - white massive chert bed, very abundant in sample.
4490 - 4500	Dolomite, very light gray, very fine crystalline sparite, trace chert and trace pyrite.
4500 - 4510	Sample as above, no chert.
4510 - 20	Dolomite, becoming medium gray - brown, very fine crystalline sparite, trace chert, trace pyrite.
4520 - 4550	Sample as above, no chert, no pyrite.
4550 - 60	Dolomite, very light gray, very fine crystalline sparite, sucrosic in part, trace pyrite.
4560 - 70	Dolomite, medium to dark brown, medium crystalline sparite.
4570 - 80	Dolomite, medium gray-brown, ~~micro~~ medium crystalline sparite, fair vuggy and intercrystalline porosity.
4580 - 90	Sample as above, porosity becoming scattered,
4590 - 4600	Sample as above, occassional siliceous crystals. Final total depth 4600.

III ENGINEERING SUMMARY

(a) Report of Drill Stem Tests

D.S.T. #1: 1630' - 1707', Ramparts Formation
Times: PF 11, ISI 62, VO 61, FSI 89
Pressures: IH 746, ISI 720, IF 94, FF 94
@1639', FSI 719, FH 746.
Approx 15 MCF/Day gas too small to measure
Recovered 200' drilling mud.

D.S.T. #2: 1700' to 1812', Ramparts Formation
Times: PF 5, ISI 58, VO 60, FSI 60
Pressures: IH 791, ISI 614, VO 60, FSI 60
@ 1712', FSI 526, FH 791.
Recovered 10' drilling mud.

D.S.T. #3: 1800' to 2150', Misrun. Unable to get tool to bottom.

D.S.T. #4: 1800' to 2150', Ramparts Formation
Times: PF 5, ISI 56, VO 60, FSI 58
Pressures: IH 883, ISI 588, IF 35, FF 42
@ 1782', FSI 322, FH 853
Recovered 40' drilling mud.

D.S.T. #5: 3100' to 3140', Bear Rock Formation
Times PF 5, ISI 59, VO 65, FSI 91
Pressures: IH 1545, ISI 1365, IF 669, FF 1258
@ 3082', FSI 1308, FH 1536
Recovered 1970' Drilling mud
490' slightly salty drilling mud

D.S.T. #6: 4390' to 4600', Ronning Formation
Times: PF 6, ISI 59, VO 60, FSI 57
Pressures: IH 2134, ISI 1986, IF 1270, FF 1919
@ 4373' FSI 1976, FH 2121
Recovered 650' muddy sulphurous salt water
3586' clean sulphurous salt water (113,000 ppm)

NOTE: Pressures reported are field pressures.

(b) Casing Record

(i) Conductor - 13-3/8" 48#, H-40 Range 2, seamless ST&C. Landed at 87.37' KB. Cemented with 125 sax construction cement plug 4% CaCl2. No returns. Recemented Conductor from 20' to surface with 50 sax construction cement.

(ii) Surface - 8-5/8", 24#. J-55 Range 2, Seamless ST&C Landed at 517.69' KB. Cemented with 305 sax construction cement plug 2% CaCl2. No returns. Recemented down annulus from 30' with 60 sax construction cement + 3% CaCl2. + 4% Cellophane.

(iii) Production - None

III. ENGINEERING SUMMARY (continued)

(c) Bit Record

Bit #	Size	Type	From	To	Feet	Hours	Wt.	RPM
1A	12-1/4	OSC-3	0	85	85	7-3/4	4	65
2A	17-1/2	Reamer	0	85	85	2	4	65
1A RR	12-1/4	OSC-3	85	360	275	16-1/2	4-10	65-100
2A	12-1/4	OSC-3	360	522	162	6-1/4	4-10	65-120
1 RR	7-7/8	OSCLJ	522	622	100	3-1/4	16	65
2	7-7/8	OWVJ	622	1247	625	25-1/2	8	60-100
3	7-7/8	OWVJ	1247	1653	406	31	12-14	60-85
CH 1	6-1/8	Core	1653	1707	54	36	16-18	86
4	7-7/8	ODVJ	1653	1739	86	17-1/4	6-9	65
5 RR	7-7/8	X55R	1739	1754	15	4-1/2	15	40
CH 1	6-1/8	Core	1754	1758	4	4	5	60-80
CH 1	6-1/8	Core	1758	1812	54	27-1/2	12	76
5 RR	7-7/8	X55R	1754	1992	238	48-1/2	20	52
6	7-7/8	X55R	1992	2291	299	39	33	40
6 RR	7-7/8	X55R	2291	2803	512	38-1/4	35	40
7	7-7/8	OWCJ	2803	2978	175	20	35	50
8	7-7/8	X55R	2978	3501	523	58-3/4	30	40
9	7-7/8	X55R	3501	4409	908	96	35	40
8 RR	7-7/8	X55R	4409	4600	191	25-1/2	35	40

III. ENGINEERING SUMMARY (continued)

(d) Mud Report

A Gel/XC Polymer mud was used from surface casing to T.D. Quantities for the well are as follows:

Chemical	Quantity
Hydrogel	40,800 lbs.
Caustic Soda	1,300 lbs.
Kelzan A.L. (XC Polymer)	1,600 lbs.
Plaster of Paris	1,000 lbs.
Dowicide "B"	140 lbs.
Sawdust	350 sacks
Lime	110 lbs.
Peltex	150 lbs.
CMC	50 lbs.

Date - 8:00 AM	Depth	Weight	Viscosity	Waterloss	pH
Feb. 11/70	165	0	36	0	0
Feb. 12/70	522	0	48	0	0
Feb. 13/70	0	0	0	0	0
Feb. 14/70	915	8.8	34	0	0
Feb. 15/70	1233	9.1	35	0	0
Feb. 16/70	1546	9.0	33	0	0
Feb. 17/70	1653	9.1	55	0	0
Feb 18/70	1694	9.2	58	0	0
Feb. 19/70	1704	9.2	61	0	8.5
Feb. 20/70	1739	9.2	63	0	9.5
Feb. 21/70	1769	9.2	62	0	9.5
Feb. 22/70	1812	9.2	65	7.4	9.0
Feb. 23/70	1830	9.1	60	8.1	9.5
Feb 24/70	1966	9.2	48	7.2	9.5
Feb 25/70	2089	9.2	42	7.4	10.0
Feb. 26/70	2247	9.3	47	8.0	10.0
Feb. 27/70	2291	9.5	95	6.5	9.0
Feb. 28/70	2349	9.6	90	7.0	10.5
March 1/70	2644	9.4	76	6.4	11.0
March 2/70	2894	9.5	65	6.8	9.5
March 3/70	3071	9.4	50	6.8	10.5
March 4/70	3273	9.4	53	7.6	10.0
March 5/70	3462	9.3	47	8.2	10.0
March 6/70	3617	9.3	45	8.0	10.0
March 7/70	3839	9.3	40	10.0	9.0
March 8/70	4075	9.3	41	8.2	9.0
March 9/70	4279	9.4	43	7.8	8.5
March 10/70	4457	9.5	45	6.8	9.0
March 11/70	4600	9.6	77	6.8	9.5

III. ENGINEERING SUMMARY (continued)

(e) Deviation Record

Depth, K.B.	Degrees	Depth, K.B.	Degrees
45	1/4°	1600	1°
75	1/2°	1734	1°
104	1/4°	1828	1°
165	1/4°	1919	3/4°
220	3/4°	1980	1°
250	1/4°	2099	3/4°
310	3/4°	2224	7/8
344	1/4°	2341	1-1/2°
372	1/4°	2434	1-3/4°
439	1/8°	2590	1°
501	1/4°	2745	1-1/4°
560	1/8°	2906	1-1/2°
667	1/8°	2978	1-1/4°
820	1/2°	3060	1-1/2°
915	1/2°	3156	1°
1041	3/4°	3248	1°
1104	3/4°	3341	1-3/4°
1167	1°	3405	1°
1230	1°	3500	1°
1350	1/2°	3625	1-1/4°
1450	1/2°	3782	1-1/2
		3940	1°
		4098	7/8°
		4255	0°
		4409	3/4°
		4600	1/2°

(f) Abandonment Plugs

			Felt At
Plug No. 1	4600 - 4300' K.B.	w/100 sacks cement.	
Plug No. 2	3100 - 3000' K.B.	w/36 sacks cement + 2% $CaCl_2$.	2990'.
Plug No. 3	1700 - 1600' K.B.	w/50 sacks cement + 2% $CaCl_2$.	1584'.
Plug No. 4	565 - 465' K.B.	w/75 sacks cement + 2% $CaCl_2$.	455'.

Ran Surface plug, welded on plate and installed riser with identification marker.

(g) Lost Circulation Zones

(Cementing Conductor) - no returns - 125 saxks cement
- recemented conductor from 20' to surface with 50 sax construction cement.

(Cementing Surface) - No returns
- 305 sacks

(Recemented) - down Annulus from 30' with 60 sacks. 3% CaCl2 + 4% Cellophane.

(h) Report of Blowouts

None

IV. LOGS

Type	Date Run	Interval
Induction Electrical	March 11, 1970	518 - 4599'
BHC Sonic Gamma Ray Caliper	March 11, 1970	518 - 4598'

(Three prints of each submitted on March 24, 1970)

V. ANALYSES

(a) Core Analysis

Core #1 1653' - 1707' (see attached pages 29 - 32 inclusive)

(b) Water Analysis

DST #1 - mud sample
#2 - mud sample
#4 - mud sample
#5 - mud sample
#6 - water sample

(see attached pages 33 - 37 inclusive)

(c) Gas Analysis

None

(d) Oil Analysis

None

CORE LABORATORIES – CANADA LTD.

COMPANY	TRIAD OIL CO. LTD.	FORMATION	RAMPARTS	PAGE	1 OF 3
WELL	TRIAD BP ARCO CC HUME R 0-62	DRILLING FLUID	WATER BASE MUD	FILE	CNP-4-5011
FIELD	WILDCAT, HUME RIVER AREA, N.W.T.	ELEVATION		DATE REPORT	FEB. 24/70
LOCATION	65 51' 46.00 N. LAT. 129 12' 04.00 W. LONG.	ANALYSIS	FULL DIAMETER	ANALYSTS	RM, CC
		REMARKS			

SAMPLE NUMBER	INTERVAL REPRESENTED, FEET		PERMEABILITY TO AIR, MILLIDARCYS			PERMEABILITY FEET	POROSITY, PER CENT	POROSITY FEET	DENSITY, gm./cc.		VISUAL EXAMINATION
	DEPTH	THICK	KMAX	K90°	KV				BULK	GRAIN	
	CORED INTERVAL 1653 - 1707										
	CORE NO. 1 1653 - 1707 REC. 53.0' 12 BOXES										
1	1653.0-54.0	1.0	.33	.31	-0.1	.33	3.8	3.80	2.58	2.68	I STY
2	1654.0-55.1	1.1	.33	.31	-0.1	.36	4.3	4.73	2.56	2.67	I STY
3	1655.1-56.1	1.0	.12	.10	-0.1	.12	1.9	1.90	2.64	2.69	I STY
4	1656.1-57.4	1.3	-0.1	-0.1	-0.1	-	2.0	2.60	2.64	2.69	I
5	1657.4-58.8	1.4	.58	.58	-0.1	.81	7.3	10.22	2.45	2.65	I STY
6	1658.8-60.1	1.3	.01	-0.1	-0.1	.01	2.3	2.99	2.63	2.69	I STY
7	1660.1-61.1	1.0	-0.1	-0.1	-0.1	-	.7	.70	2.68	2.70	DENSE
	1661.1-63.9	2.8	-	-	-	-	-	-	-	-	DENSE
8	1663.9-64.6	.7	.04	-0.1	-0.1	.03	1.3	.91	2.66	2.70	I STY
	1664.6-65.7	1.1	-	-	-	-	-	-	-	-	DENSE
9	1665.7-66.7	1.0	-0.1	-0.1	-0.1	-	1.8	1.80	2.63	2.68	I
	1666.7-81.2	14.5	-	-	-	-	-	-	-	-	DENSE
10	1681.2-82.7	1.5	-0.1	-0.1	-0.1	-	1.4	2.10	2.66	2.69	I
	1682.7-84.0	1.3	-	-	-	-	-	-	-	-	DENSE
11	1684.0-85.1	1.1	-0.1	-0.1	-0.1	-	1.7	1.87	2.64	2.69	I STY
12	1685.1-86.2	1.1	-0.1	-0.1	-0.1	-	1.0	1.10	2.70	2.72	FEW PPV
	1686.2-87.7	1.5	-	-	-	-	-	-	-	-	DENSE
13	1687.7-89.7	2.0	-0.1	-0.1	-0.1	-	.3	.60	2.69	2.70	DENSE
14	1689.7-91.2	1.5	-0.1	-0.1	-0.1	-	.4	.60	2.69	2.70	SCATTERED PPV STY
15	1691.2-92.8	1.6	-0.1	-0.1	-0.1	-	.4	.64	2.69	2.70	SCATTERED PPV
	1692.8-95.0	2.2	-	-	-	-	-	-	-	-	DENSE
16	1695.0-96.4	1.4	-0.1	-0.1	-0.1	-	1.2	1.68	2.66	2.70	I
17	1696.4-97.8	1.4	-0.1	-0.1	-0.1	-	.7	.98	2.67	2.69	SCATTERED PPV
18	1697.8-98.9	1.1	.11	.06	-0.1	.12	2.1	2.31	2.65	2.71	I
19	1698.9- .2	1.3	-0.1	-0.1	-0.1	-	1.2	1.56	2.64	2.67	I

CORE LABORATORIES – CANADA LTD.

COMPANY	TRIAD OIL CO. LTD.	FORMATION	RAMPARTS	PAGE	1 OF 3
WELL	TRIAD BP ARCO CC HUME R 0-62	DRILLING FLUID	WATER BASE MUD	FILE	CNP-4-5011
FIELD	WILDCAT, HUME RIVER AREA, N.W.T.	ELEVATION		DATE REPORT	FEB. 24/70
LOCATION	65 51' 46.00 N. LAT. 129 12' 04.00 W. LONG.	ANALYSIS REMARKS	FULL DIAMETER	ANALYSTS	RM, CC

SAMPLE NUMBER	INTERVAL REPRESENTED, FEET DEPTH	THICK	PERMEABILITY TO AIR, MILLIDARCYS KMAX	K90°	KV	PERMEABILITY FEET	POROSITY, PER CENT	POROSITY FEET	DENSITY, gm/cc BULK	GRAIN	VISUAL EXAMINATION
	CORED INTERVAL 1653 - 1707										
	CORE NO. 1 1653 - 1707 REC. 53.0' 12 BOXES										
1	1653.0-54.0	1.0	.33	.31	-0.1	.33	3.8	3.80	2.58	2.68	I STY
2	1654.0-55.1	1.1	.33	.31	-0.1	.36	4.3	4.73	2.56	2.67	I STY
3	1655.1-56.1	1.0	.12	.10	-0.1	.12	1.9	1.90	2.64	2.69	I STY
4	1656.1-57.4	1.3	-0.1	-0.1	-0.1	-	2.0	2.60	2.64	2.69	I
5	1657.4-58.8	1.4	.58	.58	-0.1	.81	7.3	10.22	2.45	2.65	I STY
6	1658.8-60.1	1.3	.01	-0.1	-0.1	.01	2.3	2.99	2.63	2.69	I STY
7	1660.1-61.1	1.0	-0.1	-0.1	-0.1	-	.7	.70	2.68	2.70	DENSE
	1661.1-63.9	2.8	-	-	-	-	-	-	-	-	DENSE
8	1663.9-64.6	.7	.04	-0.1	-0.1	.03	1.3	.91	2.66	2.70	I STY
	1664.6-65.7	1.1	-	-	-	-	-	-	-	-	DENSE
9	1665.7-66.7	1.0	-0.1	-0.1	-0.1	-	1.8	1.80	2.63	2.68	I
	1666.7-81.2	14.5	-	-	-	-	-	-	-	-	DENSE
10	1681.2-82.7	1.5	-0.1	-0.1	-0.1	-	1.4	2.10	2.66	2.69	I
	1682.7-84.0	1.3	-	-	-	-	-	-	-	-	DENSE
11	1684.0-85.1	1.1	-0.1	-0.1	-0.1	-	1.7	1.87	2.64	2.69	I STY
12	1685.1-86.2	1.1	-0.1	-0.1	-0.1	-	1.0	1.10	2.70	2.72	FEW PPV
	1686.2-87.7	1.5	-	-	-	-	-	-	-	-	DENSE
13	1687.7-89.7	2.0	-0.1	-0.1	-0.1	-	.3	.60	2.69	2.70	DENSE
14	1689.7-91.2	1.5	-0.1	-0.1	-0.1	-	.4	.60	2.69	2.70	SCATTERED PPV STY
15	1691.2-92.8	1.6	-0.1	-0.1	-0.1	-	.4	.64	2.69	2.70	SCATTERED PPV
	1692.8-95.0	2.2	-	-	-	-	-	-	-	-	DENSE
16	1695.0-96.4	1.4	-0.1	-0.1	-0.1	-	1.2	1.68	2.66	2.70	I
17	1696.4-97.8	1.4	-0.1	-0.1	-0.1	-	.7	.98	2.67	2.69	SCATTERED PPV
18	1697.8-98.9	1.1	.11	.06	-0.1	.12	2.1	2.31	2.65	2.71	I
19	1698.9- .2	1.3	-0.1	-0.1	-0.1	-	1.2	1.56	2.64	2.67	I

CORE LABORATORIES – CANADA LTD.

COMPANY TRIAD OIL CO. LTD.
WELL TRIAD BP ARCO CC HUME R 0-62

PAGE 2 OF 3
FILE CNP-4-5011

SAMPLE NUMBER	INTERVAL REPRESENTED, FEET		PERMEABILITY TO AIR, MILLIDARCYS			PERMEABILITY FEET	POROSITY, PER CENT	POROSITY FEET	DENSITY, gm/cc		VISUAL EXAMINATION
	DEPTH	THICK	KMAX	K90°	KV				BULK	GRAIN	
20	1700.2- 1.9	1.7	.02	.02	-0.1	.03	3.5	5.95	2.58	2.68	1
21	1701.9- 2.9	1.0	.03	.03	-0.1	.03	3.3	3.30	2.61	2.70	1
22	1702.9- 4.7	1.8	-0.1	-0.1	-0.1	-	.9	1.62	2.67	2.69	DENSE
23	1704.7- 6.0	1.3	-0.1	-0.1	-0.1	-	1.0	1.30	2.68	2.71	DENSE
	1706.0- 7.0	1.0	-	-	-	-	-	-	-	-	LOST CORE

CORE LABORATORIES – CANADA, LTD.

Petroleum Reservoir Engineering

WELL: TRIAD BP ARCO CC HUME R 0-62

PAGE: 3 OF 3

FORMATION: RAMPARTS

FILE: CNP-4-5011

SUMMARY INTERVAL: 1653.0 - 1707.0

TOTAL FOOTAGE: 54.0

FOOTAGE ANALYZED 29.6

FOOTAGE NOT ANALYZED: TOTAL: 24.4 DENSE 23.4 LOST 1.0 DRILLED .0 *NABR .0 RUBBLE .0

SUMMARY OF ANALYZED CORE:

	FOOTAGE	% OF ANALYZED CORE	WEIGHTED AVERAGE POROS %	POROSITY FEET	WEIGHTED AVERAGE PERM MD	PERM FEET	WEIGHTED AVERAGE RESID OIL %	WEIGHTED AVERAGE TOT SATUR %
TOTAL	29.6	100.00	1.87	55.26	.06	1.85	.00	.00
BY PERM RANGES:								
LESS THAN 0.10 Md.	24.0	81.08	1.35	32.30	.00	.11	.00	.00
0.10 0.49 Md.	4.2	14.19	3.03	12.74	.22	.93	.00	.00
0.50 0.99 Md.	1.4	4.73	7.30	10.22	.58	.81	.00	.00
1.00 9.99 Md.	.0	.00	.00	.00	.00	.00	.00	.00
GREATER THAN 9.99 Md.	.0	.00	.00	.00	.00	.00	.00	.00

*NOT ANALYZED BY REQUEST

CORE LABORATORIES - CANADA LTD. CORE LAB *Petroleum Reservoir Engineering*

COMPANY Triad Oil Co. Ltd. FIELD Wildcat, Hume River Area FILE CNP-4-5011

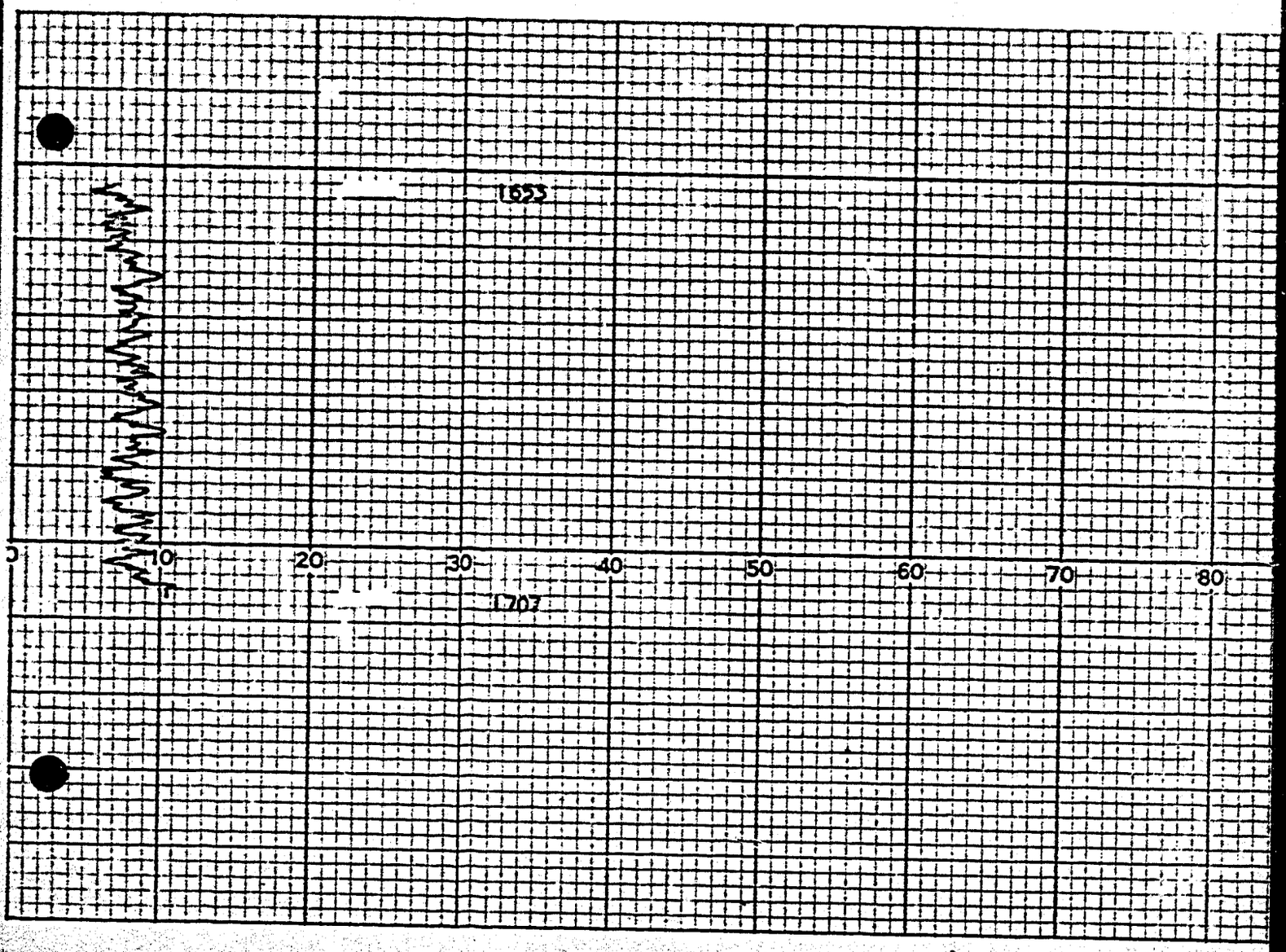
WELL Triad BP ARCO CC Hume R O-62 DATE

LOCATION 65 51' 46.00 N. Lat. 129 12' 04.00 W. Long. PROV Northwest Territories ELEV.

CORE-GAMMA CORRELATION

VERTICAL SCALE: 5" = 100'

T.C. 11 Sec. Sens. 5000 CPM



CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

Company: Triad Oil Co. Ltd. Page: 1 of 3

Well: Triad BP ARCO CC Hume R O-62 File: CAL-2-1884

Field: Wildcat, Northwest Territories Analyst: DS

Location: 65° 51'46" N 129° 12'04" W Elevation: K.B. 285' Grd. 272'

Formation: Ramparts Depth: 1630' - 1707'

Sampled from: DST #1 (RFS Tool) by:

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

Date sampled: Feb. 19/70 Date received: March 23/70 Date analysed: March 25/70

Container pressure: Mud: Water cushion:

Recovery or flowrate: 200' Drilling Mud

Resistivity 3.29 Ohm-meters @ 75°F

CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

Company: Triad Oil Co. Ltd. Page: 2 of 3

Well: Triad BP ARCO CC Hume R 0-62 File: CAL-2-1884

Field: Wildcat, Northwest Territories Analyst: DS

Location: 65° 51'46" N 129° 12'04" W Elevation: K.B. 285' Grd. 272'

Formation: Depth: 1700' - 1812'

Sampled from: DST #2 (RFS Tool #19) by:

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

Date sampled: Feb. 22/70 Date received: March 23/70 Date analysed: March 25/70

Container pressure: Mud: Water cushion:

Recovery or flowrate: 10' Drilling Mud

Resistivity 2.60 Ohm-meters @ 75°F

CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

Company: Triad Oil Co. Ltd. Page: 3 of 3

Well: Triad BP ARCO CC Hume R O-62 File: CAL-2-1884

Field: Wildcat, Northwest Territories Analyst: DS

Location: 65° 51'46" N 129° 12'04" W Elevation: K.B. 285' Grd. 272'

Formation: Ramparts Depth: 1800' - 2150'

Sampled from: DST #4 (RST Tool #19) by:

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

Date sampled: Feb. 27/70 Date received: March 23/70 Date analysed: March 25/70

Container pressure: Mud: Water cushion:

Recovery or flowrate: 40' Drilling Mud

Resistivity 2.05 Ohm-meters @ 75°F

CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

Company: Triad Oil Co. Ltd. Page: 1 of 2

Well: Triad BP ARCO CC Hume R 0-62 File: CAL-2-1853

Field: Wildcat, Northwest Territories Analyst: AH

Location: 65° 51'46" N 129° 12'64" W Elevation: K.B. 285' Grd. 272'

Formation: Bear Rock Depth: 3100' - 3140'

Sampled from: DST #5 (Sample #3-RFS Tool) by:

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

Date sampled: March 12/70 Date received: March 19/70 Date analysed: March 25/70

Container pressure: Mud: Water cushion:

Recovery or flowrate: 1970' Drilling Mud, 490' Slightly Salty Drilling Mud.

Chloride	1,338 mg/liter
Resistivity	1.19 Ohm-meters @ 75°F

CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

WATER ANALYSIS

File CAL-2-1853 Page 2 of 2

Company: Triad Oil Co. Ltd.

Well: Triad BP ARCO CC Hume R 0-62 K.B. _____ Grd. _____

Location: 65° 51'46" N 129° 12'64" W Field: Wildcat Province: N.W.T.

Formation: Ronning Interval: 4390' - 4600'

Sampled from: DST #6 (Sample #3-RFS Tool) by _____

Date sampled: March 13/70 Date analysed: March 25/70 Analyst: AH

Recovery: 650' Muddy Sulphurous Salt Water, 3586' Clean Sulphurous Salt Water.

Mud type _____ Water cushion _____

Resistivity: 0.060 Ohm-meters @ 75 °F

Specific gravity: 1.0908 @ 60°F

pH: 6.7 H_2S: Nil

Refractive Index: 1.354 @ 70°F

Total Solids:

Calculated: 130,524 mg/liter

By evaporation @ 110°C: - mg/liter

By evaporation @ 180°C: - mg/liter

At ignition: - mg/liter

MILLIGRAMS PER LITER

Na + K	Ca	Mg	Fe	Ba	Br	I	Cl	HCO_3	SO_4	CO_3	OH
43,758	5,148	1,125	Pres	Abs.	-	-	78,252	327	1,914	Nil	Nil

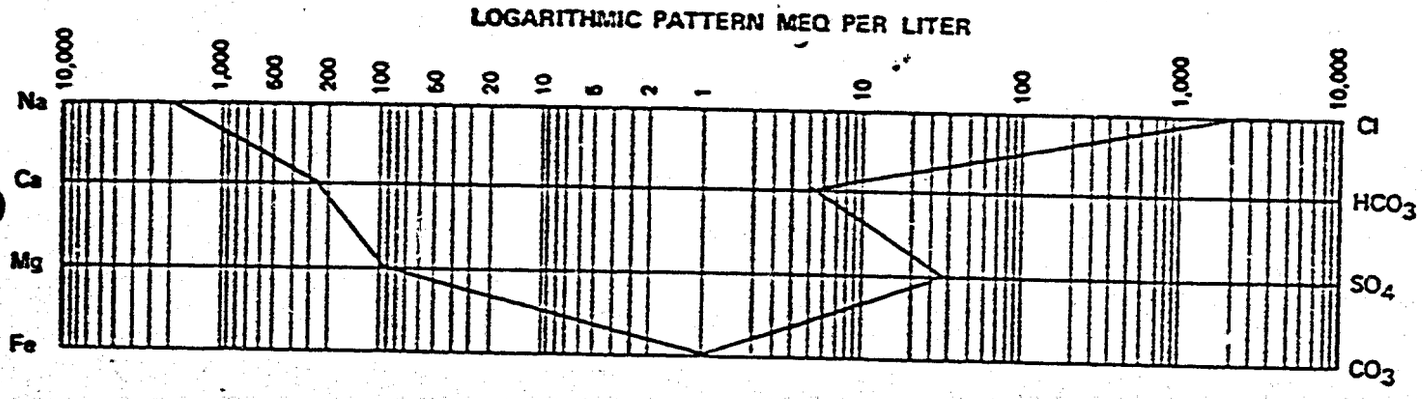
PER CENT CALCULATED SOLIDS

33.4	3.9	0.9	Pres	Abs.	-	-	60.0	0.3	1.5	Nil	Nil

MEQ PER LITER

1902.5	256.9	92.5	Pres	Abs.	-	-	2206.7	5.4	39.8	Nil	Nil

LOGARITHMIC PATTERN MEQ PER LITER



VI. COMPLETION RECORD

(a) Tubing Record

None.

(b) Perforation Record

None

(c) Cementation Record

Date	Abandonment Plug No.	Position Ft. KB	Geological Formation	No. Sacks Cement	Depth Plug Felt. Ft. KB
March 14/70	1	4300 - 4600	Ronning	100	Not Felt
March 14/70	2	3000 - 3100	Headless	36	2990'
March 14/70	3	1600 - 1700	Cretaceous	50	1584'
March 15/70	4	465 - 565		75	455'

(d) Acidization and Fracturing Record

None

(e) Back Pressure and Production Tests

None

TESTING REPORT

DRILL-STEM TEST DATA

Well Name: Triad BP Arco CC Home R		Test No: one
Well Number: 0-62-66-00-129-000		Zone Tested
Company: Triad Oil Company Ltd.		Interval: 1630' - 1707'
Comp. Rep: Mr. E. Popowich	Tester: Joe Hugi	Date: Feb. 19/70

Type of Test: Dual Bottom Hole B F S Tool No: 19 (Drained at loc.)

Preflow: 11 mins ISI: 62 mins Flow: 61 mins FSI: 89 mins

Specify Inside or Outside	INS REC No 5060	OUT REC No 5061	REC No
	3600 RANGE 12 HR CLOCK	3600 RANGE 12 HR CLOCK	RANGE HR CLOCK
DEPTH	1613	1659	
Initial Hydro Mud Press	746	756	
Initial Shut-in Press	720	731	
Initial Flow Press	94	98	
Final Flow Press	94	105	
Final Shut-in Press	719	729	
Final Hydro Mud Press	746	756	

Mud Drop: 5" Fluid Loss: Mud Weight: 9.1
Viscosity: 60 Temperature °F: 81 Net Pay Tested:
Top Packer Depth: Bottom Packer Depth: 1630' Total Depth: 1707'
Drill Pipe Size: 4" Wt: 13.75 Drill Collar I D: 2 7/8" Ft Run: 448
Surface Choke Size: 1" OPEN Bottom Choke Size: 9" Main Hole Size: 7 7/8"
Anchor Size: 4½" OD Rat Hole Size: 6 1/8" Feet of Rat Hole: 54
Cushion Amount: Type: Rubber Size: 6 5/8"

Fluid Recovery Total Feet: 200
Recovered: 200 Feet of: Drilling Mud
Recovered: Feet of:
Recovered: Feet of: 3 Samples of recovery fluid left with Ed Popowich
Recovered: Feet of:
Recovered: Feet of:

Gas Recovery How Measured: Too small to measure Riser size:

mins	Temp. F	Press Rdg. psi	Orifice Size	= Est. 15	MCF/Day
mins	Temp. F	Press Rdg. psi	Orifice Size	=	MCF/Day
mins	Temp. F	Press Rdg. psi	Orifice Size	=	MCF/Day
mins	Temp. F	Press Rdg. psi	Orifice Size	=	MCF/Day
mins	Temp. F	Press Rdg. psi	Orifice Size	=	MCF/Day
mins	Temp. F	Press Rdg. psi	Orifice Size	=	MCF/Day

Bleed Off Time for Drill Pipe:

REMARKS: Tool skidding throughout test. Weak air blow on preflow. Gas to surface on initial flow, remaining weak throughout flow period.

A Core Lab Gas Cont. No. Chem - Geo. Lab Gas Cont. No

BJ

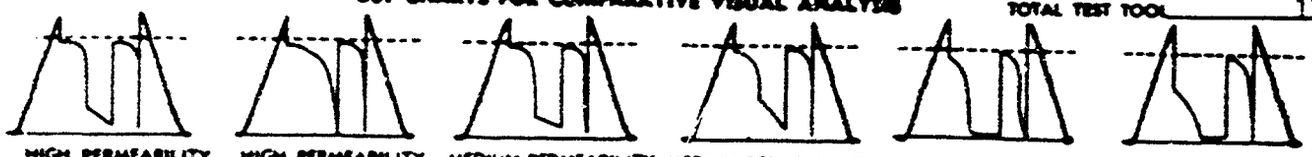
TESTING REPORT

46 LANDING SUB		
46 CHAMBER	Jars	6.00
43 TOOL OR F.O. SUB		
CO SUB		1.00
SHUT IN TOOL		5.50
R.T.S. No.	19 Drain at Rig	3.35
R.T.S. No.		
HYDRAULIC TOOL		7.20
JARS		
RECORDER No.	5060 DMS	5.00 DEPTH 1613
RECORDER No.		DEPTH
SAFETY JOINT		1.75
BY PASS SUB		
1. PACKER DEPTH 1624 — PACKER		6.00
2. PACKER DEPTH 1630 — PACKER		5.00 — TOTAL TOOL ABOVE INTERVAL 40.80
ANCHOR—SPECIFY		1.00
Perfs		7.00
BLANK OFF OR BY PASS SUB		
RECORDER No.	5061 OUTS	1.00 DEPTH 1639
Perfs		2.00
3. PACKER DEPTH — PACKER		— TOTAL INTERVAL 77.00
4. PACKER DEPTH — PACKER		
ANCHOR—SPECIFY		
RECORDER No.		DEPTH
Drill Pipe		63.00
TOTAL DEPTH 1707 — BULLNOSE		3.00

TOTAL TAIL PIPE 77.00

TOTAL TEST TOOL 117.80

DST CHARTS FOR COMPARATIVE VISUAL ANALYSIS



HIGH PERMEABILITY STRONG DAMAGE EFFECT | HIGH PERMEABILITY NO DAMAGE EFFECT | MEDIUM PERMEABILITY STRONG DAMAGE EFFECT | MEDIUM PERMEABILITY NO DAMAGE EFFECT | LOW PERMEABILITY STRONG DAMAGE EFFECT | LOW PERMEABILITY NO DAMAGE EFFECT

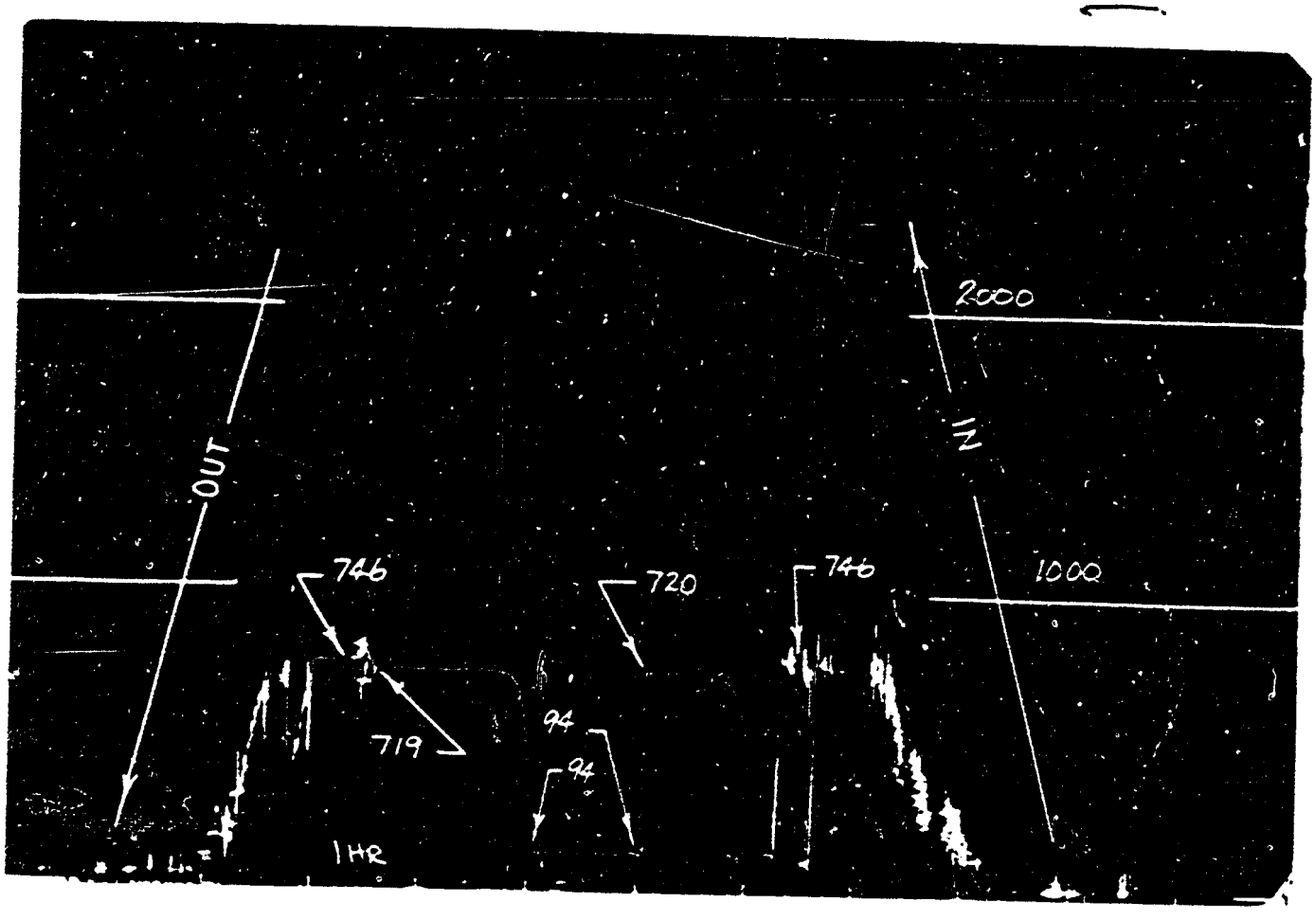
DST PRESSURE INCREMENTS

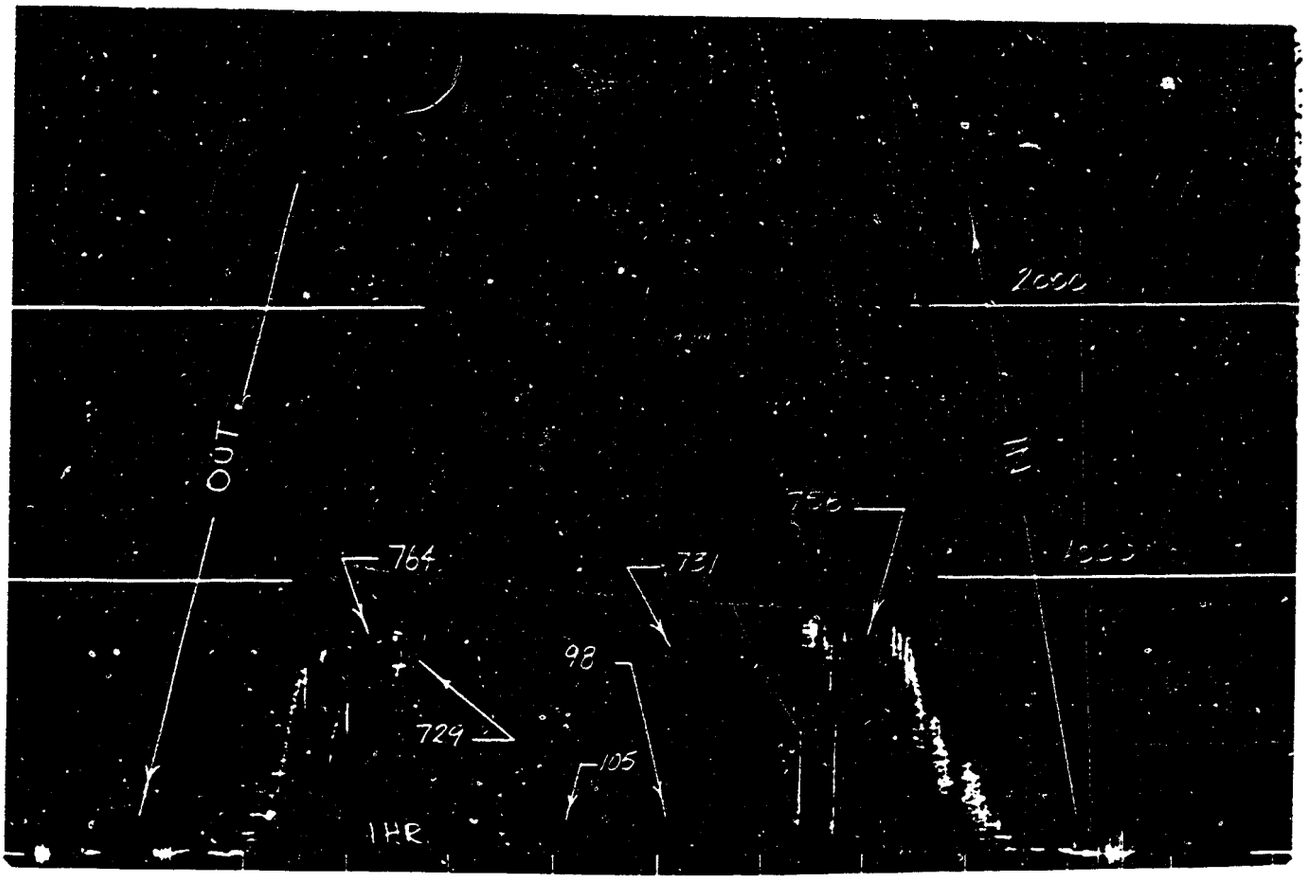
Recorder No.

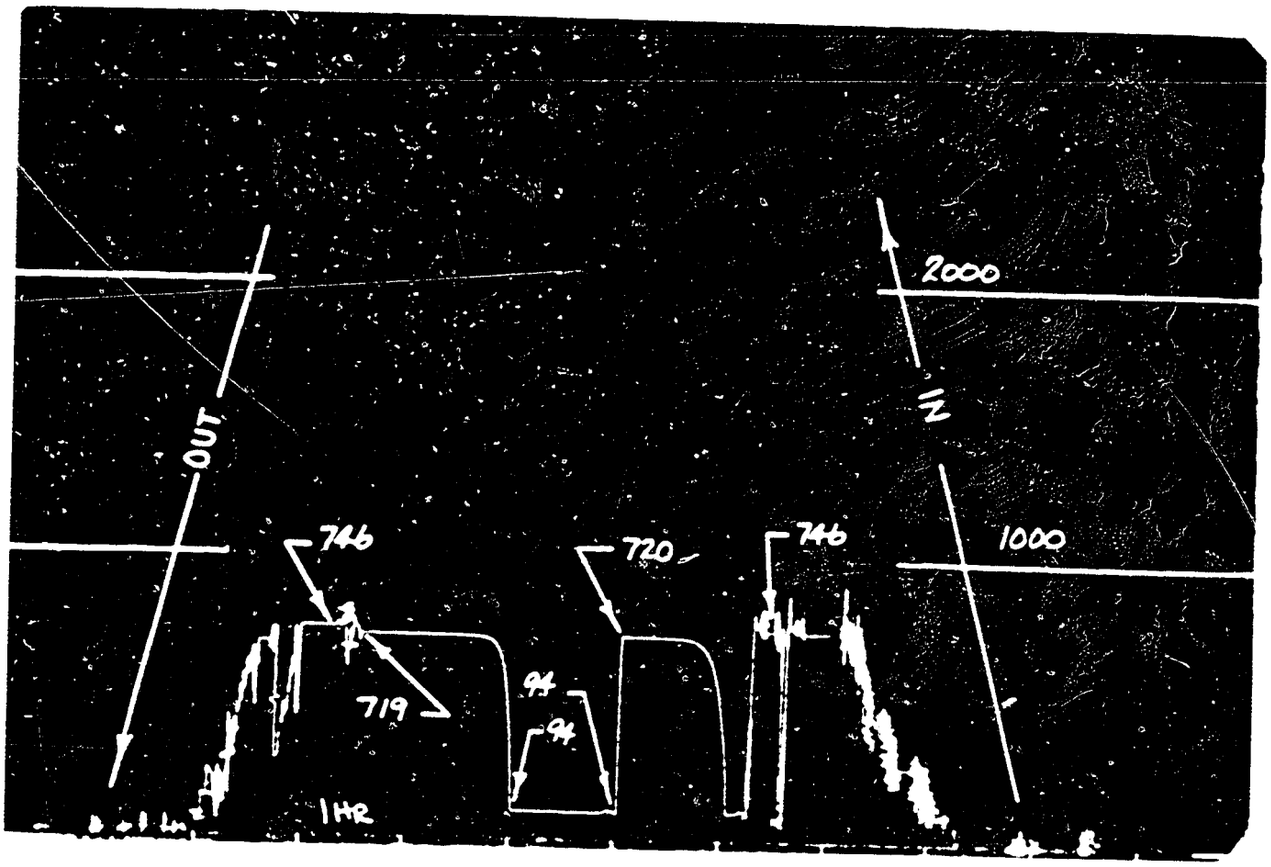
Depth

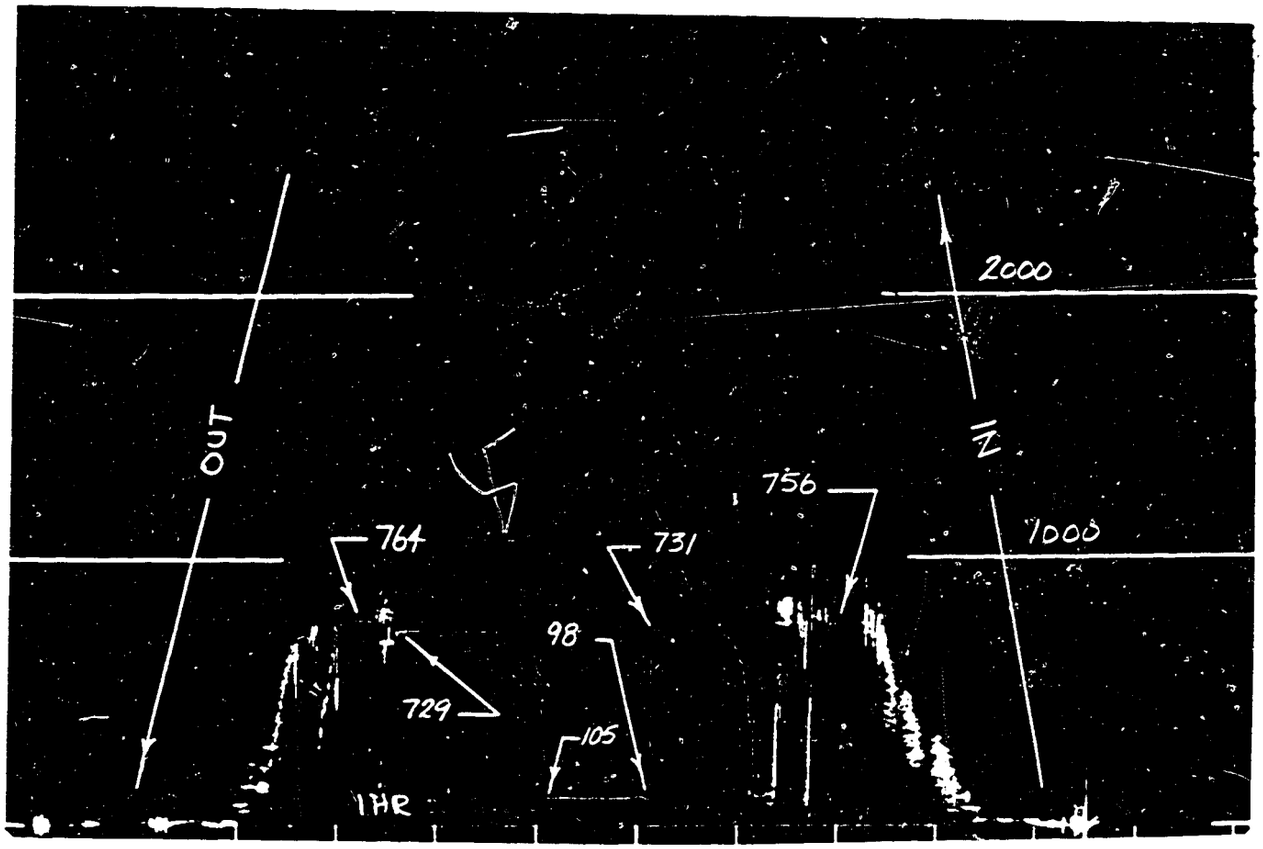
Points	INITIAL CIP				FINAL CIP			
	Time Defl.	T + θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl.	T + θ	$\frac{T+\theta}{\theta}$	PSIG
1	0			97	0			94
2	5			447	5			556
3	10			614	10			671
4	15			676	15			706
5	20			704	20			713
6	25			713	25			715
7	30			717	30			717
8	35			719	35			718
9	40			719	40			718
10	45			719	45			718
11	50			719	50			718
12	55			720	55			719
13	60			720	60			719
14	65			720	65			719
15					70			719
16					75			719
17					80			719
18					85			719
19					89			719
20								
21								
22								
23								
24								

C


OUT
2000
IN
1000
746
720
746
719
94
94
1HR


OUT
2000
IN
764
731
98
729
105
1HR


OUT
2000
Z
1000
746
720
746
719
94
94
1HR


OUT
2000
Z
1000
756
764
731
98
729
105
1HR

TESTING REPORT

DRILL-STEM TEST DATA

Well Name	Triad BP Arco CC Hume R	Test No	Two
Well Number	62-44 ~~C-86-89-00-129-00~~	Zone Tested	
Company	Triad Oil Company Ltd.	Interval	1700' - 1812'
Comp Rep	Mr. E. Popowich — Tester: J. Hugi	Date	Feb. 22, 1970

Type of Test Dual Bottom Hole RFS Tool No 19 (Drained at Rig)

Preflow 5 mins ISI 58 mins Flow 61 mins FSI 60 mins

Specify Inside or Outside	INS REC No 5040	OUT REC No 5043	REC No
	3600 RANGE 12 HR CLOCK	3600 RANGE 12 HR CLOCK	RANGE HR CLOCK
DEPTH	1683	1712	
Initial Hydro Mud Press	791	809	
Initial Shut-in Press	614	632	
Initial Flow Press	18	40	
Final Flow Press	26	47	
Final Shut-in Press	526	543	
Final Hydro Mud Press	791	809	

Mud Drop NIL Fluid Loss Mud Weight 9.2
Viscosity 66 Temperature °F 80 Net Pay Tested
Top Packer Depth Bottom Packer Depth 1700 Total Depth 1812
Drill Pipe Size 4" Wt 13.75 Drill Collar I.D 2 7/8" Ft Run 448
Surface Choke Size CLOSED Bottom Choke Size ¼" Main Hole Size 7 7/8
Anchor Size 4½" OD Rat Hole Size 6 1/8" Feet of Rat Hole 54
Cushion Amount Type Rubber Size 6 5/8"

Fluid Recovery Total Feet 10
Recovered 10 Feet of Drilling Mud
Recovered Feet of
Recovered Feet of Two samples from the recovery fluid were given to
Recovered Feet of Mr. E. Popowich
Recovered Feet of

Gas Recovery How Measured Riser size

mins	Temp. °F	Press Rdg. psi	Orifice Size	=	MCF/Day
mins	Temp. °F	Press Rdg. psi	Orifice Size	=	MCF/Day
mins	Temp. °F	Press Rdg. psi	Orifice Size	=	MCF/Day
mins	Temp. °F	Press Rdg. psi	Orifice Size	=	MCF/Day
mins	Temp. °F	Press Rdg. psi	Orifice Size	=	MCF/Day
mins	Temp. °F	Press Rdg. psi	Orifice Size	=	MCF/Day

Bleed Off Time for Drill Pipe

REMARKS Very weak airblow on preflow. Very weak airblow on initial flow, dead in 12 mins. Tool skidding throughout test. Uneven build UP curve on initial shut-in due to tool skidding.

A Core Lab Gas Cont. No. Chem - Geo. Lab Gas Cont. No

BJ SERVICES

TESTING REPORT

45 LANDING SUB		
45 CHAMBER	Jars	6.00
45 TOOL OR V.O. SUB		
CO SUB		1.00
SHUT IN TOOL		5.50
R.F.S. No.	19 Drained at Rig	3.35
R.F.S. No.		
HYDRAULIC TOOL		7.20
JARS		
RECORDER No.	5040 INS	5.00 DEPTH 1683
RECORDER No.		DEPTH
SAFETY JOINT		1.75
BY PASS SUB		
1. PACKER DEPTH 1696 — PACKER		6.00
2. PACKER DEPTH 1700 — PACKER		5.00 — TOTAL TOOL ABOVE INTERVAL 10.80
ANCHOR—SPECIFY		
	Perfs	10.00
BLANK OFF OR BY PASS SUB		
RECORDER No.	5041 OUTS	1.00 DEPTH 1712
	Perfs	2.00
3. PACKER DEPTH — PACKER		— TOTAL INTERVAL 111.90
4. PACKER DEPTH — PACKER		
ANCHOR—SPECIFY		
RECORDER No.		DEPTH
	Drill Pipe	93.90
	Perfs	1.00
TOTAL DEPTH 1812 — BULLNOSE		3.00

TOTAL TAIL PIPE 111.90

TOTAL TEST TOOL 152.70

DST CHARTS FOR COMPARATIVE VISUAL ANALYSIS

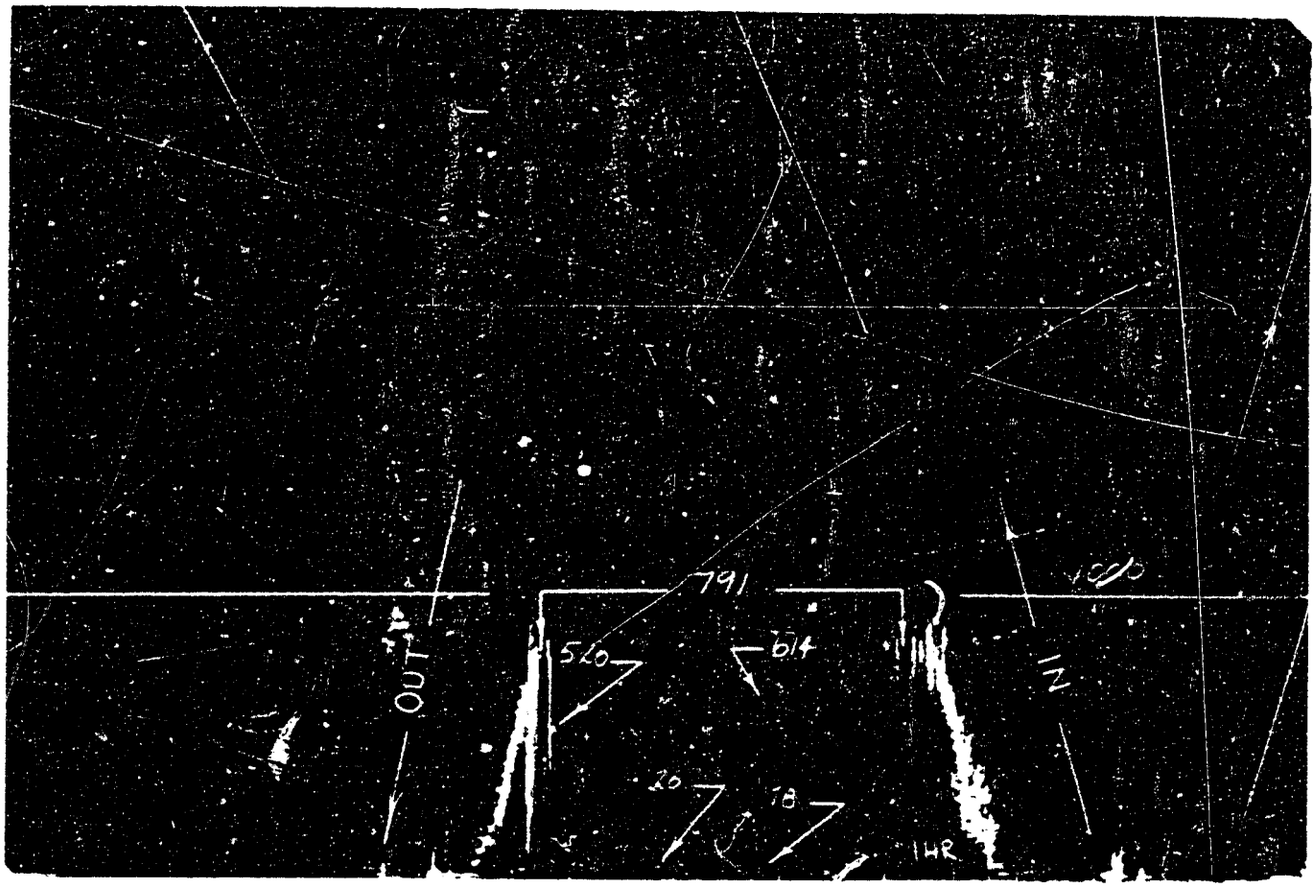
HIGH PERMEABILITY STRONG DAMAGE EFFECT | HIGH PERMEABILITY NO DAMAGE EFFECT | MEDIUM PERMEABILITY STRONG DAMAGE EFFECT | MEDIUM PERMEABILITY NO DAMAGE EFFECT | LOW PERMEABILITY STRONG DAMAGE EFFECT | LOW PERMEABILITY NO DAMAGE EFFECT

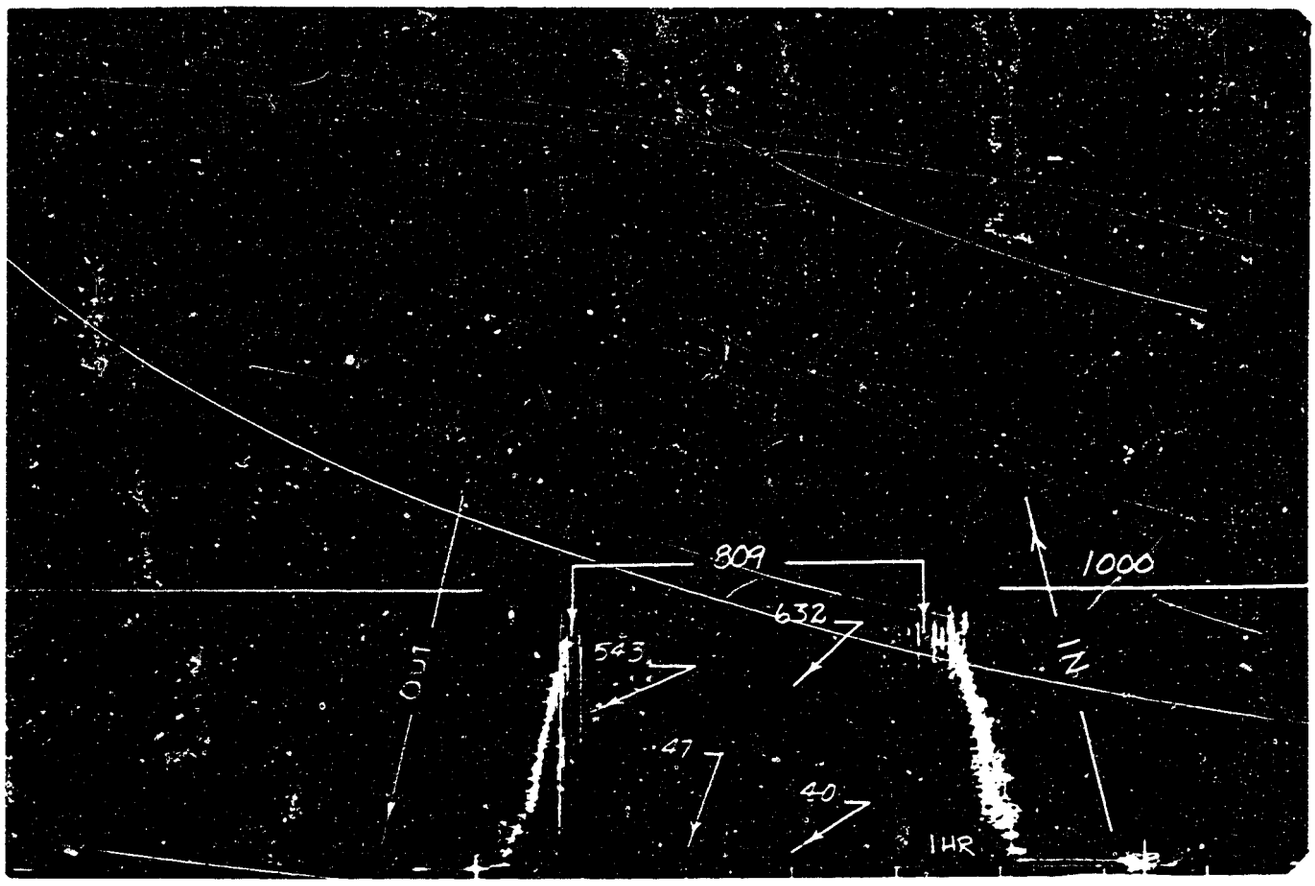
DST PRESSURE INCREMENTS

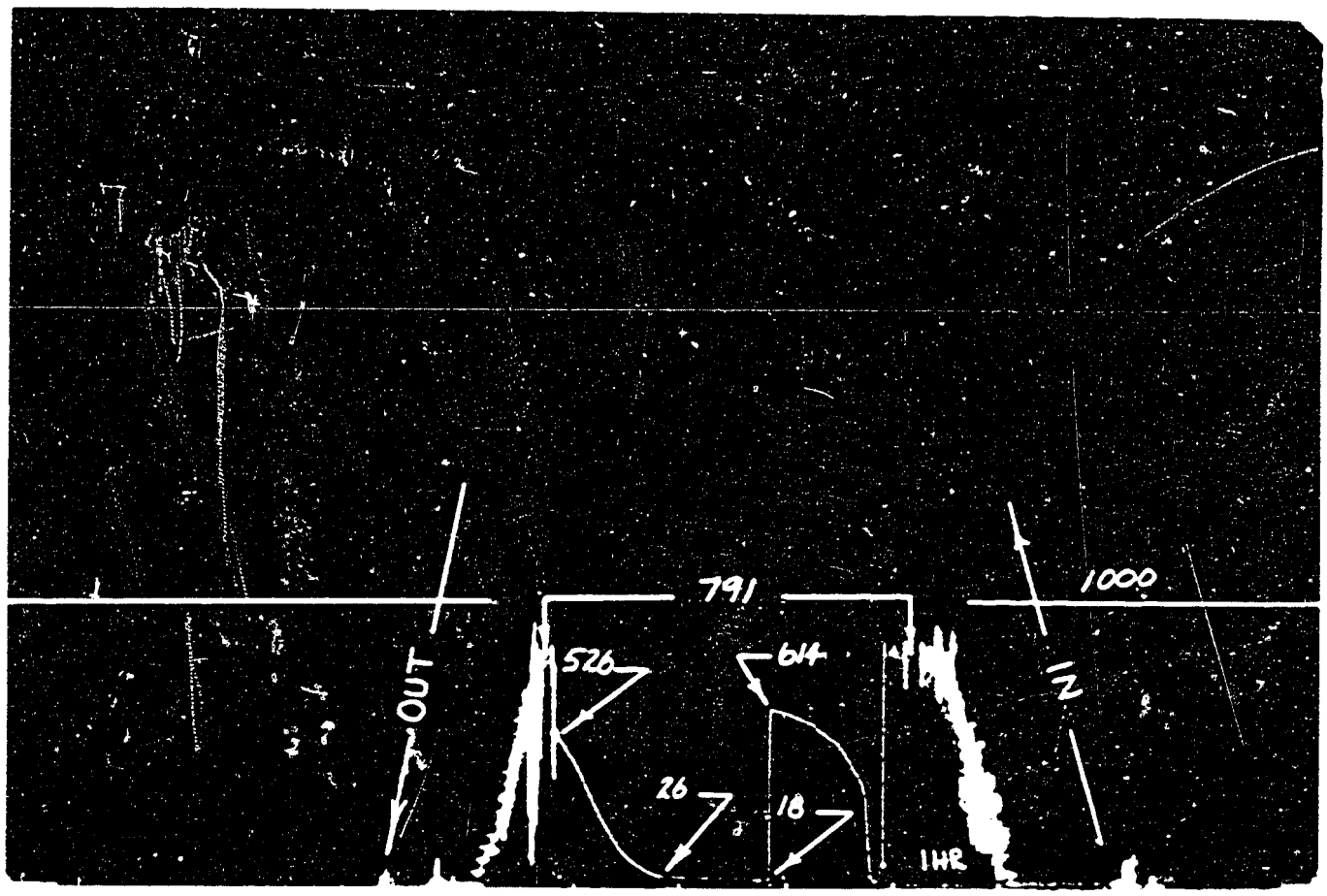
Recorder No. 5040 Depth 1683

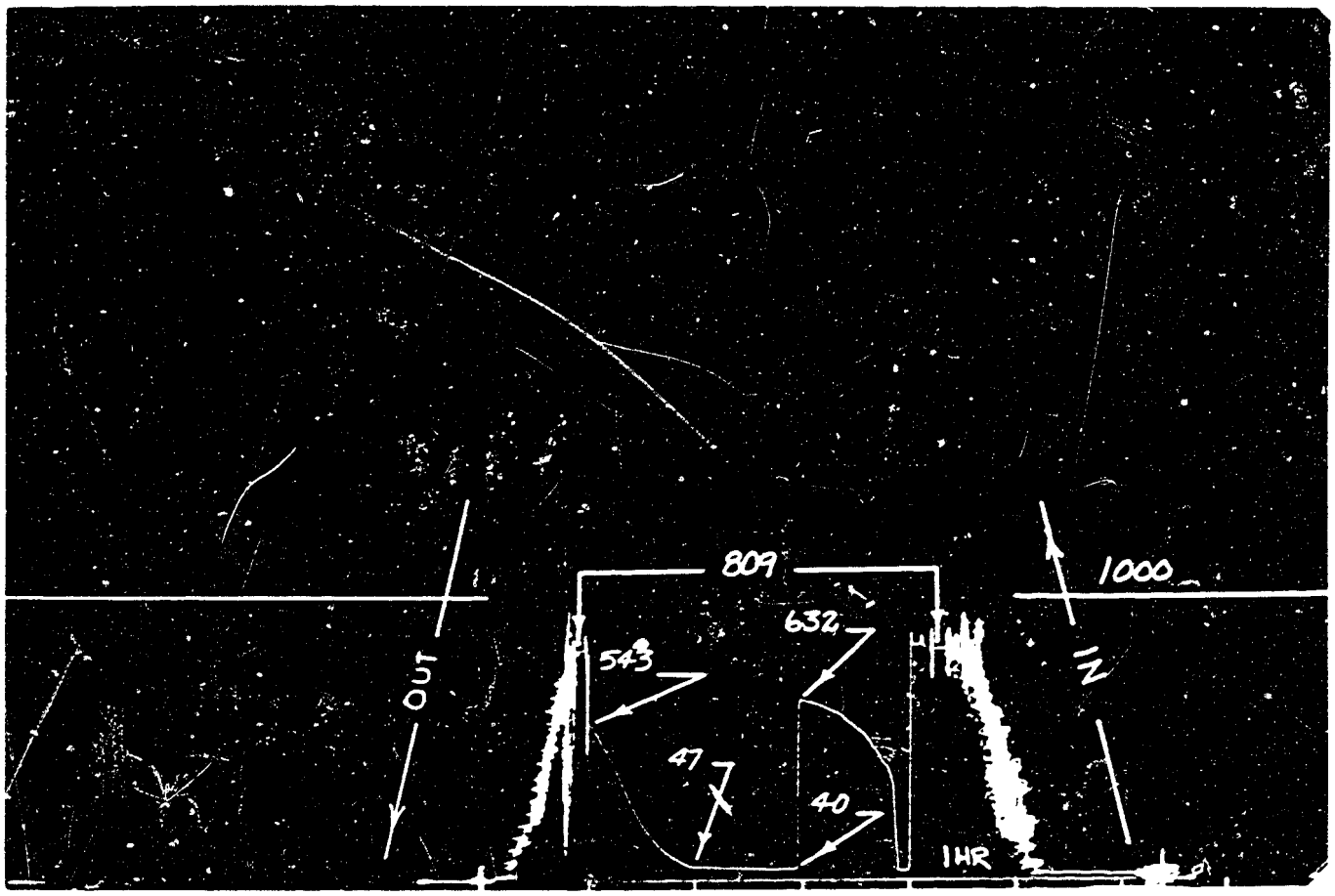
Points	INITIAL CIP				FINAL CIP			
	Time Defl.	T+θ	T+θ / θ	PSIG	Time Defl.	T+θ	T+θ / θ	PSIG
1	0			12	0			26
2	5			334	5			37
3	10			396	10			51
4	15			442	15			70
5	20			489	20			95
6	25			512	25			132
7	30			535	30			181
8	35			563	35			238
9	40			576	40			305
10	45			588	45			369
11	50			600	50			433
12	55			609	55			479
13	58			614	60			526
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

C


791
1000
OUT
560
614
N
20
18
1HR


809
1000
632
543
OUT
N
47
40
1HR


791
1000
526
614
OUT
26
18
1HR
N


809
1000
632
543
OUT
47
40
1HR
N

DRILL-STEM TEST DATA

Well Name TRIAD BP ARCO CC HUME R		Test No THREE MISRUN
Well Number 0-62-66-00-129-00		Zone Tested
Company TRIAD OIL CO. LTD.		Interval 1800' - 2150'
Comp Rep MR E. POPOWICH	Tester JOE HUGI	Date FEB. 26/70

Type of Test DUAL STRADOLE BY PASS R F S Tool No. 19

Preflow _____ mins. ISI _____ mins. Flow _____ mins. FSI _____ mins.

Specify Inside or Outside	INS REC No. 5060	OUT REC No. 5063	REC No.
	3600 RANGE 12 HR CLOCK	3600 RANGE 12 HR CLOCK	RANGE HR CLOCK
DEPTH			
Initial Hydro Mud Press			
Initial Shut-In Press			
Initial Flow Press			
Final Flow Press			
Final Shut-In Press			
Final Hydro Mud Press			

Mud Drop _____ Fluid Loss 9 Mud Weight 9.3
Viscosity 67 Temperature °F _____ Net Pay Tested _____
Top Packer Depth 1800' Bottom Packer Depth 2150' Total Depth 2291'
Drill Pipe Size 4" Wt. 13.75 Drill Collar I.D. 2 7/8" Ft. Run 448
Surface Choke Size _____ Bottom Choke Size _____ Main Hole Size _____
Anchor Size _____ Rat Hole Size _____ Feet of Rat Hole _____
Cushion Amount _____ Type _____ Rubber Size _____

Fluid Recovery Total Feet _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____
Recovered _____ Feet of _____

Gas Recovery How Measured _____ Bleed size _____

_____ mins. _____ Temp. °F Press Rdg. _____ psi Orifice Size _____ = _____ MCF/Day
_____ mins. _____ Temp. °F Press Rdg. _____ psi Orifice Size _____ = _____ MCF/Day
_____ mins. _____ Temp. °F Press Rdg. _____ psi Orifice Size _____ = _____ MCF/Day
_____ mins. _____ Temp. °F Press Rdg. _____ psi Orifice Size _____ = _____ MCF/Day
_____ mins. _____ Temp. °F Press Rdg. _____ psi Orifice Size _____ = _____ MCF/Day
_____ mins. _____ Temp. °F Press Rdg. _____ psi Orifice Size _____ = _____ MCF/Day

Bleed Off Time for Drill Pipe _____

REMARKS: MISRUN: UNABLE TO GET TOOL TO BOTTOM

A Core Lab Gas Cont. No. _____ Chem - Geo. Lab Gas Cont. No. _____

BJ SERVICES

TESTING REPORT

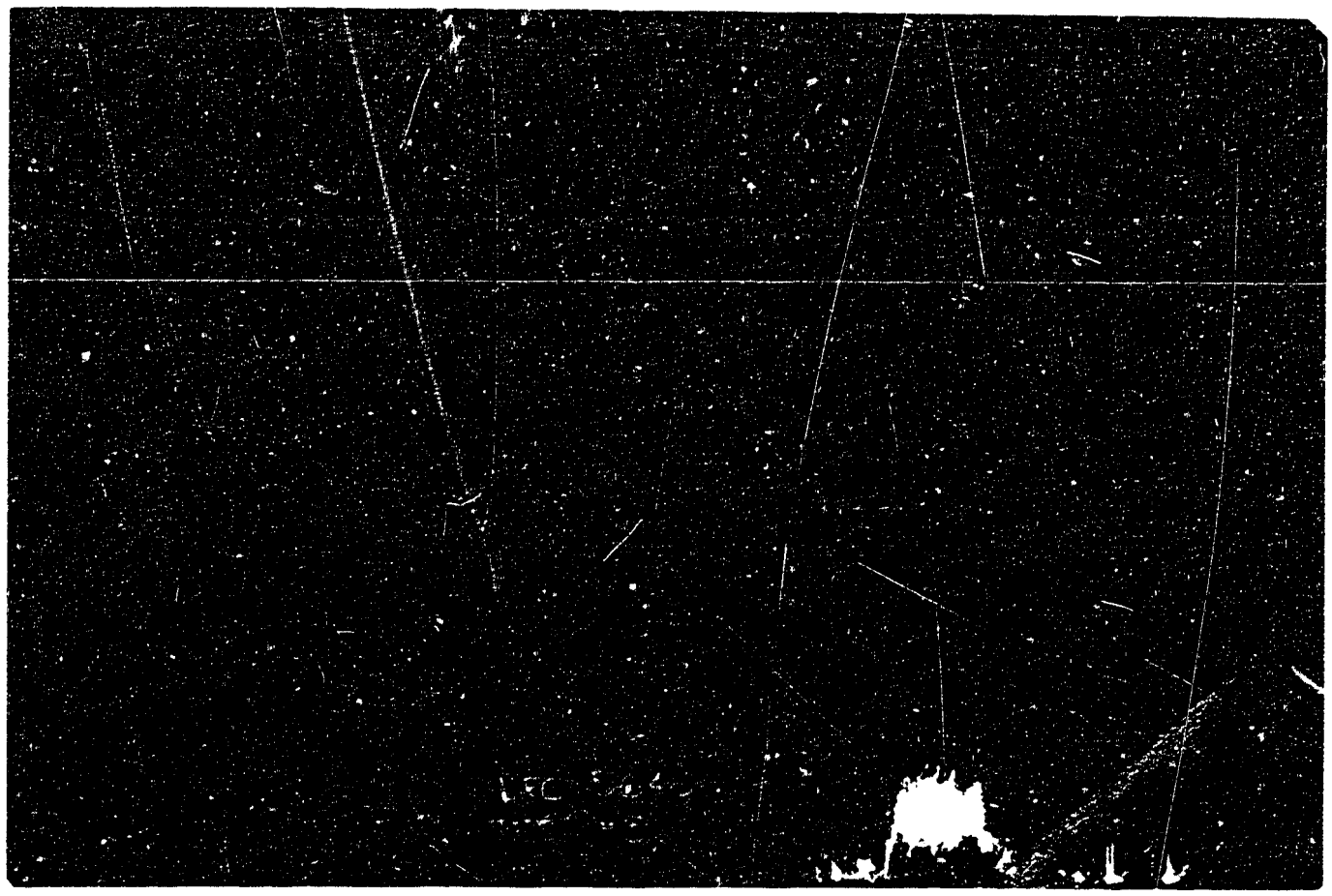
45 LANDING SUB		
45 CHAMBER	JARS	6.00
45 TOOL OR F.O. SUB		
CO SUB		1.00
SHUT IN TOOL		5.50
E.P.S. No.	19	3.35
E.P.S. No.		
HYDRAULIC TOOL		7.20
JARS		
RECORDER No.	5040 INS	5.00 DEPTH 1782
RECORDER No.		DEPTH
SAFETY JOINT		1.75
BY PASS SUB		1.00
1. PACKER DEPTH 1794 — PACKER		6.00
2. PACKER DEPTH 1800 — PACKER		5.00 — TOTAL TOOL ABOVE INTERVAL 41.90
ANCHOR—SPECIFY		1.00
	Perfs	14.00
BLANK OFF OR BY PASS SUB		1.00
RECORDER No.	5041 OUT	DEPTH 1816
	Drill Collar + COS	331.68
3. PACKER DEPTH 2150 — PACKER		3.00 — TOTAL INTERVAL 350.68
		3.00
4. PACKER DEPTH 2156 — PACKER		6.00
ANCHOR—SPECIFY		
	Perfs	3.00
RECORDER No.		DEPTH
	Drill Pipe	122.90
	Perfs	4.00
TOTAL DEPTH 2291 — BULLNOSE		3.00

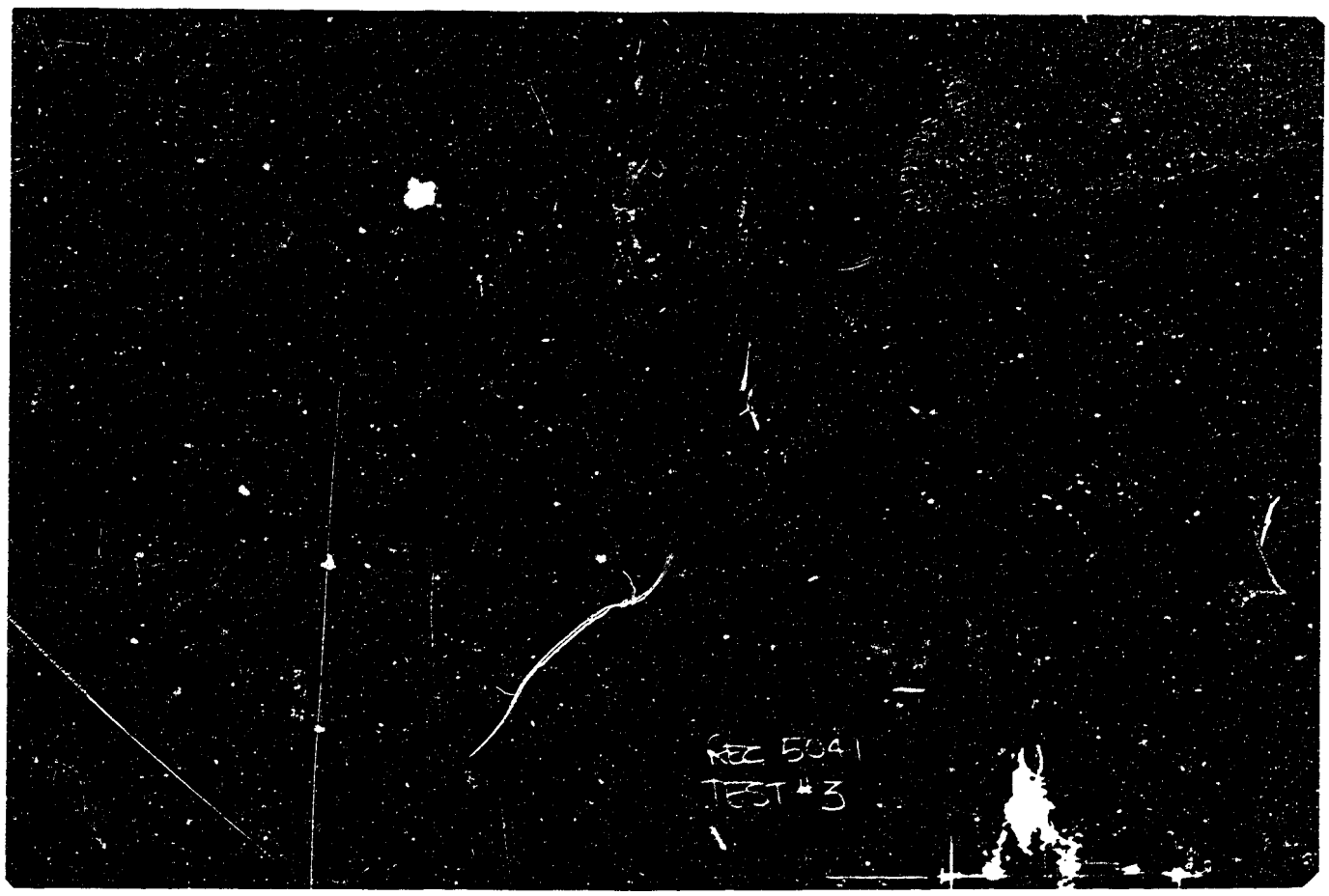
TOTAL TAIL PIPE 141.90

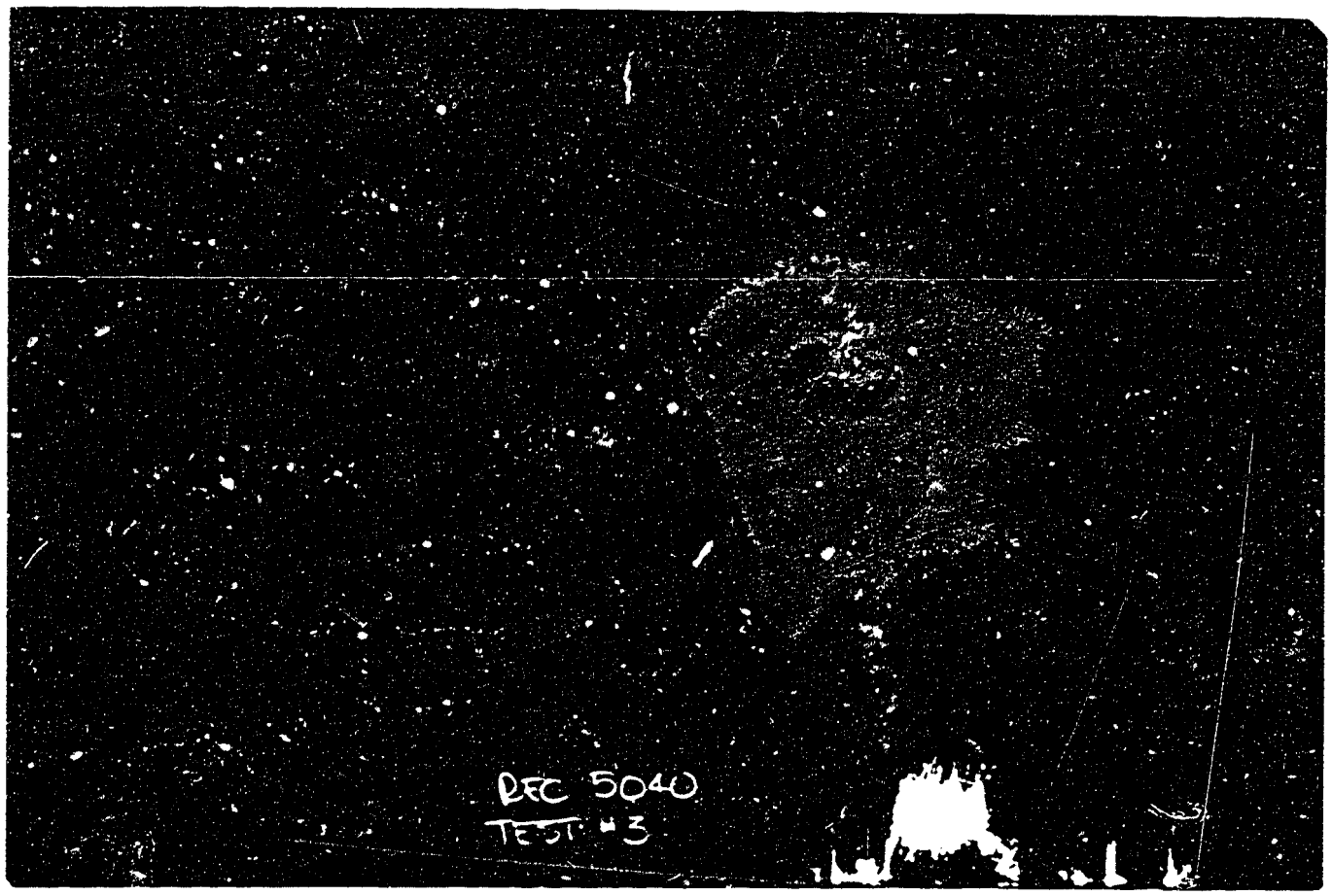
TOTAL TEST TOOL 534.28

BST CHARTS FOR COMPARATIVE VISUAL ANALYSIS

HIGH PERMEABILITY STRONG DAMAGE EFFECT | HIGH PERMEABILITY NO DAMAGE EFFECT | MEDIUM PERMEABILITY STRONG DAMAGE EFFECT | MEDIUM PERMEABILITY NO DAMAGE EFFECT | LOW PERMEABILITY STRONG DAMAGE EFFECT | LOW PERMEABILITY NO DAMAGE EFFECT




TEST #3


REC 5040
TEST #3


REC 5041
TEST #3

TESTING REPORT

DRILL-STEM TEST DATA

Well Name TRIAD B.P. ARCO C.C. HUME R.		Test No FOUR
Well Number 0-62-66-00-129-00		Zone Tested
Company TRIAD OIL CO. LTD.		Interval 1800' - 2150'
Comp Rep E. POPOWICH	Tester JOE HUGI	Date FEB. 27/70

Type of Test DUAL STRADDLE BY PASS R F S Tool No 19 (DRAINED AT RIG)

Preflow 5 mins ISI 56 mins. Flow 60 mins FSI 53 mins

Specify Inside or Outside	INS REC No 5040	OUT REC No 5041	REC No
	3600 RANGE 12 HR CLOCK	3600 RANGE 12 HR CLOCK	RANGE HR CLOCK
DEPTH	1732	1816	
Initial Hydro Mud Press	883	912	
Initial Shut-In Press	588	617	
Initial Flow Press	35	68	
Final Flow Press	42	71	
Final Shut In Press	322	366	
Final Hydro Mud Press	853	878	

Mud Drop NIL Fluid Loss 3 Mud Weight 9.5
Viscosity 120 Temperature °F 80 Net Pay Tested
Top Packer Depth 1800' Bottom Packer Depth 2150' Total Depth 2291'
Drill Pipe Size 4" Wt. 13.75 Drill Collar I.D. 2 7/8" Ft. Run 113
Surface Choke Size CLOSED Bottom Choke Size 1/4" Main Hole Size 7 7/8"
Anchor Size 4 1/2" OD Rat Hole Size Feet of Rat Hole
Cushion Amount Type Rubber Size 6 5/8"

Fluid Recovery Total Feet 40 feet
Recovered 40 Feet of Drilling Mud
Recovered Feet of
Recovered Feet of
Recovered Feet of 2 samples from the fluid recovery were taken and given
Recovered Feet of to Oil Company Rep.

Gas Recovery How Measured Riser size:

mins Temp. °F Press Rdg. psi Orifice Size = MCF/Day
mins Temp. °F Press Rdg. psi Orifice Size = MCF/Day
mins Temp. °F Press Rdg. psi Orifice Size = MCF/Day
mins Temp. °F Press Rdg. psi Orifice Size = MCF/Day
mins Temp. °F Press Rdg. psi Orifice Size = MCF/Day
mins Temp. °F Press Rdg. psi Orifice Size = MCF/Day

Bleed Out Time for Drill Pipe

REMARKS VERY WEAK AIRBLOW ON PREFLOW. VERY WEAK AIRBLOW ON INITIAL FLOW, DEAD AFTER 6 MINS.

A Core Lab Gas Cont. No. Chem - Geo. Lab Gas Cont. No

BJ SERVICES

TESTING REPORT

48 LANDING SUB		
48 CHANGEOVER	JARS	6.00
48 TOOL OR P.O. SUB		
CO SUB		1.00
SHUT IN TOOL		5.50
R.F.S. No.	19	3.35
R.F.S. No.		
HYDRAULIC TOOL		7.20
JARS		
RECORDER No.	5040 INS	5.00 DEPTH 1782
RECORDER No.		DEPTH
SAFETY JOINT		1.75
BY PASS SUB		1.00
1. PACKER DEPTH 1794 — PACKER		6.00
2. PACKER DEPTH 1800 — PACKER		5.00 — TOTAL TOOL ABOVE INTERVAL 11.90
ANCHOR—SPECIFY		1.00
	Perfs	14.00
BLANK OFF OR BY PASS SUB		1.00
RECORDER No.	5041 OUTS	DEPTH 1816
	Drill Collars-COS	331.68
3. PACKER DEPTH 2150 — PACKER		3.00 — TOTAL INTERVAL 350.63
		3.00
4. PACKER DEPTH 2156 — PACKER		6.00
ANCHOR—SPECIFY		
	Perfs	3.00
RECORDER No.		DEPTH
	Drill Pipe	122.90
	Perfs	4.00
TOTAL DEPTH 2291 — BULLNOSE		3.00

TOTAL TAIL PIPE 142.90

TOTAL TEST TOOL 531.38

DST CHARTS FOR COMPARATIVE VISUAL ANALYSIS

HIGH PERMEABILITY STRONG DAMAGE EFFECT | HIGH PERMEABILITY NO DAMAGE EFFECT | MEDIUM PERMEABILITY STRONG DAMAGE EFFECT | MEDIUM PERMEABILITY NO DAMAGE EFFECT | LOW PERMEABILITY STRONG DAMAGE EFFECT | LOW PERMEABILITY NO DAMAGE EFFECT

DST PRESSURE INCREMENTS

Recorder No. 5040 Depth 1782

Points	INITIAL CIP				FINAL CIP			
	Time Defl.	T + θ	$\frac{T+\theta}{\theta}$	PSIG	Time Defl.	T + θ	$\frac{T+\theta}{\theta}$	PSIG
1	0			26	0			42
2	5			114	5			47
3	10			233	10			62
4	15			314	15			79
5	20			380	20			97
6	25			429	25			120
7	30			466	30			144
8	35			498	35			174
9	40			523	40			204
10	45			548	45			238
11	50			565	50			272
12	55			583	55			304
13	56			589	58			332
14								
15								
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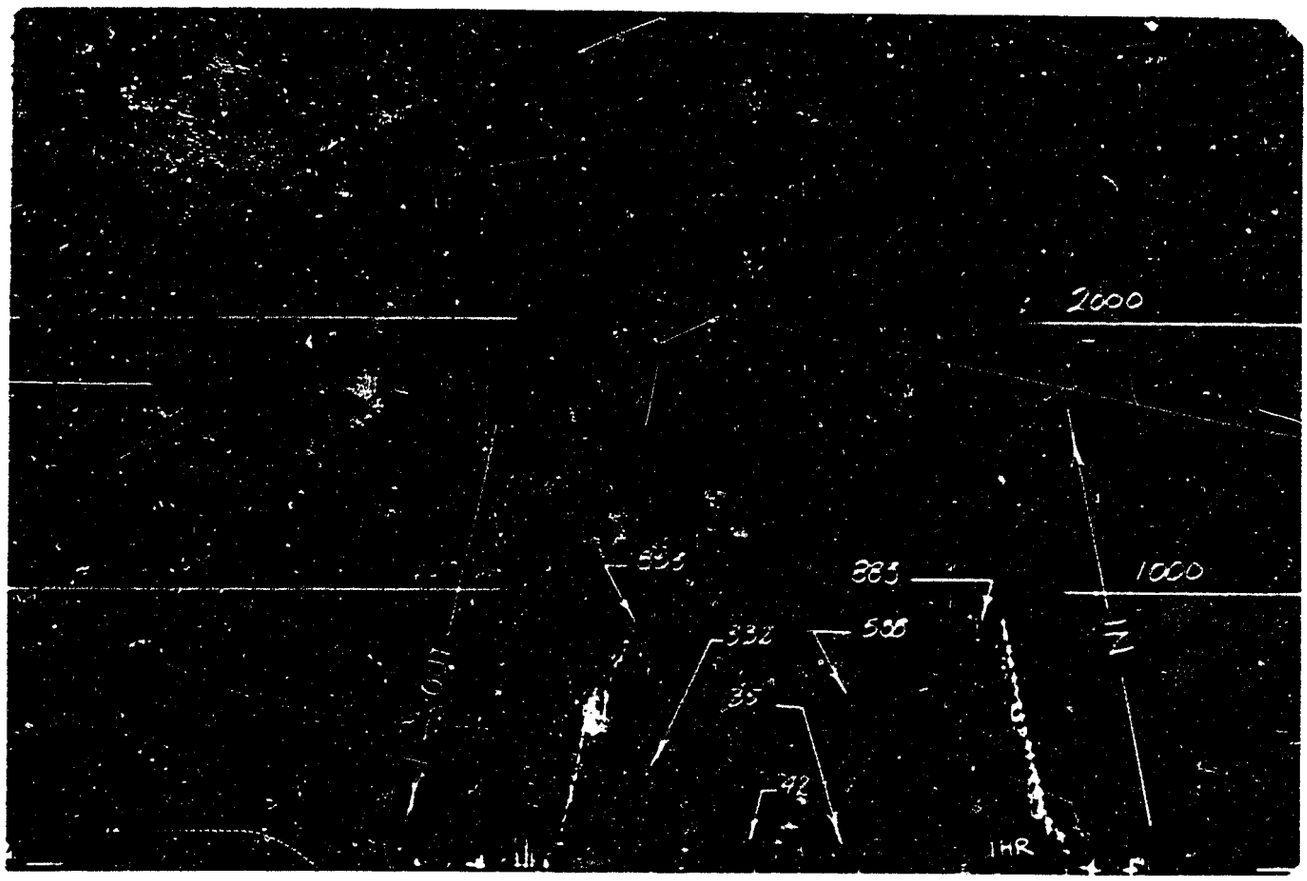
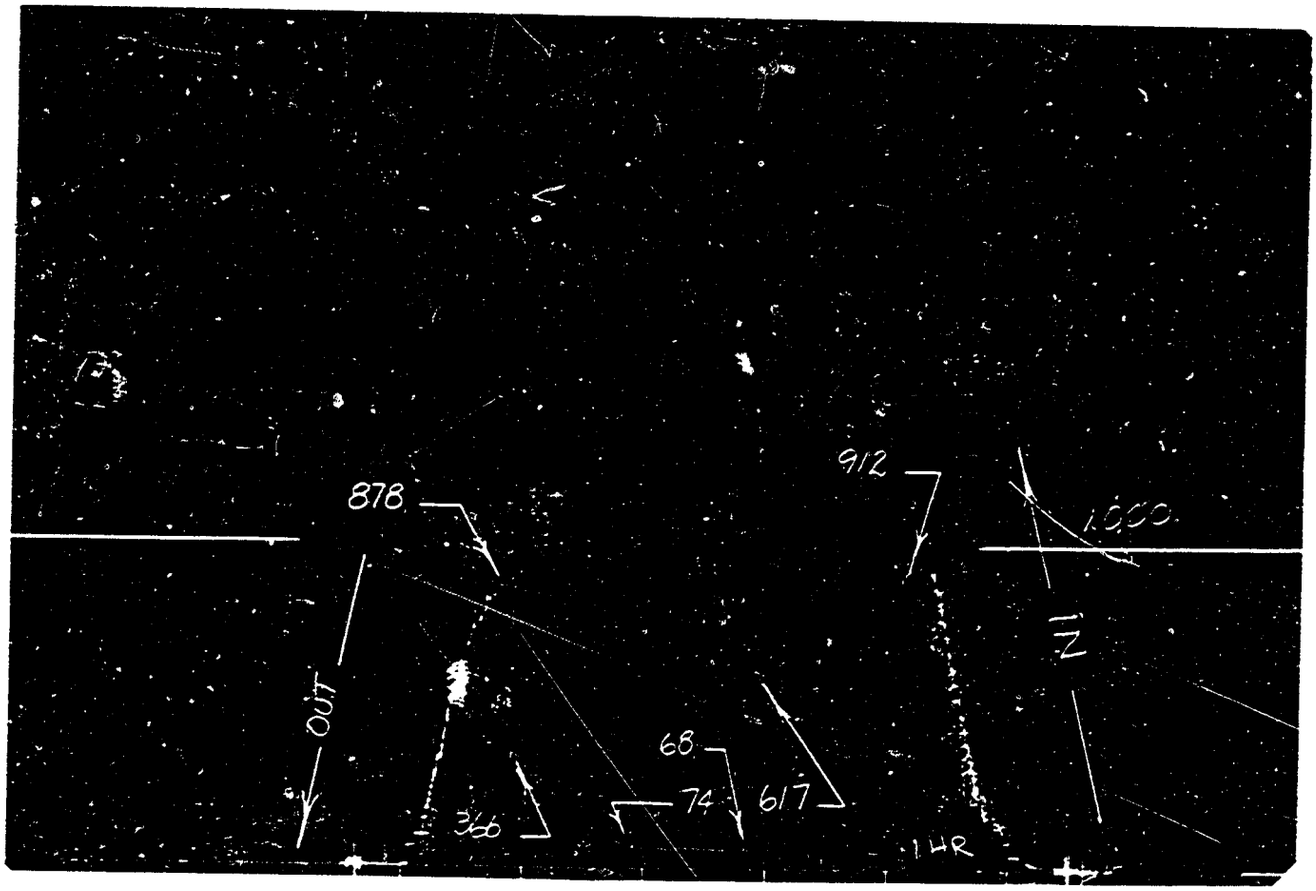
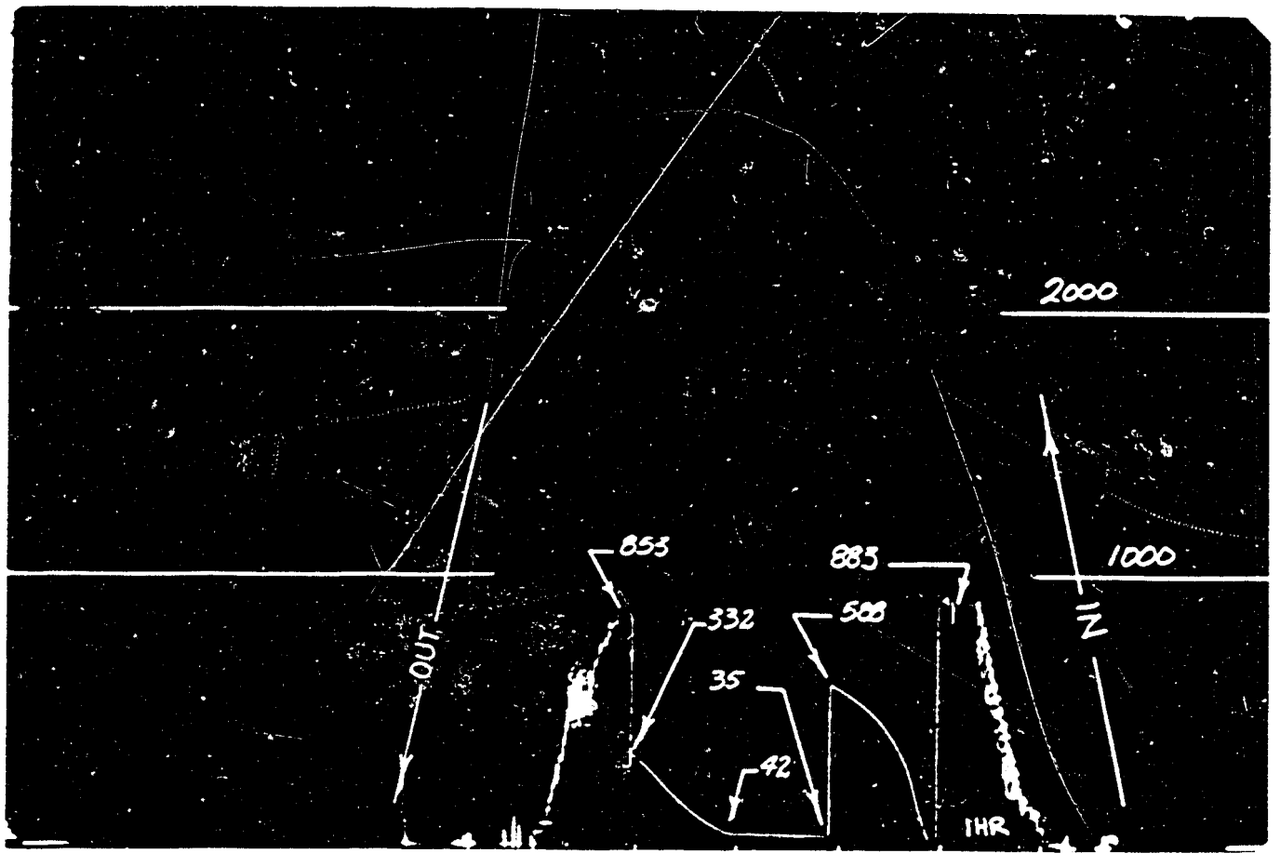
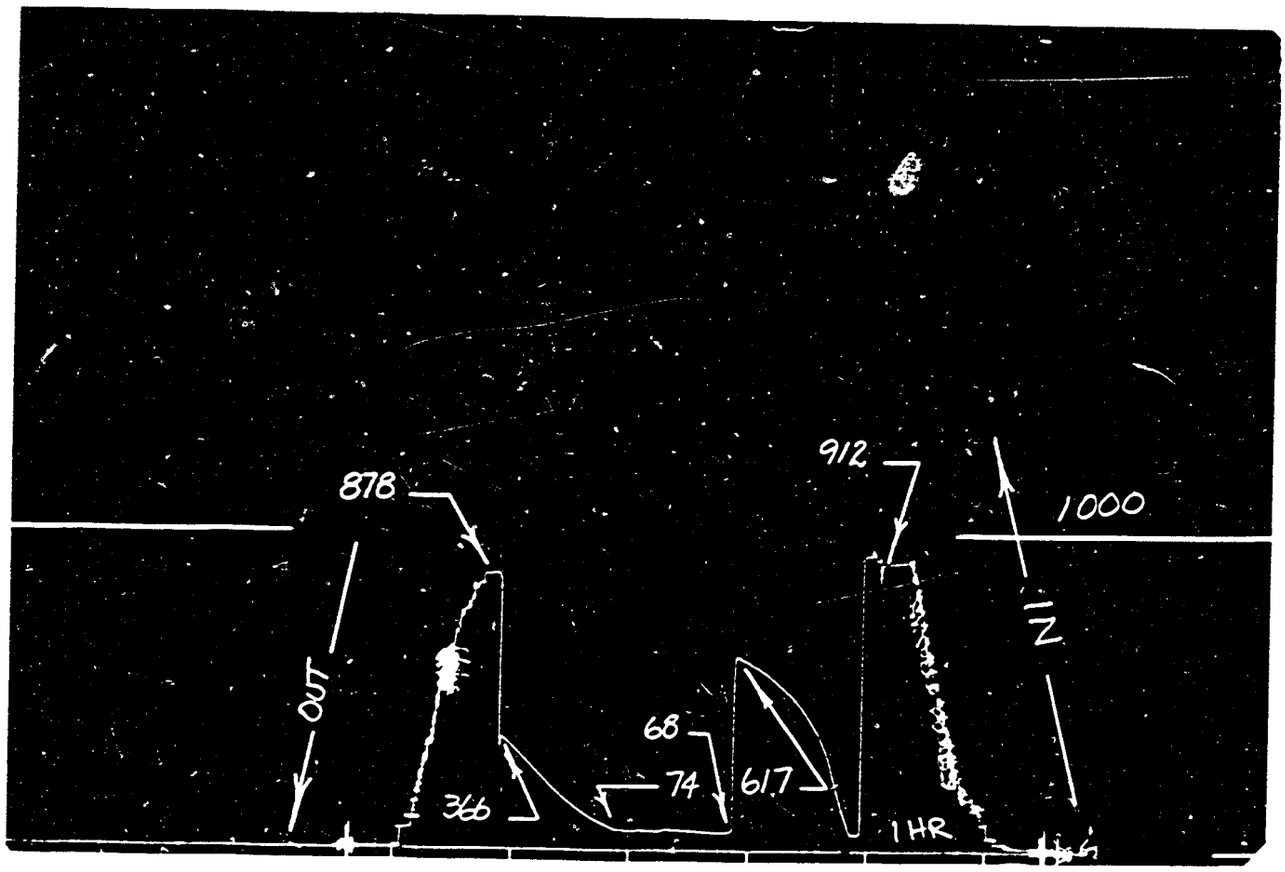
C


2000
1000
Z
OUT
1HR


912
878
1000
Z
OUT
68
74
617
366
1HR


2000
1000
N
OUT
853
332
35
42
883
508
1HR


878
912
1000
N
OUT
366
74
68
617
1HR

BJ

TESTING REPORT

DRILL-STEM TEST DATA

Well Name TRIAD BP ARCO CC HUME R			Test No FIVE
Well Number 0-62-66-00-129-000			Zone Tested REAR ROCK
Company TRIAD OIL COMPANY LTD.			Interval 3100' - 3140'
Comp Rep MR. S. KOHRACY MR. E. POPOVICH		Tester JOE HUGI	Date MARCH 12/70

Type of Test DUAL STRADDLE BY PASS R F S Tool No. 19 (Drained at Rig)

Preflow 5 mins. ISI 59 mins. Flow 65 mins. FSI 90 mins.

Specify Inside or Outside	INS REC No. 5060	OUT REC No. 5061	REC No.
	3600 RANGE 12 HR. CLOCK	3600 RANGE 12 HR. CLOCK	RANGE HR. CLOCK
DEPTH	3082	3133	
Initial Hydro Mud Press	1545	1570	
Initial Shut-In Press	1365	1382	
Initial Flow Press	669	1172	
Final Flow Press	1259	1280	
Final Shut-In Press	1309	1327	
Final Hydro Mud Press	1536	1559	

Mud Drop NIL Fluid Loss Mud Weight 9.6
Viscosity 73 Temperature °F 100 Net Pay Tested
Top Packer Depth 3100' Bottom Packer Depth 3140' Total Depth 4600'
Drill Pipe Size 4" Wt. 13.75 Drill Collar I.D. 2 7/8" Ft. Run 535
Surface Choke Size CLOSED Bottom Choke Size 3/4" Main Hole Size 7 7/8"
Anchor Size 4 1/2" OD Rat Hole Size Feet of Rat Hole
Cushion Amount Type Rubber Size 6 5/8"

Fluid Recovery Total Feet 2460
Recovered 1970 Feet of Drilling Mud
Recovered 490 Feet of Slightly Salty Drilling Mud
Recovered Feet of
Recovered Feet of 3 samples from the recovery were taken and left with Oil
Recovered Feet of Company Rep.

Gas Recovery How Measured Rear size

mins.	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day
mins.	Temp. °F	Press Rdg.	psi	Orifice Size	=	MCF/Day

Bleed Off Time for Drill Pipe

REMARKS: GOOD AIRBLOW ON PREFLOW. GOOD AIRBLOW ON INITIAL FLOW, DECREASING SLOWLY DEAD AFTER 55 MINS.

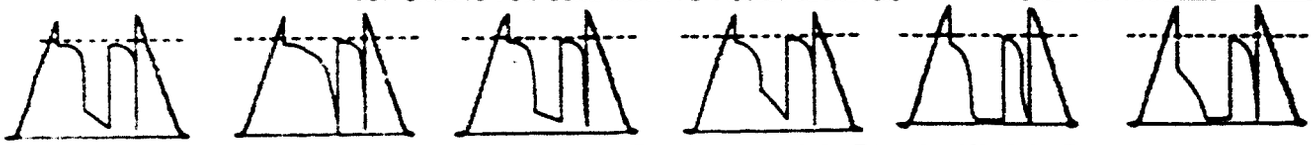
A Core Lab Gas Cont. No. Chem - Geo. Lab Gas Cont. No

BJ SERVICES

TESTING REPORT

4S LANDING SUB		
[redacted] Jars		6.00
4S TOOL OR P.O. SUB		
CO SUB		1.00
SHUT IN TOOL		1.50
R.P.S. No. 16		3.26
R.P.S. No.		
HYDRAULIC TOOL		2.50
JARS		
RECORDER No. 5020 INC		1.00 DEPTH 3035
RECORDER No.		DEPTH
SAFETY JOINT		1.76
BY PASS SUB		2.00
1. PACKER DEPTH 3094 — PACKER		6.00
2. PACKER DEPTH 3100 — PACKER		6.00 — TOTAL TOOL ABOVE INTERVAL 43.20
ANCHOR—SPECIFY		3.00
Perfs		31.00
[redacted] BY PASS SUB		1.00
RECORDER No. 5011 OMNI		6.00 DEPTH 3133
3. PACKER DEPTH 3140 — PACKER		3.00 — TOTAL INTERVAL 40.00
		3.00
4. PACKER DEPTH 3146 — PACKER		6.00
ANCHOR—SPECIFY		
Perfs		10.00
RECORDER No.		DEPTH
Drilling Pipe		1127.36
Perfs		1.00
TOTAL DEPTH 3400 — BULLNOSE		3.00 — TOTAL TAIL PIPE 1160.36
		TOTAL TEST TOOL 1552.66

DST CHARTS FOR COMPARATIVE VISUAL ANALYSIS



HIGH PERMEABILITY STRONG DAMAGE EFFECT | HIGH PERMEABILITY NO DAMAGE EFFECT | MEDIUM PERMEABILITY STRONG DAMAGE EFFECT | MEDIUM PERMEABILITY NO DAMAGE EFFECT | LOW PERMEABILITY STRONG DAMAGE EFFECT | LOW PERMEABILITY NO DAMAGE EFFECT

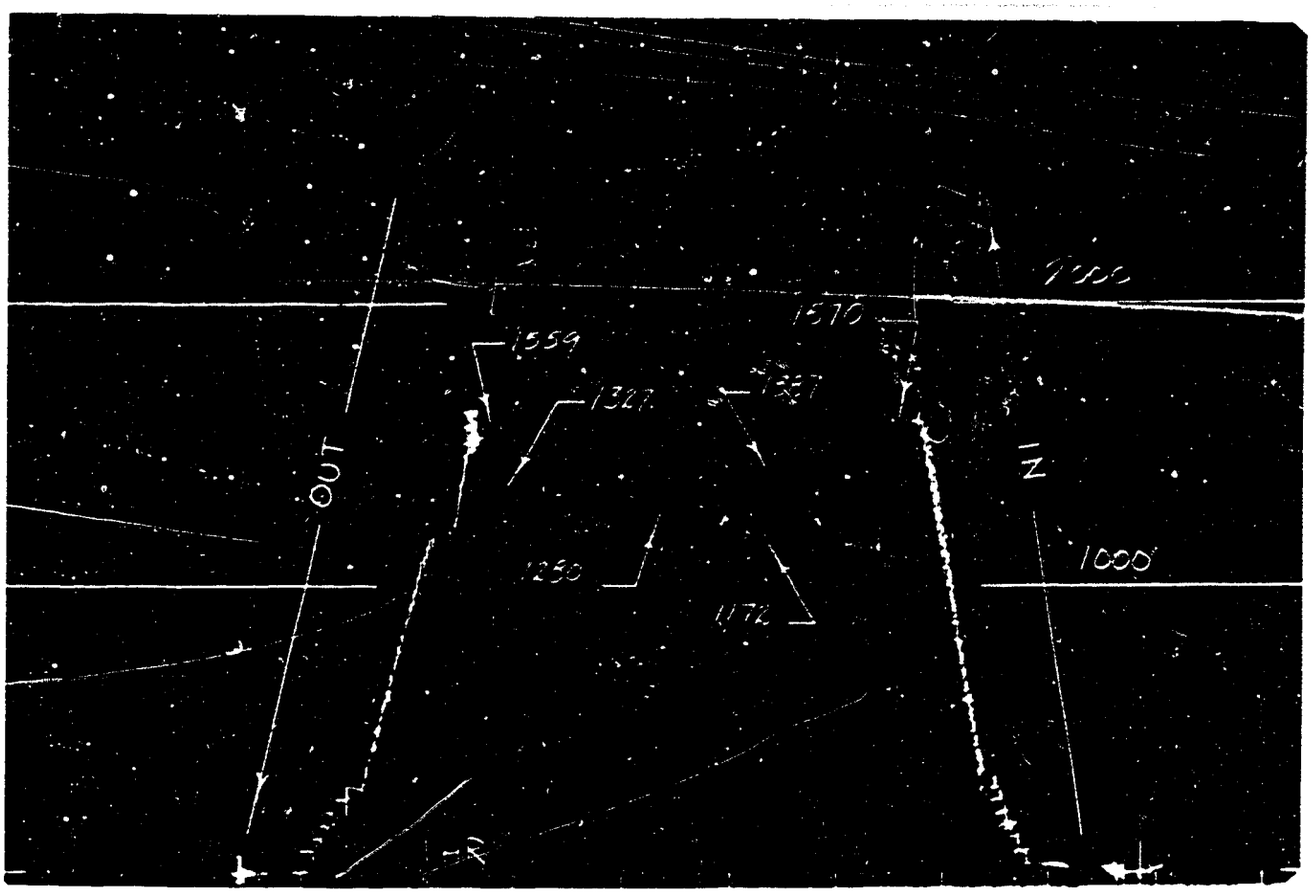
DST PRESSURE INCREMENTS

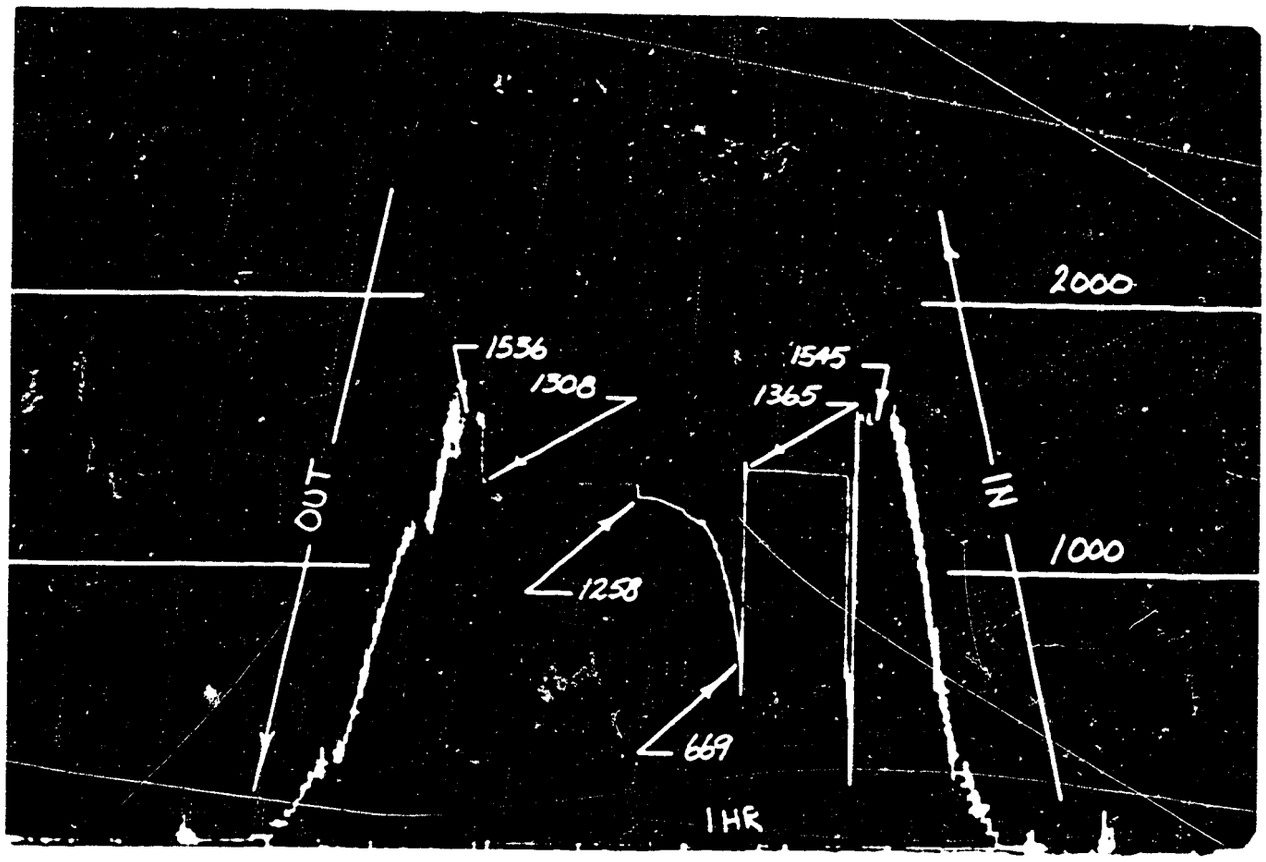
Recorder No. [illegible] Depth [illegible]

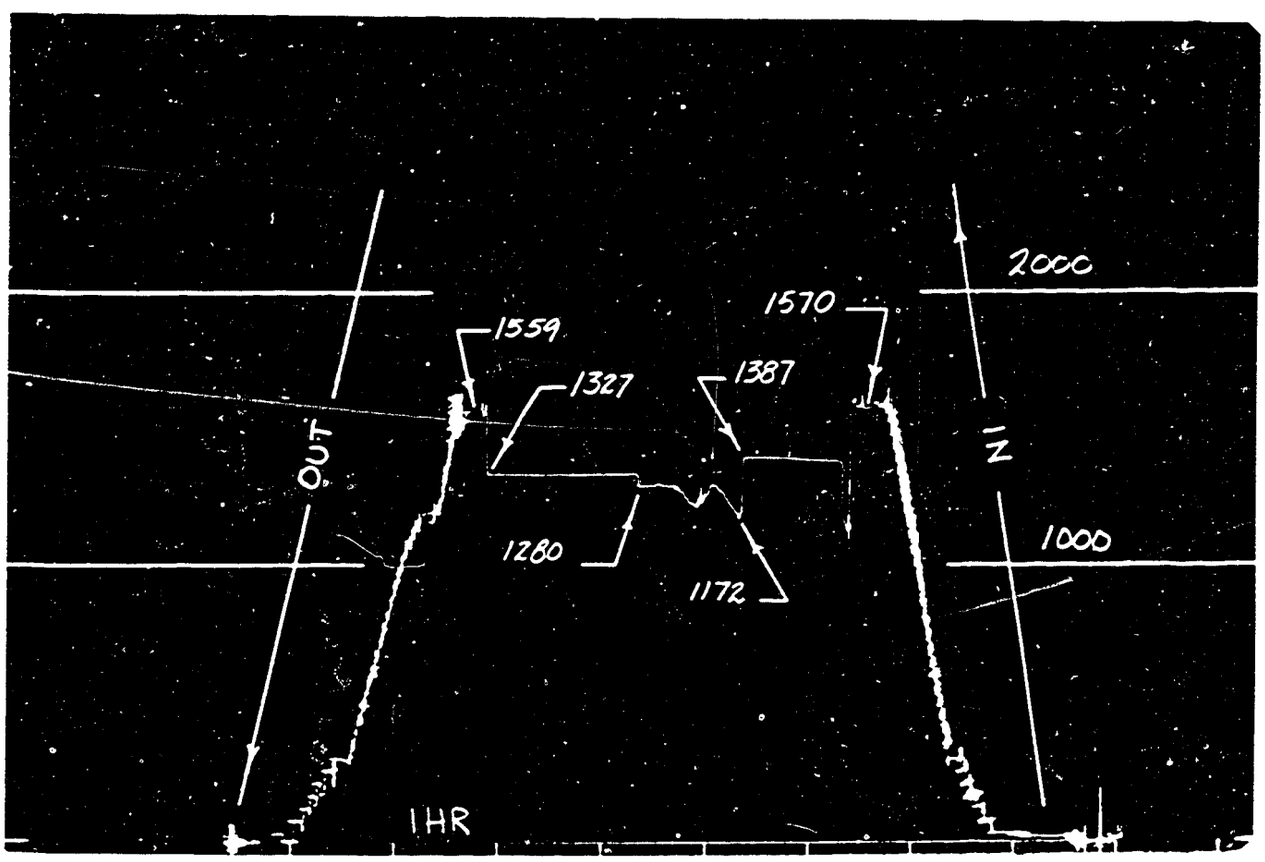
Points	INITIAL CIP				FINAL CIP			
	Time Defl.	T + θ	T + θ / θ	PSIG	Time Defl.	T + θ	T + θ / θ	PSIG
1	0			636	0			1258
2	5			1350	5			1302
3	10			1350	10			1302
4	15			1355	15			1306
5	20			1358	20			1306
6	25			1359	25			1304
7	30			1362	30			1304
8	35			1365	35			1304
9	40			1365	40			1304
10	45			1365	45			1304
11					50			1304
12					55			1305
13					60			1305
14					65			1305
15					70			1306
16					75			1307
17					80			1307
18					85			1308
19					90			1308
20					91			1308
21								
22								
23								
24								

C


2000
1536
1508
1545
1505
N
1000
1258
669
IHR


2000
1570
1559
1327
1287
OUT
N
1000
1250
1172
IHR


2000
1536
1308
1545
1365
OUT
N
1000
1258
669
1HR


2000
1570
1559
1327
1387
OUT
N
1280
1000
1172
1HR

TESTING REPORT

DRILL-STEM TEST DATA

Well Name	Triad B.P. Arco C.C. Hume R.	Test No	6
Well Number	00-62-66-00-129-000	Zone Tested	Running
Company	Triad Oil Company Limited	Interval	4390' - 4600'
Comp Rep	Mr. S. Kerkeri Mr. R. Popowich — Tester: Joe Hugi	Date	March 13, 1970

Type of Test: Dual Bottom Hole R F S Tool No. 19 Drained at Rig

Preflow 6 mins. ISI 59 mins. Flow 60 mins. FSI 57 mins.

Specify Inside or Outside	INS REC No. 5040	OUT REC No. 5041	REC No.
	3600 RANGE 12 HR CLOCK	3600 RANGE 12 HR CLOCK	RANGE HR CLOCK
DEPTH	4373	4414	
Initial Hydro Mud Press	2134	2143	
Initial Shut-In Press	1986	2000	
Initial Flow Press	1270	1292	
Final Flow Press	1919	1930	
Final Shut-In Press	1976	1992	
Final Hydro Mud Press	2121	2128	

Mud Drop NIL Fluid Loss Mud Weight 9.6
Viscosity 75 Temperature °F 108 Net Pay Tested
Top Packer Depth 4384' Bottom Packer Depth 4390' Total Depth 4600
Drill Pipe Size 4" Wt. 13.75 Drill Collar I.D. 2 7/8" Ft. Run 535
Surface Choke Size CLOSED Bottom Choke Size ½" Main Hole Size 7 7/8"
Anchor Size 4¾" OD Rat Hole Size Feet of Rat Hole
Cushion Amount Type Rubber Size 6 5/8"

Fluid Recovery Total Feet 4236
Recovered 650 Feet of Muddy Sulphurous Salt Water
Recovered 3586 Feet of Clean Sulphurous Salt Water (113000 PPM)
Recovered Feet of
Recovered Feet of
Recovered Feet of

Gas Recovery How Measured Riser size:

mins. Temp. °F Press Rdg. psi Orifice Size = MCF/Day
mins. Temp. °F Press Rdg. psi Orifice Size = MCF/Day
mins. Temp. °F Press Rdg. psi Orifice Size = MCF/Day
mins. Temp. °F Press Rdg. psi Orifice Size = MCF/Day
mins. Temp. °F Press Rdg. psi Orifice Size = MCF/Day
mins. Temp. °F Press Rdg. psi Orifice Size = MCF/Day

Bleed Off Time for Drill Pipe 2 MINS.

REMARKS: Good airblow on preflow. Good airblow during flow period, slowly decreasing throughout test.

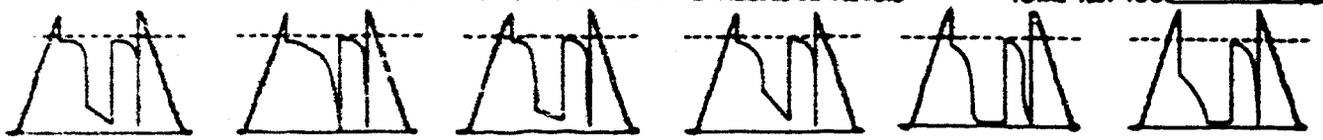
A Core Lab Gas Cont. No. Chem - Geo. Lab Gas Cont. No

BJ SERVICES

TESTING REPORT

4S LANDING SUB		
Surliff Jars		6.00
4S TOOL OR P.O. SUB		
CO SUB		1.00
SHUT IN TOOL		5.50
R.F.S. No.	19	3.35
R.F.S. No.		
HYDRAULIC TOOL		7.20
JARS		
RECORDER No.	5040 INS	5.00 DEPTH 4373
RECORDER No.		DEPTH
SAFETY JOINT		2.75
BY PASS SUB		
1. PACKER DEPTH 4394 — PACKER		6.00
2. PACKER DEPTH 4390 — PACKER		5.00 — TOTAL TOOL ABOVE INTERVAL 40.90
ANCHOR—SPECIFY		1.00
Perfs		22.00
BLANK OFF OR BY PASS SUB		1.00
RECORDER No.	5041 OUTS	DEPTH 4411
CO SUB		1.00
Drill Collars		180.31
3. PACKER DEPTH — PACKER		TOTAL INTERVAL 210.31
4. PACKER DEPTH — PACKER		
ANCHOR—SPECIFY		
RECORDER No.		DEPTH
CO SUB		1.00
PERFS		1.00
TOTAL DEPTH 4600 — BULLNOSE		3.00 — TOTAL TAIL PIPE 210.31
		TOTAL TEST TOOL 70.80

DST CHARTS FOR COMPARATIVE VISUAL ANALYSIS



HIGH PERMEABILITY STRONG DAMAGE EFFECT | HIGH PERMEABILITY NO DAMAGE EFFECT | MEDIUM PERMEABILITY STRONG DAMAGE EFFECT | MEDIUM PERMEABILITY NO DAMAGE EFFECT | LOW PERMEABILITY STRONG DAMAGE EFFECT | LOW PERMEABILITY NO DAMAGE EFFECT

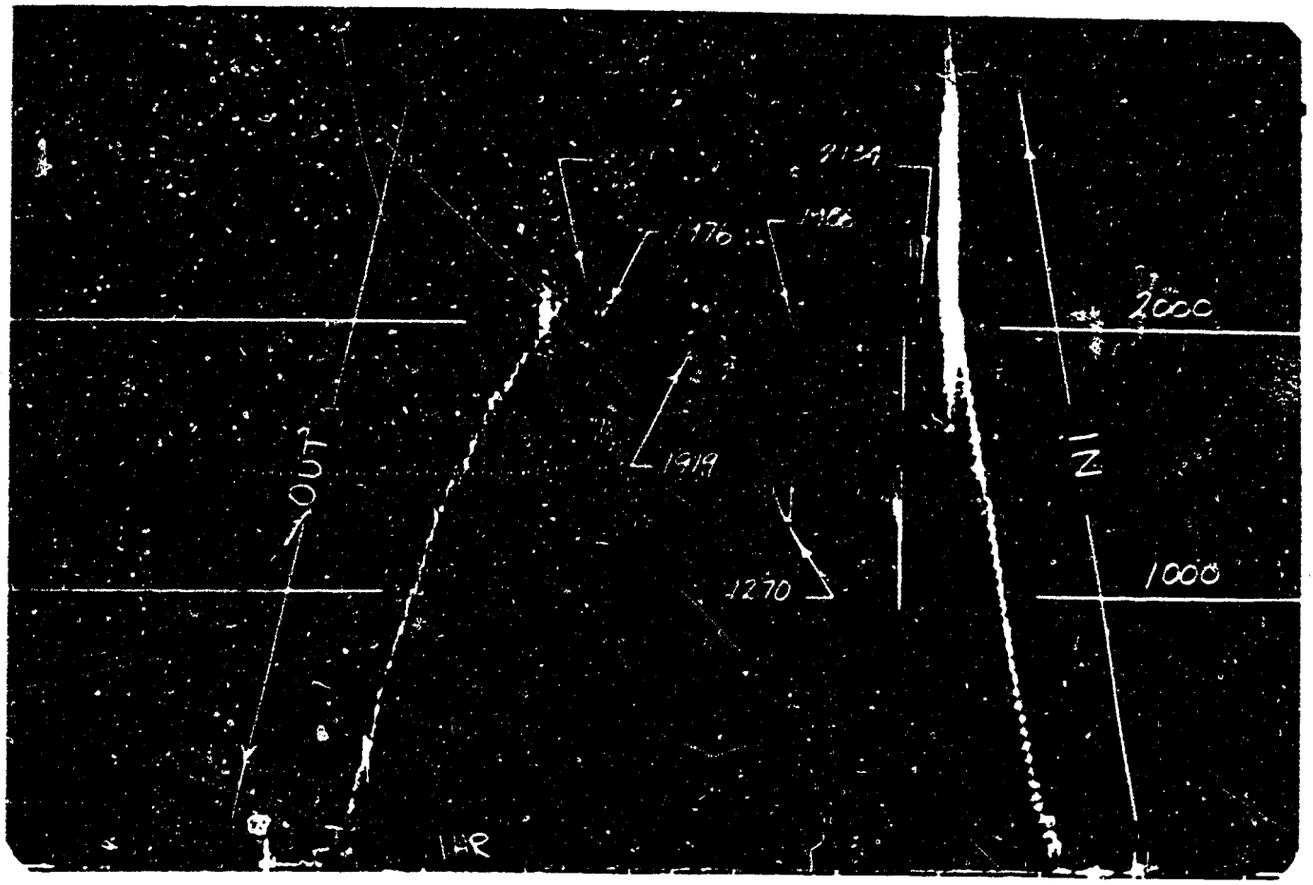
B

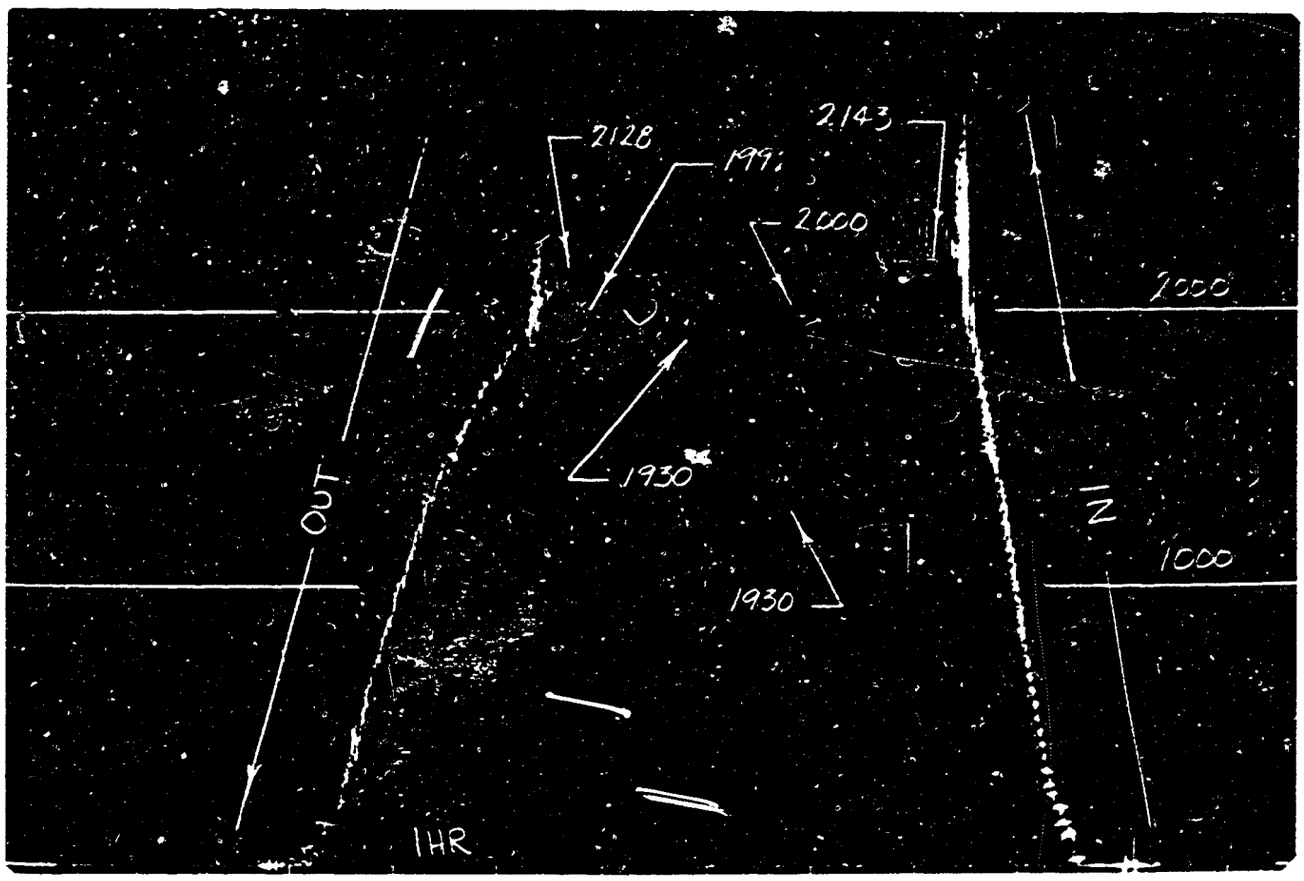
DST PRESSURE INCREMENTS

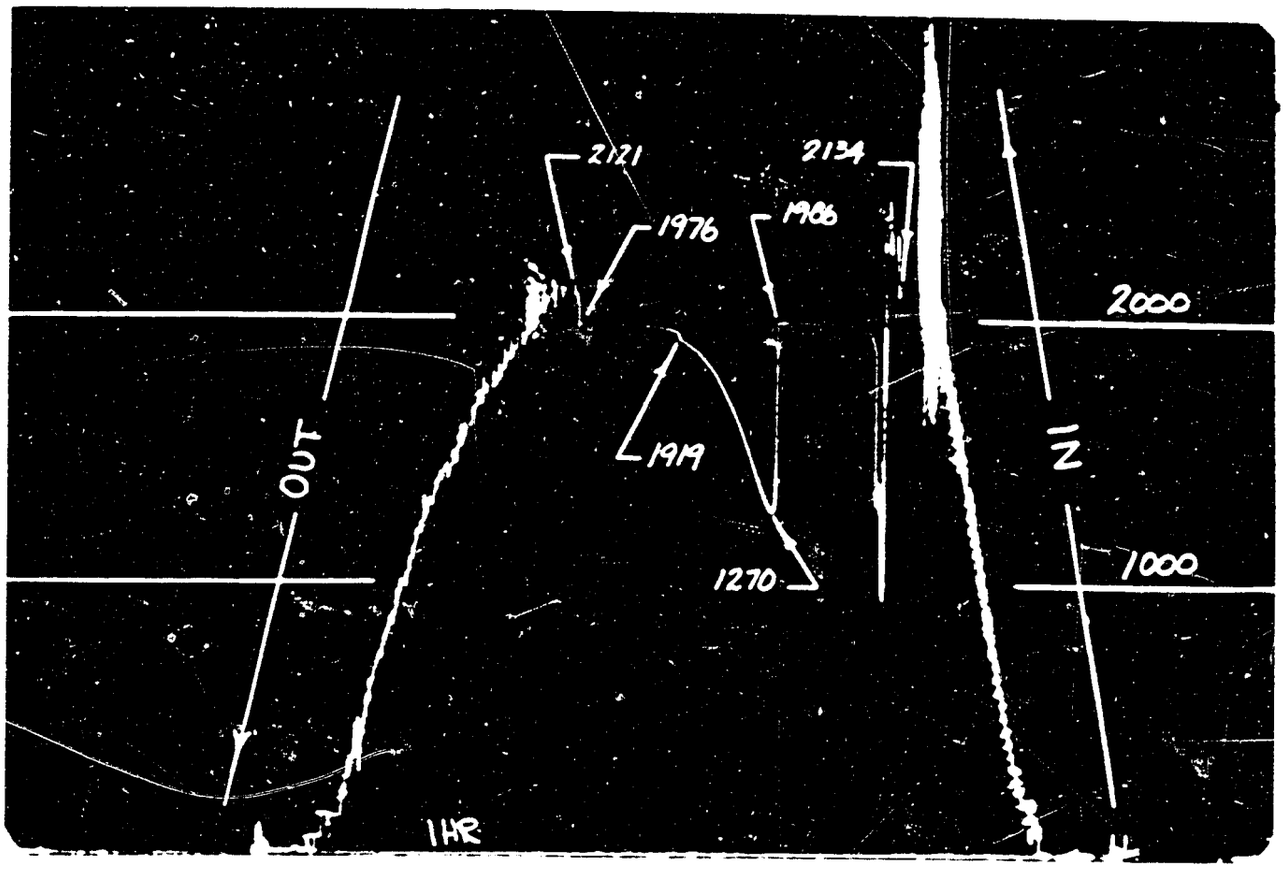
Recorder No. 4040 Depth 4373

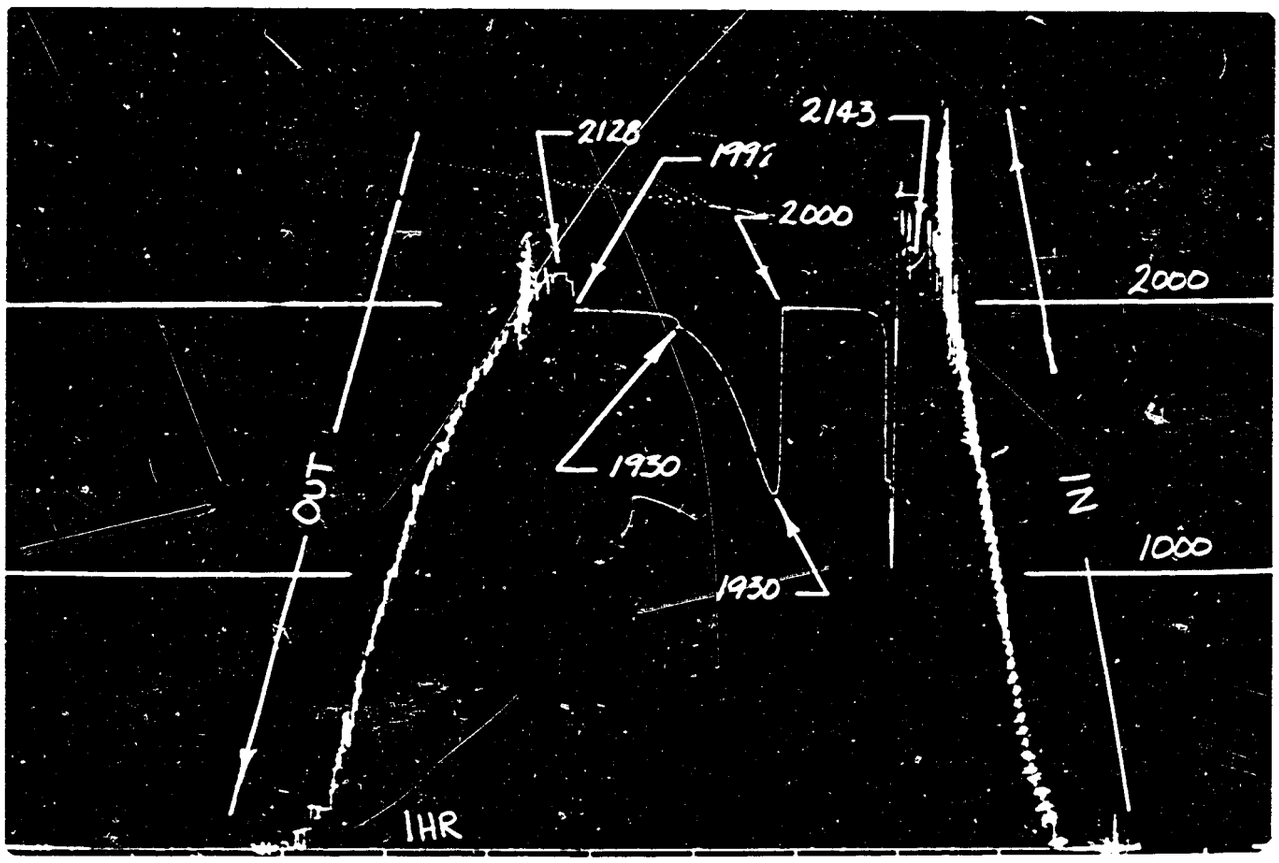
Points	INITIAL CIP				FINAL CIP			
	Time Delt.	T + θ	T + θ / θ	PSIG	Time Delt.	T + θ	T + θ / θ	PSIG
1	0			1927	0			1919
2	5			1958	5			1953
3	10			1960	10			1960
4	15			1976	15			1963
5	20			1972	20			1966
6	25			1980	25			1969
7	30			1982	30			1971
8	35			1982	35			1973
9	40			1984	40			1974
10	45			1985	45			1975
11	50			1985	50			1976
12	55			1986	55			1976
13	59			1986	57			1976
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

C


2124
1919
1270
2000
1000
OUT
1HR


2143
2128
2000
1930
1930
2000
1000
OUT
1HR


2121
2134
1976
1906
2000
OUT
1919
Z
1270
1000
1HR


2143
2128
1997
2000
2000
1930
OUT
Z
1000
1930
1HR

CHEMICAL ANALYSIS

FOR

TRIAD OIL CO. LTD.

TRIAD BP ARCO CC HUME R O-62
WILDCAT
NORTHWEST TERRITORIES

CORE LABORATORIES - CANADA LTD.

Petroleum Reservoir Engineering

CALGARY - EDMONTON - REGINA

CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

Company: Triad Oil Co. Ltd. Page: 1 of 3

Well: Triad BP ARCO CC Hume R 0-62 File: CAL-3-1884

Field: Wildcat, Northwest Territories Analyst: DS

Location: 65° 51'46" N 129° 12'04" W Elevation: K.B. 285' Grd. 272'

Formation: Ramparts Depth: 1630' - 1707'

Sampled from: DST #1 (RFS Tool) by:

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

Date sampled: Feb. 19/70 Date received: March 23/70 Date analysed: March 25/70

Container pressure: Mud: Water cushion:

Recovery or flowrate: 200' Drilling Mud

Resistivity 3.29 Ohm-meters @ 75°F

CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

Company: Triad Oil Co. Ltd. Page: 2 of 3

Well: Triad BP ARCO CC Hume R 0-62 File: CAL-2-1884

Field: Wildcat, Northwest Territories Analyst: DS

Location: 65° 51'46" N 129° 12'04" W Elevation: K.B. 285' Grd. 272'

Formation: Depth: 1700' - 1812'

Sampled from: DST #2 (RFS Tool #19) by:

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

Date sampled: Feb. 22/70 Date received: March 23/70 Date analysed: March 25/70

Container pressure: Mud: Water cushion:

Recovery or flowrate: 10' Drilling Mud

Resistivity 2.60 Ohm-meters @ 75°F

CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

Company: Triad Oil Co. Ltd.

Page: 3 of 3

Well: Triad BP ARCO CC Hume R 0-62

File: CAL-2-1884

Field: Wildcat, Northwest Territories

Analyst: DS

Location: 65° 51'46" N 129° 12'04" W

Elevation: K.B. 285' Grd. 272'

Formation: Ramparts

Depth: 1800' - 2150'

Sampled from: DST #4 (RST Tool #19)

by:

Sampling pressure: psig

Sampling temp.: °F

Ambient temp.: °F

Date sampled: Feb. 27/70

Date received: March 23/70

Date analysed: March 25/70

Container pressure:

Mud:

Water cushion:

Recovery or flowrate: 40' Drilling Mud

Resistivity 2.05 Ohm-meters @ 75°F

CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

Company: Triad Oil Co. Ltd. Page: 1 of 2

Well: Triad BP ARCO CC Hume R O-62 File: CAL-2-1853

Field: Wildcat, Northwest Territories Analyst: AH

Location: 65° 51'46" N 129° 12'64" W Elevation: K.B. 285' Grd. 272'

Formation: Bear Rock Depth: 3100' - 3140'

Sampled from: DST #5 (Sample #3-RFS Tool) by:

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

Date sampled: March 12/70 Date received: March 19/70 Date analysed: March 25/70

Container pressure: Mud: Water cushion:

Recovery or flowrate: 1970' Drilling Mud, 490' Slightly Salty Drilling Mud.

Chloride	1,338 mg/liter
Resistivity	1.19 Ohm-meters @ 75°F

CORE LABORATORIES – CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

WATER ANALYSIS

File CAL-2-1853 Page 2 of 2

Company Triad Oil Co. Ltd.

Well Triad BP ARCO CC Hume R 0-62 K.B. Grd.

Location 65° 51'46" N 129° 12'64" W Field Wildcat Province N.W.T.

Formation Ronning Interval 4390' - 4600'

Sampled from DST #6 (Sample #3-RFS Tool) by

Date sampled March 13/70 Date analysed March 25/70 Analyst AH

Recovery 650' Muddy Sulphurous Salt Water, 3586' Clean Sulphurous Salt Water.

Mud type Water cushion

Resistivity 0.060 Ohm-meters @ 75 °F

Specific gravity 1.0908 @ 60°F

pH 6.7 H_2S Nil

Refractive Index 1.354 @ 70°F

Total Solids:

Calculated 130,524 mg/liter

By evaporation @ 110°C - mg/liter

By evaporation @ 180°C - mg/liter

At ignition - mg/liter

MILLIGRAMS PER LITER

Na + K	Ca	Mg	Fe	Ba	Br	I	Cl	HCO_3	SO_4	CO_3	OH
43,758	5,148	1,125	Pres	Abs.	-	-	78,252	327	1,914	Nil	Nil

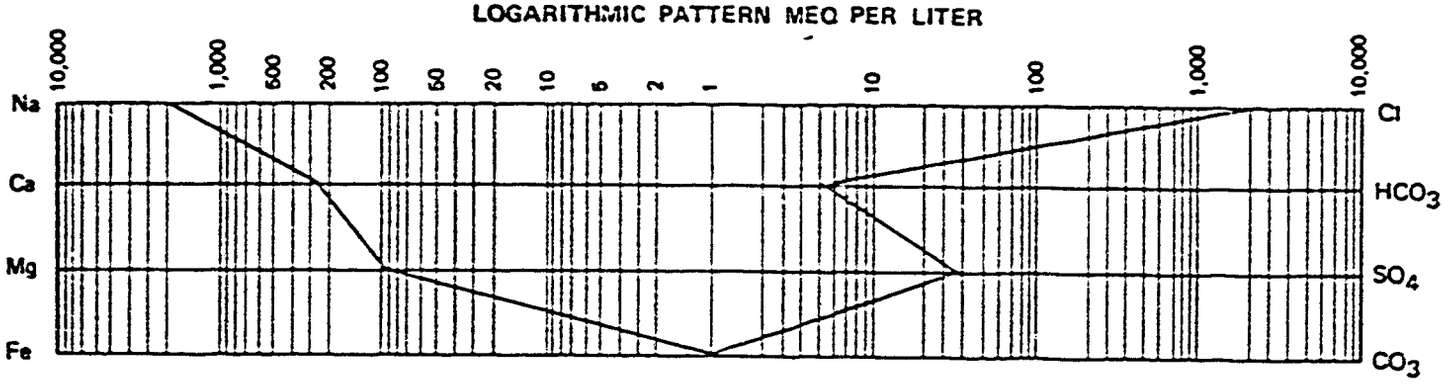
PER CENT CALCULATED SOLIDS

33.4	3.9	0.9	Pres	Abs.	-	-	60.0	0.3	1.5	Nil	Nil

MEQ PER LITER

1902.5	256.9	92.5	Pres	Abs.	-	-	2206.7	5.4	39.8	Nil	Nil

LOGARITHMIC PATTERN MEQ PER LITER



CORE ANALYSIS REPORT

FOR

TRIAD OIL CO. LTD.

TRIAD BP ARCO CC HUME R O-62
HUME RIVER AREA
NORTHWEST TERRITORIES

CORE LABORATORIES - CANADA LTD.
Petroleum Reservoir Engineering
CALGARY - EDMONTON - REGINA

CORE LABORATORIES – CANADA LTD.

COMPANY	TRIAD OIL CO. LTD.	**FORMATION**	RAMPARTS	**PAGE**	1 OF 3
WELL	TRIAD BP ARCO CC HUME R 0-62	**DRILLING FLUID**	WATER BASE MUD	**FILE**	CNP-4-5011
FIELD	WILDCAT, HUME RIVER AREA, N.W.T.	**ELEVATION**		**DATE REPORT**	FEB. 24/70
LOCATION	65 51' 46.00 N. LAT. 129 12' 04.00 W. LONG.	**ANALYSIS**	FULL DIAMETER	**ANALYSTS**	RM, CC
		REMARKS			

SAMPLE NUMBER	INTERVAL REPRESENTED, FEET		PERMEABILITY TO AIR, MILLIDARCYS			PERMEABILITY FEET	POROSITY, PER CENT	POROSITY FEET	DENSITY, gm/cc.		VISUAL EXAMINATION
	DEPTH	THICK	KMAX	K90°	KV				BULK	GRAIN	
	CORED INTERVAL 1653 - 1707										
	CORE NO. 1 1653 - 1707 REC. 53.0' 12 BOXES										
1	1653.0-54.0	1.0	.33	.31	-0.1	.33	3.8	3.80	2.58	2.68	I STY
2	1654.0-55.1	1.1	.33	.31	-0.1	.36	4.3	4.73	2.56	2.67	I STY
3	1655.1-56.1	1.0	.12	.10	-0.1	.12	1.9	1.90	2.64	2.69	I STY
4	1656.1-57.4	1.3	-0.1	-0.1	-0.1	-	2.0	2.60	2.64	2.69	I
5	1657.4-58.8	1.4	.58	.58	-0.1	.81	7.3	0.22	2.45	2.65	I STY
6	1658.8-60.1	1.3	.01	-0.1	-0.1	.01	2.3	2.99	2.63	2.69	I STY
7	1660.1-61.1	1.0	-0.1	-0.1	-0.1	-	.7	.70	2.68	2.70	DENSE
	1661.1-63.9	2.8	-	-	-	-	-	-	-	-	DENSE
8	1663.9-64.6	.7	.04	-0.1	-0.1	.03	1.3	.91	2.66	2.70	I STY
	1664.6-65.7	1.1	-	-	-	-	-	-	-	-	DENSE
9	1665.7-66.7	1.0	-0.1	-0.1	-0.1	-	1.8	1.80	2.63	2.68	I
	1666.7-81.2	14.5	-	-	-	-	-	-	-	-	DENSE
10	1681.2-82.7	1.5	-0.1	-0.1	-0.1	-	1.4	2.10	2.66	2.69	I
	1682.7-84.0	1.3	-	-	-	-	-	-	-	-	DENSE
11	1684.0-85.1	1.1	-0.1	-0.1	-0.1	-	1.7	1.87	2.64	2.69	I STY
12	1685.1-86.2	1.1	-0.1	-0.1	-0.1	-	1.0	1.10	2.70	2.72	FEW PPV
	1686.2-87.7	1.5	-	-	-	-	-	-	-	-	DENSE
13	1687.7-89.7	2.0	-0.1	-0.1	-0.1	-	.3	.60	2.69	2.70	DENSE
14	1689.7-91.2	1.5	-0.1	-0.1	-0.1	-	.4	.60	2.69	2.70	SCATTERED PPV STY
15	1691.2-92.8	1.6	-0.1	-0.1	-0.1	-	.4	.64	2.69	2.70	SCATTERED PPV
	1692.8-95.0	2.2	-	-	-	-	-	-	-	-	DENSE
16	1695.0-96.4	1.4	-0.1	-0.1	-0.1	-	1.2	1.68	2.66	2.70	I
17	1696.4-97.8	1.4	-0.1	-0.1	-0.1	-	.7	.98	2.67	2.69	SCATTERED PPV
18	1697.8-98.9	1.1	.11	.06	-0.1	.12	2.1	2.31	2.65	2.71	I
19	1698.9- .2	1.3	-0.1	-0.1	-0.1	-	1.2	1.56	2.64	2.67	I

CORE LABORATORIES – CANADA LTD.

COMPANY TRIAD OIL CO. LTD.
WELL TRIAD BP ARCO CC HUME R 0-62

FILE CNP-4-5011

SAMPLE NUMBER	INTERVAL REPRESENTED FEET		PERMEABILITY TO AIR MILLIDARCYS			PERMEABILITY FEET	POROSITY PER CENT	POROSITY FEET	DENSITY GM/CC		VISUAL EXAMINATION
	DEPTH	THICK	KMAX	K90°	KV				BULK	GRAIN	
20	1700.2- 1.9	1.7	.02	.02	-0.1	.03	3.5	5.95	2.58	2.68	I
21	1701.9- 2.9	1.0	.03	.03	-0.1	.03	3.3	3.30	2.61	2.70	I
22	1702.9- 4.7	1.8	-0.1	-0.1	-0.1	-	.9	1.62	2.67	2.69	DENSE
23	1704.7- 6.0	1.3	-0.1	-0.1	-0.1	-	1.0	1.30	2.68	2.71	DENSE
	1706.0- 7.0	1.0	-	-	-	-	-	-	-	-	LOST CORE

Form 51A

CORE LABORATORIES – CANADA, LTD.

Petroleum Reservoir Engineering

WELL: TRIAD BP ARCO CC HUME R 0-62

PAGE: 3 OF 3

FORMATION: RAMPARTS

FILE: CNP-4-5011

SUMMARY INTERVAL: 1653.0 - 1707.0

TOTAL FOOTAGE: 54.0

FOOTAGE ANALYZED: 29.6

FOOTAGE NOT ANALYZED: TOTAL 24.4 DENSE 23.4 LOST 1.0 DRILLED .0 *NABR .0 RUBBLE .0

SUMMARY OF ANALYZED CORE:

	FOOTAGE	% OF ANALYZED CORE	WEIGHTED AVERAGE POROS %	POROSITY FEET	WEIGHTED AVERAGE PERM MD	PERM FEET	WEIGHTED AVERAGE RESID OIL %	WEIGHTED AVERAGE TOT WATER %
TOTAL	29.6	100.00	1.87	55.26	.06	1.85	.00	.00
BY PERM RANGES:								
LESS THAN 0.10 Md.	24.0	81.08	1.35	32.30	.00	.11	.00	.00
0.10 0.49 Md.	4.2	14.19	3.03	12.74	.22	.93	.00	.00
0.50 0.99 Md.	1.4	4.73	7.30	10.22	.58	.81	.00	.00
1.00 9.99 Md.	.0	.00	.00	.00	.00	.00	.00	.00
GREATER THAN 9.99 Md.	.0	.00	.00	.00	.00	.00	.00	.00

*NOT ANALYZED BY REQUEST

CORE LABORATORIES · CANADA LTD. CORE LAB *Petroleum Reservoir Engineering*

COMPANY Triad Oil Co. Ltd. FIELD Wildcat, Hume River Area FILE CNP-4-5011

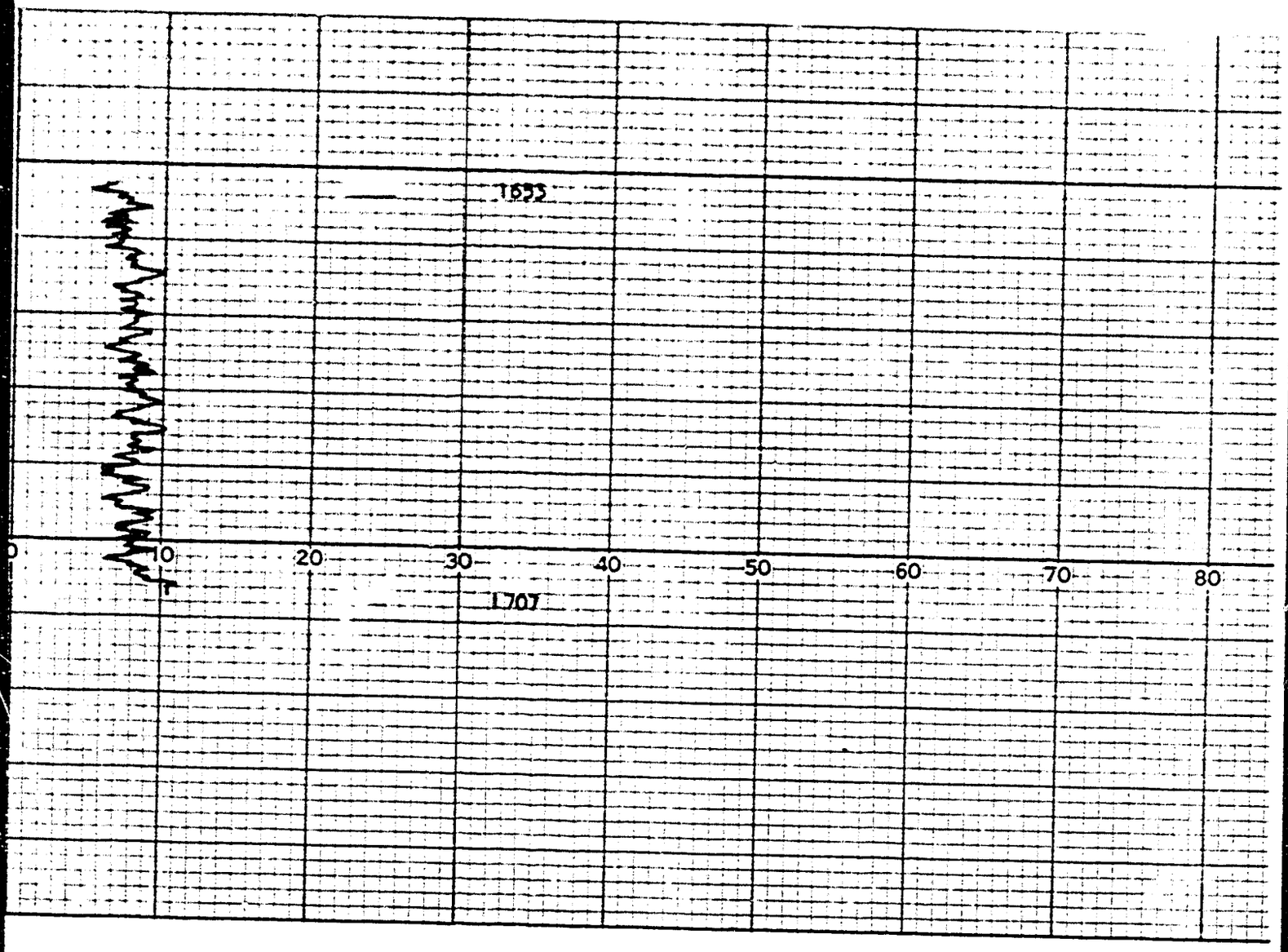
WELL Triad BP ARCO CC Hume R O-62 DATE

LOCATION 65 51' 46.00 N. Lat. 129 12' 04.00 W. Long. PROV Northwest Territories ELEV.

CORE-GAMMA CORRELATION

VERTICAL SCALE: 5" = 100'

T.C. 11 Sec. Sens. 5000 CPM



Trans BP ARCO Diamond R 0-62

DAILY DRILLING REPORT

REPORT NO. 34 DATE March 15/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL Co Ltd.	TRIAD B.P. ARCO CC Hume River	0-62	Hume River	N.W.T	Canada.

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5" O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Nsco	K-380	14
2.	Nsco	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	Jap	48 H40	3			87.37	Cemented
	8 5/8	Jap	24 J55	15	505	1225	517.22	to surface

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			8
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	½		
TRIPS	½		
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING	½		
WAITING ON CEMENT	6½	3	
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.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
	STANDS D.P.	FT.	BIT NO.		TIME	
	SINGLES D.P.	FT.	SIZE		WEIGHT	Plug #4
	D.C. I.D. O.D.	FT.	MFG.		VISC.-SEC	
	D.C. I.D. O.D.	FT.	TYPE		W.L.-C.C.	
	STB. BODY O.D.	FT.	NOZZLE NO.		FLTR. CK.	
	STB. BODY O.D.	FT.	NOZZLE SIZE		PH	
	RMR. BODY O.D.	FT.	SER. NO.		SD. CONT. %	
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT	
	BIT OR C.B.	FT.	DEPTH IN			
		FT.	TOTAL FTG.		MUD & CHEMICALS ADDED	
	KELLY DOWN	FT.	TOTAL HR. RUN		TYPE / AMT. / TYPE / AMT.	
	TOTAL	FT.	COND. OF BIT			
WT. OF STRING		LBS.	REAMER NO.		DRILLER	
			REAMER TYPE			

FROM	TO	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-C
565'	465'		75	sax const. cement + 2% CaCl2			Plug	down	@	3:00	am	
				Feet - 3.30 FT.								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	1830	1½	W.O.C Trip in hole to feel plug #3
1:30			Tagged plug #3 @ 1584' 16' high
1:30	2:00	½	Trip out to 565' for plug #4
2:00	2:30	½	Circulate for cement and hookup to run Plug #4
2:30	3:00	½	Run plug #4
			Trip out of hole.
3:00	8:00	5	W.O.C cement mousehole and rathole 47 sax cement
			Cemented Rat Hole + Mouse Hole w/ ~~48~~ SAX Cement. 4% CaCl2

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
	STANDS D.P.	FT.	BIT NO.		TIME	
	SINGLES D.P.	FT.	SIZE		WEIGHT	
	D.C. I.D. O.D.	FT.	MFG.		VISC.-SEC	
	D.C. I.D. O.D.	FT.	TYPE		W.L.-C.C.	
	STB. BODY O.D.	FT.	NOZZLE NO.		FLTR. CK.	
	STB. BODY O.D.	FT.	NOZZLE SIZE		PH	
	RMR. BODY O.D.	FT.	SER. NO.		SD. CONT. %	
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT	
	BIT OR C.B.	FT.	DEPTH IN			
		FT.	TOTAL FTG.		MUD & CHEMICALS ADDED	
	KELLY DOWN	FT.	TOTAL HR. RUN		TYPE / AMT. / TYPE / AMT.	
	TOTAL	FT.	COND. O.- BIT			
WT. OF STRING		LBS.	REAMER NO.		DRILLER Ron Sandell	
			REAMER TYPE			

FROM	TO	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-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	11:00	3	W.O.C
11:00	11:30	½	Run in Felt Plug #4 @ 455'
11:30	12:00	½	Laydown Pipe
12:00			Run surface plug + sax cement 4% CaCl2
	4:00	~~4:00~~	Laydown B.O.P.
			Rig released 3:00 pm March 15/70. E. Popowich

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		BIT RECORD		MUD RECORD	
	STANDS D.P.	FT.	BIT NO.		TIME	
	SINGLES D.P.	FT.	SIZE		WEIGHT	
	D.C. I.D. O.D.	FT.	MFG.		VISC.-SEC	
	D.C. I.D. O.D.	FT.	TYPE		W.L.-C.C.	
	STB. BODY O.D.	FT.	NOZZLE NO.		FLTR. CK	
	STB. BODY O.D.	FT.	NOZZLE SIZE		PH	
	RMR. BODY O.D.	FT.	SER. NO.		SD. CONT. %	
	SUBS O.D.	FT.	DEPTH OUT		PRESSURE GRADIENT	
	BIT OR C.B.	FT.	DEPTH IN			
		FT.	TOTAL FTG.		MUD & CHEMICALS ADDED	
	KELLY DOWN	FT.	TOTAL HR. RUN		TYPE / AMT. / TYPE / AMT.	
	TOTAL	FT.	COND. OF BIT			
WT. OF STRING		LBS.	REAMER NO.		DRILLER Ron	
			REAMER TYPE			

FROM	TO	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-C

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4	12:00		TEARING OUT

DAILY DRILLING REPORT

REPORT NO. 33 DATE MARCH 4/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD Oil Co	TRIAD BP ARCO C.C. Hume River	062	Hume River	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	O.D.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	TYPE THD. 3½ IF	5"

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Lepowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. B. Halonja

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP	48 H40	3			8737	Cemented
	8 5/8	JAP	24 J55	15	505	1225	5172	to Surface

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	1 1/4		1
TRIPS	3 1/4	1	
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING	1 1/4		1/2
WAITING ON CEMENT	3/4	7	6 1/2
DRILL STEM TEST			
OTHER	1		
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.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
43	STANDS D.P.	4043.08 FT.
19	SINGLES D.P.	565.93 FT.
	D.C. 6 1/4 I.D. O.D.	
18		535.24 FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO.; SIZE; MFG.; TYPE; NOZZLE NO.; NOZZLE SIZE; SER. NO.; DEPTH OUT; DEPTH IN; TOTAL FTG.; TOTAL HR. RUN; COND. OF BIT; REAMER NO.; REAMER TYPE

MUD RECORD: TIME; WEIGHT; VISC.–SEC; W.L.–C.C.; FL.TR. CK.; PH; SD. CONT. %; PRESSURE GRADIENT; Plug 1; Plug 2

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DRILLER: E. W. Hausmann

FOOTAGE FROM	TO	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–P COM'D–C
				Fuel 2:16"								
4600'	4300'			100 sax construction cement			down @ 4:30 AM					
3100'	3000'			35 sax const. cement 2% CaCl2			down @ 7:15 AM					

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	1:00	1	Service & Lay Down Testing Tools
1:00	3:15	2 1/4	Run in Open End & pick up 17 singles
3:15	5:00	1 3/4	Circ. Open End To Abandon
5:00	5:45	3/4	Rig & Run Plug No 1 4600' To 4300'
5:45	6:45	1	Hoist To 3100 FT & Break Circ
6:45	7:10	1/2	Run Plug No 2. 3100 – 3000'
7:15	8:00	3/4	W.O.C.

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
WT. OF STRING		LBS.

BIT RECORD: BIT NO.; SIZE; MFG.; TYPE; NOZZLE NO.; NOZZLE SIZE; SER. NO.; DEPTH OUT; DEPTH IN; TOTAL FTG.; TOTAL HR. RUN; COND. OF BIT; REAMER NO.; REAMER TYPE

MUD RECORD: TIME; WEIGHT; VISC.–SEC; W.L.–C.C.; FL.TR. CK.; PH; SD. CONT. %; PRESSURE GRADIENT

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DRILLER: Ron Sewell

FOOTAGE FROM	TO	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–P COM'D–C

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	3:00	7	W.O.C & Laydown 15 stands
3:00	3:45	3/4	Trip in Felt Plug No 2 @ 2980' (10' high Esperanda)
3:45	4:00	1/4	Trip out To 1700'

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR	
	STANDS D.P.	FT.
	SINGLES D.P.	FT.
	D.C. I.D. O.D.	FT.
	D.C. I.D. O.D.	FT.
	STB. BODY O.D.	FT.
	STB. BODY O.D.	FT.
	RMR. BODY O.D.	FT.
	SUBS O.D.	FT.
	BIT OR C.B.	FT.
		FT.
	KELLY DOWN	FT.
	TOTAL	FT.
		LBS.

BIT RECORD: BIT NO.; SIZE; MFG.; TYPE; NOZZLE NO.; NOZZLE SIZE; SER. NO.; DEPTH OUT; DEPTH IN; TOTAL FTG.; TOTAL HR. RUN; COND. OF BIT; REAMER NO.; REAMER TYPE

MUD RECORD: TIME; WEIGHT; VISC.–SEC; W.L.–C.C.; FL.TR. CK; PH; SD. CONT. %; PRESSURE GRADIENT; Plug 3

MUD & CHEMICALS ADDED: TYPE | AMT. | TYPE | AMT.

DRILLER: E. W. Hausmann

FOOTAGE FROM	TO	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–P COM'D–C
1700'	1600'		50	sax const cement + 2% CaCl2			down @ 5:30 PM					

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:00	1	Circulate + Rig To Run Plug # 3.
5:00	5:30	1/2	Run Plug # 3
5:30	12:00	6 1/2	W.O.C

DAILY DRILLING REPORT

REPORT NO. 32 DATE March 13 70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL Co.	TRIAD B.P ARCO CG HUME RIVER	O-62	Hume River	N.W.T.	Canada

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	43	4"	5" O.D.	3½ I.F.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A.B. Yakeya

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	N.S.CO	K.380	14
2.	NSCO	K.380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP	48# H40	3			87.30	Cemented
	8 5/8	JAP	24# J.55	15	505	12.25	517.22	Top Surface

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		2	3½
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT ORDERS	8	3½	2
DRILL STEM TEST		1	2
OTHER		1½	½
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
HRS.	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.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
43	STANDS D.P.	4043.08	FT.
	SINGLES D.P.		FT.
18	D.C. 7 1/4 I.D. 6 1/4 O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			
WEIGHT			
VISC.–SEC			
W.L.–C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: E.O. Hausmann

FOOTAGE

FROM	TO	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–C
				Fuel 2.90								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	8.00	8	W.O. ORDERS

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
43	STANDS D.P.	4043.08	FT.
	SINGLES D.P.		FT.
18	D.C. I.D. O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			
WEIGHT			
VISC.–SEC			
W.L.–C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ron Sorell

FOOTAGE

FROM	TO	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–C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	11.30	3½	WAIT ON ORDERS
11.30	1.00	1½	Make up DST #6
1.00	3.00	2	Run in w/packer
3.00	4.00	1	TESTING DST #6

PF. 5 ISI. 60 VC. 60 FSI. 60 HP. 2105 #
2109 ISIP. 1965 FP. 1895 FSIP. 1963
Good air blow on P.F. good air blow during flow period slowly decreasing. Recovery (4236') 650' muddy sulfurous saltwater 3586' clean salt water

E. Popowich

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
43	STANDS D.P.	4043.08	FT.
	SINGLES D.P.		FT.
18	D.C. I.D. O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			
WEIGHT			
VISC.–SEC			
W.L.–C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ron E.O. Hausmann

FOOTAGE

FROM	TO	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–C
Test #6	FROM		4390-4600	RECOVERT	4236	FT	OF	SALTWATER				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	6.00	2	TESTING #6
6.00	9.30	3½	HOISTING PACKER & REMOVE RECORDES
9.30	11.30	2	W.O. ORDERS
11.30	12.00	½	BREAK DOWN TESTING TOOLS

DAILY DRILLING REPORT

REPORT NO. 31 DATE MAR. 12/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD. Oil Co	TRIAD B.P. ARCO. C.C. Hume River	062	Hume River	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5 O.D.	3 1/2 I.F

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Bilalenga

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Nsco	K-380	14
2.	Nsco	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP	48 H 40	3			87.37	Cemented
	8 5/8	JAP	24 J-55	15	505	1225	5172.22	To Surface

TIME DISTRIBUTION—HOURS

	MORN.	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		2	2
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
BORING			
WIRE LINE LOGGING	5		
RUNNING CASING & CEMENTING			
WAITING ON ~~CEMENT~~ ORDERS	2	3 1/2	
DRILL STEM TEST			3 1/2
OTHER	1	2 1/2	2 1/2
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			
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.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
43	STANDS D.P.	4043.08	FT.
	SINGLES D.P.		FT.
18	D.C. 6 1/4 I.D. O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	15.51	FT.
	TOTAL	4600.00	FT.
WT. OF STRING	102 M. LBS.		

BIT RECORD		
BIT NO.	R.R	
SIZE	7	
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD		
TIME		
WEIGHT		
VISC.-SEC		
W.L.-C.C.		
FLTR. CK.		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: E. Hausmann

FOOTAGE FROM	TO	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-P COM'D-C
4600	Logging			w/ Schlumberger								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	5.00	5	Log w/ Schlumberger (IES and BHC Sonic, Gamma Caliper).
5.00	6.00	1	Tear out Schlumberger.
6.00	8.00	2	W.O. ORDERS
			CHANGED Oil & Filters in D379's

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD		
BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD		
TIME		
WEIGHT		
VISC.-SEC		
W.L.-C.C.	Good + Okay	
FLTR. CK.		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ron Sewell

FOOTAGE FROM	TO	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-P COM'D-C
4600												

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	11.30	3 1/2	Wait on orders
11.30	2.00	2 1/2	Make up Packer.
2.00	4.00	2	Run in w/ DST #5

D.S.T. No 5 3100'-3140' Bear Rock
PF 5 ISI 60 VO 60 FSI 90
MP 1557-1557 ISIP 1370 FP 1268
FSIP 1223 Good airblow on preflow
Good airblow on initial flow, Decreasing
slow dead after 55 min. recovered
1970' drlg mud, 490' slightly salty drlg
mud
E. Popowich

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
43	STANDS D.P.	4043.08	FT.
	SINGLES D.P.		FT.
18	D.C. 2 7/8 6 1/4 I.D. O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD		
BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD		
TIME		
WEIGHT		
VISC.-SEC		
W.L.-C.C.		
FLTR. CK		
PH		
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ron E. Hausmann

FOOTAGE FROM	TO	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-P COM'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	7.30	3 1/2	testing D.S.T. #5
7.30	9.30	2	Hoist Packer
9.30	12.00	2 1/2	Break Down Testing Tools + Lay Down

DAILY DRILLING REPORT

REPORT NO. 30 DATE MARCH 11/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD Oil Co.	TRIAD B.P. ARCO P.C. Hume River	062	Hume River	N.W.T	CANADA

CONTRACTOR: S & T DRILLING (WESTERN) CO. LTD. RIG NO. 1E

DRILL PIPE STRING: NO. 2 SIZE 4 TYPE THD. 3½ I.F. TOOL JOINT 5" O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NUSCO	K-380	14
2.	NUSCO	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP	48 H40	3			87.37	Cemented
	8 5/8	JAP	24-J55	15	505.	12.25	517.22	To Surface.

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	4½		
REAMING			
CONDITIONING MUD & CIRCULATING	1	4½	2½
TRIPS	2	2¾	2
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY	¼		
TEST B.O.P.			
SLIP DRILLING LINE		½	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			3½
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRI'S			
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

LINE RECORD

SIZE

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
42	STANDS D.P.	3948.4	FT.
2	SINGLES D.P.	62.98	FT.
18	D.C. 2 7/8 6½ I.D. O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	28.39	FT.
	TOTAL	4600.00	FT.
WT. OF STRING	106 m		LBS.

BIT RECORD

BIT NO.	R.R. 11	
SIZE	7 7/8	
MFG.	H.W	
TYPE	X55R	
NOZZLE NO.	3-13	
NOZZLE SIZE		
SER. NO.	11081	
DEPTH OUT	4600	
DEPTH IN	4409	
TOTAL FTG.	191	
TOTAL HR. RUN	25½	
COND. OF BIT	3-3-I	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1⁰⁰	300	6⁰⁰
WEIGHT	9.6	9.6	9.6
VISC.-SEC	69	72	77.
W.L.-C.C.			
FLTR. CK.			
PH	9.0	9.0	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
PLASTER	100#		
KELTAN	50#		
CAUSTIC	50#		

DRILLER: E.O. Graumann

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL.-P COM'D.-C
4568	4600	D			40	35	1100	5½		5½	59	S
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	4600	½°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	1⁴⁵	1¾	DRILLING 7 7/8" hole
1⁴⁵	2⁰⁰	¼	SERVICE RIG. SWIVEL + HYDRIL + KELLY COCK
2⁰⁰	4⁴⁵	2¾	DRLG 7 7/8" hole TO T.D. 4600
4⁴⁵	5⁴⁵	1	CIRCULATE
5⁴⁵	6⁰⁰	¼	SURVEY
6⁰⁰	8⁰⁰	2	TRIP OUT. SLOWLY

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
43	STANDS D.P.	4043.08	FT.
	SINGLES D.P.		FT.
18	D.C. I.D. O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
	Kelly in	15.51	FT.
	~~KELLY DOWN~~		FT.
	TOTAL	4600.00	FT.
WT. OF STRING	102 m		LBS.

BIT RECORD

BIT NO.	RR	
SIZE	7/8	
MFG.	H-W	
TYPE	ODV	
NOZZLE NO.	3/14	
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	4	1⁰⁰	2³⁰
WEIGHT	9.6	9.6	9.6
VISC.-SEC	1	69	73
W.L.-C.C.	0	6	
FLTR. CK.			
PH	N	9.5	9.5
SD. CONT. %	6		
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	800#		

DRILLER: Ron Squirl

FOOTAGE

FROM	TO	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.-C
T.D.	T.D.											
4600'												

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8³⁰	½	Finish trip out & Laydown Stabilizers & Reamer.
8³⁰	8⁴⁵	¼	Rig Serv BOPs.
8⁴⁵	9¹⁵	½	Slip Drilling Line 23'
9¹⁵	11³⁰	2¼	Run in w/bit slow NO FILL on Bottom
11³⁰	4⁰⁰	4½	CIRCULATE COND hole + WAIT ON Schlumberger.

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
43	STANDS D.P.	4043.08	FT.
	SINGLES D.P.		FT.
18	D.C. 2 7/8 6½ I.D. O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	15.51	FT.
	TOTAL	4600.00	FT.
WT. OF STRING	102 m		LBS.

BIT RECORD

BIT NO.	RR	
SIZE	7 7/8	
MFG.	H.W	
TYPE	ODV	
NOZZLE NO.	3	
NOZZLE SIZE	14	
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	4⁰⁰		
WEIGHT	9.7		
VISC.-SEC	68		
W.L.-C.C.			
FLTR. CK			
PH	9.5		
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ron Squirl

FOOTAGE

FROM	TO	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.-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	6³⁰	2½	CIRC + COND hole TO 2999
6³⁰	8³⁰	2	Trip out TO 2999
8³⁰	12⁰⁰	3½	RIG + LOG w/ SCHLUMBERGER

DAILY DRILLING REPORT

REPORT NO. 29 DATE MAR 10/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD Oil Co	TRIAD B.P ARCO C.C. Hume River	0-62	Hume River	NiWiT	

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5	3½ I.F

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E Paparich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A Bellanger

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP	48# H-40	3			87.37	Cemented To
	8 5/8	JAP	24-J55	15	505.	12.25	5772	Surface

MORNING TOUR

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	5¼	7¾	7¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	2¼		
LUBRICATE RIG	¼		¼
DEVIATION SURVEY			
TEST B.O.P.		¼	
CUT OFF DRILLING LINE			
REPAIR RIG			
BORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
Clean To Other Bim	¼		
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL DETAILS	8	8	8

DRILLING ASSEMBLY AT END OF TOUR

NO.			
41	STANDS D.P.	3854.00	FT.
1	SINGLES D.P.	31.15	FT.
18	D.C. 2 3/8 I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	11.56	FT.
	TOTAL	4457.00	FT.

WT. OF STRING 106 M LBS.

BIT RECORD

BIT NO.	10	RR 11
SIZE	7 7/8	7 7/8
MFG.	H.W	H.W
TYPE	X55R	X55R
NOZZLE NO.	2-11	3-13
NOZZLE SIZE	1-12	
SER. NO.	20121	11081
DEPTH OUT	4409	
DEPTH IN	3501	4409
TOTAL FTG.	908	48
TOTAL HR. RUN	96	5¼
COND. OF BIT	2-4-I	Run
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME		5⁰⁰	7⁰⁰
WEIGHT		9.5	9.5
VISC.–SEC		46	45
W.L.–C.C.			
FLTR. CK.			
PH		9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Dowcide 20	20#		

DRILLER E J Baumann

FOOTAGE

FROM	TO	DR–D RM–R CORE–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL–S PAR'EL–P COM'D–C
4409	4457	D			40	35	1275	5½	59	5½	67	S
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.30	½	Finish Hoisting & Strapping out
12.30	12.45	¼	Change Bits & ✓ B.O.Ps
12.45	2.15	1½	Run in with Bit No. 11
2.15	2.30	¼	Rig Service
2.30	2.45	¼	Clean 5' to Btm.
2.45	8.00	5¼	Drlg 7⅞" Hole

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
41	STANDS D.P.		FT.
2	SINGLES D.P.	3916.76	FT.
18	D.C. 2 7/8 I.D. O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	RR-11	
SIZE	7⅞	
MFG.	H-W	
TYPE	R X55R	
NOZZLE NO.	3/13	
NOZZLE SIZE		
SER. NO.	11081	
DEPTH OUT		
DEPTH IN	4409	
TOTAL FTG.	109'	
TOTAL HR. RUN	13¼	
COND. OF BIT	Run	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9⁰⁰	12⁰⁰	3⁰⁰
WEIGHT	9.5	9.5	9.6
VISC.–SEC	45	51	71
W.L.–C.C.			
FLTR. CK.			
PH	9.0	9.0	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		
GEL.	500#		

DRILLER Ron Sewell

FOOTAGE

FROM	TO	DR–D RM–R CORE–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL–S PAR'EL–P COM'D–C
4457	4518	D			40	35M	1100	5½		5½	59	
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	10³⁰	2½	Drlg 7⅞ hole.
10³⁰	10⁴⁵	¼	Rig Ser. ✓ B.O.Ps + Kelly Cock.
10⁴⁵	4⁰⁰	5¼	Drlg.

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
42	STANDS D.P.	3948.41	FT.
	SINGLES D.P.	31.58	FT.
18	D.C. 2 7/8 I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	27.79	FT.
	TOTAL	4568.00	FT.

WT. OF STRING LBS.

BIT RECORD

BIT NO.	RR 11	
SIZE	7⅞	
MFG.	H-W	
TYPE	R X55R	
NOZZLE NO.	3/13	
NOZZLE SIZE		
SER. NO.	11081	
DEPTH OUT	IN	
DEPTH IN	4409	
TOTAL FTG.	159	
TOTAL HR. RUN	21	
COND. OF BIT	Run	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	7⁰⁰	9⁰⁰	11⁰⁰
WEIGHT	9.6	9.6	9.6
VISC.–SEC	68	73	72
W.L.–C.C.		6.8	
FLTR. CK		2/32	
PH	10.0	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	600#		

DRILLER RON & Ernie

FOOTAGE

FROM	TO	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. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL–S PAR'EL–P COM'D–C
4518	4568	D			40/45	35M	1100	5½		5½	59	
										X		
										14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	Rig Ser
4¹⁵	12⁰⁰	7¾	Drlg.

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 OPERATING HRS.

DAILY DRILLING REPORT — REPORT NO. 28 — DATE MAR 9/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO	TRIAD ~~O~~ B.P. ARCO CC HUME R.	0-62	HUME RIVER	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5 O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP	48# H40	3			87.37	CEMENTED
	8 5/8	JAP	24# J55	15	505	12.25	517.72	TO SURFACE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¼	7¾	5½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			2
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	½		¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
39	STANDS D.P.		3665.65 FT.
1	SINGLES D.P.		31.50 FT.
18	D.C. 2 7/8 I.D.	6¼ O.D.	535.24 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		24.58 FT.
	TOTAL		4279.00 FT.

WT. OF STRING 102,000 LBS.

BIT RECORD

BIT NO.	10	
SIZE	7 7/8	
MFG.	H.W	
TYPE	X55R.	
NOZZLE NO.	2-11	
NOZZLE SIZE	1-12	
SER. NO.	20121	
DEPTH OUT	IN	
DEPTH IN	3501	
TOTAL FTG.	778	
TOTAL HR. RUN	82¾	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8:00	5:00	7:00
WEIGHT	9.4	9.4	9.4
VISC.-SEC	40	47	43
W.L.-C.C.	8.0		7.8
FL.TR. CK.			2/32
PH	9.0	9.0	8.5
SD. CONT. %			
PRESSURE GRADIENT			

CALCIUM - 80 P.P.M.

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	600#		
KEZZAN	50#		

DRILLER: B. Armstrong

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4203	4279	D		FUEL - 5.25	40	35	1250	5½		5½	59	S
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	4255	⊙							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE
12:15	6:15	6	DRLG 7 7/8 HOLE
6:15	6:45	½	SURVEY @ 4255 - PULL SLOWLY
6:45	8:00	1¼	DRLG 7 7/8 HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
40	STANDS D.P.		3759.06 FT.
	SINGLES D.P.		FT.
18	D.C. 2 7/8 I.D.	6¼ O.D.	535.24 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		28.67 FT.
	TOTAL		4348.00 FT.

WT. OF STRING 102M. LBS.

BIT RECORD

BIT NO.	10	
SIZE	7 7/8	
MFG.	H.W	
TYPE	255R	
NOZZLE NO.	2-11	
NOZZLE SIZE	1-12	
SER. NO.	20121	
DEPTH OUT	IN	
DEPTH IN	3501	
TOTAL FTG.	847	
TOTAL HR. RUN	90¼	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9:00	12:00	4:00
WEIGHT	9.4	9.4	9.5
VISC.-SEC	43	40	47
W.L.-C.C.		8.0	
FL.TR. CK.		2/32	
PH	8.5	8.5	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		
GEL	500#		

DRILLER: E.W. Hauserman

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4279	4348	O			40	35	1250	5½		5½	59	S
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	10:15	2¼	Drlg 7 7/8" Hole.
10:15	10:30	¼	Service Rig, Swivel & Kelly Cock ✓ B.O.Ps
10:30	4:00	5½	Drlg 7 7/8" Hole.

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
40	STANDS D.P.		3759.06 FT.
2	SINGLES D.P.		63.23 FT.
18	D.C. 2 7/8 I.D.	6¼ O.D.	535.24 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		26.44 FT.
	TOTAL		4409.00 FT.

WT. OF STRING 102M LBS.

BIT RECORD

BIT NO.	10	
SIZE	7 7/8	
MFG.	H.W	
TYPE	X55R	
NOZZLE NO.	2-11	
NOZZLE SIZE	1-12	
SER. NO.	20121	
DEPTH OUT	IN	
DEPTH IN	3501	
TOTAL FTG.	908	
TOTAL HR. RUN	96	
COND. OF BIT	A-H-I	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	6:00	9:00	
WEIGHT	9.5	9.5	R
VISC.-SEC	49	48	I
W.L.-C.C.			O
FL.TR. CK			P
PH			N
SD. CONT. %			G
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Kelzan	50#		

DRILLER: Ron Sorell

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
4348	4409	O			40	35	1250	5½		5½	59	
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	4409	3/4							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:15	1¼	DRLG 7 7/8" hole
5:15	5:30	¼	SERVICE RIG, Swivel, ✓ Kelly Cock + B.O.Ps
5:30	9:45	4¼	DRLG 7 7/8" hole
9:45	10:00	¼	Drop Survey @ 4409
10:00	12:00	2	trip out for Bit — Strap out 4426.35
			Pipe Tally 4424.06
			Diff. 2.29 No Correction

DAILY DRILLING REPORT

REPORT NO. 27 DATE MAR. 8/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO	TRIAD B.P. ARCO CC HUME R.	0-62	HUME RIVER	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5	3½IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. B. Galenza

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
LAST CASING	13 3/8	JAP	48# H40	3			87.37	CEMENTED
TUBING OR LINER	8 5/8	JAP	24# J55	15	505	12.75	517.72	TO SURFACE

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	7½	7¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY		¼	
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
BORING			
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			

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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
37	STANDS D.P.		3475.83 FT.
	SINGLES D.P.		FT.
18	D.C. 2 2/8 I.D.	6¼ O.D.	535.24 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		38.90 FT.
	TOTAL		4075.00 FT.
WT. OF STRING	100,000 LBS.		

BIT RECORD

BIT NO.		10
SIZE		7⅞
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	2-11
	SIZE	1-12
SER. NO.		20121
DEPTH OUT		IN
DEPTH IN		3501
TOTAL FTG.		574
TOTAL HR. RUN		60¼
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	2:00	5 A.M.	7:00
WEIGHT	9.3	9.3	9.3
VISC.–SEC	44	42	41
W.L.–C.C.		8.0	8.2
FL.TR. CK.		2/32	2/32
PH	9.5	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT	CALCIUM - 60 PPM.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	600#		
KELZAN	50#		

DRILLER B. Armstrong

FOOTAGE

FROM	TO	DR.–D RM.–R CORE.–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
4015	4015	D		FUEL - 6.00	40	30	1225	5½		5½	59	S
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	RIG SERVICE
12:15	8:00	7¾	DRLG 7⅞ HOLE
			HELD SAFETY MEETING

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
37	STANDS D.P.		3475.83 FT.
2	SINGLES D.P.		63.03 FT.
18	D.C. 2⅞ I.D.	6¼ O.D.	535.24 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		34.87 FT.
	TOTAL		4134 FT.
WT. OF STRING	100 M LBS.		

BIT RECORD

BIT NO.		10
SIZE		7⅞
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	2-11
	SIZE	1-12
SER. NO.		20121
DEPTH OUT		IN
DEPTH IN		3501
TOTAL FTG.		633
TOTAL HR. RUN		67¾
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9:00	12:00	3:00
WEIGHT	9.4	9.4	9.4
VISC.–SEC	40	43	40
W.L.–C.C.			8.2
FL.TR. CK.			2/32
PH	8.5	8.5	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
PLASTER	50#		
CARBON	10.00#		

DRILLER E. W. Hausmann

FOOTAGE

FROM	TO	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–C
4075	4134	D			40	35	1225	5½		5½	59	S
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	4098	¾°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:15	¼	SERVICE RIG SWIVEL + HYDRIL + KELLY COCK
8:15	12:00	4¾	DRLG 7⅞" HOLE
12:00	1:15	1¼	W.L. SURVEY
1:15	4:00	2¾	DRLG 7⅞" HOLE

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
38	STANDS D.P.		3570.54 FT.
1	SINGLES D.P.		31.59 FT.
18	D.C. 2⅞ I.D.	6¼ O.D.	535.24 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		41.50 FT.
	TOTAL		4203.90 FT.
WT. OF STRING	100,000 LBS.		

BIT RECORD

BIT NO.		10
SIZE		7⅞
MFG.		H.W.
TYPE		X55R
NOZZLE	NO.	2-11
	SIZE	1-12
SER. NO.		20121
DEPTH OUT		IN
DEPTH IN		3501
TOTAL FTG.		702
TOTAL HR. RUN		75½
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	5:00	9:00	12:00
WEIGHT	9.4	9.4	9.4
VISC.–SEC	40	45	42
W.L.–C.C.			8.2
FL.TR. CK.			2/32
PH	8.5	9.5	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		
CAUSTIC	50#		

DRILLER B. W. Hausmann

FOOTAGE

FROM	TO	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–C
4134	4203	D			40	35	1250	5½		5½	59	S
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:15	1¼	DRLG 7⅞" hole
5:15	5:30	¼	Rig Service
5:30	12:00	6½	DRLG 7⅞" hole

DAILY DRILLING REPORT

REPORT NO. 26 DATE MAR 7/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO	TRIAD B.P. ARCO CC HUME R.	0-62	HUME RIVER	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
13⅜	JAP	48# H40	3			87.37	CEMENTED
8⅝	JAP	24# J55	15	505	12.25	517.72	TO SURFACE

MORNING TOUR

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	7¾	7¼
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			½
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY	¼		¼
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. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

NO.	DRILLING ASSEMBLY AT END OF TOUR		
34	STANDS D.P.	3190.74	FT.
2	SINGLES D.P.	63.37	FT.
10	D.C. 2⅞ I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	24.62	FT.
	TOTAL	3839.00	FT.
	WT. OF STRING	98,000	LBS.

BIT RECORD		
BIT NO.	10	
SIZE	7⅞	
MFG.	H.W	
TYPE	X55R	
NOZZLE NO.	2-11	
NOZZLE SIZE	1-12	
SER. NO.	20121	
DEPTH OUT	IN	
DEPTH IN	3501	
TOTAL FTG.	338	
TOTAL HR. RUN	37½	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	1 P.M.	3 A.M.	6 A.M.
WEIGHT	9.3	9.3	9.3
VISC.–SEC	40	42	40
W.L.–C.C.		8.8	10.0
FL.TR. CK.		2/32	2/32
PH	10.0	9.5	9.0
SD. CONT. %			0.5
PRESSURE GRADIENT			

CALCIUM. 80 P.P.M.

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#		
KELZAN	50#		

DRILLER: B. Armstrong

FOOTAGE

FROM	TO	DR.–D RM.–R CORE.–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
3751	3839	D		FUEL – 6.70	40	30	1225	5½		5½	59	S
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3782	1½°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	1⁰⁰	1	DRLG 7⅞ HOLE
1⁰⁰	1¹⁵	¼	RIG SERVICE
1¹⁵	3¹⁵	2	DRLG 7⅞ HOLE
3¹⁵	3³⁰	¼	W.L. SURVEY
3³⁰	8⁰⁰	4½	DRLG 7⅞ HOLE

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
35	STANDS D.P.	3348.89	FT.
2	SINGLES D.P.		FT.
18	D.C. 2⅞ I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	41.50	FT.
	TOTAL	3950.00	FT.
	WT. OF STRING		LBS.

BIT RECORD		
BIT NO.	10	
SIZE	7⅞	
MFG.	H.W	
TYPE	X55R	
NOZZLE NO.	2-11	
NOZZLE SIZE	1-12	
SER. NO.	20121	
DEPTH OUT		
DEPTH IN	3501	
TOTAL FTG.	449	
TOTAL HR. RUN	45¼	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	9⁰⁰	12⁰⁰	3⁰⁰
WEIGHT	9.3	9.3	9.3
VISC.–SEC	40	37	50
W.L.–C.C.			7.8
FL.TR. CK.			2/32
PH	9.0	9.0	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
C.M.C.	50#		
GEL	500#		
CAUSTIC	50#		

DRILLER: E.W. Graumann

FOOTAGE

FROM	TO	DR–D RM–R CORE–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
3839	3950	D			40	30	1225	5½		5½	59	S
					40	35	1225	X	59	X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	9⁰⁰	1	DRLG 7⅞" hole
9⁰⁰	9¹⁵	¼	SERVICE RIG, SWIVEL, & KELLY Cock + B.O.P.s
9¹⁵	4⁰⁰	6¾	DRLG 7⅞" hole
			Installed New Rods, Heads + Hand packing in No 2. pump.

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
36	STANDS D.P.	3380.57	FT.
2	SINGLES D.P.	63.87	FT.
18	D.C. 2⅞ I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	10.29	FT.
	TOTAL	4015.00	FT.
	WT. OF STRING	100,000	LBS.

BIT RECORD		
BIT NO.	10	
SIZE	7⅞	
MFG.	H.W.	
TYPE	X55R	
NOZZLE NO.	2-11	
NOZZLE SIZE	1-12	
SER. NO.	20121	
DEPTH OUT	IN	
DEPTH IN	3501	
TOTAL FTG.	514	
TOTAL HR. RUN	52½	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME		9 P.M.	12⁰⁰
WEIGHT		9.3	9.3
VISC.–SEC		45	40
W.L.–C.C.			
FL.TR. CK			2/32
PH		10.0	10.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: B. Armstrong

FOOTAGE

FROM	TO	DR–D RM–R CORE–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
3950	4015	D			40	30	1225	5½	59	5½		S
					40	35	1225	X	59	X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3940	1°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4³⁰	½	6 std Dummy Trip
4³⁰	4⁴⁵	¼	Survey & Service Rig, Swivel &
4⁴⁵	12⁰⁰	7¼	Drlg 7⅞" Hole.

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MILES OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MILES OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

DAILY DRILLING REPORT

REPORT NO. 26 DATE MAR 7/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO	TRIAD B.P. ARCO CC HUME R.	0-62	HUME RIVER	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13⅜	JAP	48# H40	3			87.37	CEMENTED
	8⅝	JAP	24# J55	15	505	12.25	517.72	TO SURFACE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	7¾	7¼
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			½
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY	¼		¼
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. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
RIG	
MISC. WORK	
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.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
34	STANDS D.P.	3190.74	FT.
2	SINGLES D.P.	63.37	FT.
18	D.C. 2⅞ I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	24.62	FT.
	TOTAL	3839.00	FT.
WT. OF STRING		98,000	LBS.

BIT RECORD

BIT NO.		10
SIZE		7⅞
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	2-11
	SIZE	1-12
SER. NO.		20121
DEPTH OUT		IN
DEPTH IN		3501
TOTAL FTG.		338
TOTAL HR. RUN		37½
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1 P.M.	3 P.M.	6 P.M.
WEIGHT	9.3	9.3	9.3
VISC.-SEC	40	42	40
W.L.-C.C.		8.8	10.0
FL.TR. CK.		9/32	2/32
PH	10.0	9.5	9.0
SD. CONT. %			.05
PRESSURE GRADIENT			

CALCIUM. 80 R.P.M.

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1800#		
KELZAN	50#		

DRILLER B. Armstrong

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3751	3839	D		FUEL - 6.70	40	30	1225	5½		5½	59	S
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3782	1½°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	1⁰⁰	1	DRLG 7⅞ HOLE
1⁰⁰	1¹⁵	¼	RIG SERVICE
1¹⁵	3¹⁵	2	DRLG 7⅞ HOLE
3¹⁵	3³⁰	¼	W.L. SURVEY
3³⁰	8⁰⁰	4½	DRLG 7⅞ HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
35	STANDS D.P.	3348.89	FT.
2	SINGLES D.P.		FT.
18	D.C. 2⅞ I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	41.50	FT.
	TOTAL	3950.00	FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.		10
SIZE		7⅞
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	2-11
	SIZE	1-12
SER. NO.		20121
DEPTH OUT		
DEPTH IN		3501
TOTAL FTG.		449
TOTAL HR. RUN		45¼
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9⁰⁰	12⁰⁰	4⁰⁰
WEIGHT	9.3	9.3	9.3
VISC.-SEC	40	37	50
W.L.-C.C.			7.8
FL.TR. CK.			2/32
PH	9.0	9.0	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
C.M.C	50#		
GEL	500#		
CAUSTIC	50#		

DRILLER E.W. Frauenmann

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3839	3950	D			40	30	1225	5½		5½	59	S
					40	35	1225	X	59	X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	9⁰⁰	1	DRLG 7⅞" hole
9⁰⁰	9¹⁵	¼	SERVICE RIG, SWIVEL, & KELLY COCK + B.O.P.s
9¹⁵	4⁰⁰	6¾	DRLG 7⅞" hole
			Installed New Rods, Heads + Gland Packing in No 2. pump.

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
36	STANDS D.P.	3380.57	FT.
2	SINGLES D.P.	63.87	FT.
18	D.C. 2⅞ I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	10.29	FT.
	TOTAL	4015.00	FT.
WT. OF STRING		100,000	LBS.

BIT RECORD

BIT NO.		10
SIZE		7⅞
MFG.		H.W.
TYPE		X55R
NOZZLE	NO.	2-11
	SIZE	1-12
SER. NO.		20121
DEPTH OUT		IN
DEPTH IN		3501
TOTAL FTG.		514
TOTAL HR. RUN		52½
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9 P.M.	12⁰⁰
WEIGHT	9.3	9.3
VISC.-SEC	45	40
W.L.-C.C.		
FL.TR. CK		2/32
PH	10.0	10.0
SD. CONT. %		
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER B. Armstrong

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3950	4015	D			40	30	1225	5½	59	5½		S
					40	35	1225	X	59	X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3940	1°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4³⁰	½	6 std. Dummy TRIP
4³⁰	4⁴⁵	¼	Survey & Service Rig, Swivel &
4⁴⁵	12⁰⁰	7¼	Drlg 7⅞" Hole.

DAILY DRILLING REPORT

REPORT NO. 25 DATE MAR. 6/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO	TRIAD B.P. ARCO CC HUME R.	D-62	HUME RIVER	N.W.T.	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
LAST CASING TUBING OR LINER	13 3/8	JAP	48# H40	3			87.37	CEMENTED
	8 5/8	JAP	24# J55	15	505	12.25	517.72	TO SURFACE

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	7½	7¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY		¼	
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
BORING			
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	

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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
32	STANDS D.P.		3003.47 FT.
1	SINGLES D.P.		31.62 FT.
18	D.C. 2 7/8 I.D.	6¼ O.D.	535.24 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		21.64 FT.
	TOTAL		3617.00 FT.
WT. OF STRING	96,000 LBS.		

BIT RECORD

BIT NO.		10
SIZE		7 7/8
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	2-11
	SIZE	1-12
SER. NO.		20121
DEPTH OUT		IN
DEPTH IN		3501
TOTAL FTG.		116
TOTAL HR. RUN		14¾
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	2 AM	5 AM	7 AM
WEIGHT	9.3	9.3	9.3
VISC.-SEC	45	50	45
W.L.-C.C.	8.2		8.0
FLTR. CK.	2/32		2/32
PH	10.0	10.0	10.0
SD. CONT. %			.05
PRESSURE GRADIENT			

Calcium 90 P.P.M.

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		
PLASTER	50#		

DRILLER: B. Armstrong

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3555	3617	D		FUEL - 7.85	40	30	1225	5½		5½	59	5
								X		X		
								14		14		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	2:00	2	DRLG 7 7/8 HOLE
2:00	2:15	¼	RIG SERVICE
2:15	8:00	5¾	DRLG 7 7/8 HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
33	STANDS D.P.		3097.10 FT.
	SINGLES D.P.		FT.
18	D.C. 2 7/8 I.D.	6¼ O.D.	535.24 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		21.63 FT.
	TOTAL		3679.00 FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.		10
SIZE		H.W
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	2-11
	SIZE	1-12
SER. NO.		20121
DEPTH OUT		
DEPTH IN		3501
TOTAL FTG.		178
TOTAL HR. RUN		22¼
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	7 PM	12 PM	3 PM
WEIGHT	9.3	9.3	9.3
VISC.-SEC	42	40	37
W.L.-C.C.		8.2	
FLTR. CK.		2/32	
PH	10.0	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: E.W. Graumann

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3617	3679	D			40	30	1225	5½		5½	59	5
					40	35	"	X		X	"	
								14		14		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3626	1/4							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	10:00	2	DRLG 7 7/8" Hole
10:00	10:15	¼	Service Rig, Swivel & B.OP's
10:15	10:30	¼	Survey
10:30	4:00	5½	DRLG 7 7/8" Hole
			Cleaned Sand Trap & Settling Tank.
			Changed Oil & Filters in No 1,2,3 Light Plants
			Put on New 30X30 Shaker Screen

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
33	STANDS D.P.		3097.10 FT.
2	SINGLES D.P.		62.29 FT.
18	D.C. 2 7/8 I.D.	6¼ O.D.	535.24 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		31.34 FT.
	TOTAL		3151.00 FT.
WT. OF STRING	98,000 LBS.		

BIT RECORD

BIT NO.		10
SIZE		7 7/8
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	2-11
	SIZE	1-12
SER. NO.		20121
DEPTH OUT		IN
DEPTH IN		3501
TOTAL FTG.		250
TOTAL HR. RUN		30
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	6 PM	9 P.M.	11 P.M.
WEIGHT	9.3	9.3	9.3
VISC.-SEC	55	46	42
W.L.-C.C.			
FLTR. CK			
PH	10.0	10.0	10.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		
CAUSTIC	50#		
PLASTER	50#		

DRILLER: E.W. Graumann

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
3679	3751	D			40	30	1225	5½		5½	59	5
								X		X		
								14		14		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	Service Rig Swivel & Hydril + Kelly Cock
4:15	12:00	7¾	DRLG 7 7/8" hole

DAILY DRILLING REPORT

REPORT NO. 24 DATE MAR. 5/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO	TRIAD B.P. ARCO CC HUME R.	0-62	HUME RIVER	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Lapsewich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: N.B. Galeza

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
13 3/8	JAP	48# H40	3			87.37	CEMENTED
8 5/8	JAP	24# J55	15	505	12.25	517.72	TO SURFACE

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	4¾	7
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		2¾	½
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼	¼	
TEST B.O.P.		¼	
~~CUT OFF~~ SLIP DRILLING LINE		¼	
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			¼
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			1
HRS. STANDBY			1
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.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
30	STANDS D.P.	2813.47	FT.
2	SINGLES D.P.	63.01	FT.
18	D.C. 2 7/8 I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	25.25	FT.
	TOTAL	3462.00	FT.
WT. OF STRING	96,000		LBS.

BIT RECORD		
BIT NO.	9	
SIZE	7 7/8	
MFG.	H.W	
TYPE	RX55R	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	11081	
DEPTH OUT	IN	
DEPTH IN	2978	
TOTAL FTG.	484	
TOTAL HR. RUN	54	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD	1. AM.	3. AM.	7. AM.
TIME			
WEIGHT	9.4	9.4	9.3
VISC.–SEC	47	45	47
W.L.–C.C.			8.2
FL.TR. CK.			2/32
PH	10.5	10.5	10.0
SD. CONT. %		.05	.04
PRESSURE GRADIENT	CALCIUM 80. P.P.M.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
PLASTER	50#		

DRILLER: B. Armstrong

FROM	TO	DR.–D RM.–R CORE.–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
3398	3462	D		FUEL – 3.15	40	30	1150	5½		5½	58	5
								x		x		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3405	1°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	2.00	2	DRLG 7 7/8 HOLE
2.00	2.15	¼	RIG SERVICE
2.15	2.30	¼	W.L. SURVEY
2.30	8.00	5½	DRLG 7 7/8 HOLE
			CHANGED GLAND PACKING OFF FLYWHEEL SIDE #2 PUMP
			CHECKED FIRE EXTINGUISHERS – 6 OK

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
31	STANDS D.P.	2908.17	FT.
	SINGLES D.P.		FT.
18	D.C. 2 7/8 I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	32.56	FT.
	TOTAL	3501.00	FT.
WT. OF STRING	96 m		LBS.

BIT RECORD		
BIT NO.	9	10
SIZE	7 7/8	7 7/8
MFG.	H.W	H.W
TYPE	RX55R	X55R
NOZZLE NO.	3	2 1
NOZZLE SIZE	12	11 12
SER. NO.	11081	20
DEPTH OUT	3501	
DEPTH IN	2978	
TOTAL FTG.	523	
TOTAL HR. RUN	58¾	
COND. OF BIT	1 1 I	
REAMER NO.		
REAMER TYPE		

MUD RECORD	9.00	12.00	TRIP
TIME			
WEIGHT	9.3	9.3	
VISC.–SEC	45	42	
W.L.–C.C.			
FL.TR. CK.			
PH	10.0	9.5	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: E.W. Graumann

FROM	TO	DR.–D RM.–R CORE.–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
3462	3501	D			40	30	1150	5½		5½	58	
								x		x		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3500	1							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	9.45	1¾	DRLG 7 7/8" hole
9.45	10.00	¼	SERVICE RIG SURVEY W B.O.Ps + Kelly Cock
10.00	1.00	3	DRLG 7 7/8" hole
1.00	1.15	¼	SURVEY
1.15	2.45	1½	HOIST FOR BIT
2.45	3.00	¼	CHECK. B.O.Ps + MOTOR AIR SHUT OFFs. O.K.
3.00	3.15	¼	SLIP 23' DRLG LINE
3.15	4.00	¾	RUN IN W/ BIT #10

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
31	STANDS D.P.	2908.17	FT.
2	SINGLES D.P.	63.46	FT.
18	D.C. I.D. O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	23.10	FT.
	TOTAL	3555.00	FT.
WT. OF STRING	96,000		LBS.

BIT RECORD		
BIT NO.	10	
SIZE	7 7/8	
MFG.	H.W	
TYPE	X55R	
NOZZLE NO.	2 1	
NOZZLE SIZE	11 12	
SER. NO.	20121	
DEPTH OUT	IN	
DEPTH IN	3501	
TOTAL FTG.	54	
TOTAL HR. RUN	7	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD	7.00	8.30	11.00
TIME			
WEIGHT	9.4	9.4	9.3
VISC.–SEC	41	37	44
W.L.–C.C.	8.2		8.4
FL.TR. CK	2/32		2/32
PH	9.5	9.0	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
KELZAN	50#		
GEL	600#		
DOWICIDE	20#		

DRILLER: E.W. Graumann + G. B. Armstrong

FROM	TO	DR.–D RM.–R CORE.–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.–S PAR'EL–P COM'D–C
3501	3555	D			40	30	1225	5½		5½	59	5
								x		x		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.30	½	FINISH IN W/ BIT #10
4.30	4.45	¼	RIG SERVICE
4.45	5.00	¼	CLEAN TO BOTTOM 12 FT
5.00	12.00	7	DRLG 7 7/8" hole

DAILY DRILLING REPORT

REPORT NO. 23 DATE MAR. 4/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO	TRIAD B.P. ARCO CC HUME R.	0-62	HUME RIVER	N.W.T.	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP	48# H40	3			87.37	CEMENTED
	8 5/8	JAP	24# J55	15	505	12.25	517.72	TO SURFACE

MORNING TOUR

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	7¼	7½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		½	
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼		¼
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. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

DRILLING ASSEMBLY AT END OF TOUR

NO.			
28	STANDS D.P.	2625.07	FT.
2	SINGLES D.P.	63.02	FT.
18	D.C. 2 7/8 I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	24.64	FT.
	TOTAL	3273.00	FT.
WT. OF STRING	94,000		LBS.

BIT RECORD

BIT NO.	9	
SIZE	7 7/8	
MFG.	H.W	
TYPE	RX55R	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	11081	
DEPTH OUT	IN	
DEPTH IN	2978	
TOTAL FTG.	295	
TOTAL HR. RUN	31¾	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1⁰⁰	4⁰⁰	7⁰⁰
WEIGHT	9.4	9.4	9.4
VISC.–SEC	42	55	53
W.L.–C.C.			7.6
FL.TR. CK.			2/32
PH	9.0	10.0	10.0
SD. CONT. %			
PRESSURE GRADIENT			
CALCIUM			90PPM

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		
CAUSTIC	50#		

DRILLER: B. Armstrong

FOOTAGE

FROM	TO	DR.–D RM.–R CORE.–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.–S PAR'EL.–P COM'D.–C
3210	3273	D		FUEL–4.00	40	35	1150	5½		5½	58	S
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3248	1⁰							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	2⁰⁰	2	DRLG 7 7/8 HOLE
2⁰⁰	2¹⁵	¼	RIG SERVICE
2¹⁵	6⁰⁰	3¾	DRLG 7 7/8 HOLE
6⁰⁰	6¹⁵	¼	W.L. SURVEY
6¹⁵	8⁰⁰	1¾	DRLG 7 7/8 HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
29	STANDS D.P.	2750.57	FT.
1	SINGLES D.P.		FT.
18	D.C. 6¼ I.D. O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	26.16	FT.
	TOTAL	3337.00	FT.
WT. OF STRING	94,000		LBS.

BIT RECORD

BIT NO.	9	
SIZE	7 7/8	
MFG.	H.W	
TYPE	RX55R	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	11081	
DEPTH OUT		
DEPTH IN	2978	
TOTAL FTG.	259	
TOTAL HR. RUN	39	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9⁰⁰	12⁰⁰	4⁰⁰
WEIGHT	9.4	9.5	9.5
VISC.–SEC	47	43	37
W.L.–C.C.			8.0
FL.TR. CK.			2/32
PH	11.0	10.0	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: E.C. Lawrence

FOOTAGE

FROM	TO	DR.–D RM.–R CORE.–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.–S PAR'EL.–P COM'D.–C
3273	3337	O			40	35		5½		5½	58	S
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	10⁰⁰	2	Drlg 7 7/8" Hole.
10⁰⁰	10¹⁵	¼	Service Rig, Swivel & Kelly cock
10¹⁵	10⁴⁵	½	6 stand Dummy TRIP.
10⁴⁵	4⁰⁰	5¼	Drlg 7 7/8" Hole
			EMPTY SETTLING TANK + CLEAN.

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
30	STANDS D.P.	2813.47	FT.
	SINGLES D.P.		FT.
18	D.C. 6¼ I.D. O.D.	553.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	24.26	FT.
	TOTAL	3398.00	FT.
WT. OF STRING	94,000		LBS.

BIT RECORD

BIT NO.	9	
SIZE	7 7/8	
MFG.	H.W	
TYPE	RX55R	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	11081	
DEPTH OUT	IN	
DEPTH IN	2978	
TOTAL FTG.	420	
TOTAL HR. RUN	46½	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	7⁰⁰	11⁰⁰
WEIGHT	9.5	9.4
VISC.–SEC	40	51
W.L.–C.C.		8.2
FL.TR. CK		2/32
PH	9.0	10.0
SD. CONT. %		.05
PRESSURE GRADIENT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#	CAUSTIC	50#
PLASTER	50#		
KELZAN	50#		

DRILLER: E.C. Lawrence / B. Armstrong

FOOTAGE

FROM	TO	DR.–D RM.–R CORE.–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.–S PAR'EL.–P COM'D.–C
3337	3398	O			40	35	1150	5½		5½	58	S
					40	30	1150	X		X	58	S
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3341	1⅔							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	5³⁰	1½	Drlg 7 7/8 Hole
5³⁰	5⁴⁵	¼	Service Rig, Swivel & Hydril
5⁴⁵	6⁰⁰	¼	Survey
6⁰⁰	12⁰⁰	6	Drlg 7 7/8" Hole.

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.	

DAILY DRILLING REPORT

REPORT NO. 22 DATE MAR 3/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO	TRIAD B.P. ARCO CC HUME R.	0-62	HUME RIVER	N.W.T.	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP	48# H40	3			87.37	CEMENTED
	8 5/8	JAP	24# J55	15	505	12.25	517.72	TO SURFACE

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	7¾	7½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼		¼
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. 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.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
26	STANDS D.P.	2438.08	FT.
1	SINGLES D.P.	31.23	FT.
18	D.C. 2 7/8 I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	41.50	FT.
	TOTAL	3071.08	FT.
WT. OF STRING	92,000		LBS.

BIT RECORD

BIT NO.		9
SIZE		7 7/8
MFG.		H.W
TYPE		RX55R
NOZZLE	NO.	3
	SIZE	12
SER. NO.		11081
DEPTH OUT		IN
DEPTH IN		2978
TOTAL FTG.		93
TOTAL HR. RUN		9
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1 AM.	4 30	7 00
WEIGHT	9.4	9.4	9.4
VISC.–SEC	45	58	50
W.L.–C.C.		6.8	
FLTR. CK.		2/32	
PH	9.0	10.5	10.5
SD. CONT. %		.06	
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		
CAUSTIC	50#		

DRILLER: B. Armstrong

FOOTAGE

FROM	TO	DR–D RM–R CORE–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL–S PAR'EL–P COM'D–C
2993	3071	D		FUEL – 4.50	40	30	1350	5½		5½	68	S
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3060	1 1/3							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12 00	1 30	1½	DRLG 7 7/8 HOLE
1 30	1 45	¼	RIG SERVICE
1 45	7 45	6	DRLG 7 7/8 HOLE
7 45	8 00	¼	W.L. SURVEY

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
27	STANDS D.P.	2564.28	FT.
1	SINGLES D.P.	31.40	FT.
18	D.C. 2 7/8 I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	16.45	FT.
	TOTAL	3141.00	FT.
WT. OF STRING	92,000		LBS.

BIT RECORD

BIT NO.		9
SIZE		7 7/8
MFG.		H.W
TYPE		R. X55R
NOZZLE	NO.	3
	SIZE	12
SER. NO.		11081
DEPTH OUT		
DEPTH IN		2978
TOTAL FTG.		163
TOTAL HR. RUN		16¾
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	10 00	1 00	3 00
WEIGHT	9.4	9.4	9.4
VISC.–SEC	45	40	40
W.L.–C.C.			7.0
FLTR. CK.			2/32
PH	10.0	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: E. W. Hagerman

FOOTAGE

FROM	TO	DR–D RM–R CORE–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL–S PAR'EL–P COM'D–C
3071	3141	D			40	30	1350	5½		5½	68	S
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8 00	8 30	¼	Service Rig, Swivel & Hydril & B.O.Ps
8 30	4 00	7¾	Drlg 7 7/8" Hole.
			EMPTY SAND TRAP

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
28	STANDS D.P.	2625.07	FT.
	SINGLES D.P.		FT.
18	D.C. I.D. O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	24.66	FT.
	TOTAL	3210.00	FT.
WT. OF STRING	92,000		LBS.

BIT RECORD

BIT NO.		9
SIZE		7 7/8
MFG.		H.W
TYPE		RX55R
NOZZLE	NO.	3
	SIZE	12
SER. NO.		11081
DEPTH OUT		IN
DEPTH IN		2978
TOTAL FTG.		232
TOTAL HR. RUN		24¼
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	5 00	8 00	11 P.M.
WEIGHT	9.4	9.5	9.5
VISC.–SEC	45	41	52
W.L.–C.C.		7.6	7.4
FLTR. CK		2/32	2/32
PH	9.5	9.5	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500	PLASTER	50#
KELZAN	50#		

DRILLER: E. W. Hagerman

FOOTAGE

FROM	TO	DR–D RM–R CORE–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL–S PAR'EL–P COM'D–C
3141	3210	D			40	30	1350	5½		5½	67	S
					40	30	1150	X		X	58	S
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	3166	1							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4 00	6 30	2½	DRLG 7 7/8" hole
6 30	6 40	¼	SERVICE RIG, SWIVEL & KELLY COCK
6 45	7 00	¼	SURVEY
7 00	12 00	5	DRLG 7 7/8" hole

DAILY DRILLING REPORT

REPORT NO. 21 DATE Mar 2/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Triad Oil Co	Triad B.P. Arco C C Hume R.	0-62	Hume River	N W T	Canada

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5 O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP	48# H40	3			87.37	Cemented
	8 5/8	JAP	24# J55	12	505	12.25	517.72	To Surface

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	7½	4¾
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			2
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY		¼	¼
TEST B.O.P.			¼
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			½
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	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.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
24	STANDS D.P.	2249.35	FT.
2	SINGLES D.P.	63.11	FT.
18	D.C. 2 7/8 I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
1	Junk Sub	2.40	FT.
	KELLY DOWN	18.87	FT.
	TOTAL	2894.00	FT.
WT. OF STRING	86,000	LBS.	

BIT RECORD		
BIT NO.	8	
SIZE	7 7/8	
MFG.	H.W	
TYPE	OWC	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	91728	
DEPTH OUT	IN	
DEPTH IN	2803	
TOTAL FTG.	91	
TOTAL HR. RUN	9¼	
COND. OF BIT	Run	
REAMER NO.		
REAMER TYPE		

MUD RECORD TIME	1 AM	4 AM	6 AM
WEIGHT	9.5	9.5	9.5
VISC.-SEC	65	50	65
W.L.-C.C.	7.2		6.8
FL.TR. CK.	2/32		2/32
PH	11.0	10.0	9.5
SD. CONT. %	.05		.06
PRESSURE GRADIENT			

Calcium to 90 P.P.M.

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		
KELZAN	50#		
Dowicide	10#		

DRILLER: B. Armstrong

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2817	2894	D		FUEL - 5.50	48	35	1350	5½		5½	68	S
								x		x		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	¼	Rig Service
12:15	8:00	7¾	Drlg 7 7/8 Hole

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
25	STANDS D.P.	2343.81	FT.
	SINGLES D.P.		FT.
18	D.C. 2 7/8 I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.	6.69	FT.
	STB. BODY O.D.	7.49	FT.
	RMR. BODY O.D.	4.68	FT.
	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
1	Junk Sub	2.40	FT.
	KELLY DOWN	41.50	FT.
	TOTAL	2947.68	FT.
WT. OF STRING	88m	LBS.	

BIT RECORD		
BIT NO.	8	
SIZE	7 7/8	
MFG.	H.W	
TYPE	O.W.C	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	91728	
DEPTH OUT	IN	
DEPTH IN	2803	
TOTAL FTG.	144	
TOTAL HR. RUN	16¾	
COND. OF BIT	Run	
REAMER NO.		
REAMER TYPE		

MUD RECORD TIME	9:00	12:00	4:00
WEIGHT	9.5	9.5	9.5
VISC.-SEC	52	72	60
W.L.-C.C.		7.0	
FL.TR. CK.			
PH	9.0	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#	KELZAN	50#
PLASTER	50#	Dowicide	10#
GEL	500#		

DRILLER: E.O. Hausmann

FROM	TO	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-C
2894	2947	D			50	35	1350	5½		5½	67	S
					55	35		x		x		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2906	1½							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	10:30	2½	Drlg 7 7/8" hole
10:30	10:45	¼	Service Rig Swivel & Kelly Cock & B.O.Ps
10:45	11:00	¼	Survey @ 2906
11:00	4:00	5	Drlg 7 7/8" hole
			Changed Gland Packings on ~~Pump~~ No 2 Pump
			Emptied Sand Trap
			Held Safety Meeting - Blowout Drill

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
25	STANDS D.P.	2343.11	FT.
2	SINGLES D.P.	63.25	FT.
18	D.C. 2 7/8 I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
	~~Junk Sub~~	~~2.40~~	FT.
	KELLY DOWN	26.37	FT.
	TOTAL	2993.00	FT.
WT. OF STRING	88,000	LBS.	

BIT RECORD		
BIT NO.	8	9
SIZE	7 7/8	7 7/8
MFG.	H.W	H.W
TYPE	O.W.C	RSSR
NOZZLE NO.	3	3
NOZZLE SIZE	12	12
SER. NO.	91728	11081
DEPTH OUT	2978	IN
DEPTH IN	2803	2978
TOTAL FTG.	175	15
TOTAL HR. RUN	20	1½
COND. OF BIT	~~63/1~~	Run
REAMER NO.	3-6-1	
REAMER TYPE		

MUD RECORD TIME	7:00		11:30
WEIGHT	9.5		9.5
VISC.-SEC	62		49
W.L.-C.C.	7.2		7.0
FL.TR. CK	2/32		2/32
PH	9.0		9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: E.O. Hausmann / B. Armstrong

FROM	TO	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-C
2947	2993	D			50	30	1350	5½		5½	67	
					40	30	1350	x		x		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2978	1¼°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	4:15	¼	Rig Service
4:15	7:30	3¼	Drlg 7 7/8" hole
7:30	8:45	1¼	Survey & Hoist
8:45	9:00	¼	Run B.O.Ps - Change Bits
9:00	10:00	1	Run In w/ Bit #9
10:00	10:30	½	Break Circ - Clean 10' To Btm.
10:30	12:00	1½	Drlg 7 7/8 Hole

DAILY DRILLING REPORT

REPORT NO. 20 DATE MAR 1/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO.	TRIAD B.P. ARCO CC HUME R.	O-62	HUME RIVER	N.W.T.	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
13⅜	JAP	48# H40	3			87.37	CEMENTED
8⅝	JAP	24# J55	15	505	12.25	517.72	TO SURFACE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			4¼
DRILLING ACTUAL	6¾	7½	~~7½~~
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	¾		2
LUBRICATE RIG	¼	¼	~~¼~~
DEVIATION SURVEY	¼	¼	¼
TEST B.O.P.			¼
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			1
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

	MORN	DAY	EVE
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.

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
22	STANDS D.P.	2060.03	FT.
	SINGLES D.P.		FT.
18	D.C. 2⅞ I.D. 6¼ O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	23.70	FT.
	TOTAL	2644.00	FT.
	WT. OF STRING	86,000	LBS.

BIT RECORD

BIT NO.	RR #7	
SIZE	7⅞	
MFG.	H.W	
TYPE	X55R	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	20126	
DEPTH OUT	IN	
DEPTH IN	2291	
TOTAL FTG.	353	
TOTAL HR. RUN	28	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1.00	8. P.M.	7. AM.
WEIGHT	9.4	9.4	9.4
VISC.-SEC	65	90	76
W.L.-C.C.		6.4	
FL.TR. CK.	2/32	2/32	
PH	10.5	11.0	10.5
SD. CONT. %		.05	
PRESSURE GRADIENT	CALCIUM	100 P.P.M	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		
CAUSTIC	50#		

DRILLER: B. Armstrong

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2550	2644	D		FUEL - 6.10	40	30	1350	5½		5½	68	5
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2590	1°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	1.15	1¼	DRLG 7⅞ HOLE
1.15	1.30	¼	RIG SERV. - V BOPs & KELLY COCK
1.30	2.15	¾	6 STD DUMMY TRIP
2.15	4.30	2¼	DRLG 7⅞ HOLE
4.30	4.45	¼	W.L. SURVEY
4.45	8.00	3¼	DRLG 7⅞ HOLE
			HELD SAFETY MEETING & BLOWOUT DRILL.

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
23	STANDS D.P.	2185.94	FT.
1	SINGLES D.P.		FT.
18	D.C. I.D. O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	18.79	FT.
	TOTAL	2765	FT.
	WT. OF STRING	86,000	LBS.

BIT RECORD

BIT NO.	RR 7	
SIZE	7⅞	
MFG.	H.W	
TYPE	X55R	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	20126	
DEPTH OUT		
DEPTH IN	2291	
TOTAL FTG.		
TOTAL HR. RUN	35½	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9.00	12.00	4.00
WEIGHT	9.5	9.5	9.5
VISC.-SEC	70	87	75
W.L.-C.C.			
FLTR. CK.			
PH	10.0	10.0	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
PLASTER	50#		

DRILLER:

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2644	2765	D			40	35	1350	5½		5½	68	5
					40	30	1350	X		X	67	
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2745	1¼							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	9.00	1	DRLG 7⅞" Hole.
9.00	9.15	¼	Rig Service V B.O.P.'s & Kelly Cock
9.15	3.15	6	DRLG 7⅞ Hole
3.15	3.30	¼	W.L. Survey
3.30	4.00	½	DRLG 7⅞" Hole.

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
23	STANDS D.P.	2154.40	FT.
2	SINGLES D.P.	63.17	FT.
18	D.C. 6¼ I.D. O.D.	535.24	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	4.68	FT.
2	RMR. BODY O.D.	6.17	FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
1	JUNK SUB	2.40	FT.
	KELLY DOWN	36.76	FT.
	TOTAL	2817.00	FT.
	WT. OF STRING	86,000	LBS.

BIT RECORD

BIT NO.	RR 7	8
SIZE	7⅞	7⅞
MFG.	H.W	H.W
TYPE	X55R	OWC
NOZZLE NO.	3	3
NOZZLE SIZE	12	12
SER. NO.	20126	91728
DEPTH OUT	2803	IN
DEPTH IN	2291	2803
TOTAL FTG.	512	14
TOTAL HR. RUN	38¼	1½
COND. OF BIT	6-8-1	RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	6.00		11.00
WEIGHT	9.5	T	9.5
VISC.-SEC	63		45
W.L.-C.C.	7.0	R	
FLTR. CK	2/32		
PH	9.0	P	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
KELZAN	50#		
CAUSTIC	50#		
GEL	500#		

DRILLER: [signature]

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2765	2817	D			40	30	1350	5½		5½	67	
					40	35	1300	X		X	67	
					40	30	1350	14		14	68	5

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2803	MISRUN							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS				
4.00	4.45	¾	DRLG 7⅞" hole				
4.45	5.00	¼	Service Rig Swivel & Kelly Cock				
5.00	7.00	2	DRLG 7⅞" hole				
7.00	8.15	1¼	Survey & Hoist	10.30	12.00	1½	Drlg 7⅞ Hole
8.15	8.30	¼	V BOPs & Change Bits				
8.30	9.00	½	Change Stab. Rubbers				
9.00	10.00	1	Run In w/Bit #8				
10.00	10.30	½	Break Circ - Work Junk Sub.				

DAILY DRILLING REPORT — REPORT NO. 19 — DATE FEB 28/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO	TRIAD B.P. ARCO CC. HUME R.	0-62	HUME RIVER.	N. W. T.	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5	3½IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP	48# H40	3			87.37	CEMENTED
	8 5/8	JAP	24# J55	15	505	12.25	517.72	TO SURFACE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	6	7 3/4	7½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	1½		
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY		¼	¼
TEST B.O.P.		1/4	
CUT OFF ~~SUP~~ DRILLING LINE	¼		
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			

WIRE LINE RECORD

REEL NO.

NO. OF LINES — SIZE

FEET SLIPPED 23'

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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
18	STANDS D.P.		1687.16 FT.
2	SINGLES D.P.		63.12 FT.
18	D.C.	2 7/8 I.D. 6 1/4 O.D.	535.24 FT.
	D.C.	I.D. O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		38.45 FT.
	TOTAL		2349.00 FT.
WT. OF STRING	80,000 LBS.		

BIT RECORD

BIT NO.		RR#7
SIZE		7 7/8
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	3
	SIZE	12
SER. NO.		20126
DEPTH OUT		IN
DEPTH IN		2291
TOTAL FTG.		58
TOTAL HR. RUN		6
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME		4 AM.	7:00
WEIGHT	T	9.5	9.6
VISC.-SEC		75	90
W.L.-C.C.	R	7.0	
FLTR. CK.		2/32	
PH		10.5	10.0
SD. CONT. %	P	.66	
PRESSURE GRADIENT	Calcium	75 PPM	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		
KEMZAN	50#		

DRILLER: B. Armstrong

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2291	2349	D		FUEL - 6.90	40	35	1400	5½		5½	68	S
					40	30	1400	X		X	68	S
								14		14		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG — DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

FROM	TO	ELAPSED TIME	
12:00	12:15	¼	RIG SERVICE - ✓ BOPs.
12:15	12:30	¼	SLIP 23' DRLG LINE
12:30	2:00	1½	RUN IN W/ BIT - PICK UP REAMER, STABILIZERS & 3 D.C.'S
2:00	8:00	6	DRLG 7 7/8 HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
19	STANDS D.P.		1782.01 FT.
2	SINGLES D.P.		60.82 FT.
18	D.C.	I.D. O.D.	535.24 FT.
	D.C.	I.D. O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		41.50 FT.
	TOTAL		2449 FT.
WT. OF STRING	80 M. LBS.		

BIT RECORD

BIT NO.		RR#7
SIZE		7 7/8
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	3
	SIZE	12
SER. NO.		20126
DEPTH OUT		
DEPTH IN		2291
TOTAL FTG.		153
TOTAL HR. RUN		13¾
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9:00	1:00	4:00
WEIGHT	9.6	9.5	9.5
VISC.-SEC	75	65	67
W.L.-C.C.			8.
FLTR. CK.			9/32
PH	10.0	10.0	10.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	40#	DOMESTIC	30#
GEL	500#		
PLASTER	50#		

DRILLER: W. Hausmann

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2349	2444	D			40	30	1400	5½		5½	68	
								X		X		
								14		14		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2341	1½							

TIME LOG — DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

FROM	TO	ELAPSED TIME	
8:00			Service Rig, Swivel & Kelly Cock
	8:30	½	✓ B.O.PS
8:30	8:45	¼	Survey @ 2341
8:45	4:00	7¼	Drlg 7 7/8" Hole
			Cleaned Sand Trap & No 1 Settling Tank

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
21	STANDS D.P.		1966.10 FT.
	SINGLES D.P.		FT.
18	D.C. 6 1/4	I.D. O.D.	535.24 FT.
	D.C.	I.D. O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		23.63 FT.
	TOTAL		2550.00 FT.
WT. OF STRING	80,000 LBS.		

BIT RECORD

BIT NO.		RR7
SIZE		7 7/8
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	3
	SIZE	12
SER. NO.		20126
DEPTH OUT		IN
DEPTH IN		2291
TOTAL FTG.		259
TOTAL HR. RUN		21¼
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	6:00	8:30	10:00
WEIGHT	9.4	9.4	9.4
VISC.-SEC	65	50	55
W.L.-C.C.		7.4	
FLTR. CK		2/32	
PH	10.0	10.0	
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
KELTEX	55#		
GEL	1000#		

DRILLER: B. Armstrong

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2444	2550	D			40	30	1350	5½		5½	68	5
								X		X		
								14		14		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2034	1 2/3							

TIME LOG — DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

FROM	TO	ELAPSED TIME	
4:00	4:15	¼	Service Rig, Swivel & Kelly Cock - ✓ B.O.Ps
4:15	4:30	¼	Survey @ 2034
4:30	12:00	7½	Drlg 7 7/8" Hole.

DAILY DRILLING REPORT

REPORT NO. 18 DATE FEB 27/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO	TRIAD B.P. ARCO CC HUME R.	0-62	HUME RIVER	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13⅜	JAP	48# H40	3			87.37	CEMENTED
	8⅝	JAP	24# J55	15	505	1225	517.72	TO SURFACE

MORNING TOUR

TIME DISTRIBUTION–HOURS	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	5½	8	
TRIPS	2½	3½	3¾
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
LOGGING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			3¼
OTHER		½	3
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

DRILLING ASSEMBLY AT END OF TOUR NO.			
19	STANDS D.P.	1782.01	FT.
	SINGLES D.P.		FT.
15	D.C. I.D. 2¼ O.D. 6¼	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	35.87	FT.
	TOTAL	2291.00	FT.
WT. OF STRING	76,000		LBS.

BIT RECORD		
BIT NO.	RR # 4	
SIZE	7⅞	
MFG.	H.W	
TYPE	ODV-J	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	18232	
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD TIME	2.00 AM	8.00 AM	7.00
WEIGHT	9.4	9.5	9.5
VISC.-SEC	75	85	95
W.L.-C.C.		6.4	
FLTR. CK.		2/32	
PH	9.0	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			
	CALCIUM 90 P.P.M.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL.	1100		

DRILLER: B. Armstrong

FOOTAGE FROM	TO	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-P COM'D-C
2291												

DEVIATION RECORD DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	2.15	2¼	CIRC & MIX GEL - CLEANING BRIDGES ~~FROM BTM~~ 900' TO 1200'
2.15	3.45	1½	FINISH IN W/BIT - CLEAN 150' FILL ON BTM.
3.45	7.00	3¼	CIRC & COND. MUD TO TEST - WORK TIGHT HOLE
7.00	8.00	1	DUMMY TRIP - HOLE TIGHT

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR NO.			
19	STANDS D.P.	1782.01	FT.
	SINGLES D.P.		FT.
15	D.C. I.D. 2¼ O.D. 6¼	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	35.87	FT.
	TOTAL	2291.00	FT.
WT. OF STRING			LBS.

BIT RECORD		
BIT NO.	RR 4	
SIZE	7⅞	
MFG.	H.W	
TYPE	ODV-J	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	18232	
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD TIME	9.00	11.00	2.00
WEIGHT	9.5	9.5	9.5
VISC.-SEC	95	130	120
W.L.-C.C.	8.0	4.2	8.0
FLTR. CK.	2/32	2/32	2/32
PH	9.0	10.0	10.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		

DRILLER: E.W. Freeman

FOOTAGE FROM	TO	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-P COM'D-C
2291	Clean to Bottom						1300	5½		5½	65	
								X		X		
								14		14		

DEVIATION RECORD DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	9.00	1	DUMMY TRIP OUT TO 850 FT.
9.00	10.00	1	CLEAN BRIDGE @ 2056' + CLEAN TO BOTTOM
10.00	12.00	2	CIRC. HOIST 100 2 STD EVERY ½ HR. (COND. MUD)
12.00	1.00	1	SLOW 10 STD DUMMY TRIP C/O FILL ON BTM.
1.00	2.00	1	CIRC. TO TEST
2.00	3.30	1½	HOIST SLOW TO TEST
3.30	4.00	½	MAKE UP PACKER

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD		
BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: B. Armstrong

FOOTAGE FROM	TO	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-P COM'D-C

DEVIATION RECORD DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.30	½	FINISH MAKING UP PACKER PF 5 min ISI 60 min FSI 40
4.30	5.45	3/4	RUN IN. SLOW C/O PACKER 1060 MP 860 & 850
5.15	5.30	¼	MAKE UP TESTING HEAD ISIP 590 FP 40 FFP 48
5.30	8.45	3¼	Drill Stem Testing No 4 FSIP 345 very weak airblow
8.45	9.45	1	HOIST DST ~~#4~~ - SLOW on pressure and initial flow
9.45	12.00	2¼	BREAK - SERVICE & LAY DOWN TESTING TOOLS. dead after 2 mins

OST No 3: ~~Hare Indian~~ Ramparts

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

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

DAILY DRILLING REPORT

REPORT NO. 17 DATE FEB 26/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO	TRIAD B.P. ARCO C.C. HUME R.	O-62	HUME RIVER	N.W.T.	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Hanson

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13⅜	JAP	48# H40	3			87.37	CEMENTED
	8⅝	JAP	24# J55	15	505	12.25	517.12	TO SURFACE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¼	3½	
REAMING			
CONDITIONING MUD & CIRCULATING		2	2½
TRIPS		2	2½
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY	¼		
TEST B.O.P.		¼	¼
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	¼		2¾
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.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
18	STANDS D.P.		1689.25 FT.
2	SINGLES D.P.		61.40 FT.
15	D.C. I.D. 2⅞	O.D. 6¼	448.09 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		23.23 FT.
	TOTAL		2241.00 FT.
WT. OF STRING	76,000 LBS.		

BIT RECORD

BIT NO.		7
SIZE		7⅞
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	3
	SIZE	12
SER. NO.		20126
DEPTH OUT		1N
DEPTH IN		1992
TOTAL FTG.		255
TOTAL HR. RUN		35½
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	3 AM.	5 AM.	7 AM.
WEIGHT	9.3	9.3	9.3
VISC.-SEC	41	47	52
W.L.-C.C.		8.0	
FL.TR. CK.		2/32	
PH	10.0	10.0	10.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
KELZAN	50#		
GEL	1800#		
DOWICIDE	16#		

DRILLER: B. Armstrong

FOOTAGE

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
2171	2247	D		FUEL - 8.00	40	33	1150	5½	70	5½		5
					40	33	1225	X		X	70	5
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	2224	⅞°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.15	¼	CLEAN 15' TO BTM.
12.15	12.30	¼	RIG SERVICE
12.30	6.30	6	DRLG 7⅞ HOLE
6.30	6.45	¼	W.L. SURVEY
6.45	8.00	1¼	DRLG 7⅞ HOLE
			CHANGED 2 VALVE SEATS IN #1 PUMP
			WASHED OUT BOTH BOILERS

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
14	STANDS D.P.		1782.01 FT.
	SINGLES D.P.		FT.
15	D.C. I.D. 6¼	O.D.	448.09 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		35.87 FT.
	TOTAL		2291.00 FT.
WT. OF STRING	76 M LBS.		

BIT RECORD

BIT NO.		7
SIZE		7⅞
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	3
	SIZE	12.
SER. NO.		20126
DEPTH OUT		2291
DEPTH IN		1992
TOTAL FTG.		299
TOTAL HR. RUN		39
COND. OF BIT		1-1-I
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9.00	11.00	2.00
WEIGHT	9.3	9.3	9.4
VISC.-SEC	47.	47.	67.
W.L.-C.C.			
FL.TR. CK.			
PH	10.	10.	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#		
PLASTER	50#		

DRILLER: E.W. Hausmann

FOOTAGE

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
				TALLY 2296.63								
2247	2291	D		STRAP OUT 2296.98	40	33	1250	5½	~~6~~	5½	~~6~~ 5	5
				~~Tally~~ ~~22.97~~ 6.5				X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	9.30	1½	DRLG 7⅞" HOLE
9.30	10.00	½	SERVICE RIG, SWIVEL & KELLY COCK & B.O.P.S
10.00	12.00	2.	DRLG 7⅞" HOLE
12.00	12.30	½	CIRC.
12.30	1.30	1	DUMMY TRIP 10 STDS HOLE TIGHT
1.30	3.00	1½	CIRC. COND. HOLE & MUD TO TEST
3.00	4.00	1	HOIST TO TEST & STRAP OUT

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D.	O.D.	FT.
	D.C. I.D.	O.D.	FT.
	STB. BODY	O.D.	FT.
	STB. BODY	O.D.	FT.
	RMR. BODY	O.D.	FT.
	SUBS	O.D.	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE	NO.	
	SIZE	
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			11.00
WEIGHT			9.3
VISC.-SEC			60
W.L.-C.C.			6.4
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: B. Armstrong

FOOTAGE

FROM	TO	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-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	4.15	¼	CHECK B.O.P.S + MOTOR AIR SHUT OFFS O.K.
4.15	7.00	2¾	MAKE UP PACKER
7.00			RUN IN W/ PACKER HIT BRIDGE @ 900FT UNABLE
	8.00	1	TO REACH BOTTOM
8.00	8.15	¾	HOIST & LAY DOWN PACKER
8.15	9.30	¾	RUN IN W/BIT TO CLEAN OUT HOLE
9.30	12.00	2½	REAM BRIDGE & CIRC @ 900' - MIX MUD

DAILY DRILLING REPORT

REPORT NO. 16 DATE FEB 25/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO.	TRIAD B.P. ARCO C.C. HUME R.	O-62	HUME RIVER	N. W. T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4	5	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: G. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. C. Hanson

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14
2.	NSCO	K-380	14
3.			

	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
LAST CASING	13⅜	JAP	48# H40	3			87.37	CEMENTED
TUBING OR LINER	8⅝	JAP	24# J55	15	505	12.25	517.22	TO SURFACE

MORNING TOUR

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7¾	5	7¼
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			½
LUBRICATE RIG	¼	1¼	¼
DEVIATION SURVEY		¼	
TEST B.O.P.		¼	
CUT OFF DRILLING LINE			
REPAIR RIG		2¼	
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

DRILLING ASSEMBLY AT END OF TOUR

NO.			
17	STANDS D.P.		1594.69 FT.
	SINGLES D.P.		FT.
15	D.C. 2⅞ I.D.	6¼ O.D.	448.09 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		21.19 FT.
	TOTAL		2089.00 FT.
WT. OF STRING	76,000 LBS.		

BIT RECORD

BIT NO.		7
SIZE		7⅞
MFG.		H.W.
TYPE		X55R.
NOZZLE	NO.	3
	SIZE	12
SER. NO.		20126
DEPTH OUT		IN
DEPTH IN		1992
TOTAL FTG.		97
TOTAL HR. RUN		16
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	2 AM	5 AM	7 AM
WEIGHT	9.2	9.2	9.2
VISC.-SEC	47	44	42
W.L.-C.C.			7.4
FLTR. CK.			2/32
PH	10.0	10.0	10.0
SD. CONT. %			
PRESSURE GRADIENT			

CALCIUM 90 P.P.M. AT 7 AM.

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
KELZAN	50#		
GEL	500#		
DOWICIDE B	10#		

DRILLER: B. Armstrong

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2042	2089	D		FUEL - 5.60	40	26	1100	5½	70	5½		S
								X		X		
								14		14		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	RIG SERV - ✓ BOPs & KELLY COCK.
12¹⁵	8⁰⁰	7¾	DRLG 7⅞ HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
17	STANDS D.P.		1625.66 FT.
1	SINGLES D.P.		FT.
15	D.C. I.D.	O.D.	448.09 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		16.22 FT.
	TOTAL		2115.00 FT.
WT. OF STRING	76M LBS.		

BIT RECORD

BIT NO.		7
SIZE		7⅞
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	3
	SIZE	12
SER. NO.		20176
DEPTH OUT		
DEPTH IN		1992
TOTAL FTG.		123
TOTAL HR. RUN		21
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD ✓

TIME	10⁴⁰	1⁰⁰	3⁰⁰
WEIGHT	9.3	9.3	9.3
VISC.-SEC	47	45	37
W.L.-C.C.			8.0
FLTR. CK.			2/32
PH	9.5	9.0	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
PLASTER	50		

DRILLER: E. O. Hausmann

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
2089	2115	D			40	26	1100	5½	70	5½		
					40	30	1100	X	70	X		
								14		14		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2099	¾							

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	11⁴⁵	3¾	DRLG 7⅞" Hole
11⁴⁵	12¹⁵	½	SERVIC RIG, SWIVEL & KELLY COCK & B.O.Ps
12¹⁵	12³⁰	¼	SURVEY @ 2099
12³⁰	2⁴⁵	2¼	MAINTAIN RIG ELECTRIC POWER. (work on blower
2⁴⁵	4⁰⁰	1¼	DRLG 7⅞" hole
			Cleaned Sand Trap

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
17	STANDS D.P.		1625.66 FT.
2	SINGLES D.P.		62.34 FT.
15	D.C. 2⅞ I.D.	6¼ O.D.	448.09 FT.
	D.C. I.D.	O.D.	FT.
1	STB. BODY	O.D.	6.69 FT.
1	STB. BODY	O.D.	7.49 FT.
1	RMR. BODY	O.D.	4.68 FT.
2	SUBS	O.D.	6.17 FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		41.50 FT.
	TOTAL		2171.65 FT.
WT. OF STRING	76,000 LBS.		

BIT RECORD

BIT NO.		7
SIZE		7⅞
MFG.		H.W
TYPE		X55R
NOZZLE	NO.	3
	SIZE	12
SER. NO.		20126
DEPTH OUT		IN
DEPTH IN		1992
TOTAL FTG.		179
TOTAL HR. RUN		28¼
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	5⁰⁰	9 P.M.	11³⁰ P.M.
WEIGHT	9.2	9.2	9.2
VISC.-SEC	52	46	45
W.L.-C.C.		8.4	8.2
FLTR. CK		2/32	2/32
PH	9.5	10.5	10.5
SD. CONT. %			
PRESSURE GRADIENT			

CALCIUM 80 P.P.M. AT 11.P

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#		
CAUSTIC	50#		
KELZAN	50#		

DRILLER: B. Armstrong

FOOTAGE

FROM	TO	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-C
2115	2171	D			40	30	1100	5½	70	5½		S
					40	33	1100	X	70	X		S
								14		14		

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG

FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	7⁴⁵	3¾	DRLG 7⅞" hole
7⁴⁵	8⁰⁰	¼	SERVICE RIG, SWIVEL & KELLY COCK.
8⁰⁰	11³⁰	3½	DRLG 7⅞ HOLE
11³⁰	12⁰⁰	½	DUMMY TRIP 6 STDS.

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.	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

DAILY DRILLING REPORT

REPORT NO. 15 DATE Feb 24/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD Oil Co	TRIAD B.P. ARCO C.C. Hume River	0-62	Hume River	M.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	O.D.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4"	TYPE THD. 3½ IF	5"

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A L Hansen

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAC	K-380	14
2.	NAC	K-380	14
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP	48 H40	3			87.37	Cement To
	8 5/8	JAP	27 J55	15	505	1225	517.72	SURFACE

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	5¼	
REAMING		½	
CONDITIONING MUD & CIRCULATING			
TRIPS		1½	
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	¼	¼	
TEST B.O.P.		¼	
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	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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
15	STANDS D.P.		1467.99 FT.
2	SINGLES D.P.		FT.
15	D.C. I.D. 6¾ O.D.		448.09 FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	25.16	FT.
	TOTAL	1966	FT.
WT. OF STRING	76 M		LBS.

BIT RECORD

BIT NO.	RR6	
SIZE	7 7/8	
MFG.	HW	
TYPE	RX55R	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	20127	
DEPTH OUT		
DEPTH IN	1754	
TOTAL FTG.	212	
TOTAL HR. RUN	43¾	
COND. OF BIT	Run	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1 A.M.	3.30 A.M.	7 A.M.
WEIGHT	9.1	9.1	9.3
VISC.-SEC	45	55	48
W.L.-C.C.	6.8	6.8	7.2
FLTR. CK.	2/32	2/32	2/32
PH	10.0	10.0	9.5
SD. CONT. %			
PRESSURE GRADIENT			

Calcium 110 PPM

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
KELZAN	50#		
CEL	500#		

DRILLER: Jim Lovell

FOOTAGE

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
1919	1966	DR.			52	20	1150	5½	70			
								X				
								14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1919	¾							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
			FUEL AT 630 AM 7'5
1200	1215	¼	SURVEY @ 1919'
1215	1230	¼	Rig SERV & BOPs.
1230	800	7½	DRILL 7 7/8 HOLE

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
16	STANDS D.P.	1498.54	FT.
	SINGLES D.P.		FT.
15	D.C. I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	22.64	FT.
	TOTAL	1995.0	FT.
WT. OF STRING	76 M		LBS.

BIT RECORD

BIT NO.	RR6	7
SIZE	7 7/8	7 7/8
MFG.	HW	H.W
TYPE	RX55R	X55R
NOZZLE NO.	3	3
NOZZLE SIZE	12	12
SER. NO.	20127	20126
DEPTH OUT		
DEPTH IN	1754	1992
TOTAL FTG.	238	3
TOTAL HR. RUN	48½	½
COND. OF BIT	1-2-I	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	10 AM		7.00
WEIGHT	9.2		9.3
VISC.-SEC	47		45
W.L.-C.C.			
FLTR. CK.			
PH	9.0		9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: E.W. Hausmann

FOOTAGE

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
1966	1995	D			52	20	1100	5½	70	5½		
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1980	1							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8.00	11.15	3¼	DRLG 7 7/8" Hole
11.15	11.30	¼	SERVICE Rig, Swivel ✓ HYDRIL & KELLY Cock
11.30	1.00	1½	DRLG 7 7/8" Hole O.K
1.00	1.15	¼	SURVEY 1980
1.15	2.00	¾	HOIST FOR BIT
2.00	2.15	¾	CHANGE BITS & ✓ B.O.P.s
2.15	3.00	¾	RUN IN W/ BIT #7
3.00	3.30	½	BREAK CIRC & CLEAN 40 FT. TO B.T.M

{ 3.30 4.00 " DRLG 7 7/8" hole

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
16	STANDS D.P.	1498.54	FT.
1	SINGLES D.P.	32.18	FT.
15	D.C. I.D. 2 7/8 O.D. 6¼	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	37.46	FT.
	TOTAL	2042.00	FT.
WT. OF STRING	76,000		LBS.

BIT RECORD

BIT NO.	7	
SIZE	7 7/8	
MFG.	H.W	
TYPE	X55R	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	20126	
DEPTH OUT	IN	
DEPTH IN	1992	
TOTAL FTG.	50	
TOTAL HR. RUN	8¼	
COND. OF BIT	Run	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	7.00	9 P.M.	11.00
WEIGHT	9.2	9.2	9.2
VISC.-SEC	44	45	42
W.L.-C.C.			7.2
FLTR. CK			2/32
PH	8.5	10.0	10.5
SD. CONT. %			
PRESSURE GRADIENT			

Calcium 100 P.P.M

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		

DRILLER: E.W. Hausmann / D. Armstrong

FOOTAGE

FROM	TO	DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL-S PAR'EL-P COM'D-C
1995	2042	D			50	22	1100	5½	70	5½		
					40	26	1100	X	70	X		5
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4.00	7.30	3½	DRLG 7 7/8" hole
7.30	7.45	¼	SERVICE Rig SWIVEL ✓ KELLY Cock
7.45	12.00	4¼	DRLG 7 7/8 HOLE

DAILY DRILLING REPORT

REPORT NO. 14 DATE FEB 23 1976

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO. LTD.	TRIAD BP. ARCO. CC HUME RIVER	0-62	HUME RIVER	N. W. T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4"	5" O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: K. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. L. Hanson

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO.	K-380	14"
2.	NSCO.	K-380	14"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13⅜	JAP.	48# H-40	3			87.37	CEMENTED TO
	8⅝	JAP	29# J-55	15	505	12.25	517.72	SURFACE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	3½	8	7¾
REAMING	4		1
CONDITIONING MUD & CIRCULATING			
TRIPS			
LUBRICATE RIG	¼		¼
DEVIATION SURVEY	¼		
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. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	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	8 SIZE 1⅛
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	1½ Trips
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
14	STANDS D.P.		FT.
1	SINGLES D.P.	1345.29	FT.
15	D.C. I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	11.59	FT.
	TOTAL	1830.00	FT.
WT. OF STRING	74M		LBS.

BIT RECORD

BIT NO.	RR 6	
SIZE	7⅞	
MFG.	H-W	
TYPE	RX55R	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	20127	
DEPTH OUT		
DEPTH IN	1754	
TOTAL FTG.	76'	
TOTAL HR. RUN	13½	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1:00	3:30	7:00
WEIGHT	9.1	9.1	9.1
VISC.-SEC	62	64	60
W.L.-C.C.	8.1		
FLTR. CK.	2/32		
PH	9.5	9.5	9.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Kelzan	100#		
Gel	500#		
Plaster	50#		

DRILLER: Ron Savill

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1773	1812	RMR			52	7M	1100	5½	70			
1812	1830	R			50	14	1100	X				
								14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1828	1°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
			Fuel @ 6 AM 6'
12:00	4:00	4	REAMING 6½ TO 7⅞
4:00	4:15	¼	SER. RIG & BOPs.
4:15	7:30	3¼	DRILLING 7⅞ hole
7:30	7:45	¼	SURVEY @ 1828' 1°
7:45	8:00	¼	DRILLING

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
14	STANDS D.P.		FT.
2	SINGLES D.P.	137.56	FT.
15	D.C. 6¼ I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	33'	FT.
	TOTAL	1883	FT.
WT. OF STRING	74M		LBS.

BIT RECORD

BIT NO.	RR 6	
SIZE	7⅞	
MFG.	HW	
TYPE	RX55R	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	20127	
DEPTH OUT		
DEPTH IN	1754	
TOTAL FTG.	129	
TOTAL HR. RUN	28½	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9:00 A.M.	12:00	3 P.M.
WEIGHT	9.0	9.0	9.1
VISC.-SEC	48	58	54
W.L.-C.C.	7.8		7.4
FLTR. CK.	2/32		3/32
PH	9.0	9.0	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
PLASTER	50#		
CAUSTIC	50#		

DRILLER: Jim Savell

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1830	1883	D			50	16	1150	5½	70			
						18		X				
								14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	4:00	8	DRILL 7⅞" hole

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
15	STANDS D.P.	1404.90	FT.
	SINGLES D.P.		FT.
15	D.C. 6¼ I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	41.50	FT.
	TOTAL	1919.52	FT.
WT. OF STRING	74M		LBS.

BIT RECORD

BIT NO.	RR 6	
SIZE	7⅞	
MFG.	HW	
TYPE	RX55R	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	20127	
DEPTH OUT	IN	
DEPTH IN	1754	
TOTAL FTG.	165	
TOTAL HR. RUN	36¼	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	6:30	9:00	
WEIGHT	9.1	9.1	9.1
VISC.-SEC	65	65	55
W.L.-C.C.			
FLTR. CK			
PH	10	10	10.0
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
PELTEX	10#		

DRILLER: Jim E.O. Freeman

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1883	1919	D			55	10	1050	5½	70	5½		
								X		X		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:30	1½	DRILL 7⅞" hole.
5:30	5:45	¼	Rig SERV + BOPs
5:45	12:00	6¼	DRILL 7⅞ HOLE

DAILY DRILLING REPORT

REPORT NO. 13 DATE FEB 22/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO. LTD.	TRIAD BP. ARCO. CC HUME RIVER	0-62	HUME RIVER	N.W.T.	CANADA.

CONTRACTOR: S & T DRILLING (WESTERN) CO. LTD. RIG NO. 1-E

DRILL PIPE STRING: NO. 2 SIZE 4" TYPE THD. 3½ IF

TOOL JOINT 5" O.D.

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. L. Hanson

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	N S C O.	K. 380	14"
2.	N S C O	K. 380	14"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13⅜	JAP	48# H40	3	87.43		87.37	CEMENTED TO
	8⅝	JAP	23# J55	15	505	1225	5777	SURFACE

MORNING TOUR

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			4
CONDITIONING MUD & CIRCULATING			
TRIPS	1½	1½	2½
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE		½	
REPAIR RIG			
CORING	5½		
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST		2½	1
OTHER	1	2½	½
MAKE UP DST		1	
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

DRILLING ASSEMBLY AT END OF TOUR

NO.			
13	STANDS D.P.	1220.29	FT.
1	SINGLES D.P.	31.20	FT.
15	D.C. I.D. 6¼ O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS O.D.	2.15	FT.
1	BIT OR C.B.	.5	FT.
		5.70	FT.
1	KELLY DOWN	41.50	FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	3 C	
SIZE	6¼	
MFG.	Chris	
TYPE	◇	
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.	712-YC	
DEPTH OUT	1812	
DEPTH IN	1758	
TOTAL FTG.	54	
TOTAL HR. RUN	27½	
COND. OF BIT	Good	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	100	300	
WEIGHT	9.2	9.2	
VISC.-SEC	66	65	
W.L.-C.C.	7.4		
FLTR. CK.	2/32		
PH	9.0	9.0	
SD. CONT. %			
PRESSURE GRADIENT			
Ca.	90PPM		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Ron Sowden

FOOTAGE

FROM	TO	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-C
1801	1812	Core	3	NOT ALL RECOVERED?	76	12	800	5½	46			
								X				
								14				

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	530	5½	CUTTING CORE #3 FUEL 6'4"
530	700	1½	PULL OUT W/CORE BBL. & STRAP OUT
700	800	1	RECOVER CORE #3
			STRAP OUT 1812.10'
			TALLY 1812.00
			NO CHANGE MADE DIFF. .10

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
13	STANDS D.P.	1220.29	FT.
1	SINGLES D.P.	31.20	FT.
15	D.C. I.D. 6¼ O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
2	SUBS O.D.	2.15	FT.
	BIT OR C.B.		FT.
1	JACS	5.70	FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC	TESTING		
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Jim Saville

FOOTAGE

FROM	TO	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-C
1812				RECOVERED 5A'								
1758	1812	Core	3	full recovery of 54'								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	1000	2	RECOVER CORE 3# JAMMED IN BBL.
1000	1030	½	SERV. CORE bbl. & LAY DOWN
1030	1130	1	MAKE UP DST. TOOL
1130	1200	½	SLIP 33' DRILLING LINE & CUT
1200	130	1½	RUN IN W/ DST. 2+ HEAD UP.
130	400	2½	TESTING

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
13	STANDS D.P.		FT.
2	SINGLES D.P.	1282.13	FT.
15	D.C. 2⅜ I.D. 6¼ O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	7.49	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	18.75	FT.
	TOTAL	1773.00	FT.
WT. OF STRING		76M	LBS.

BIT RECORD

BIT NO.	RR 6	
SIZE	7⅞	
MFG.	H-W	
TYPE	RX55R	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	20127	
DEPTH OUT		
DEPTH IN	1754	
TOTAL FTG.	19'	
TOTAL HR. RUN	4'	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME		9.00	1100
WEIGHT		9.2	9.2
VISC.-SEC		54	68
W.L.-C.C.			
FLTR. CK			
PH		8.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	50#		

DRILLER Ron Sowden

FOOTAGE

FROM	TO	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-C
1754	1773	RMR			50	6M	1200	5½	70			
								X				
								14				

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	500	1	TESTING
500	600	1	HOIST DST #2
600	630	½	LAY DOWN DST TOOLS.
630	800	1½	RUN IN W/ Bit
800	1200	4	REAMING 6¼" hole to 7⅞ in 18 mins recovered 10' of drlg mud.

D.S.T #2 1700'-1812' Rampart
P.F 5 min ISI 60 VO 60 FSI 60
MP 790 & 790 ISIP 620 FP 32
FSIP 525 very weak air
blow, on Initial flow, dead

E. Popowich

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 1¼
FEET SLIPPED	23'
FEET CUT OFF	
PRESENT LENGTH	
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	
NO. OF DAYS FROM SPUD	19
CUMULATIVE ROTATING HRS.	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK	
HRS. W/DP	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	

DAILY DRILLING REPORT

REPORT NO. 12 DATE FEB 21 70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO. LTD	TRIAD BP ARCO. CC HUME RIVER	C-62	HUME RIVER	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	O.D.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	3½"	TYPE THD. 3½ IF	5"

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E Popovich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A C Hanson

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14"
2.	NSCO	K-380	14"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13⅜"	TAP	48# H40	3			87.37	CEMENTED TO
	8⅝"	TAP	24 J-55	15	501	12.25	517.32	SURFACE

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	1¼		
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING	6¼	7¾	8
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			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 1⅛
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.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.	66.60	FT.
			FT.
	KELLY DOWN		FT.
	TOTAL	1769.c	FT.
	WT. OF STRING	72 M	LBS.

BIT RECORD		
BIT NO.	C-3	
SIZE	6 1/8	
MFG.	CHRIS	
TYPE	◇	
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.	712YC.	
DEPTH OUT		
DEPTH IN	1758	
TOTAL FTG.	11	
TOTAL HR. RUN	6¼	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	2⁰⁰	4⁰⁰	7⁰⁰
WEIGHT	9.3	9.3	9.2
VISC.–SEC	66	68	62
W.L.–C.C.			
FL.TR. CK.			
PH	9.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	50#		
Plaster	100#		

DRILLER: Ron Sewell

FOOTAGE FROM	TO	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–P COM'D–C
1758	1769	C	3		6⁰⁰/44	7/11	800/850	5½	46	CORING		
				101° ABOVE IN D.H.				X/14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	Rig Serv.
12¹⁵	1⁴⁵	1½	Trip in w/Core Bbl.
1⁴⁵	8⁰⁰	6¼	Cut Core # 3

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
13	STANDS D.P.		FT.
1	SINGLES D.P.	13.64	FT.
15	D.C. I.D. 6¼ O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.	66.60	FT.
			FT.
	KELLY DOWN		FT.
	TOTAL	1785	FT.
	WT. OF STRING	72 M	LBS.

BIT RECORD		
BIT NO.	C 3	
SIZE	6 1/8	
MFG.	CHRIS	
TYPE	◇	
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.	712YC	
DEPTH OUT		
DEPTH IN	1758	
TOTAL FTG.		
TOTAL HR. RUN	14	
COND. OF BIT	P1. RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	9 AM	12:30	4 PM
WEIGHT	9.2	9.2	9.2
VISC.–SEC	60	55	65
W.L.–C.C.			
FL.TR. CK.	3/32		
PH	9.5		9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
PLASTER	50#		

DRILLER: Jim Lavell

FOOTAGE FROM	TO	DR.–D RM.–R CORE.–C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD RUN SGL–S PAR'EL–P COM'D–C
1769	1785	C	3#		56	7/12	800	5½	46			
								X/14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	10⁰⁰	5	Coring 3#
10⁰⁰	1¹⁵	¼	Check BOPs & Rig Serv
1¹⁵	4⁰⁰	3¾	Cutting Core 3#
		8	

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
13	STANDS D.P.		FT.
1	SINGLES D.P.	1250.93	FT.
15	D.C. I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	6.69	FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS O.D.	2.15	FT.
1	BIT OR C.B.	66.60	FT.
			FT.
	KELLY DOWN	26.54	FT.
	TOTAL	1801.60	FT.
	WT. OF STRING	72 M	LBS.

BIT RECORD		
BIT NO.	C 3	
SIZE	6 1/8	
MFG.	CHRIS	
TYPE	◇	
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.	712YC	
DEPTH OUT		
DEPTH IN	1758	
TOTAL FTG.	43	
TOTAL HR. RUN	22	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME		9⁰⁰	11⁰⁰
WEIGHT		9.2	9.2
VISC.–SEC		58	68
W.L.–C.C.			
FL.TR. CK			
PH		9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Plaster	50#		

DRILLER: Ron Sewell

FOOTAGE FROM	TO	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–P COM'D–C
1785	1801	Core			76	42M	800	5½	46			
								X/14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	12⁰⁰	8	Cutting Core

DAILY DRILLING REPORT

REPORT NO. 11 DATE FEB 20/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO. LTD.	TRIAD BP. ARCO. CC HUME RIVER	O-62	HUME RIVER	N W T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4"	5" O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. L. Hanson

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K 380	14"
2.	NSCO.	K. 380	14"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP.	48# H-40	3			87.37	CEMENTED TO
	8 5/8	JAP	27# J-55	15	5.02	12.25	517.27	SURFACE

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	6	4½	
REAMING	½		
CONDITIONING MUD & CIRCULATING		½	½
TRIPS	1¼	2¾	2
LUBRICATE RIG		¼	¼
DEVIATION SURVEY	¼		
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			4
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER			1¼
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			
STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

PEEL NO.
NO. OF LINES 8 SIZE 1 1/8
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.

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
13	STANDS D.P.		FT.
1	SINGLES D.P.	1250.93	FT.
15	D.C. I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	14.95	FT.
	TOTAL	1739.00	FT.
WT. OF STRING	70 M		LBS.

BIT RECORD

BIT NO.	4	
SIZE	7 7/8	
MFG.	H-W	
TYPE	OPVJ	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	18232	
DEPTH OUT	1739	
DEPTH IN	1653	
TOTAL FTG.	86	
TOTAL HR. RUN	17¼	
COND. OF BIT	2-2-I	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	10.00	3.00	6.00
WEIGHT	9.2	9.2	9.2
VISC.-SEC	59	66	63
W.L.-C.C.			
FL.TR. CK.			
PH	8.5	9.5	9.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	50#		
Kelzan	100#		

DRILLER: Jim Sewell

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. LINER SIZE	S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1704	1707	RMR			65	6/8000	1200	5½	70			
1707	1739	D			80	12M	1200	X				
								14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1734	1°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.30	½	REAMING 6⅛ hole To 7⅞
12.30	5.30	5	DRLG 7⅞ hole
5.30	5.45	¼	Survey @ 1734'
5.45	6.45	1	DRLG.
6.45	8.00	1¼	Trip for Bit Hole Tight @ 1600' to 1300'

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
13	STANDS D.P.		FT.
1	SINGLES D.P.	1250.93	FT.
15	D.C. I.D. O.D.	448.09	FT.
1	D.C. I.D. O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	STB. BODY O.D.	4.68	FT.
2	RMR. BODY O.D.	6.17	FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	30.00	FT.
	TOTAL	1754.55	FT.
WT. OF STRING	72 M		LBS.

BIT RECORD

BIT NO.	5	
SIZE	7 7/8	
MFG.	HW	
TYPE	R455R	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	20127	
DEPTH OUT		
DEPTH IN	1739	
TOTAL FTG.	15	
TOTAL HR. RUN	4½	
COND. OF BIT	NEW	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	10.00 AM
WEIGHT	9.2
VISC.-SEC	56
W.L.-C.C.	
FL.TR. CK.	
PH	9.5
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
KELZAN	50#		

DRILLER: Jim Sewell

FOOTAGE

FROM	TO	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-P COM'D-C
1739	1754	D		15	40	15	1200	5½	70			
								X				
								14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	815	¼	Rig Serv + Blind Rams
815	930	1¼	Run in w/ Bit 6" + Clean 18' To Btm.
930	200	4½	Drill 7⅞ Hole
200	230	½	Circ To Core
230	400	1½	Hoist out To Core (Stand Fell out of Derrick) (Rent Top Single)
			Tally Out 1756.88
			Pipe Tally 1754=00 2.58 Diff

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.	66.60	FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	2C	
SIZE	6 1/8	
MFG.		
TYPE	◇	
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT	1758	
DEPTH IN	1754	
TOTAL FTG.	4	
TOTAL HR. RUN	4	
COND. OF BIT	Good	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	600
WEIGHT	92#
VISC.-SEC	63
W.L.-C.C.	
FL.TR. CK	
PH	9.0
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER:

FOOTAGE

FROM	TO	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-P COM'D-C
1754	1758	C	2#	5¼ of core	60/80	5/	850	5½	47			
				(error in tally to be corrected)								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	415	¼	Serv. Rig + BOPs
415	1500	9¼	Pick up core bbl + service
500	600		Run in w/ Core Bbl
600	630	½	Circ Core Bbl
630	1030	4	Cutting Core 2
1030	1130	1	Pull out Core BBL Journal
1130	1200	½	Recover Core #2 4'

DAILY DRILLING REPORT

REPORT NO. 10 DATE FEB 19-70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD ~~BP ARCO~~ Oil Co. LTD.	TRIAD BP ARCO CC HUME RIVER	0-62	HUME RIVER	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4"	5" O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Hanson

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K380	14"
2.	NSCO	K-380	14"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13⅜	JAP	48# H-40	3			87.37	CEMENTED TO
	8⅝	JAP	27# J-55	15	502	1225	517.22	SURFACE

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING		3½	7¾
CONDITIONING MUD & CIRCULATING			
TRIPS	3	2	
LUBRICATE RIG	¼	¼	¼
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	3		
OTHER	1¾	2¼	
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.	15 days

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
12	STANDS D.P.		FT.
1	SINGLES D.P.	1156.36	FT.
15	D.C. 2⅞ I.D. 6¼ O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	23.52	FT.
	TOTAL	1653.00	FT.
WT. OF STRING	74 m		LBS.

BIT RECORD

BIT NO.		54
SIZE		7⅞
MFG.		H-W
TYPE		
NOZZLE	NO.	
	SIZE	
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ron Sovill

FOOTAGE

FROM	TO	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–C
1653												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
			D.S.T No 1 1630' – 1707'
12:00	12:15	¼	Service Rig
12:15	1:30	1¼	Finish in w/ DST #1 Ramparts formation
1:30	2:30	1	Head up + DST #1 PF 10 ISI 60 VO 60 FSI 90
2:30	5:30	3	DST #1 MP 747 & 747 ISIP 730
5:30	7:15	1¾	Pull loose + Trip out w/ DST #1 FP 96 & 98 FSIP 723
7:15	8:00	¾	Break + Lay down packer. Approx 15 MCF/day gas to small to measure
			recovered 200' of drlg mud.
			E. Popowich

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
12	STANDS D.P.		FT.
1	SINGLES D.P.	1156.36	FT.
15	D.C. 6¼ I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	35.00	FT.
	TOTAL	1664	FT.
WT. OF STRING	74 m		LBS.

BIT RECORD

BIT NO.		54
SIZE		7⅞
MFG.		HW
TYPE		ODVT
NOZZLE	NO.	3
	SIZE	12
SER. NO.		18232
DEPTH OUT		
DEPTH IN		1653
TOTAL FTG.		11
TOTAL HR. RUN		3½
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1	200	330
WEIGHT	8	9.2	
VISC.-SEC		55	
W.L.-C.C.			
FL.TR. CK.		10	
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Jim Sovill

FOOTAGE

FROM	TO	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–C
1653	1664	RM			60 70	5	1	5½	70			
				(49° BELOW)								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	8:45	¾	Lay down Testing Equipment
8:45	9:00	¼	Rig Serv + Blind Rams
9:00	10:30	1½	Thaw out Kelly + Kelly Hose
10:30	12:30	2	Run in w/ B.H.S ODVT
12:30	4:00	3½	Ream 6¼ Hole to 7⅞

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
15	D.C. 2¾ I.D. 6¼ O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.		54
SIZE		7⅞
MFG.		HW
TYPE		ODVT
NOZZLE	NO.	3
	SIZE	12
SER. NO.		18232
DEPTH OUT		
DEPTH IN		1653
TOTAL ~~FTG.~~ REAMED		51
TOTAL HR. RUN		11¼
COND. OF BIT		Run
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	8	900	1100
WEIGHT		9.2	9.2
VISC.-SEC		65	61
W.L.-C.C.			
FL.TR. CK			
PH		8.5	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Pellex	50#		
Kelzan	100#		
Dewaide	6.30#		

DRILLER: Ron Sovill

FOOTAGE

FROM	TO	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–C
1664	1704	R			60	5m	1200	5½ X 14	70			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:15	1¼	Ream 6¼ Hole to 7⅞
5:15	5:30	¼	Rig Service
5:30	12:00	6½	Ream 6¼ hole to 7⅞"

DAILY DRILLING REPORT

REPORT NO. 10 DATE FEB 19-76

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD ~~BP~~ ~~ARCO~~ Oil Co. LTD.	TRIAD BP ARCO CC Hume River	0-62	Hume River	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4"	5" O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Hanson

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K380	14"
2.	NSCO	K-380	14"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
13⅜	JAP	48# H-40	3			87.37	CEMENTED TO
8⅝	JAP	27-J-55	15	502	12.25	517.22	SURFACE

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING		3½	7¾
CONDITIONING MUD & CIRCULATING			
TRIPS	3	2	
LUBRICATE RIG	¼	¼	¼
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	3		
OTHER	1¾	2¼	
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.	15 DAYS

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
12	STANDS D.P.		FT.
1	SINGLES D.P.	1156.36	FT.
15	D.C. 2⅞ O.D. 6¼ I.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	23.52	FT.
	TOTAL	1653.00	FT.
WT. OF STRING		74 m	LBS.

BIT RECORD

BIT NO.	#4	
SIZE	7⅞	
MFG.	H-W	
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			
WEIGHT			
VISC.–SEC			
W.L.–C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ron Sovill

FOOTAGE

FROM	TO	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–C
1653												

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
			D.S.T No 1 1630' – 1707'
12⁰⁰	12¹⁵	¼	Service Rig Ramparts formation
12¹⁵	1³⁰	1¼	Finish in w/ DST #1 PF 10 ISI 60 VO 60 FSI 90
1³⁰	2³⁰	1	Head up + DST #1 MP 747 & 747 ISIP 730
2³⁰	5³⁰	3	DST #1 FP 96 & 98 FSIP 723
5³⁰	7¹⁵	1¾	Pull & case + Trip out w/ DST #1 Approx 15 MCF/day gas
7¹⁵	8⁰⁰	¾	Break + Lay down packer. to small to measure
			recovered 200' of drlg mud.
			E. Popowich

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
12	STANDS D.P.		FT.
1	SINGLES D.P.	1156.36	FT.
15	D.C. 6¼ I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	35.00	FT.
	TOTAL	1664	FT.
WT. OF STRING		74 m	LBS.

BIT RECORD

BIT NO.	#4	
SIZE	7⅞	
MFG.	HW	
TYPE	ODVT	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	18232	
DEPTH OUT		
DEPTH IN	1653	
TOTAL FTG.	11	
TOTAL HR. RUN	3½	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	1	200	330
WEIGHT	8	9.2	
VISC.–SEC		55	
W.L.–C.C.	1		
FL.TR. CK.	0		
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Jim Sovill

FOOTAGE

FROM	TO	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–C
1653	1664	RM			60	5	1	5½	70			
				(49° BELOW)								

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8⁴⁵	¾	Lay down Testing Equipment
8⁴⁵	9⁰⁰	¼	Rig Serv + Blind Rams
9⁰⁰	10³⁰	1½	Thaw out Kelly + Kelly Hose
10³⁰	12³⁰	2	Run in w/ Bit #5 ODVT
12³⁰	4⁰⁰	3½	Ream 6¼ Hole to 7⅞

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
15	D.C. 2¾ O.D. 6¼ I.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	#4	
SIZE	7¾	
MFG.	HW	
TYPE	ODVT	
NOZZLE NO.	3	
NOZZLE SIZE	12	
SER. NO.	18232	
DEPTH OUT		
DEPTH IN	1653	
TOTAL FTG. REAMED	51	
TOTAL HR. RUN	11¼	
COND. OF BIT	Run	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9	900	1100
WEIGHT		9.2	9.2
VISC.–SEC		65	61
W.L.–C.C.			
FL.TR. CK			
PH		9.5	8.5
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Pellon	50#		
Kelzan	100#		
Dewaide	630#		

DRILLER: Ron Sovill

FOOTAGE

FROM	TO	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–C
1664	1704	R			60	5m	1200	5½	70			
								X				
								14				

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	5¹⁵	1¼	Ream 6¼ Hole to 7¾
5¹⁵	5³⁰	¼	Rig Service
5³⁰	12⁰⁰	6½	Ream 6¼ hole to 7⅞"

DAILY DRILLING REPORT

REPORT NO. 9 DATE Feb 18-70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Triad oil. Co. LTD	Triad BP Arco.Cc Hume River	0-62	Hume River	N.W.T	Canada

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	O.D.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4"	TYPE THD. 3½ IF	5"

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. L. Hamon

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K380	14"
2.	NSCO	K380	14"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	Jap.	48# H40	3			87.37	Cemented To
	8 5/8	Jap.	27# J55	15	502	12.25		Surface
						517.22		

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			2½
LUBRICATE RIG	¼		
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING	7¾	8	1¾
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
MAKE UP DST / OTHER			2½
RECOVER CORE BBL. / FISHING			1¼
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.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
12	STANDS D.P.	1166.19	FT.
	SINGLES D.P.	31.67	FT.
15	D.C. I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS O.D.	2.14	FT.
	BIT OR C.B.	66.60	FT.
			FT.
	KELLY DOWN		FT.
	TOTAL	1694	FT.
WT. OF STRING		74m	LBS.

BIT RECORD

BIT NO.		1
SIZE		6⅛
MFG.		
TYPE		◇
NOZZLE	NO.	
	SIZE	
SER. NO.		
DEPTH OUT		
DEPTH IN		1653
TOTAL FTG.		41
TOTAL HR. RUN		26¼
COND. OF BIT		Run
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	10:00	3:00	6:00
WEIGHT	9.2	9.2	9.2
VISC.-SEC	60	59	58
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ron

FOOTAGE

FROM	TO	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.-C
1653	1694	C	1#		86	18m	750	5½ x 14	47			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	1:00	1.00	Cutting Core 1#
1:00	1:15	¼	Rig Service.
1.15	8:00	6¾	Cutting Core 1#

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
12	STANDS D.P.	1166.19	FT.
1	SINGLES D.P.	31.67	FT.
15	D.C. 6¼ I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.	7.49	FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.		1
SIZE		6⅛
MFG.		
TYPE		◇
NOZZLE	NO.	
	SIZE	
SER. NO.		
DEPTH OUT		
DEPTH IN		1653
TOTAL FTG.		52
TOTAL HR. RUN		34¼
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9 A.M.	1 P.M.	3 P.M.
WEIGHT	9.1	9.1	9.1
VISC.-SEC	56	65	65
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

DRILLER:

FOOTAGE

FROM	TO	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.-C
1694	1705	C	1		BS	16	750	5½ x 14	46			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	4.00	8	Cutting Core 1#

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.		1
SIZE		6⅛
MFG.		
TYPE		◇
NOZZLE	NO.	
	SIZE	
SER. NO.		EC 1020
DEPTH OUT		1707
DEPTH IN		1653
TOTAL FTG.		54'
TOTAL HR. RUN		[illegible]
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ron

FOOTAGE

FROM	TO	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.-C
1705	1707	C	1#	RECOVERED 54'	86	18	750	5½ x 14	46			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	5:45	1¾	Cut Core 1#
5:45	7:45	2	Hoist Core 1#
7:45	8:30	¾	Recover Core
8:30	9:00	½	Service & Laydown Core BBL.
9:00	11:30	2½	Make up DST #1
11:30	12:00	½	Run in w/ Packer.

DAILY DRILLING REPORT

REPORT NO. 9 DATE Feb 17-70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL Co. LTD.	TRIAD BIP ARCO.LC Hume River	A-2	Hume River	N.W.T.	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4"	5"		3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: C.P. Spowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: J.B. Valenza

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO.	K 380	14"
2.	NSCO	K 380	14"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13⅜	Jap	48# H40	3			87.37	CEMENTED To
	9⅝	Jap	27# J-55	15	502	12.25	517.22	SURFACE.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			
REAMING			
CONDITIONING MUD & CIRCULATING	3/4		
TRIPS	2 3/4		
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING	2½	8	8
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			
DRILL STEM TEST			
OTHER	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			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	8 SIZE 1⅛
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.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
12	STANDS D.P.	1177.9	FT.
	SINGLES D.P.	11.77	FT.
15	D.C. I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.	7.49	FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS O.D.	2.14	FT.
	BIT OR C.B.	66.60	FT.
			FT.
	KELLY DOWN		FT.
	TOTAL	1658.	FT.
WT. OF STRING	74M		LBS.

BIT RECORD		
BIT NO.	1	
SIZE	6⅛	
MFG.		
TYPE	◇	
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN	1653	
TOTAL FTG.	5	
TOTAL HR. RUN	2½	
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME			6:00
WEIGHT			9.1
VISC.-SEC			55
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
DRILLER	Ron		

FOOTAGE FROM	TO	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-P COM'D-C
1653		C	1#		60	100	680	5½	48			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	1:00	1:00	Work on Freqen Air Lines.
1:00	2:30	1½	Finish out w/ Bit x Lay down Reamer x Stabelizer.
2:30	3:30	1	Pick up Core BBL x Service
3:30	4:45	1¼	Run in w/ Core BBL.
4:45	5:30	¾	Circulate Core BBL.
5:30	8:00	2½	Cutting Core #1.
	8		

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
12	STANDS D.P.	1166.14	FT.
0	SINGLES D.P.		FT.
15	D.C. 6¼ I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS O.D.	2.14	FT.
	BIT OR C.B.	66.60	FT.
			FT.
	KELLY DOWN		FT.
	TOTAL	1670	FT.
WT. OF STRING	74		LBS.

BIT RECORD		
BIT NO.	1	
SIZE	6⅛	
MFG.		
TYPE	◇	
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN	1653	
TOTAL FTG.	17'	
TOTAL HR. RUN	10½	
COND. OF BIT	Run	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	9:00	12:00	
WEIGHT	9.1	9.1	
VISC.-SEC	45	55	
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			
MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
GEL	1000#		
DRILLER	Jim Lavell		

FOOTAGE FROM	TO	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-P COM'D-C
1658	1670	C	1#		60 70	10M	775	5½ x 14	47			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	4:00	8	CUTTING CORE 1#

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
12	STANDS D.P.	1166.14	FT.
0	SINGLES D.P.		FT.
15	D.C. I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
1	SUBS O.D.	2.14	FT.
	BIT OR C.B.	66.60	FT.
			FT.
	KELLY DOWN		FT.
	TOTAL	1683	FT.
WT. OF STRING	74 M.		LBS.

BIT RECORD		
BIT NO.	1	
SIZE	6⅛	
MFG.		
TYPE	◇	
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN	1653	
TOTAL FTG.	30	
TOTAL HR. RUN	18½	
COND. OF BIT	Run	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	4 P.M.	7 P.M.	10:00
WEIGHT	9.1	9.1	9.2
VISC.-SEC	61	60	60
W.L.-C.C.			
FLTR. CK			
PH	9.5		9.5
SD. CONT. %			
PRESSURE GRADIENT			
MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
DRILLER	Jim & Ron		

FOOTAGE FROM	TO	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-P COM'D-C
1670	1683	C	1#		86	18M	750	5½ x 14	46			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	12:00	8.	CUTTING CORE 1#

DAILY DRILLING REPORT

REPORT NO. 8 DATE FEB 16-70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO. LTD.	TRIAD BP AREA. CC HUME RIVER	0-62	HUME RIVER	N.W.T.	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT	TYPE TKD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4"	5" O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: L. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Halcyn

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO.	K. 380	14"
2.	NSCO.	K. 380	14"
3.			

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
13 3/8	JAP.	48# H40	3			87.39	CEMENTED TO
8 5/8	JAP	27# J-55	15	502	12.25	517.22	SURFACE

TIME DISTRIBUTION-HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7½	7½	4¾
REAMING			
CONDITIONING MUD & CIRCULATING			1¼
TRIPS			!
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY	¼	¼	¼
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			¾
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			

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	8 SIZE 1 1/8
FEET SLIPPED	33'
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.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
11	STANDS D.P.		FT.
1	SINGLES D.P.	1061.67	FT.
15	D.C. 2 3/8 I.D. 6 1/4 O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
		1534.79	FT.
	KELLY DOWN	11.21	FT.
	TOTAL	1546.00	FT.
WT. OF STRING	74M 33		LBS.

BIT RECORD

BIT NO.	3	
SIZE	7 7/8	
MFG.	H-W	
TYPE	OWV	
NOZZLE NO.	2-11	
NOZZLE SIZE	1-12	
SER. NO.	14379	
DEPTH OUT		
DEPTH IN	1247	
TOTAL FTG.	299'	
TOTAL HR. RUN	18¾	
COND. OF BIT	RUN	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	2:00	4:00	6:30
WEIGHT	9.1	9.0	9.0
VISC.-SEC	31	32	33
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL.	2000#		
Caustic	50#		

DRILLER: Don Savill

FOOTAGE

FROM	TO	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-C
1442	1546	D		~~50~~ 104	85	14	1250	5½	70			
								X				
								14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1450	½°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:45	¾	Drlg 7⅞
12:45	1:00	¼	Survey @ 1450'
1:00	1:15	¼	Service Rig & Kelly Cock
1:15	8:00	6¾	Drlg

Changed Oil & Filters in No. 2 plant

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
12	STANDS D.P.	1166.19	FT.
0	SINGLES D.P.		FT.
15	D.C. 6¼ I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	28'	FT.
	TOTAL	1626	FT.
WT. OF STRING	74-M		LBS.

BIT RECORD

BIT NO.	3	
SIZE	7 7/8	
MFG.	HW	
TYPE	OWVT	
NOZZLE NO.	2 11	
NOZZLE SIZE	1 12	
SER. NO.	14378	
DEPTH OUT		
DEPTH IN	1247	
TOTAL FTG.	379	
TOTAL HR. RUN	26¼	
COND. OF BIT	Run	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	9:00	11:00	7:15
WEIGHT	9.0	9.0	9.0
VISC.-SEC	33	32	33
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2000		
CAUSTIC	50		

DRILLER: Jim Savill

FOOTAGE

FROM	TO	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-C
1546	1626	D		80'	60/85	14/12	1250	5½	70			
								X				
								14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1600	1°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8:00	10:30	2½	DRILLING
10:30	10:45	¼	Rig SERV + PIPE RAMS
10:45	1:15	2½	DRILLING 7⅞ HOLE
1:15	1:30	¼	Survey @ 1607'
1:30	4:00	2½	DRILL

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
12	STANDS D.P.		FT.
1	SINGLES D.P.	1156.36	FT.
15	D.C. I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
2	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	23.52	FT.
	TOTAL	1653.80	FT.
WT. OF STRING	74M		LBS.

BIT RECORD

BIT NO.	3	
SIZE	7 7/8	
MFG.	HW	
TYPE	OWV	
NOZZLE NO.	2-11	
NOZZLE SIZE	1.12	
SER. NO.	14378	
DEPTH OUT	1653	
DEPTH IN	1247	
TOTAL FTG.	406	
TOTAL HR. RUN	31	
COND. OF BIT	4-4-T	
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME	4:00	7:00	9:30
WEIGHT	9.0	9.1	9.1
VISC.-SEC	37	90	56
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	2000#		
Caustic	50#		

DRILLER: [illegible]

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
1626	1653	D			60	10/12	1200	5½	70			
								X				
								14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1653'	1⅛°							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4:00	6:30	2½	DRILL
6:30	7:00	½	CIRCULATE SAMPLE @ 1640' CONDITION MUD
7:00	9:15	2¼	DRILL AHEAD
9:15	10:00	¾	Circulate hole Clean to Core
10:00	10:15	¼	Drop Survey @ 1653'
10:15	11:15	1	Trip out to Core
11:15	12:00	¾	Lock on air lines

DAILY DRILLING REPORT 7 | REPORT NO. 7 | DATE FEB 15/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Triad Oil Co. LTD.	Triad BP Area, CC Hume River	O-62	Hume River	N.W.T	Canada

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD
S & T DRILLING (WESTERN) CO. LTD.	1F	2	4"	5" O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [illegible]

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	D.S.C.O.	K-380	14"
2.	D.S.C.O.	K-380	14"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP	48# H-40	3			87.37	CEMENTED TO
	8 5/8	JAP	24# J-55	15	502	1225	517.22	SURFACE

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	7	4¾	7½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS		2½	
LUBRICATE RIG	¼		¼
DEVIATION SURVEY	¾		¼
TEST B.O.P.		¼	
~~CUT OFF~~ SLIP DRILLING LINE		½	
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			

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.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
8	STANDS D.P.	747.83	FT.
	SINGLES D.P.		FT.
15	D.C. 2 7/8 I.D. 6 1/4 O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	12.05	FT.
	TOTAL	1233.00	FT.
WT. OF STRING	65 M		LBS.

BIT RECORD		
BIT NO.	2	
SIZE	7 7/8	
MFG.	HW	
TYPE	OWV	
NOZZLE NO.	3/	
NOZZLE SIZE	/11	
SER. NO.	19952	
DEPTH OUT		
DEPTH IN	622	
TOTAL FTG.	611'	
TOTAL HR. RUN	24½	
COND. OF BIT	Run	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	1⁰⁰	3²⁰	6³⁰
WEIGHT	8.492	9.1	9.1
VISC.-SEC	34	33	35
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2000#		
Caustic	50#		

DRILLER: Ron Savill

FOOTAGE FROM	TO	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-P COM'D-C
1098	1233	D			60/100	8	1300	5½				
								X				
								14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1104	¾°		1167	1°		1230	1°	

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	Drlg. 7⅞ hole — check all fire Extinguishers on FEB 15/70 all okay checked Mud shutoffs okay.
12¹⁵	12³⁰	¼	Survey @ 1104
12³⁰	1⁴⁵	1¼	Drlg 7⅞" hole. 7⁴⁵ 8⁰⁰ ¼ Drlg.
1⁴⁵	2⁰⁰	¼	Rig Service ✓ kelly Cock.
2⁰⁰	3⁴⁵	1¾	Drlg 7⅞ hole
3⁴⁵	4⁰⁰	¼	Survey @ 1167
4⁰⁰	7³⁰	3½	Drlg 7⅞ hole
7³⁰	7⁴⁵	¼	Survey @ 1230'

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
9	STANDS D.P.	645.24	FT.
2	SINGLES D.P.	62.41	FT.
15	D.C. 2 7/8 I.D. 6 1/4 O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	26.64	FT.
	TOTAL	1310.00	FT.
WT. OF STRING	71 M		LBS.

BIT RECORD		
BIT NO.	2	3
SIZE	7 7/8	7 7/8
MFG.	HW	HW
TYPE	OWV	OWV
NOZZLE NO.	3	2 3
NOZZLE SIZE	11	11 12
SER. NO.	19952	
DEPTH OUT	1247	
DEPTH IN	622	1247
TOTAL FTG.	625	63
TOTAL HR. RUN	25½	3¾
COND. OF BIT	3-41	Run
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME			3⁰⁰
WEIGHT			9.0
VISC.-SEC			32
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Jim Savill

FOOTAGE FROM	TO	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-P COM'D-C
1233	1310	D			60/85	8	1200	5½	70			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	9⁰⁰	1	DRLG
9⁰⁰	10³⁰	1½	TRIP FOR BIT
10³⁰	10⁴⁵	¼	Rig SERV & BLIND RAMS
10⁴⁵	11¹⁵	½	SLIP 23' of DRLG LINE
11¹⁵	12¹⁵	1	RUN IN W/ BIT
12¹⁵	4⁰⁰	3¾	DRLG 7⅞ HOLE

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
10	STANDS D.P.	936.00	FT.
	SINGLES D.P.		FT.
15	D.C. 2 7/8 I.D. 6 1/4 O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	32.38	FT.
	TOTAL	1442.00	FT.
WT. OF STRING	72 M		LBS.

BIT RECORD		
BIT NO.	3	
SIZE	7⅞	
MFG.	H-W	
TYPE	OWV	
NOZZLE NO.	2-11	
NOZZLE SIZE	1-12	
SER. NO.	14378	
DEPTH OUT		
DEPTH IN	1247	
TOTAL FTG.	195	
TOTAL HR. RUN	11¼	
COND. OF BIT	Run	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME		8.30	11.00
WEIGHT	0	9.1	9.0
VISC.-SEC		33	34
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	2000#		

DRILLER: Ron Savill

FOOTAGE FROM	TO	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-P COM'D-C
1310	1442	D			85	[illegible]	1200	5½	70			
								X				
								14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1350	½							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4⁴⁵	¾	DRILL
4⁴⁵	5⁰⁰	¼	Rig SERV BOPE
5⁰⁰	6⁴⁵	1¾	DRILL 7⅞ HOLE
6⁴⁵	7⁰⁰	¼	SURVEY
7⁰⁰	12⁰⁰	5	DRILL

DAILY DRILLING REPORT

REPORT NO. 10 DATE FEB 14/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO. LTD.	TRIAD BP ARCO CS HUME RIVER	O-62	HUME RIVER	N.W.T.	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD
S & T DRILLING (WESTERN) CO. LTD.	1 E	2	3½"	5" O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	N.S.C.O.	K-380	14"
2.	N.S.C.O.	K-380	14"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13⅜	IAP	48 H-40	3			87.37	CEMENTED TO
	8⅝	IAP	24 J-55	15	502	12.25	517.22	SURFACE

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	5	7½	7½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS	1¼		
LUBRICATE RIG	¼	¼	¼
DEVIATION SURVEY	½	¼	¼
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		
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.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
2	STANDS D.P.	184.34	FT.
	SINGLES D.P.		FT.
15	D.C. 2¾ I.D. 6¼ O.D.	448.07	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	37.54	FT.
	TOTAL	695.00	FT.
WT. OF STRING	58 M		LBS.

BIT RECORD

BIT NO.	RR	1	2
SIZE		7⅞	7⅞
MFG.		H-W	H-W
TYPE		OSCI	OWVJ
NOZZLE NO.		3	3
NOZZLE SIZE		12	11
SER. NO.		91733	19952
DEPTH OUT		622	
DEPTH IN		522	622
TOTAL FTG.		100	73
TOTAL HR. RUN		3¼	2½
COND. OF BIT		3-4-T	RUN
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			29
W.L.-C.C.			
FLTR. CK.			
PH	WATER.		
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1600#		
CAUSTIC	50		

DRILLER: Ron Sowell

FOOTAGE

FROM	TO	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-C
538	695	D		Installed new rubbers on Bottom & Top Stabilizers FEB 14/70	65	16	800	5½ X 14	70			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	560	⅛°		667	⅛°				

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12³⁰	½	Drlg 7⅞" hole
12³⁰	12⁴⁵	¼	Survey @ 560'
12⁴⁵	2⁴⁵	2	Drlg
2⁴⁵	3¹⁵	½	Trip for Bit
3¹⁵	4¹⁵	1	Pick up Bottom reamer + 2 stabilizers + 2 drill Collars
4¹⁵	5⁰⁰	¾	Trip in w/ Bit # 2
5⁰⁰	5¹⁵	¼	Service Rig
5¹⁵	6³⁰	1¼	Drlg
6³⁰	6⁴⁵		Survey @ 667
6⁴⁵	8⁰⁰		Drlg. 7⅞" hole

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
4	STANDS D.P.		FT.
1	SINGLES D.P.	467.34	
15	D.C. 2¾ I.D. 6¼ O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	41'	FT.
	TOTAL	915 48	FT.
WT. OF STRING	60 M		LBS.

BIT RECORD

BIT NO.		2	
SIZE		7⅞	
MFG.		HW	
TYPE		OWVJ	
NOZZLE NO.		3	
NOZZLE SIZE		11	
SER. NO.		19952	
DEPTH OUT			
DEPTH IN		622	
TOTAL FTG.		293	
TOTAL HR. RUN		10	
COND. OF BIT		RUN	
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	1100		300
WEIGHT	8.7	9.1	9.3
VISC.-SEC	32	33	34
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	8000		
CAUSTIC	50		

DRILLER: James Sowell

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
695	915	D			65	10/20	1150	5½	66			
					95	5/10	1200	5½				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	820	½							

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	Rig Serv & BOPs
8¹⁵	11³⁰	3¼	Drilling 7⅞ Hole
11³⁰	11⁴⁵	¼	Survey @ 820'
11⁴⁵	4⁰⁰	4¼	Drilling

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
6	STANDS D.P.		FT.
1	SINGLES D.P.	589.77	FT.
15	D.C. I.D. O.D.	448.09	FT.
	D.C. I.D. O.D.		FT.
1	STB. BODY O.D.	7.49	FT.
1	STB. BODY O.D.	6.69	FT.
1	RMR. BODY O.D.	4.68	FT.
2	SUBS O.D.	6.17	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	33.11	FT.
	TOTAL	1098.00	FT.
WT. OF STRING	63 M		LBS.

BIT RECORD

BIT NO.		2	
SIZE		7⅞	
MFG.		HW	
TYPE		OWV	
NOZZLE NO.		3	
NOZZLE SIZE		11	
SER. NO.		19952	
DEPTH OUT			
DEPTH IN		622	
TOTAL FTG.		476'	
TOTAL HR. RUN		17½	
COND. OF BIT		RUN	
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME	400	700	10³⁰
WEIGHT	9.1	9.2	9.1
VISC.-SEC	34	32	31
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1000#		
CAUSTIC	50#		

DRILLER: James Sowell

FOOTAGE

FROM	TO	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-C
915	1098	D			63/95	10/8	1250	5½ X 14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	915	½		1041	3/4°				

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	Rig Serv BOPs + Survey
4¹⁵	8⁴⁵	4½	Drill
8⁴⁵	9⁰⁰	¼	Survey @ 1041
9⁰⁰	12⁰⁰	3	Drlg.

DAILY DRILLING REPORT

REPORT NO. 5 DATE FEB 13-70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD Oil Co LTD	TRIAD BP ARCO, CS Hume River	0-63	Hume River	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1 E	2	4	5" O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: M Galeza

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NSCO	K-380	14"
2.	NSCO	K 380	14"
3.			

	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
LAST CASING	13⅜	Jap	48 H40	3		12.80	87.37	KB CEMENTED
TUBING OR LINER	8⅝	Jap	24. J55	15	502	11.25	517.22	KB To Surface

MORNING TOUR

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL			3/4
DRILL OUT REAMING			1 1/12
CONDITIONING MUD & CIRCULATING			
TRIPS			3
LUBRICATE RIG			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
BORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT	8	8	
DRILL STEM TEST			
OTHER			2¾
FISHING			
COMPLETION WORK: A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	8	8	8

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			
WEIGHT			
VISC.–SEC			
W.L.–C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ron Sovill

FOOTAGE

FROM	TO	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–C
522												

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	800	8	Back off Landing Joint + Screw on CSG Bowl
			Head up.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			
WEIGHT			
VISC.–SEC			
W.L.–C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ron Sovill

FOOTAGE

FROM	TO	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–C
522												

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
			changed to 5½ Header Liners in No #1 pump
400			W.O.C.
	400	4	Finish Heading up + Lay Flare Line
	400		Pressure Up Blind Rams 1000 Pi OK
			Dig Mouse Hole
			Pressure on blind rams 1000# for 15 min held ok.
			E.Popowich

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
1	STANDS D.P.		FT.
	SINGLES D.P.		FT.
13	D.C. I.D. 6¼ O.D.	389.99	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.	RR	1
SIZE		7⅞
MFG.		HW
TYPE		OSCJ
NOZZLE NO.		3
NOZZLE SIZE		12
SER. NO.		91733
DEPTH OUT		
DEPTH IN		522
TOTAL FTG.		16
TOTAL HR. RUN		3/4
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD

TIME			
WEIGHT			
VISC.–SEC			
W.L.–C.C.	WATER		
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Ron

FOOTAGE

FROM	TO	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–C
522	538	R			65	12	800	5½ x 14	70			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	600	2	Dig Mouse Hole
600	900	3	Run in w/Bit + pressure up.
900	1030	1½	Drill out top of Plug @ 478.77
1030	1100	½	Drill 7⅞ hole
1100	1145	¾	Dump + Clean tanks + Displace hole w/Water
1145	1200	¼	Drill 7⅞ hole
			Pressure pipe rams and hydril 1000# for 15 min
			each located small leak now ok.

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.	

TIME SUMMARY (OFFICE USE ONLY)

DAY WORK			
HRS. W/DP			
HRS. WO/DP			
HRS. STANDBY			
TOTAL DAY WORK			

DAILY DRILLING REPORT

REPORT NO. 4 DATE FEB 12/70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD Oil Co. LTD	TRIAD BP ARCO. CS Hume River	0-62	Hume River	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4"	5" O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S TOOL PUSHER
[illegible]	[illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	N S CO	K 380	14"
2.	N S CO	K. 380	14"
3.			

LAS. CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13⅜	JAP	48# H40	3		12.50	8737	KB CEMENTED To
	8⅝"	Jap	24# J55	15	502'	12.25	517.22	KB SURFACE

Guide shoe @ 517.67 Float collar @ 483.46.

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	6¼		
REAMING			
CONDITIONING MUD & CIRCULATING		1¾	
TRIPS	¾	½	
LUBRICATE RIG	¼	¼	
DEVIATION SURVEY	¾		
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT			8
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.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
1	STANDS D.P.	92.34	FT.
1	SINGLES D.P.	30.55	FT.
12	D.C. I.D. O.D.	358.75	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
3	SUBS O.D.	8.50	FT.
1	BIT OR C.B.	1.00	FT.
			FT.
	KELLY DOWN	30.50	FT.
	TOTAL	522.00	FT.
WT. OF STRING		49 M	LBS.

BIT RECORD	
BIT NO.	3A
SIZE	12¼
MFG.	H-W
TYPE	OSC3
NOZZLE NO.	CONE
NOZZLE SIZE	
SER. NO.	12102
DEPTH OUT	522
DEPTH IN	360
TOTAL FTG.	162
TOTAL HR. RUN	6¼
COND. OF BIT	RUN
REAMER NO.	
REAMER TYPE	

MUD RECORD			
TIME	2⁰⁰	4⁰⁰	6⁰⁰
WEIGHT			
VISC.-SEC	40		48
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#		
CAUSTIC	50#		

DRILLER Ron Savill

FOOTAGE FROM	TO	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-P COM'D-C
360	522	D			60/120	4/12	450	7¼	70			
								X				
								14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	372'	¼°		439	⅛°		501	¼	

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	Rig Ser.
12¹⁵	12³⁰	¼	DRLG 12¼ hole. 7⁰⁰ 8⁰⁰ Drlg 12¼" hole
12³⁰	12⁴⁵	¼	Survey @ 372'
12⁴⁵	3¹⁵	2½	DRLG 12¼ hole.
3¹⁵	3³⁰	¼	Survey @ 439
3³⁰	6⁰⁰	2½	DRLG 12¼ hole
6⁰⁰	6¹⁵	¼	Survey @ 501'
6¹⁵	7⁰⁰	¾	Trip out + Strap pipe Hole Tight @ 120'

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD	
BIT NO.	3A
SIZE	12¼
MFG.	HW
TYPE	OSC3
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	12102
DEPTH OUT	522.
DEPTH IN	360
TOTAL FTG.	162
TOTAL HR. RUN	6¼
COND. OF BIT	1-1-I
REAMER NO.	
REAMER TYPE	

MUD RECORD	
TIME	900
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Jim Savill

FOOTAGE FROM	TO	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-P COM'D-C
522.				Cemented 8⅝" csg. w/ 305 sax construction cement and 2% calcr. no returns to surface								

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	Rig Serv.
8¹⁵	9⁰⁰	¾	Circ Hole To Run Csg.
9⁰⁰	9³⁰	½	Trip out To Run Csg.
9³⁰	10³⁰	1	Rig to Run Csg.
10³⁰	2⁰⁰	3½	Run 8⅝ Csg To 522.
2⁰⁰	2³⁰	½	Circ Csg.
2³⁰	3³⁰	1	Cement Csg
3³⁰	4⁰⁰	½	Plug Down @ 3¹⁵

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD	
BIT NO.	
SIZE	
MFG.	
TYPE	
NOZZLE NO.	
NOZZLE SIZE	
SER. NO.	
DEPTH OUT	
DEPTH IN	
TOTAL FTG.	
TOTAL HR. RUN	
COND. OF BIT	
REAMER NO.	
REAMER TYPE	

MUD RECORD	
TIME	
WEIGHT	
VISC.-SEC	
W.L.-C.C.	
FLTR. CK	
PH	
SD. CONT. %	
PRESSURE GRADIENT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER Ron

FOOTAGE FROM	TO	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-P COM'D-C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	12⁰⁰	8	W.O.C.
			CEMENT OUTSIDE of CONDUCTOR BBL
			OD OUTSIDE w/ 180 SAX of CEMENT
			RUN 60 sax CEMENT INSIDE of COND BBL.
			8⅝ Casing

DAILY DRILLING REPORT

REPORT NO. 3 DATE FEB 11-70

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO. LTD	TRIAD BP ARCO. CC Hume River	O-62	Hume River	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E	2	4"	5" O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: S. Kapavich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A B Galeya

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	N.S.C.O	K. 380	14"
2.	N.S.C.O	K 380	14"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	JAP.	H40 H-40	3			87.37	KB CEMENTED TO SURFACE

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	2¾	7¼	6½
REAMING			
CONDITIONING MUD & CIRCULATING			
TRIPS			¾
LUBRICATE RIG		¼	¼
DEVIATION SURVEY	½	½	½
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING			
WAITING ON CEMENT	4		
DRILL STEM TEST			
OTHER	¾		
FISHING			
COMPLETION WORK A. PERFORATING			
B. TUBING TRIPS			
C. SWABBING			
D. TESTING			
E. ADDITIONAL			
TOTALS	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	
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.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
5	D.C. 2 3/8 I.D. 6 1/4 O.D.	150.19	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
2	SUBS O.D.	6.35	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	8.46	FT.
	TOTAL	165.00	FT.
	WT. OF STRING	30M	LBS.

BIT RECORD		
BIT NO.	RR	1A
SIZE		12¼
MFG.		H-W
TYPE		OSC-3
NOZZLE NO.		CONV
NOZZLE SIZE		
SER. NO.		12529
DEPTH OUT		
DEPTH IN		85
TOTAL FTG.		80
TOTAL HR. RUN		2¾
COND. OF BIT		RUN
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME			
WEIGHT			
VISC.-SEC	36		
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		

DRILLER: Ron Savill

FOOTAGE FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. LINER SIZE	S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
85	165	D			60/75	4	250	7¼				
								14				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	104'	¼°		165'	¼°				

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰			W.O.C. CUT OFF CONDUCTOR PIPE & WELD ON
	4⁰⁰	4	Flow Nipple
4⁰⁰	4¹⁵	¾	Thaw out Kelly
4¹⁵	6⁰⁰	1¼	Drlg 12¼" hole
6⁰⁰	6¹⁵	¼	Survey @ 104'
6¹⁵	7⁴⁵	1½	Drlg
7⁴⁵	8⁰⁰	¼	Survey @ 165'

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
8	D.C. 6¼ I.D. O.D.	247.08	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
2	SUBS O.D.	6.35	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	0	FT.
	TOTAL	255.37	FT.
	WT. OF STRING	35 M	LBS.

BIT RECORD		
BIT NO.		1A
SIZE		12¼
MFG.		HW
TYPE		OSC3
NOZZLE NO.		CONV
NOZZLE SIZE		
SER. NO.		12529
DEPTH OUT		
DEPTH IN		85'
TOTAL FTG.		170
TOTAL HR. RUN		10
COND. OF BIT		Run
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME	1400	100	300
WEIGHT			
VISC.-SEC	36	38	45
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
GEL	100#		
LIME	50#		

DRILLER:

FOOTAGE FROM	TO	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-P COM'D-C
165	255	D			60/100	4/6	300	7¼	60			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	220	¾		250	¼				

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	8¹⁵	¼	Rig Serv
4¹⁵	1⁰⁰	8¾	DRLG 12¼ Hole
1⁰⁰	1¹⁵	¼	Survey @ 220
1¹⁵	3⁴⁵	2½	DRLG 12¼ Hole
3⁴⁵	4⁰⁰	¼	Survey @ 250

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
11	D.C. 2 3/8 I.D. 6¼ O.D.	327.78	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
2	SUBS O.D.	6.35	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	25.87	FT.
	TOTAL	366.00	FT.
	WT. OF STRING	40 M	LBS.

BIT RECORD			
BIT NO.	RR	1A	2A
SIZE		12¼	12¼
MFG.		HW	H-W
TYPE		OSC3	OSC3
NOZZLE NO.		CONV	CONV
NOZZLE SIZE			
SER. NO.		12529	12100
DEPTH OUT		360	
DEPTH IN		85'	360
TOTAL FTG.		275	
TOTAL HR. RUN		16½	
COND. OF BIT		3-2-I	
REAMER NO.			
REAMER TYPE			

MUD RECORD			
TIME			10⁰⁰
WEIGHT			
VISC.-SEC			45
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

DRILLER:

FOOTAGE FROM	TO	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-P COM'D-C
255	360	D			60/100	8/12	400	7¼				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	310	¾		344	¼°				

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	4¹⁵	¼	Rig Serv
4¹⁵	6⁴⁵	2½	Drill
6⁴⁵	7⁰⁰	¼	Survey @ 310
7⁰⁰	9⁰⁰	2	Drill 12¼" Hole
9⁰⁰	9¹⁵	¼	Survey @ 344'
9¹⁵	11¹⁵	2	Drlg
11¹⁵	12⁰⁰	¾	Trip for Bit

DAILY DRILLING REPORT — REPORT NO. 8 — DATE FEB 10

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
TRIAD OIL CO. LTD.	TRIAD BP. ARCO. CC Hume River	0-62	Hume River	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1F	2	4"	5" O.D.	3½ IF

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. B. Helenga

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K-380	14"
2.	NAT	K-380	14"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS
	13 3/8	Jap	48# H-40	3	87.43	12.80	87.37	KB.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN			
DRILLING ACTUAL	3¼		
REAMING	2		
CONDITIONING MUD & CIRCULATING	¼		
TRIPS			
LUBRICATE RIG	¼		
DEVIATION SURVEY	½		
TEST B.O.P.			
CUT OFF DRILLING LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
RUNNING CASING & CEMENTING		3	
WAITING ON CEMENT		4	8
DRILL STEM TEST			
OTHER	1¾	1	
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.	

MORNING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
2	D.C. I.D. O.D.	5957	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
1	RMR. BODY O.D.	2.75	FT.
2	SUBS O.D.	6.35	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	16.33	FT.
	TOTAL	85.00	FT.
WT. OF STRING	24M		LBS.

BIT RECORD

BIT NO.	RR.	1A	2 ~~RR~~
SIZE		12¼	17½
MFG.		H-W	Smith
TYPE		OSC 3	
NOZZLE NO.		CONV	
NOZZLE SIZE			
SER. NO.		12529	3
DEPTH OUT		~~45~~ 85	85
DEPTH IN		0	0
TOTAL FTG.		~~45~~ 85	85
TOTAL HR. RUN		7¾	2
COND. OF BIT		2-2-I	
REAMER NO.			1
REAMER TYPE			H.O.

MUD RECORD

TIME	REAMER		500
WEIGHT			
VISC.-SEC			48
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Lime	60#		

DRILLER: Ron Soulle

FOOTAGE

FROM	TO	DR.-D RM.-R CORE.-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD RUN SGL.-S PAR'EL-P COM'D-C
45'	85'	@			65	4M	200#	7¼	40	5½	65	
								x		x		
								14		14		

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	45'	¼°		75'	½°				

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	12¹⁵	¼	Ser. Rig
12¹⁵	2⁰⁰	1¾	Drilling Rat. hole
2⁰⁰	2¹⁵	¼	Survey @ 45'
2¹⁵	4⁴⁵	2½	Drilling 12¼" Conductor Hole.
4⁴⁵	5⁰⁰	¼	Survey @ 75'
5⁰⁰	5⁴⁵	¾	Rig
5⁴⁵	7⁴⁵	2	Ream 12¼" hole to 17½
7⁴⁵	8⁰⁰	¼	Circ Cond. hole.

DAY TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
2	D.C. I.D. O.D.	5957	FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
1	RMR. BODY O.D.	2.75	FT.
2	SUBS O.D.	6.35	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	16.33	FT.
	TOTAL	85.00	FT.
WT. OF STRING	24M		LBS.

BIT RECORD

BIT NO.			
SIZE			
MFG.			
TYPE			
NOZZLE NO.			
NOZZLE SIZE			
SER. NO.			
DEPTH OUT			
DEPTH IN			
TOTAL FTG.			
TOTAL HR. RUN			
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FL.TR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Jim Sewell

FOOTAGE

FROM	TO	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-C
85				Plug down 11:55 Am Feb 10				125 sax cement				
			13 3/8	csg landed @ 87.37 KB.				4% Calcz.				

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
8⁰⁰	9⁰⁰	1	Lay Down 2-6¼ DC. & 17½ Reamer
~~9⁰⁰~~			Rig to Run Conductor Pipe & Run 13 3/8
9⁰⁰	11³⁰	2½	3 Joints Landed @ 87.37 KB.
11³⁰	12⁰⁰	½	Cement Pipe 13 3/8
12⁰⁰	4⁰⁰	4	WOC

EVENING TOUR

DRILLING ASSEMBLY AT END OF TOUR

NO.			
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT. OF STRING			LBS.

BIT RECORD

BIT NO.			
SIZE			
MFG.			
TYPE			
NOZZLE NO.			
NOZZLE SIZE			
SER. NO.			
DEPTH OUT			
DEPTH IN			
TOTAL FTG.			
TOTAL HR. RUN			
COND. OF BIT			
REAMER NO.			
REAMER TYPE			

MUD RECORD

TIME			
WEIGHT			
VISC.-SEC			
W.L.-C.C.			
FL.TR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DRILLER: Jim & Ron

FOOTAGE

FROM	TO	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-C
85												

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
4⁰⁰	12⁰⁰	8	WOC.
			Run 50 sax Cement. From 20' To Surface

DAILY DRILLING REPORT

REPORT NO. | DATE FEB. 9 1970

OPERATOR	LEASE	WELL NO.	FIELD OR DIST.	COUNTY	STATE
Triad Oil Company	Triad P.P. ARCO CC HUME RIVER	0-63	HUME RIVER	N.W.T	CANADA

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO.	DRILL PIPE STRING SIZE	TOOL JOINT O.D.	TYPE THD.
S & T DRILLING (WESTERN) CO. LTD.	1E				

SIGNATURE OF OPERATOR'S REPRESENTATIVE: E. Popowich

SIGNATURE OF CONTRACTOR'S TOOL PUSHER: A. Galenza

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	NAT	K.380	14"
2.	NAT.	K.380	14"
3.			

LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	REMARKS

TIME DISTRIBUTION–HOURS

	MORN	DAY	EVE
RIG UP & TEAR DOWN	8	8	1½
DRILLING ACTUAL			4½
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			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			
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.	

MORNING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
	WT. OF STRING		LBS.

BIT RECORD		
BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME			
WEIGHT			
VISC.–SEC			
W.L.–C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

DRILLER: E.O. Graumann

FOOTAGE FROM	TO	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–C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	800	8	Rigging up.

DAY TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
	SUBS O.D.		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
	WT. OF STRING		LBS.

BIT RECORD		
BIT NO.		
SIZE		
MFG.		
TYPE		
NOZZLE NO.		
NOZZLE SIZE		
SER. NO.		
DEPTH OUT		
DEPTH IN		
TOTAL FTG.		
TOTAL HR. RUN		
COND. OF BIT		
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME			
WEIGHT			
VISC.–SEC			
W.L.–C.C.			
FLTR. CK.			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
GEL	2500#		
Caustic	100#		

DRILLER: Ron Savill

FOOTAGE FROM	TO	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–C

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
800	420	8	Rig To Spud & Mix Spud Mud.

EVENING TOUR

NO.	DRILLING ASSEMBLY AT END OF TOUR		
	STANDS D.P.		FT.
	SINGLES D.P.		FT.
	D.C. I.D. O.D.		FT.
	D.C. I.D. O.D.		FT.
	STB. BODY O.D.		FT.
	STB. BODY O.D.		FT.
	RMR. BODY O.D.		FT.
2	SUBS O.D.	6.35	FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	39.00	FT.
	TOTAL	45.35	FT.
	WT. OF STRING		LBS.

BIT RECORD		
BIT NO.	1A	
SIZE	12¼	
MFG.	H-W	
TYPE		
NOZZLE NO.	CONI	
NOZZLE SIZE		
SER. NO.	12529	
DEPTH OUT	45	
DEPTH IN	0	
TOTAL FTG.	45	
TOTAL HR. RUN	4½	
COND. OF BIT	2 2 I	
REAMER NO.		
REAMER TYPE		

MUD RECORD			
TIME			
WEIGHT			
VISC.–SEC			
W.L.–C.C.			
FLTR. CK			
PH			
SD. CONT. %			
PRESSURE GRADIENT			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

DRILLER: Ron

FOOTAGE FROM	TO	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–C
0	45											

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
400	530	1½	Rig To Spud.
530	1100		Spud w/ 12¼" Bit
1100	1200		Drill Rat Hole

Spud in w/ 12¼" bit @ 5:30 pm Feb 9 1970
– E. Popowich