AM HESS GULF REDKNIFE

E-55

Drilling Authority No. 395

Date Issued 31 December 1969

WELL NAME Am Hess Gulf Redknife E-55

FIELD ..... Area: .....

LOCATION: Unit E Section 55 Grid 60-40-119-30

Latitude 60-34-23 Longitude 119-41-05.5

U.W.L.R. 60.57306 -- 119.68986

U.W.I. 300E556040119300

Rig Release Date: .....

Status .....

Information Release Date .....

CHANGE OF NAME:

DATE RECEIVED	INDEX
31/12/69	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
12/2/70	Application to Abandon a Well ~~or Suspend Drilling~~.
	Application to Alter Condition of a Well.
	Well History Supplement.
March 70	Well Completion Data.
	Work-over Report No. .....
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells – Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells – Vitter's Method.
	M.P.R. – Oil – Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report
	Logs. Large scale..... Small scale.....

LA24D 52-90 (3-69)

Drilling Authority No. 395
Date Issued December 31, 1969

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

WELL COMPLETION DATA

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

Well name and number: Amiless Gulf Redknife E-55

Permit No. 3584 Lease No.

Gulf Oil Canada (Permittee, Licensee, Lessee) Exploratory Licence No. 1243

Amerada Hess Corporation (Operator) Exploratory Licence No. 1359

Location: Unit E Section 55 Grid 60° 40' N 119° 30' W

Latitude 60 degs. 34'23" Longitude 119 degs. 41' 5.5"

From Established Reference Marker Shot Point 770 Line 7 x 261

Universal Well Location Reference Lat. 60.57306 Degs 119.68986 Degs. Long.

	DATE	DEPTH
Spudded	Jan.12/70	
Suspended		
Resumed Operations		
Finished Drilling	Jan.30/70	
Deepened		
Complete (gas/oil)		
Abandoned	Feb. 4/70	
Rig released	Feb. 4/70	4807

Pool(s) Nil

Interval(s) open to production Nil

Elevation: Gr. 1241 K.B. 1258

Rig No. 1

Drilling Contractor Can-Tex

Contractor's Business Licence No. 652

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at —	Sacks of Cement and Additives
1. 9-5/8"	K-55	40.5	643	660	550 sacks with 2% CaCL2
2.					in last 250 sacks.
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION Depths	ELEVATION Sub-Sea
Kotcho	865	+393
Jean Marie	2308	-1050
Ft. Simpson	2337	-1079
Muskwa	3993	-2735
Slave Point	4039	-2781
Watt Mtn.	4264	-3006
Presquile	4291	-3033
Predevonian (Quartzite)	4678	-3420
PC (Granite)	4790	-3532

CORE RECORD

From	To	Rec.	From	To	Rec.
Nil					

LOG RECORD

Run No.	Type of Log	From	To
1	I.E.S.	659	4808
1	B.H.C.S	659	4802
1	F.D.C. W/GR	3900	4806
1	S.N.P. W/GR	3900	4806
1	Dual Mineral	3900	4806
1	Porosity Overlay	3900	4806

LAND 52-90(2) (3-67)

CEMENTING RECORD (Plug, Squeeze, etc.)			
Date	From	To	Remarks
Feb. 3/70	4807	4401	165 sacks
Feb. 4/70	4401	4000	165 sacks Top 3970
Feb. 4/70	610	710	65 sacks 2% Calcium Top 580'.

PERFORATING RECORD (Bullet, Jet)			
Date	From	To	Remarks
Nil			

SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks
Nil			

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	I.S.I. Mins.	F.S.I. Mins.	I.S.I.B.H.P.	F.S.I.B.H.P.	I.F.B.H.P.	F.F.B.H.P.	I.H.P.	F.H.P.	REMARKS
1	Feb.2/70	Presquile Chinchaga Quartzite	4807	4240	60	60	60	1758	1767	1461	1737	2087	2087	Rec: 950' muddy salt water 2700' brackish salt water
2	Feb.3/70	Slave Pt.	4150	4040	30	60	60	1523	1320	80	89	1965	1926	Rec: 220' drilling mud. No evidence of gas or oil.

ANALYSIS

Lab. No.	Sample	From	To	Source	Remarks
E70-236	Water	4240	4807	D.S.T. No. 1	
E70-237	Mud	4040	4150	D.S.T. No. 2	

PRESENT STATUS OF WELL

Oil		(Interval)
Gas		(Interval)
Dry	X	D & A
Susp.		

Company Amerada Hess Corporation

Signed by John E. Neuchek

Title General Superintendent of Production

Date March 1970

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

File No.
Drilling Authority No. 395

Canada

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

[redacted]
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 AmHess Gulf Redknife E-55

Location: Unit E Section 55 Grid 60°40' N 119° 30' W

Latitude 60° 34' 23" Longitude 119°41' 5.5"

From Established Reference Marker Shot point 770 Line 7 x 261

Universal Well Location Reference Lat 60.57306° Long. 119.68986

Permit No. 3584 Lease No.

Gulf Oil Canada
(Permittee, Licensee, Lessee)

Date of commencement of proposed program February 3, 1970

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at Nil

Gas at Nil

Water at DST No. 1 - 4240-4807

Total Depth 4807 Date of last operations February 4, 1970

Present condition of well Drilled and abandoned

Surface casing cut off 3' below ground level. Dumped 5 sacks cement in 9 5/8" casing and welded steel plate on top. Welded 2" pipe to plate to extend 4' above ground level with well name and location on plate.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 9 5/8"	40.5#	643	660'	500 sacks	Nil
2.				2% CaCl2 in last	
3.				250 sacks	
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug No.	Plug Position	Geological Formation	Number of Sacks of Cement	Remarks
1	4807-4400	Granite - Chinchaga	165	
2	4400-4000	Presquile - Watt Mt	165	Located at 3970'
		Slave Point		
3	610-710	Surface	65	Located at 580'

The following logs have been run I.E.S., BHCS, FDC, SNP, GRC

Other operations proposed Nil

Operations to be carried out by Amerada Hess Corporation Contractor Licence No. 652

Address 540 - 5th Avenue S.W., Calgary 1, Alberta Address

Responsible Agent in field P. P. Matkaluk

Dated at Calgary, this 11th Day of February 1970

Signed by [signature] Company Amerada Hess Corporation

Title General Superintendent Operator's Exploratory Licence No. 1359

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

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

This application has been examined and proposed programme approved, subject to the following conditions:
Confirming oral approval given by Mr. B.H.J. Thoms on the 2nd February 1970.

Dated 12th February, 19 70

[signature]
Oil Conservation Engineer

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

IAND 52-90 (5) (3-67)

Drilling Authority No. 395

Project No.

File No.

CANADA

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application for a Drilling Authority

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

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

Name and number of well: Amoco Gulf Redknife E-55

Location: Unit: E Section: 55 Grid: 60° 40' N 119° 30' W

Latitude: 60° 34' 23" Longitude: 119° 41' 5.5"

From Established Reference Marker: Shot point 770 Line 7 x 152

Universal Well Location Reference: Lat. 60.57306°, Long. 119.58086°

Elevation: Ground: 1241 K.B. (*) feet above sea-level.

Well is expected to produce from: Fort Simpson Reef formation at a depth of about 2500 feet. Expected total final depth: 4700

Area assigned to well:

(For Oil Conservation Engineer's use only)

Permit No. 3584 Lease No. Acreage: 62,890

Permittee, licensee, or lessee: Gulf

Exploratory Licence No. 1243

Surface owned by Crown or: Crown

(If alienated submit name and address of owner and occupant.)

Petroleum and natural-gas rights owned by: Crown

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

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Sacks of Cement
1. 9 5/8"	40#	J-55	Used	600	400
2.					
3. Production casing, if required, will be reviewed with the Department					
4. before running.					
5.					

Expected water, gas, and oil horizons and type of control equipment:
Adequate mud properties
BOP Equipment: a 10" Ser 900 Hydril and a 10" Ser. 900 Double Shaffer Gate

Well will be drilled with Rotary Rig No. 1 by Can Tex Drilling & Exploration Ltd.
(Drilling Contractor or company)

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

At well: F. C. Redwood At registered office: J. E. Neukirk

Address: El Lavel, Alberta Address: 540 - 5th Avenue S.W. Calgary 1, Alberta.

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

Dated at Calgary, this 30th day of December 19 69

Signed by: John E. Neukirk Company: Amerada Hess Corporation

Title: General Superintendent Operator's Licence No. 1359

(For Resource Management 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 31st December 19 69

Oil Conservation Engineer

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

IAND 52-90-1 (3-67)

UNIQUE WELL IDENTIFIER — 300E556040119300

(*) Will advise by letter.

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 sub-surface waters.

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

4. Production and intermediate casing programs shall be approved by the Oil Conservation Engineer.

(for) B.H.J. Thoms, Oil Conservation Engineer

Amerada Hess Corp.

AMHESS GULF REDKNIFE E-55

UNIT E, SEC. 55 GRID 60° 40'N 119°30'W

1-11-4-27

1-11-4-27

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OIL & GAS OPERATIONS UNIT
Oil and Mineral Division
MAR 16 1970
OTTAWA, CANADA
Dept. of Indian Affairs & Northern Development

SECTION I

SUMMARY OF WELL DATA

(a) Complete Well Name and Number

(b) Permittee, License or Lessee

(c) Name of Operator

(d) Location

(e) Co-ordinates

(f) Permit or Lease Number

(g) Drilling Contractor

(h) Drilling Authority

(i) Classification

(j) Elevations

(k) Spudded

(l) Complete Drilling

(m) Total Depth and Plug Back Total Depth

(n) Well Status

(o) Rig Released Date

(p) Hole Sizes to Total Depth

(q) Casing

SECTION I SUMMARY OF WELL DATA

(a) Complete Well Name and Number
Amoco Gulf Redknife E-55

(b) Permittee, License or Lessee
Gulf Oil Canada Limited

(c) Name of Operator
Amerada Hess Corporation
540 - 5th Avenue S.W.
Calgary 1, Alberta.

(d) Location
Located in Unit E; Sec. 55,
Grid 60 degs. 40 mins. N;
119 degs. 30 mins. W
Lat: 60 degs. 34 mins. 23 secs.
Long: 119 degs. 41 mins. 5.5 secs.
Shot point 770 Line 7 x 261. Established Reference Marker
Lat. 60.57306 degs, Long. 119.68986 degs. Universal Well Location
Reference - Unique Well Identifier 300 E 556 040 119300

(e) Co-ordinates
D & A

(f) Permit Number
3584

(g) Drilling Contractor
Can-Tex Drilling and Exploration Ltd.
Rig No. 1 - Rotary

(h) Drilling Authority
No. 395 - Dated at Calgary 31st Day of December 1969

(i) Classification
Trainor Lake - Wildcat

(j) Elevations
Ground 1241' K.B. 1258'

(k) Spudded
5:00 a.m. - January 12, 1970

(l) Completed Drilling
2:45 a.m. January 30, 1970

(m) Total Depth and Plug Back Total Depth
Total Depth 4807' Plug back depth 580'

(n) Well Status
Dry and Abandoned

(o) Rig Released Date
11:00 p.m. February 4, 1970

(p) Hole Sizes to Total Depth
13 3/4" 0' to 665'
8 3/4" 665' to 4807'

(q) Casing
9 5/8" casing cemented at 660' K.B.

SECTION II

(a) Formation Tops

(b) Cored Intervals (no coring)

(c) Core Description (none)

(d) Sample Description

(e) Paleontological (none)

AMERADA DIVISION
AMERADA HESS CORPORATION

GEOLOGICAL WELL SUMMARY

WELL NAME: AmHess Gulf Redknife E-55

LOCATION: N.W.T. Grid 60° 40'N/ 119° 30'W

COORDINATES: 60° 34' 23"/119° 41' 5.5

ELEVATIONS: Grd. 1241' K.B. 1258'

PARTICIPANTS: Gulf Canada

Spudded: 5:00 a.m. January 12, 1970

Released: 11:00 p.m. February 4, 1970

Completed:

Casing Size: 9 5/8" Depth: 660

F.T.D.: 4807' In: P-€

P.B.D.:

Status: D&A In:

I.P.: BOPD MCF/D

Choke: Hour Test Day Test

G.O.R.: Gravity BSW

T.P.: C.P.: BHP

G/O Int.: O/W Int.:

Net Pay Thickness: Gas Oil

Net Pay Thickness: Gas Oil

FORMATION MARKERS

	Sample	E-Log	Subsea
Kotcho	867	865	+ 393
Jean-Marie	2310	2308	-1050
Ft. Simpson	2337	2337	-1079
Muskwa	4000	3993	-2735
Slave Point	4070	4039	-2781
Watt Mtn.	4320?	4264	-3006
Presquile	4327	4291	-3033
Predevonian (Quartzite)	4680	4678	-3420
PE (Granite)	4790	4790?	-3532

CORED INTERVALS

None

Recovery

SAMPLE INTERVALS

600' - T.D.
(10' intervals)

LOGS RUN

Induction Electric
Gamma-Ray-Sonic
FD - Caliper
SNP - Gamma Ray

Geologist.

AMERADA DIVISION
AMERADA HESS CORPORATION
SAMPLE DESCRIPTION

Well: Amoco Gulf Redknife E-35 Location: WT Grid 60°40'N;119°30'W

Province: Alberta Logged By: A. A. Gross Date: Jan. 18/70-Jan. 30/70

		Porosity	Oil Stain
	SAMPLES BEGIN IN CRETACEOUS		
600-660	Shale, medium to dark grey, soft to medium hard, fissile. Very slightly calcareous, variably silty. 665' casing shoe.		
	660?: MISSISSIPPIAN		
660-670	Shale, medium grey, calcareous, slightly silty, medium soft.		
670-700	Cement from plug obliterates sample.		
700-720	Shale, medium grey, calcareous, slightly silty, medium soft.		
720-730	No Sample.		
730-770	Shale, as above, with stringers of limy siltstone.		
770-800	Siltstone, medium grey, calcareous; interbedded with shale as above.		
800-860	Shale, medium to dark grey, grading to siltstone, slightly calcareous. Traces of mica. Pyrite. Traces of limestone, cream, micro-crystalline.		
	867: WABAMUN		
860-1110	Limestone, cream to grey-brown, micro-crystalline, slightly pyritic, tight. Fossil fragments; Crinoids. Occasional very poor oil staining.	v.p.	
1110-1200	Limestone as above, with lots of shale cavings.		
1200-1280	Shale, medium grey, slightly greenish, variably silty, calcareous.		

		Por.	O. Stn.
1280-1360	Limestone, cream to light grey, crypto-crystalline to fine crystalline, tight. Crinoids, Gastropods. Glauconite.		
1360-1380	Shale, dark grey to medium grey, silty, calcareous.		
1380-1400	Shale, dark grey, silty.		
1400-1510	Limestone, white to cream to light grey, crypto-crystalline to fine crystalline, tight. Pyrite. Stringers of limestone, light grey, micro-crystalline with traces of chalky and inter-crystalline porosity.	Tr. x,s	
1510-1530	Limestone as above, with interbedded shale, grey, silty, slightly calcareous.		
1530-1760	Limestone, light grey to cream to white, crypto-crystalline to fine crystalline, tight. Fossil fragments. Occasional traces of chalky and inter-crystalline porosity. Stringers of shale, grey, silty, calcareous. Pyrite. Crinoids.		
1760-1780	Shale, grey, silty, slightly calcareous.		
1780-1830	Limestone, white to light grey, micro-crystalline, slightly argillaceous. Traces of inter-crystalline porosity. Occasional very poor dead oil stain. Pyrite.	Tr. x	V.P. dead oil
1830-1860	Limestone as above with some interbeds of siltstone, calcareous, light grey (very fine quartz particles in calcareous cement). Traces of inter-crystalline porosity.	Tr. x	
1860-1880	Limestone, white to light grey, very fine crystalline, silty, partly dolomitized. Crinoid fragments.	Tr. x	
1880-1890	Sandstone, white to light grey, very fine grained, with calcareous cement.	Tr. x	
1890-1910	Siltstone, medium to dark grey, hard, calcareous; interbeds of sandstone and limestone as above.		

		Por.	O. Stn.
1910-1950	Limestone, white to cream, crypto-crystalline to very fine crystalline with silty or sandy intervals. Traces of inter-crystalline porosity in sandy intervals. Fossil fragments; Crinoids, Corals.	Tr. x	
1950-1970	Limestone as above, abundant coarse crystalline organic fragments (Possible organic porosity? Not seen).		
1970-1980	Limestone, chalky, white to translucent, micro-crystalline to medium crystalline; Crinoids.		
1980-1990	Limestone, light grey, very fine crystalline, tight.		
1990-2000	Sandstone, grey, very fine grained, calcareous. Poor traces of dead oil.	Tr. x	dead oil
2000-2150	Limestone, white to light grey, or cream, micro-crystalline to very fine crystalline; interbedded with sandstone, white to grey, very fine, grained, calcareous; and siltstone, grey; Crinoid fragments.	Tr. x	dead oil
2150-2230	Shale, medium to light greenish to grey, or dark grey, variably silty, variably calcareous. Some interbeds of limestone, cream to light grey to brown, micro-crystalline to fine crystalline; and siltstone, grey, calcareous.		
2230-2250	Limestone, light grey, very fine crystalline, partly dolomitic. Crinoids.	Tr. x	Tr. of bit
2250-2270	Shale, green and grey, silty, slightly calcareous. Possibly limestone interbeds.		
2270-2300	Limestone, cream to light grey to brown, very fine crystalline, partly dolomitic. Tiny Brachiopods. Stringers of shale, grey.	Tr. x	
2300-2310	Shale, green; and limestone, very fine crystalline, cream to light grey to brown, dolomitic.		

		Por.	O. Stn.
	2310: JEAN MARIE		
2310-2340	Limestone, light grey to brown, very fine to medium crystalline, partly dolomitic, and shale, greenish grey, slightly silty, calcareous.	Tr. x	Tr. dead oil
	2337: FORT SIMPSON		
2340-3930	Shale, green to grey and grey to carmine, variably silty, variably calcareous. Interbeds of siltstone and sandstone as shown below (at first sight the proportion of sandstone in the shales might average 20%):		
2400-2410	Brachiopods		
2410-2420	Interbeds of siltstone and sandstone, grey, very fine grained, slightly calcareous. Pyrite.		
2440-2450	Minor interbeds of sandstone, grey, very fine grained, micaceous, slightly calcareous.		
2470-2480	Interbeds of sandstone, grey, very fine grained, micaceous, slightly calcareous.	Tr. x	
2490-2500	Interbeds of sandstone, grey very fine grained to fine grained, micaceous, slightly calcareous.	Tr. x	
2530-2540	Minor interbeds of sandstone as above.		
2560-2570	Interbeds of sandstone, grey, very fine grained, micaceous; and siltstone, micaceous.	Tr. x	
2600-2610	Interbeds of sandstone, grey, very fine grained, slightly calcareous, micaceous.		
2620-2640	Interbeds of sandstone as above.	Tr. x	
2680-2690	Interbeds of sandstone, light grey, very fine to fine grained, calcareous, micaceous.	Tr. x	
2710-2720	Interbeds of sandstone, light grey, very fine to fine grained, calcareous and dolomitic, micaceous, silty, argillaceous.	Tr. x	

		Por.	O. Stn.
2340-3930	Continued		
2750-2760	Interbeds of sandstone, very fine to fine grained, light grey, light green to grey, grey to brown, micaceous with variable amounts of calcareous cement (dolomitic in grey to brown sandstone).		
2770-2780	Interbeds of sandstone as above, siliceous cement; very hard.		
2860-2870	Interbeds of sandstone, greenish-grey, very fine grained; calcareous cement; micaceous.		
2890-2910	Traces of limestone, cream, micro-crystalline, fossiliferous; Brachiopods, Crinoids.		
2960-2970	Interbeds of limestone, cream, micro-crystalline, fossiliferous, tight.		
2990-2010	Interbeds of sandstone, greenish-grey, very fine grained, calcareous, micaceous.		
3040-3050	Interbeds of sandstone, grey, very fine grained, very calcareous (almost sandy limestone).		
3160-3170	Interbeds of sandstone, grey, very fine grained, very calcareous (calcareous cement). Pyrite.		
3300-3310	Interbeds of sandstone as above, very calcareous.		
3370-3380	Interbeds of sandstone as above, very calcareous.		
3410-3420	Interbeds of sandstone, light grey, very fine to fine grained, micaceous, calcareous.		
3420-3430	Interbeds of sandstone, light grey, very fine to fine grained, micaceous, slightly calcareous.		

		Por.	O. Stn.
2340-3930	Continued		
3450-3460	Trace of limestone, light grey, very fine crystalline, sandy.		
3540-3550	Interbeds of sandstone, light grey to translucent, very fine grained, very slightly calcareous.		
3680-3690	Interbeds of sandstone, very fine grained, slightly calcareous, micaceous.		
3770-3780	Traces of limestone, cream, micro-crystalline.		
3800-3810	Interbeds of sandstone as above.		
3860-3930	Traces of limestone, cream, micro-crystalline.		
3930-3950	Limestone, cream, micro-crystalline, chalky cement. Loss of mud (6").	Tr. x,e	
3950-3980	Shale, grey to green, and grey to carmine, silty, variably calcareous.		
3980-4000	Shale as above, micaceous, silty.		
	4000: BITUMINOUS SHALE		
4000-4040	Shale, dark brown to black, bituminous, slightly silty, non calcareous.		
	4040: SLAVE POINT		
4040-4060	Limestone, grey to brown to white, micro-crystalline to medium crystalline. Traces of vuggy porosity.	Tr. v	Bit
4060-4110	Limestone, white, cream to grey to brown, micro-crystalline to medium crystalline, tight. Occasional vuggy or inter-crystalline porosity. The study of coarser chips indicates that the porosity is restricted to some discontinuous patches surrounded by tighter limestone.	Tr. v,x	Tr. Bit
4110-4160	Limestone, medium to dark grey to brown, very fine to medium crystalline. Traces of vuggy or inter-crystalline porosity.	Tr. v,x	Tr. Bit

		Por.	O. Stn.
4160-4255	Limestone, medium to dark grey to brown, very fine to medium crystalline, tight.		
	4255: DOLOMITE		
4255-4270	Dolomite, medium to dark grey to brown, very fine to fine crystalline, tight.		
4270-4320	Dolomite, white to medium to dark grey to brown, fine to medium crystalline, vuggy porosity (geodes).	G,v,x	Tr. Bit
4320-4340	Shale, dark grey to brown, slightly silty, non calcareous. Paper-thin bedded. (cavings?) Interbedded with dolomite as above.		
4340-4350	Dolomite, brownish grey, very fine to medium crystalline. Clear crystals of dolomite (geodes).	G,v	
4350-4460	Dolomite, cream to medium grey to brown, fine to medium crystalline.	G,v	
4460-4480	Dolomite as above.	G,v	Tr. Bit
4480-4490	Dolomite as above. Traces of limestone, light to medium grey to brown, micro-crystalline to fine crystalline.	G,v	
4490-4500	Limestone, light grey to cream, micro-crystalline to very fine crystalline, fossiliferous, tight (cavings?). Also dolomite.		
4500-4520	Dolomite, grey to brown, micro-crystalline to medium crystalline, inter-crystalline and vuggy porosity.	G,x,v	Tr. Bit
4520-4540	Interbeds of dolomite, light brown to grey, crypto to micro-crystalline with vugs filled with clear crystals of dolomite, calcareous. Mostly tight.		Tr. Bit
4540-4550	Dolomite, grey to brown, fine to medium crystalline; vuggy and inter-crystalline porosity.	G,v,x	
4550-4630	Limestone, light tan, white to cream, salt and pepper, crypto-crystalline to micro-crystalline, argillaceous, mostly tight. Possibly trace of chalky porosity.	Tr. e	Tr. Bit

		Por.	O. Stn.
4630-4638	Dolomite, light grey to brown, micro-crystalline to fine crystalline. Mostly tight.		
	4638: RED BEDS		
4638-4650	Dolomite as above, and traces of dolomite, green, micro-crystalline, argillaceous; trace of anhydrite, white to clear crystalline, crypto to micro-crystalline; mixed with dolomite.		
4650-4660	Dolomite, green, micro-crystalline, argillaceous, tight; dolomite, cream, micro-crystalline; dolomite, grey to brown, micro-crystalline to medium crystalline. Pyrite.		
4660-4680	Sandstone, red, mottled (red, brown, green, grey, white) (feldspar, dolomite). Dolomite, argillaceous, fine to coarse grained.		
4680-4690	Sandstone, red mottled (red, green, white, grey) (orange-red feldspar) fine to coarse grained.		
4690-4700	Quartzite, light green to grey, (translucent), micro-granular, very hard, tight. Traces of chlorite.		
4700-4750	Quartzite, light green to grey (translucent), microgranular with some coarse crystals; very hard, completely tight.		
4750-4770	Quartzite, light green, micro-to coarse grained, feldspar (?), chlorite.		
4770-4780	Quartzite, light pink and light green, microgranular to coarse granular. Chlorite. Pyrite.		
4780-4790	Weathered granite, coarse crystalline, white, green, pink, grey; quartz feldspar, chlorite.		
	4790: PRECAMBRIAN		
4790-4807	Granite, coarse, pink (red to orange feldspar, quartz, biotite).		
4807	TOTAL DEPTH.		

SECTION III

ENGINEERING SUMMARY

(a) Report of Drill Stem Testing

(b) Casing Record

(c) Bit Record

(d) Mud Report

(e) Deviation Record

(f) Abandonment Plugs

(g) Lost Circulation Zones

(h) Report of Blowouts

(a) Report of Drill Stem Testing

Drill Stem Test No. 1 - 4240-4807 Presquile
Ran in 8 3/4" hole, Johnston Testers on dry 4 1/2" D.P. with 2 packers, jars, safety joint, hydraulic tool, pump out sub, 2 recorders and 1/2" bean.
Pre-flow 5 mins. I.S.I. 60 mins. V.O. 60 mins. F.S.I. 60 mins.
Blow: Strong initial puff - good air blow decreasing towards end of test.
Recovered: 950' muddy salt water - 2700' brackish salt water
Charts: I.H.H.P. 2087#, First flow 1250#, I.S.I.P. 1758#
F.F.P. 1737#, F.S.I.P. 1767#, F.H.H.P. 2087#

Drill Stem Test No. 2 - 4040-4150 Slave Point
Ran in 8 3/4" hole Johnston Testers straddle on 4 1/2" D.P. with 4 packers, jars, safety joint, shut in tool, pump out sub, 3 recorders, 1/2" bean.
Pre-flow 5 mins. I.S.I. 60 mins. V.O. 30 mins. F.S.I. 60 mins.
Blow: Good air blow throughout test
Recovered: 220' drilling mud
Charts: I.H.H.P. 1965#, First flow 67#, I.S.I.P. 1523#
F.F.P. 89#, F.S.I.P. 1320#, F.H.H.P. 1926#

JOHNSTON TESTERS

TEST DATA

Formation		Zone Thickness			Ft
Interval	4240 To	4807	TD	4807	Ft
Type of Test	OPEN HOLE, BOTTOM HOLE.				
Time Started in Hole	2300	Hrs	Tool Opened	0230	Hrs
First Flow	5	Min	Initial Shut-in	60	Min
Second Flow	60	Min	Second Shut In		Min
Third Flow		Min	Final Shut In	60	Min
Pulled Loose @	0535	Hrs	Out of Hole	0900	Hrs
Wt. Set on Packers	35,000	#	Pulled Loose Wt	10,000	#

Description of Blow During Test

STRONG INITIAL PUFF. GOOD AIR BLOW,
DECREASING IN 25 MINUTES TO WEAK IN 45 MINS.

FLUID RECOVERY Was Test Reverse Circulated Yes ☐ No ☒

Total Fluid Recovered 3650 Ft

Description of Fluid Recovered

950' MUDDY, SALT WATER.
2700' BRACKISH, SALT WATER.

TOOL SEQUENCE

Tool	Length	OD
F.O. SUB & SUBS	2.50	
SUB	.60	
MFE TOOL	9.00	
BYPASS TOOL	3.00	
JARS	8.60	
SAFETY JOINT	1.75	
S.S. & PACKER	9.35	
T.C. & PACKER	5.40	
TOTAL	40.20	
STUB.	1.10	
PERF.	19.00	
RECORDER	5.90	
RECORDER	5.90	
PERF.	10.40	
SUB	.80	
DRILL PIPE	521.60	
SUB	.90	
B.N. & PERF.	2.00	
TOTAL INTERVAL	567.60	
TOTAL LENGTH	607.80	

Elevation NOT REPORTED.
Bottom Hole Choke Size 1/2"
Fluid Cushion Type NIL Amt.

GAS FLOW MEASUREMENT

Measured With I.D. Riser
Type of Instrument

Time	Size Choke	Reading psi inches	M Cubic Feet/Day
		NIL	

REMARKS: TEST SATISFACTORY.
MFE SAMPLE DRAINED ON LOCATION.

MUD AND HOLE DATA

Mud Type GEL & CHEM W.L. 6.0
Filter Cake 2/32 Vise 75 Wt. 9.2
Time Taken
Contractor CAN-TEX DRLG. Rig No. 1
Drill Pipe Size 4 1/2 IF - 4 1/2 XH
Drill Collar Size 2 7/8 ID Length 357.52'
Main Hole Size 8 3/4"
Rat Hole Size

	RESISTIVITY		CHLORIDE CONTENT	
Recovery Water	@	°F.		ppm.
Mud Pit sample filtrate	@	°F.	69,000	ppm.

District HIGH LEVEL Ticket No. D 03695 Date FEBRUARY 2, 1970 Test No. 1 J.T. No. 1

Company AMERADA HESS CORPORATION Address 540-5TH AVENUE S.W.
Well Name AMHESS GULF REDKNIFE E-55 CALGARY 1, ALBERTA
Number 60° 40'N 119° 30'W Field WILDCAT Province NORTH WEST TERRITORIES
Formation
and Interval 4140 - 4807 DST#1 Co. Rep. P. MATLOCK
Technician H. PALMER

Distribution of Reports
6 - CALGARY, 1 - DATA CENTER (ENCLOSED).

JOHNSTON TESTERS 221 30TH AVENUE S.E. • CALGARY 24, ALBERTA • PH. 250-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

D 03695

PRESSURE DATA

INSTRUMENT No.		AK1-3411	AX1-1935		
CAPACITY (psig)		7100	7000		
INSTRUMENT DEPTH FT		4261	4266		
INSTRUMENT OPENING		OUTSIDE	OUTSIDE		
PRESSURE GRADIENT psi/FT.					
WELL TEMP °F 168					
INITIAL HYDROSTATIC	A	2087#	2097#		
FIRST FLOW	B	1250#	1257#		
	B-1	1423#	1454#		
INITIAL SHUT-IN	C	1758#	1771#		
SECOND FLOW	D	1461#	1470#		
	D-1	1737#	1752#		
SECOND SHUT-IN	E				
THIRD FLOW	F				
	F-1				
FINAL SHUT-IN	G	1767#	1779#		
FINAL HYDROSTATIC	H	2087#	2097#		

FLUID SAMPLE REPORT

Sample No.	
Type	WATER
Depth	4200 ft.
Volume	2500 cc
Sample Pressure	110 psig. at Surface
Gravity	API @ °F
Gas Oil Ratio	Cu.Ft./bbl.
Recovery:	
Cu. Ft. Gas	
cc. Oil	
cc. Water	1700
cc. Mud	
Total Liquid cc.	1700

REMARKS:

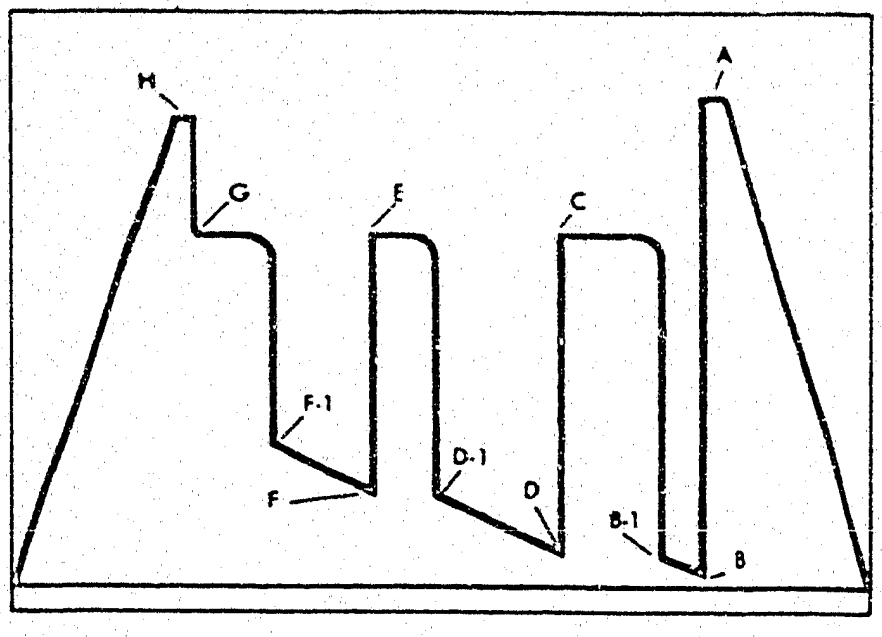
PRESSURE INCREMENTS

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

JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



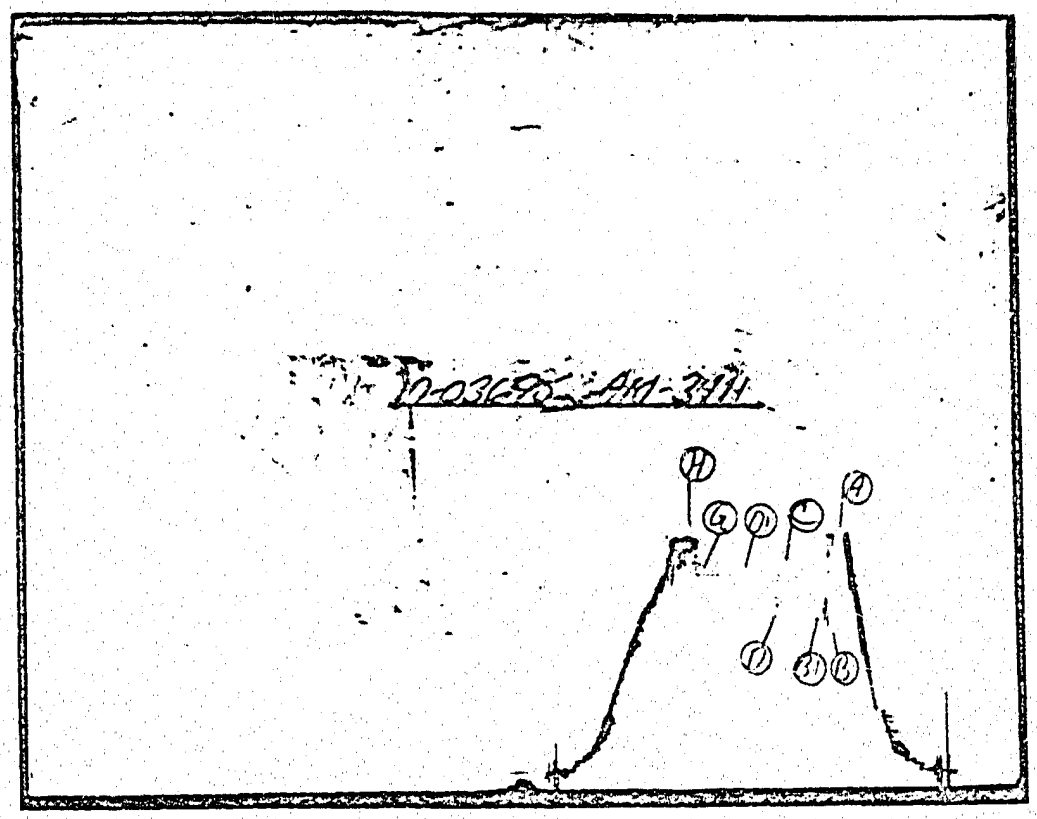
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

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

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

JOHNSTON TESTERS

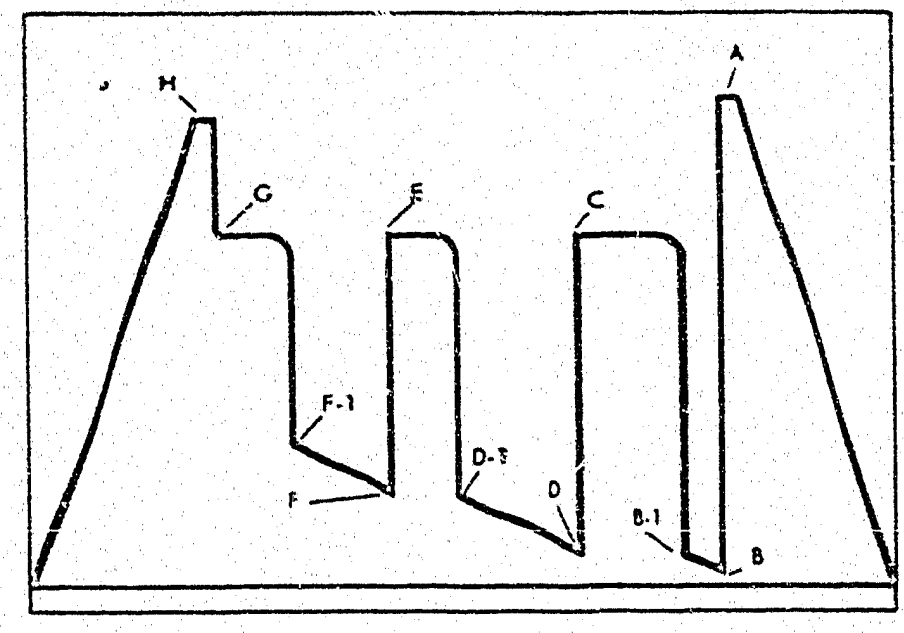
FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D 03695	AK1-3411	7100	7



JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



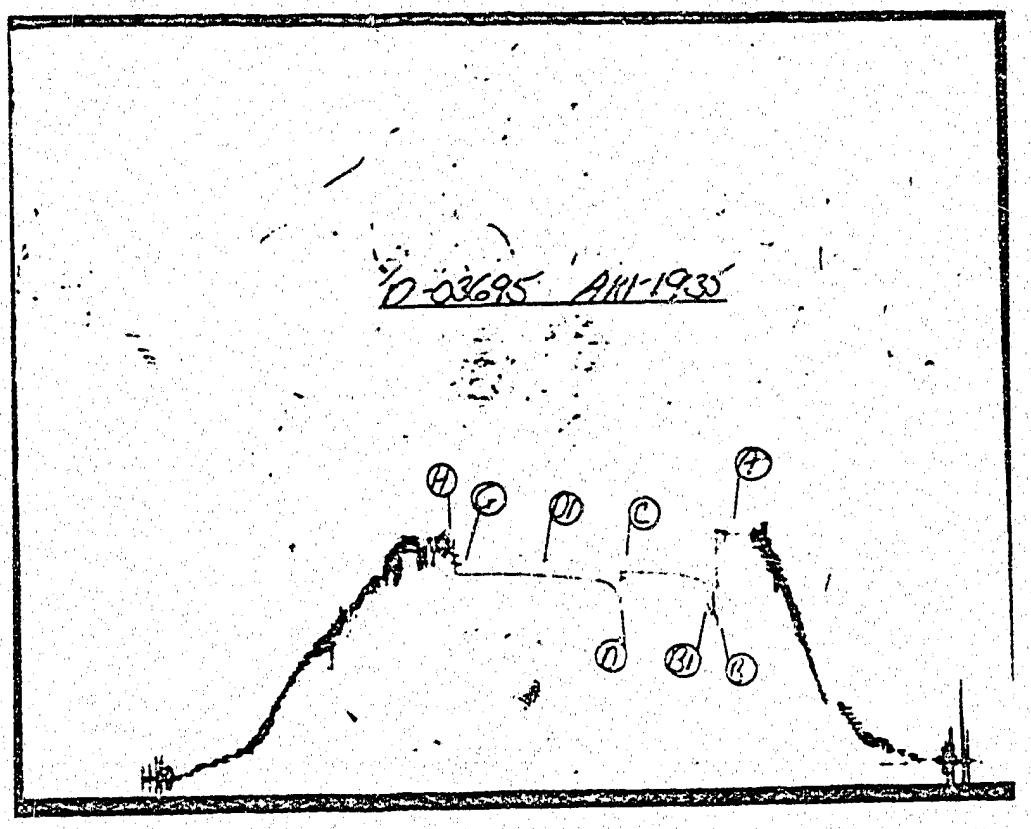
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

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

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

JOHNSTON TESTERS

FIELD REPORT NO.	RECORDER NO	CAPACITY	REPORTS REQUESTED
D 03695	AK1-1935	7000	7



JOHNSTON TESTERS 321 - 50TH AVENUE S.E. · CALGARY 14 ALBERTA · PH. 255-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

D 03696

PRESSURE DATA

INSTRUMENT No.		AK1-3411	AK1-1935	AK1-1848	
CAPACITY (psig)		7100	7000	7100	
INSTRUMENT DEPTH FT		4009	4046	4184	
INSTRUMENT OPENING					
PRESSURE GRADIENT psi/FT.					
WELL TEMP °F 146					
INITIAL HYDROSTATIC	A	1965#		2026#	
FIRST FLOW	B	67#			
	b-1	67#		A-1 2118#	
INITIAL SHUT-IN	C	1523#		A-2 1561#	
SECOND FLOW	D	80#			
	D-1	89#	STYLUS NOT	RAN BELOW	
SECOND SHUT-IN	E		ENGAGED	STRADDLE	
THIRD FLOW	F				
	F-1			A-3 2028#	
FINAL SHUT-IN	G	1320#			
FINAL HYDROSTATIC	H	1926#		1987#	

FLUID SAMPLE REPORT

Sample No	
Type	MUD
Depth	ft
Volume	2500 c.c.
Sample Pressure	
	10 psig. at Surface
Gravity	API @ °F
Gas Oil Ratio	Cu.Ft./bbl.
Recovery	
Cu. Ft. Gas	
cc. Oil	
cc. Water	
cc. Mud	250
Total Liquid cc.	250

REMARKS:

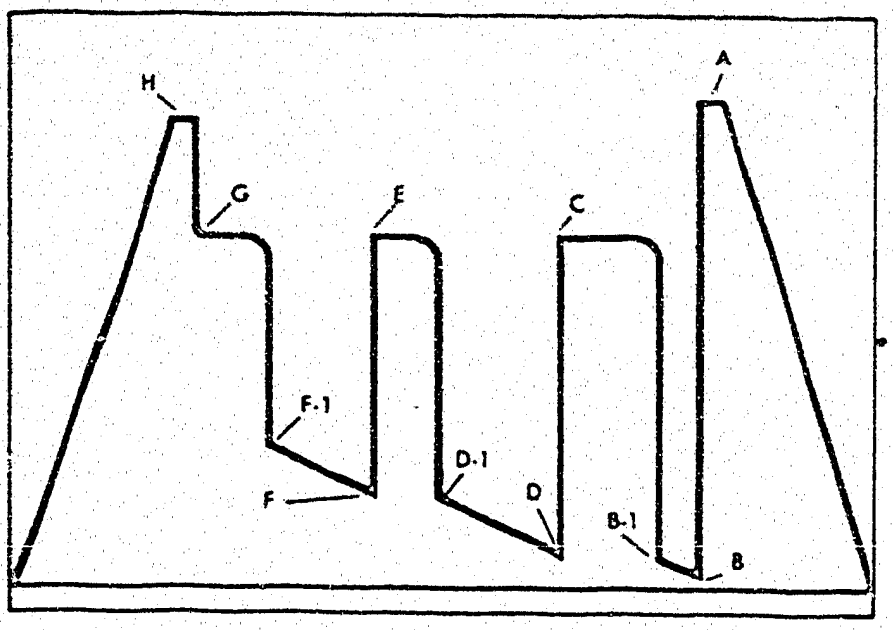
PRESSURE INCREMENTS

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

JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



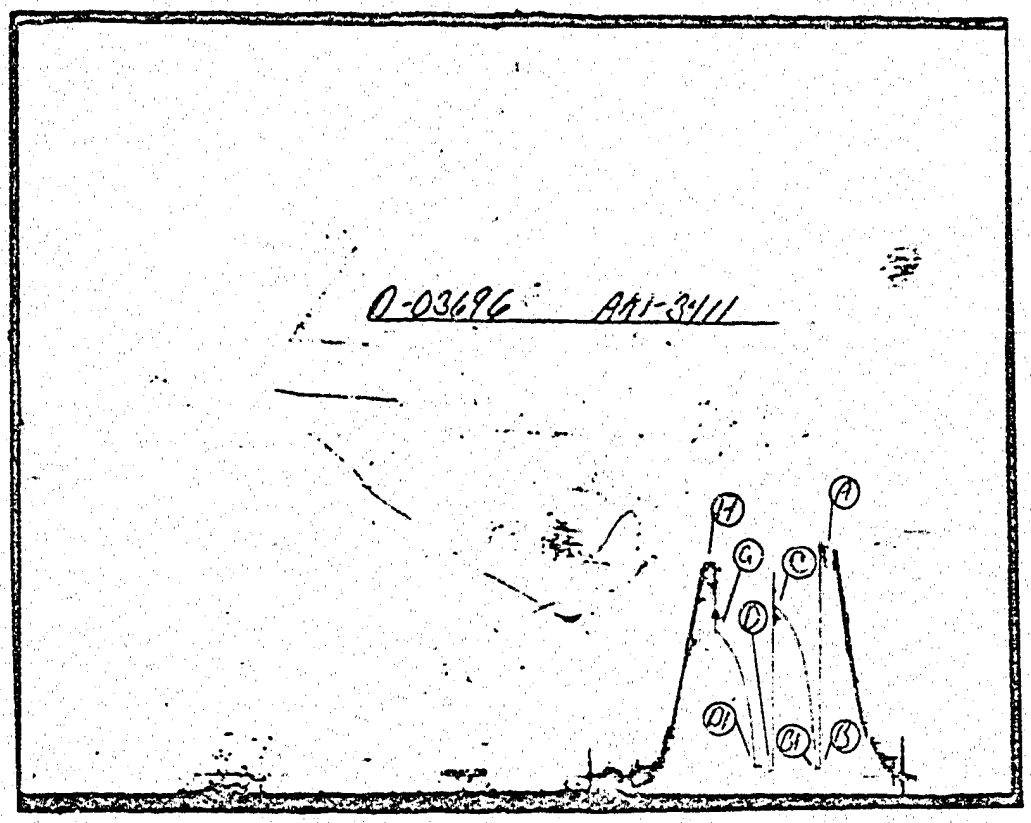
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

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

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

JOHNSTON TESTERS

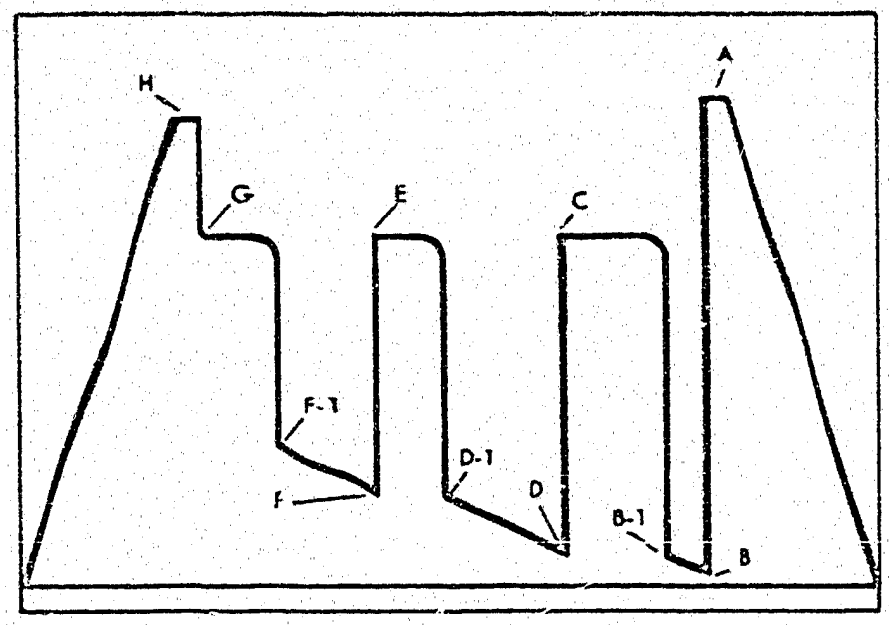
FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D 03696	AK1-3411	7100	7



JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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

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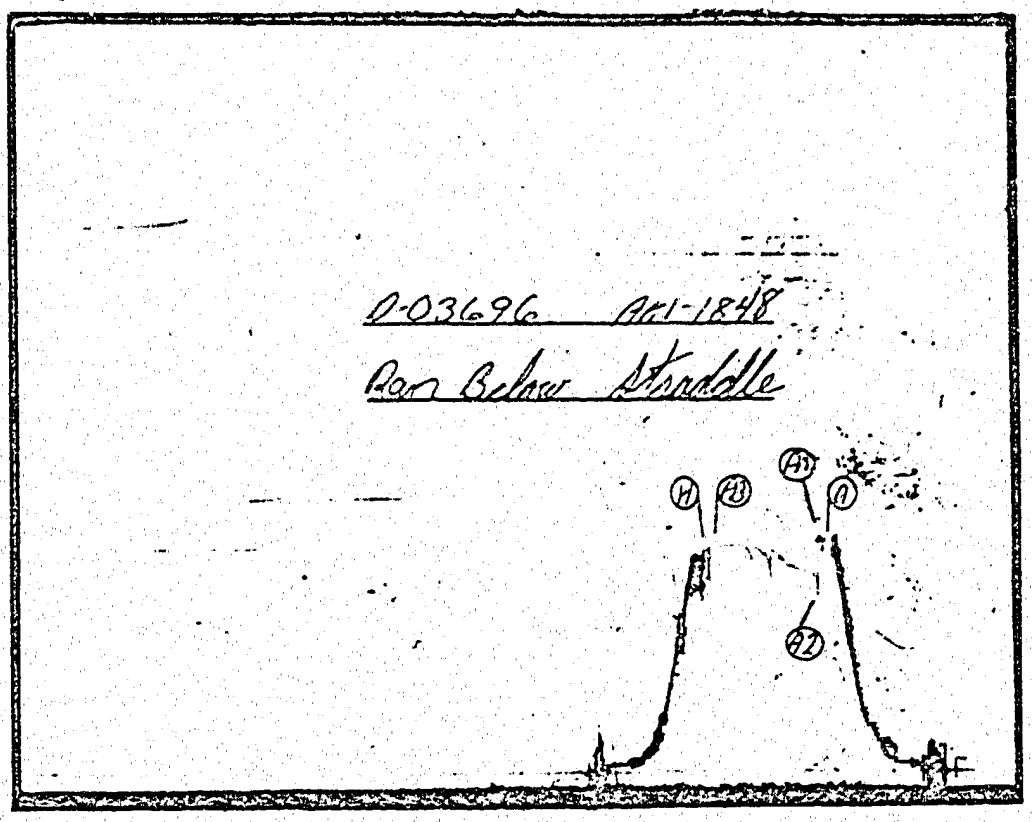
B, B-1, Initial Flow Pressures
C, Initial Shut-In
D-1, D-2, D-3, etc. Second Flow Pressures
E, Second Shut-In
F, F-1, F-2. Third Flow Pressures
G, Final Shut-In
H, Final Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.

JOHNSTON TESTERS

FIELD REPORT NO	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D 03696	AK1-1848	7100	7



(b) Casing Record

9 5/8" casing cemented at 660' K.B.

Ran in 13 3/4" hole, 20 jts. of 40#, K.55 LT&C casing. Used Guide Shoe on bottom and Float Collar 1 joint above shoe. Used three centralizers on bottom 3 jts. and one centralizer one joint below ground level. Howco cemented casing with 550 sacks of construction cement with 2% Calcium on last 250 sacks. Used one rubber plug and water to displace cement. Bumped plug at 700#. Bled off casing and float held o.k. Cement in place at 1:00 a.m. January 15, 1970. Good returns to surface.

(c) <u>Bit Record</u>

Attached

WELL AmHess Gulf Redknife E-55

RIG No. 1 CONTRACT No. Can-Tex TOOLPUSHER

OPERATOR Amerada Hess Corporation

L.S.D. SEC. TWP. RGE. W. M. AREA Trainor Lake

SPUDDED 5:00 a.m. Jan.12, 1970 COMPLETED 11:00 p.m. Feb. 4, 1970

AMERADA

BIT PERFORMANCE RECORD

BIT INFORMATION				DRILLED FOOTAGE AND HOURS					SURVEYS	ROTARY		ACCUMULATIVE FOOTAGE DRILLED			REAMING		CORING		CONDITION AND REMARKS
BIT No.	HOLE SIZE IN.	MAKE AND TYPE	SERIAL No.	DEPTH FT. FROM	DEPTH FT. TO	FOOTAGE FT.	TIME HRS.	PEN RATE FT./HR	DEVIATION DEGREES	WT. M	TABLE R.P.M.	FOOTAGE	HOURS	PEN RATE	FOOTAGE	HOURS	FOOTAGE	HOURS	
1A	(*)	HW OSC-3	8351	0	440	440	18.25	24.0	1/2	10/20	120	440	18.25	24.1					3-1-1
2A	"	HW OSC-3	19308	440	665	225	7.50	30.0	3/4	20	120	665	25.75	25.8					
		(*) 13 3/4																	
1	8 3/4	HWX1G	17678	665	1610	945	34.50	27.4	1/8	30	100	945	34.50	27.4					4-2-1
2	"	HWX1G	19727	1610	2444	834	44.00	18.9	1/8	30	100	1779	78.50	22.6					6-2-1
3	"	HWX1G	17684	2444	3046	602	28.00	21.5	1/2	30	100	2381	106.50	22.3					3-1-1
4	"	HWX1G	17634	3046	3960	914	38.75	23.6	1/8	30	100	3295	145.25	22.7					1-1-1
5	"	HWXV	18246	3960	4106	146	14.25	10.2	1	30	100	3441	159.50	21.6					No jets
6	"	HWXSSR	16828	4106	4620	514	49.00	10.4	1/2	45	35	3955	208.50	18.9					5-3-1
7	"	HWODV	19640	4620	4697	77	9.00	8.5	1/2	40	80	4032	217.50	18.5					8-4-0
8	"	HWWDR-J	DT265	4697	4763	66	12.75	5.1		45	80	4098	230.25	17.8					3-1-1
9	"	HW WD-7	19734	4763	4807	44	7.25	6.1		45	80	4142	237.50	17.4					3-1-1

9 - 8 3/4" bits at 460' per bit.

(d) Mud Report

Gel Ben-ex System
Surface to 2180 Gel Ben-ex and No stik
2180 to 4020' - gel Ben-ex and C.M.C.
4020 to 4807' - gel soda ash Peltex and caustic
Daily mud checks reported in Section VII

Materials Used

Ben-ex	150#
Caustic Soda	1,550#
C.M.C.	750#
DV-68	9 gals.
Hydrogel	80,000#
Peltex	400#
Sawdust	24,500#
Soda Ash	900#
Wt. Material	4,000#
No-stik	45 gals.
Lime	250#

(e) Deviation Record

Totco Surveys

Depth	Degree
100'	1
200'	1/2
290'	1/8
408'	1/2
500'	1/2
600'	3/4
922'	7/8
1240'	1/2
1547'	1/4
1610'	1/8
1920'	1/8
2200'	1/8
2444'	1/8
2535'	1/8
2626'	1/2
2716'	1/2
2897'	1
2958'	1/2
3017'	1/2
3150'	1/2
3241'	1/8
3331'	1/4
3421'	1/2
3512'	1/2
3605'	1/2
3695'	1/2
3783'	1
3843'	1/2
3933'	1/8
4024'	3/4
4106'	1
4620'	1/2

(f) Abandonment Plugs

Abandonment Plug No. 1 First Stage 4807' to 4401'

Hung 4 1/2" D.P. at 4807'. Howco pumped in and equalized 165 sacks of construction cement, and displaced with 62 bbls. of mud. Plug in place at 11:30 p.m. 2/3/1970

Abandonment Plug No. 2 - Second Stage 4401' to 4000'

Hung 4 1/2" D.P. at 4400'. Howco pumped in and equalized 165 sacks cement and displaced with 55 bbls. mud. Cement in place at 1:00 a.m. 2/4/1970.

Located Plug No. 1 and 2 at 3970' at 9:00 a.m. 2/4/1970

Abandonment Plug No. 3 - 610' to 710'

Hung 4 1/2" D.P. at 710'. Howco pumped in and equalized 65 sacks cement with 2% Calcium. Displaced cement with 9 bbls. water.

Cement in place at 11:30 a.m. 2/4/1970

Located Plug No. 3 at 580' at 8:00 p.m. 2/4/1970

(g) <u>Lost Circulation Zones</u>

Presquile Formation
Lost 75 bbls. of mud from 4470' to 4500'
Sealed off with 30 sacks of sawdust.

(h) Report of Blowouts

No blowouts.

SECTION IV

LOGS

Logs

Schlumberger IES Log Run No. 1 - February 1st, 1970
2" scale 659' to 4808'
5" scale 3860' to 4808'

Schlumberger Borehole Compensated Sonic Run No. 1 - February 1st, 1970
2" scale 659' to 4802'
5" scale 3880' to 4802'

Schlumberger Formation Density Gamma Ray and Caliper Run No. 1
February 1st, 1970
5" scale 3900' to 4806'

Schlumberger Sidewall Gamma Ray Neutron Porosity Run No. 1
February 1st, 1970
5" scale 3900' to 4806'

Schlumberger Dual Mineral Log Run No. 1 - February 1st, 1970
3900' to 4806'

Schlumberger Porosity Overlay Run No. 1 - February 1st, 1970
3900' to 4806'

SECTION V

ANALYSIS

(a)	Core Analysis	-	None
(b)	Water Analysis	-	Attached
(c)	Gas Analysis	-	None
(d)	Oil Analysis	-	None

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E70-236

Received: Feb. 9, 1970 Reported: Feb. 12, 1970

Well: Location: AMHESS Gulf Redknife 60° 40' N. - 119° 30" W.

Operator: AMERADA HESS CORPORATION

Field or Area:

Elev.: K.B. 1258' Grd.

Zone/Formation: Presquile

Sample Interval: 4240' - 4807'

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

Sampled from: bottom

Sampled by: Johnston Testers Limited

Date Feb. 2,197

OTHER PERTINENT DATA

Recovered: 3650'

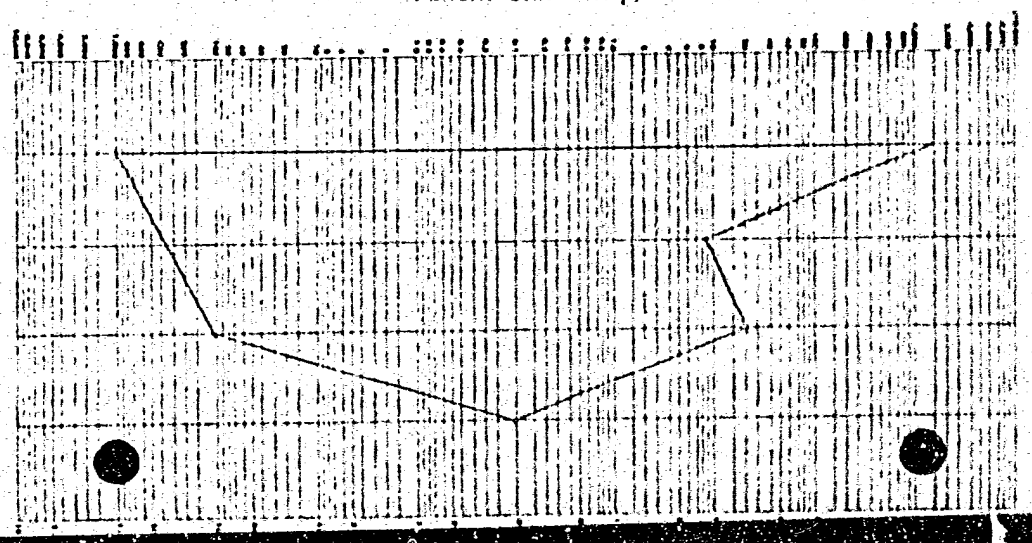
(Signed)

	Na	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	23305		7347	1337					989	51600				544		
Meq./L	1013.75		366.63	109.86					20.56	1460.76				8.92		
Meq. %	34.01		12.30	3.69					0.69	49.01				0.30		

Total Solids Mg/L: By Evaporation 94,417 Fe Very much Specific Gravity 1.065 @60°F Observed pH 6.8 @ 78°F

Calculated 85,322 After Ignition 80,919 H_2S Nil Refractive Index 1.3489 @25°C Resistivity 0.123 ohm meters @ 68°F

Pattern Unit Meq./L



Remarks and Conclusions: Sample consisted of colourl water with some black sediment. Some organic matter detected in total evaporated solids.

BENZENE CONTENT: No trace of benzene indicated.

Sample was received in a 1 quart metal container without a foil insert in the screw cap. Container w 1/2 full, water was clear.

When taking water samples for benzene analysis, it is recommended that the container be filled as ful as possible. Elution of benzene from the water to th vapor space above the sample can appreciably alter th detectable concentration.

CHEMICAL & GEOLOGICAL LABORATORIES LTD. WATER ANALYSIS Lab No. E70-237

Received: Feb. 9,1970 Reported: Feb. 12, 1970 Well: Location: AMHESS Gulf Redknife E-55 60° 40' N. - 119° 30' W.

Operator: AMERADA HESS CORPORATION Field or Area:

Elev.: K.B. 1258' Grd. Zone/Formation: Slave Point Sample Interval: 4040' - 4150'

Method of Production: D.S.T. #2 Sampled from: bottom Sampled by: Johnston Testers Limited Date Feb. 3,1970

OTHER PERTINENT DATA Recovered: 220' fluid.

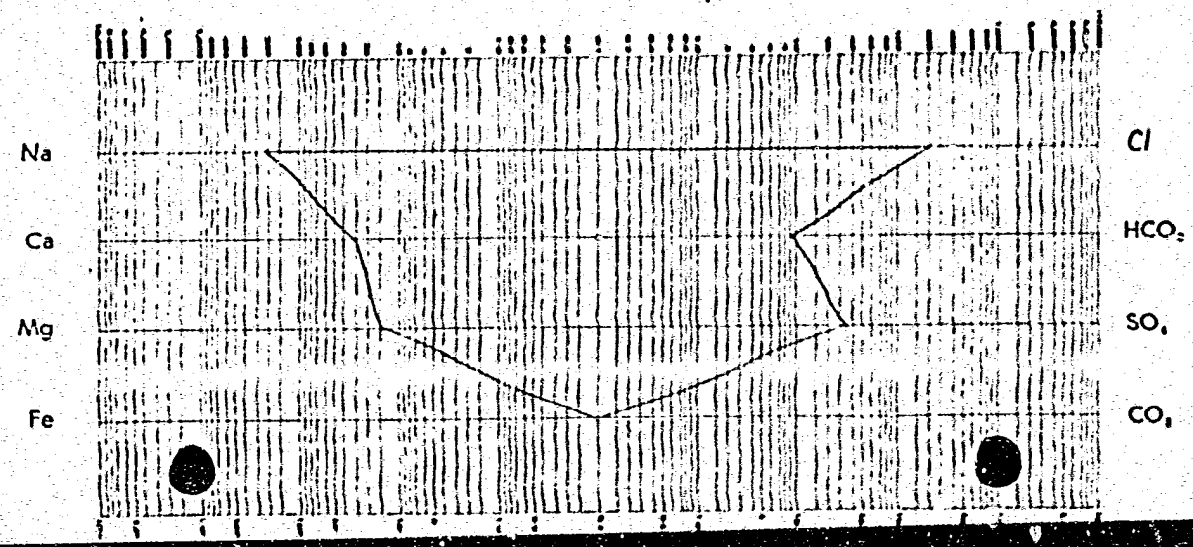
(Signed)

	Na	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	4671		649	187					1668	7340				566		
Meq./L	203.21		32.37	15.38					34.69	206.99				9.28		
Meq. %	40.49		6.45	3.06					6.91	41.24				1.85		

Total Solids Mg/L: By Evaporation 15,309 Fe much Specific Gravity 1.014 @60°F Observed pH 7.8 @ 77 °F

Calculated 15,081 After Ignition 12,036 H_2S nil Refractive Index 1.3356 @25°C Resistivity 0.601 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions: Sample consisted of approximately 45% light brown coloured water and 55% mud. Much organic matter detected in total evaporated solids.

continued.....

CHEMICAL & GEOLOGICAL LABORATORIES LIMITED

OPERATOR: AMERADA HESS CORPORATION REPORT NUMBER: E70-237

DATE SAMPLED: Feb. 3, 1970 DATE RECEIVED: Feb. 9, 1970 DATE REPORTED: Feb. 12, 1970

Kind of Sample: Water Well: AMHESS Gulf Redknife E-55 60° 40' N. - 119° 30' W.

Method of Production: D.S.T. #2 Formation: Slave Point Interval: 4040' - 4150'

Sampled from: bottom Sampled by: Johnston Testers Limited Elevation: K.B. 1258'

Recovered: 220' fluid.

BENZENE CONTENT: Trace

Sample was received in a 1 quart plastic container without a foil insert in the screw cap. Container was full, water was muddy.

The use of plastic containers is not recommended for benzene analysis samples, due to the adsorption and diffusion of benzene through the polyethylene. It has been shown that samples can loose significant quantities of benzene or conversely gain appreciable benzene when kept in proximity to a hydrocarbon source. For this reason, this analysis should not be considered as representative of the benzene content of the water source.

Containers suitable for benzene analysis samples may be obtained from this laboratory.

SECTION VI

COMPLETION RECORD

Dry and Abandoned

SECTION VII

WELL HISTORY & SUMMARY

AMERADA HESS CORPORATION

AMHESS GULF REDKNIFE E-55

UNIT E SEC. 55 GRID 60° 40' N 119° 30' W

WELL SUMMARY

Field	Trainor Lake - Wildcat
Well Number	Amhess Gulf Redknife E-55
Location	Located in Unit E, Sec. 55, Grid 60 degs. 40 mins. N; 119 degs. 30 mins. W - Lat. 60 degs. 34 mins. 23 secs. Long: 119 degs. 41 mins. 5.5 secs.
Elevation	Ground 1241' K.B. 1258'
Surveyor	No legal survey required
License	Authority #395
Contractor	Can-Tex Drilling & Exploration Ltd. Rig No. 1
Spudded	5:00 a.m. January 12, 1970 T.D. 4807'
Rig Released	11:00 p.m. February 4, 1970
Casing	9 5/8" casing cemented at 660' with 550 sacks
Logs	Schlumberger IES, Borehole Compensated Sonic, Formation Density Gamma Ray & Caliper, Sidewall Gamma Ray Neutron Porosity, Dual Mineral, Porosity Overlay.
Cores	No cores
Tests	D.S.T. No. 1 - 4240-4807 D.S.T. No. 2 - 4040-4150
Plugs	Plug No. 1 - First stage 4807' to 4401' 165 sacks Plug No. 2 - Second stage 4400' to 4000' 165 sacks Plug No. 3 - 610' to 710' 65 sacks
Drilling Time	9 - 8 3/4" bits at 460' per bit 237 1/2 hours at 17.4' per hour
Mud	Drilling Fluids - gel - Ben-ex System Surface to 2180 - gel - Ben-ex and No stick 2180' to 4020' Gel Ben-ex CMC 4020' to 4807' Gel, Soda ash, Peltex and Caustic.

AMERADA HESS CORPORATION

AMERADA HESS GULF REDKNIFE E-55

UNIT E SEC. 55 GRID 60° 40' N 119° 30' W

WELL HISTORY

1970

January 3rd to January 12th, Incl.	Moved in Can-Tex Rig No. 1. Rigged up to spud. Waited on part for derrick. Drilled 13 3/4" hole from 0' to 437' Wt 9.1, Vis. 50 Spudded in at 5:00 a.m. January 12, 1970
January 13th	Drilled 13 3/4" hole from 437' to 560' Wt 9.1, Vis. 50 Bit No. 1 A 13 3/4" HW OSC-3 (440'/18 1/4 hours) Spent 14 hours for trip out - measure - built up mud volume and reaming bridges to bottom.
January 14th	Drilled 13 3/4" hole from 560' to 665' Wt 9.1, Vis. 60 Bit No. 2A 13 3/4" HW OSC-3 (225'/7 1/2 hours) Circulated - made a trip - laid down 9" drill collars. Rigged up and started running 9 5/8" casing.
January 15th	Depth 665' 9 5/8" casing cemented at 660' K.B. Ran in 13 3/4" hole, 20 jts. of 40#, K.55 LT&C used casing. Used Guide Shoe on bottom and float collar 1 jt. above shoe. Used three centralizers on bottom and 1 centralizer 1 jt. below ground level. Howco cemented casing with 550 sacks of construction cement with 2% Calcium on last 250 sacks. Used one rubber plug and water to displace cement. Bumped plug at 700#. Bled off and float held o.k. Cement in place at 1:00 a.m. January 15, 1970. Drained and de-iced mud tanks. Dug cellar. Thawed out mud tanks. Temp. - 40 degs.
January 16th	Depth 665' Headed up B.O.P.s. Changed head and liners in pump. Dug mouse hole. Picked up four drill collars and ran in.

January 17th	Drilled 8 3/4" hole from 660' to 900' Wt 8.4, Vis. 30 Removed B.O.P.s. Installed new ring gaskets. Flanged down B.O.P.s Pressured up to 1000# on blind rams and 1200# on hydril and 4 1/2" rams. Drilled out and pressured up on cement job to 300# o.k.
January 18th	Drilled 8 3/4" hole from 900' to 1480' Wt 9.3, Vis. 30
January 19th	Drilled 8 3/4" hole from 1480' to 1876' Wt 9.1, Vis. 30 Bit No. 1 - 8 3/4" HW X1GJ (945'/34 1/2 hrs.)
January 20th	Drilled 8 3/4" hole from 1876' to 2312' Wt 9.2, Vis. 34
January 21st	Drilled 8 3/4" hole from 2312' to 2716' Wt 9.1, Vis. 43 Bit No. 2 - 8 3/4" HW X1G-J (834'/44 hrs.)
January 22nd	Drilled 8 3/4" hole from 2716' to 3060' Wt 9.3, Vis. 45, W.L. 9.6, Fc. 2/32" pH 8.5 Bit No. 3 - 8 3/4" HW X1G-J (603'/28 hrs.)
January 23rd	Drilled 8 3/4" hole from 3060' to 3578' Wt 9.3, Vis. 40, W.L. 10, Fc. 2/32" pH 7.2
January 24th	Drilled 8 3/4" hole from 3578' to 3968' Wt 9.3, Vis. 39, W.L. 10, Fc. 2/32" pH 8.0 Bit No. 4 - 8 3/4" HW X1G (914'/38 3/4 hrs.)
January 25th	Drilled 8 3/4" hole from 3968' to 4144' Wt 9.3, Vis. 48, W.L. 9.2, pH 8, Fc. 2/32" Bit No. 5 - 8 3/4" HW XV (145'/14 1/4 hrs.)
January 26th	Drilled 8 3/4" hole from 4144' to 4376' Wt 9.3, Vis. 70, W.L. 12.2, Fc. 2/32" pH 8.0
January 27th	Drilled 8 3/4" hole from 4376' to 4620' Wt 9.3, Vis. 50, W.L. 9.4, Fc. 2/32" pH 9.0 Bit No. 6 - 8 3/4" HW X55R (513'/49 hrs.) Hole tight - 4 stands off bottom
January 28th	Drilled 8 3/4" hole from 4620' to 4697' Wt 9.1, Vis. 50, W.L. 9.0, Fc. 2/32" pH 9.0 Bit No. 7 HW 8 3/4" ODV (77'/9 hrs.) Hole tight off bottom. Reamed 20' underguaged hole to bottom on bit No. 8

January 29th

Drilled 8 3/4" hole from 4697' to 4788'
Wt 9.2, Vis. 65, W.L. 6.8, Fc. 2/32" pH 9.5
Bit No. 8 HW 8 3/4" WDRJ (66'/12 3/4 hrs.)
Reamed 40' to bottom on Bit No. 9.

January 30th

Drilled 8 3/4" hole from 4788' to 4807'
Wt 9.2, Vis. 67, W.L. 8.8, Fc. 2/32" pH 8.0
Bit No. 9 - 8 3/4" WD-7 (44'/7 1/4 hrs.)
Circulated two hours. Started to make dummy trip to log. Stuck pipe at 4695'. Waited on fishing tools. Ran free point indicator and found pipe stuck at 4400'. Ran Homco string shot and backed pipe off at 4375'. Circulated above fish before pulling out.

January 31st

T.D. 4708'
Pulled out 4 1/2" drill pipe and 7 drill collars. Picked up 6 drill collars off rack. Ran in with Homco jars and bumper sub. Screwed into fish and bumped fish loose. Tried to break circulation, bit plugged. Worked fish loose through tight spot at 4360'. Pulled out of hole and recovered drill collars and bit. Ran in hole with 8 3/4" bit. Circulated hole. Made 10 stand dummy trip to log.

February 1st

T.D. 4807
Pulled out of hole and logged with Schlumberger
Schlumberger IES Log Run No. 1
2" scale 659' to 4808'
5" scale 3860' to 4808'

Schlumberger Borehole Compensated Sonic Run No. 1
2" scale 659' to 4802'
5" scale 3880' to 4802'

Schlumberger Formation Density Gamma Ray and Caliper Run No. 1 - 5" scale 3900' to 4806'

Schlumberger Sidewall Gamma Ray Neutron Porosity Run No. 1
5" scale 3900' to 4806'

Schlumberger Dual Mineral Log Run No. 1 - 3900' to 4806'

Schlumberger Porosity Overlay Run No. 1 - 3900' to 4806'
Started in hole with D.S.T. No. 1

February 2nd

T.D. 4807'
Drill Stem Test No. 1 - 4240-4807 - Ran in 8 3/4" hole Johnston Testers on dry 4 1/2" D.P. with 2 packers, jars, safety joint, Hydraulic tool, pump out sub, 2 recorders, 1/2"bean. Pre-flow 5 mins. I.S.I. 60 mins. V.O. 60 mins. F.S.I. 60 mins.
Blow: Strong initial puff, good air blow decreasing towards end of test.
Recovered: 3650' of brackish salt water - 69,000 ppm
Charts: I.H.P. 2087#, First flow 1250# - I.S.I.P. 1758#
F.F.P. 1737#, F.S.I.P. 1767# - F.H.H.P. 2087#

Ran in with 8 3/4" bit - circulated hole - pulled out and started in with D.S.T. #2

February 3rd

T.D. 4807'

D.S.T. No. 2 - 4040-4150

Ran in 8 3/4" hole Johnston Testers straddle on 4 1/2" drill pipe, with 4 packers, jars, safety joint, shut in tool, pump out sub, 3 recorders, 1/2" bean. Pre-flow 5 mins. I.S.I. 60 mins. V.O. 30 mins. F.S.I. 60 mins.

Blow: Good air blow throughout test.

Recovered: 220' drilling mud

Charts: I.H.H.P. 1965# First flow 67# I.S.I.P. 1523# F.F.P. 89#, F.S.I.P. 1320#, F.H.H.P. 1926#

Waited on orders.

Abandonment Plug No. 1 - First Stage 4807' to 4401'

Hung 4 1/2" D.P. at 4807'. Howco pumped in and equalized 165 sacks cement and displaced with 62 bbls. Gel. Plug in place at 11:30 p.m. 2/3/1970

February 4th

Abandonment Plug No. 2 - Second Stage 4401' to 4000'

Hung 4 1/2" D.P. at 4400' Howco pumped in and equalized 165 sacks cement and displaced with 55 bbls. gel. Cement in place at 1:00 a.m. 2/4/1970

Located Plug No. 1 and 2 at 3970' at 9:00 a.m. 2/4/1970

Abandonment Plug No. 3 - 610' to 710'

Hung 4 1/2" D.P. at 710'. Howco pumped in and equalized 65 sacks cement with 2% Calcium. Cement in place at 11:30 a.m. 2/4/1970

Located Plug No. 3 at 580' at 8:00 p.m. 2/4/1970

Cut casing off 3' below ground level - dumped in 5 sacks cement and welded plate over top. Welded 2" pipe 4' above ground level with well name plate on top.

Rig Released to Contractor at 11:00 p.m. 2/4/1970

SURVEYS

Depth	Degrees
100'	1
200'	1/2
290'	1/8
408'	1/2
500'	1/2
600'	3/4
922'	7/8
1240'	1/2
1547'	1/4
1610'	1/8
1920'	1/8
2200'	1/8
2444'	1/8
2535'	1/8
2626'	1/2
2716'	1/2
2897'	1
2958'	1/2
3017'	1/2
3150'	1/2
3241'	1/8
3331	1/4
3421'	1/2
3512'	1/2
3605'	1/2
3695'	1/2
3783'	1
3843'	1/2
3933'	1/8
4024'	3/4
4106'	1
4620'	1/2

CHEMICAL & GEOLOGICAL LABORATORIES LTD. WATER ANALYSIS Lab No. B70-236

Received: Feb. 9, 1970 Reported: Feb. 12, 1970 Well: Location: AMHESS Gulf Redknife 60° 40' N. - 119° 30" W.

Operator: AMERADA HESS CORPORATION Field or Area:

Elev.: K.B. 1258' Grd. Zone/Formation: Presquile Sample Interval: 4240' - 4807'

Method of Production: D.S.T. #1 Sampled from: bottom Sampled by: Johnston Testers Limited Date: Feb. 2,1970

OTHER PERTINENT DATA

Recovered: 3650'

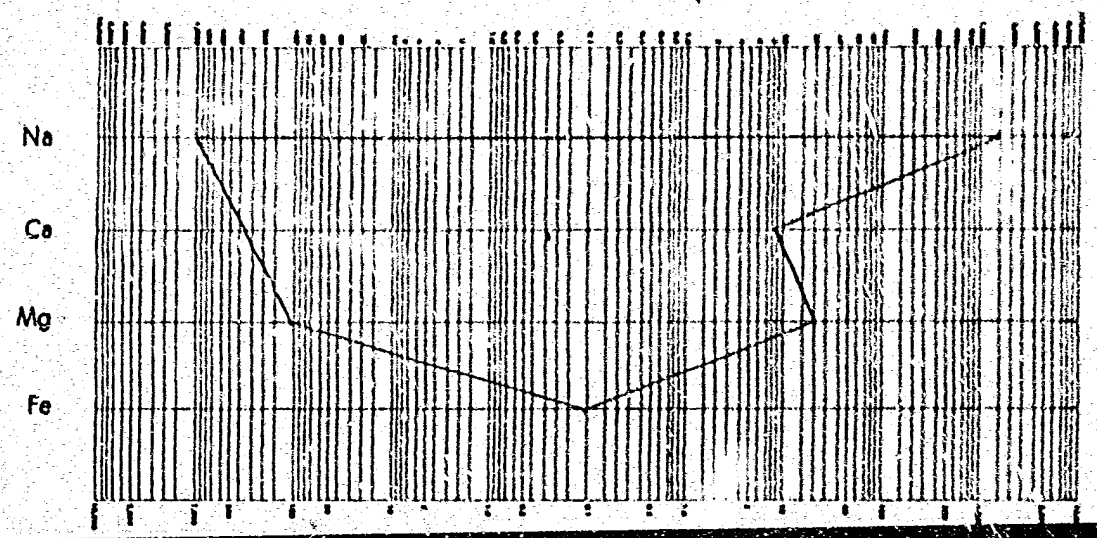
(Signed)

	Na	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	23305		7347	1337					989	51800				544		
Meq./L	1013.75		366.63	109.86					20.56	1460.76				8.92		
Meq. %	34.01		12.30	3.69					0.69	49.01				0.30		

Total Solids Mg/L: By Evaporation 94,417 Fe Very much Specific Gravity 1.065 @60°F Observed pH 6.8 @ 78°F

Calculated 85,322 After Ignition 80,919 H_2S Nil Refractive Index 1.3489 @25°C Resistivity 0.123 ohm meters @ 68°F

Pattern Unit Meq./L



Remarks and Conclusions: Sample consisted of colourless water with some black sediment. Some organic matter detected in total evaporated solids.

BENZENE CONTENT: No trace of benzene indicated.

Sample was received in a 1 quart metal container without a foil insert in the screw cap. Container was 1/2 full, water was clear.

When taking water samples for benzene analysis, it is recommended that the container be filled as full as possible. Elution of benzene from the water to the vapor space above the sample can appreciably alter the detectable concentration.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E70-237

Received: Feb. 9,1970 Reported: Feb. 12, 1970 Well: Location: AMHESS Gulf Redknife E-55 60° 40' N. - 119° 30' W.

Operator: AMERADA HESS CORPORATION Field or Area:

Elev.: K.B. 1258' Grd. Zone/Formation: Slave Point Sample Interval: 4040' - 4150'

Method of Production: D.S.T. #2 Sampled from: bottom Sampled by: Johnston Testers Limited Date: Feb. 3,1970

OTHER PERTINENT DATA Recovered: 220' fluid.

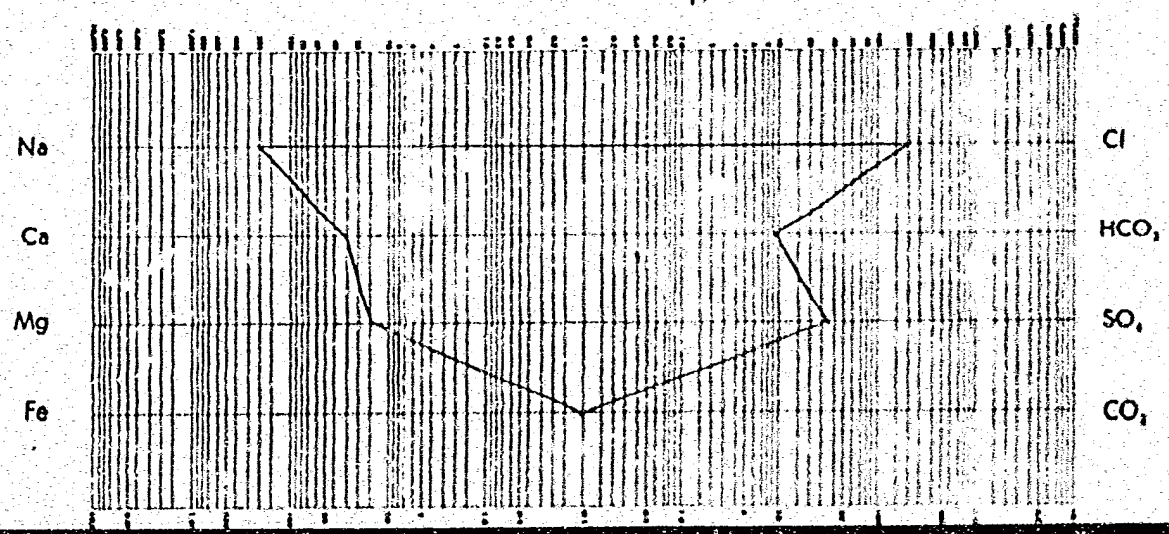
(Signed)

	Na	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	4671		649	187					1668	7340				566		
Meq./L	203.21		32.37	15.38					34.69	206.99				9.28		
Meq. %	40.49		6.45	3.06					6.91	41.24				1.85		

Total Solids Mg/L: By Evaporation 15,309 Fe much Specific Gravity 1.014 @60°F Observed pH 7.8 @ 77 °F

Calculated 15,081 After Ignition 12,036 H_2S nil Refractive Index 1.3356 @25°C Resistivity 0.601 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions: Sample consisted of approximately 45% light brown coloured water and 55% mud. Much organic matter detected in total evaporated solids.

continued.....

CHEMICAL & GEOLOGICAL LABORATORIES LIMITED

OPERATOR: AMERADA HESS CORPORATION REPORT NUMBER: E70-237

DATE SAMPLED: Feb. 3, 1970 DATE RECEIVED: Feb. 9, 1970 DATE REPORTED: Feb. 12, 1970

Kind of Sample: Water Well: AMHESS Gulf Redknife E-55 60° 40' N. - 119° 30' W.

Method of Production: D.S.T. #2 Formation: Slave Point Interval: 4040' - 4150'

Sampled from: bottom Sampled by: Johnston Testers Limited Elevation: K.B. 1258'

Recovered: 220' fluid.

BENZENE CONTENT: Trace

Sample was received in a 1 quart plastic container without a foil insert in the screw cap. Container was full, water was muddy.

The use of plastic containers is not recommended for benzene analysis samples, due to the adsorption and diffusion of benzene through the polyethylene. It has been shown that samples can loose significant quantities of benzene or conversely gain appreciable benzene when kept in proximity to a hydrocarbon source. For this reason, this analysis should not be considered as representative of the benzene content of the water source.

Containers suitable for benzene analysis samples may be obtained from this laboratory.

1.

TECHNICAL REPORT

JOHNSTON

A DIVISION OF DOWNHOLE JOHNSTON TESTERS

TEST DATA

Formation		Zone Thickness			Ft
Interval	4240 To	4807 T.D	4807		Ft
Type of Test	OPEN HOLE, BOTTOM HOLE.				
Time Started in Hole	2300	Hrs	Tool Opened	0230	Hrs
First Flow	5	Min	Initial Shut-In	60	Min
Second Flow	60	Min	Second Shut In		Min
Third Flow		Min	Final Shut In	60	Min
Pulled Loose @	0535	Hrs	Out of Hole	0900	Hrs
Wt Set on Packers	35,000	#	Pulled Loose Wt	10,000	#

Description of Blow During Test

STRONG INITIAL PUFF. GOOD AIR BLOW, DECREASING IN 25 MINUTES TO WEAK IN 45 MINS.

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No ☒

Total Fluid Recovered 3650 Ft

Description of Fluid Recovered

950' MUDDY, SALT WATER.
2700' BRACKISH, SALT WATER.

GAS BLOW MEASUREMENT

Measured With I.D. Riser

Type of Instrument

Time	Size Choke	Reading psi inches	M Cubic Feet Day
		NIL	

REMARKS TEST SATISFACTORY.
MFE SAMPLE DRAINED ON LOCATION.

RESISTIVITY			CHLORIDE CONTENT	
Recovery Water	@	°F.		ppm.
Mud Pit sample filtrate	@	°F.	69,000	ppm.

TOOL SEQUENCE

Tool	Length	O.D.
P.O. SUB & SUBS	2.50	
SUB	.60	
MFE TOOL	9.00	
BYPASS TOOL	3.00	
JARS	8.60	
SAFETY JOINT	1.75	
S.S. & PACKER	9.35	
T.C. & PACKER	5.40	
TOTAL	40.20	
STUB.	1.10	
PERF.	19.00	
RECORDER	5.90	
RECORDER	5.90	
PERF.	10.40	
SUB	.80	
DRILL PIPE	521.60	
SUB	.90	
B.N. & PERF.	2.00	
TOTAL INTERVAL	567.60	
TOTAL LENGTH	607.80	

Elevation	NOT REPORTED.
Bottom Hole Choke Size	1/2"
Fluid Cushion Type	NIL Amt.

MUD AND HOLE DATA

Mud Type	GEL & CHEM	W.L.	6.0		
Filter Cake	2/32	Visc.	75	Wt.	9.2
Time Taken					
Contractor	CAN-TEX DRLG.	Rig No.	1		
Drill Pipe Size	4 1/2 IF - 4 1/2 XH				
Drill Collar Size	2 7/8 ID	Length	357.52'		
Main Hole Size	8 3/4"				
Rat Hole Size					

District	HIGH LEVEL Ticket No. D 03695	Date FEBRUARY 2, 1970	Test No. 1 J.T. No. 1
Company	AMERADA HESS CORPORATION	Address	540-5TH AVENUE S.W. CALGARY 1, ALBERTA
Well Name	AMHESS GULF REDKNIFE E-55		
Number	60° 40'N 119° 30'W	Field WILDCAT	Province NORTH WEST TERRITORIES
Formation and Interval	4140 - 4807 DST#1	Co. Rep. P. MATLOCK	
		Technician H. PALMER	

Distribution of Reports
6 - CALGARY, 1 - DATA CENTER (ENCLOSED).

JOHNSTON TESTERS 321 50TH AVENUE S.E. · CALGARY 26 ALBERTA · PH 295-1191

A DIVISION OF SCHLUMBERGER CANADA LIMITED

D 03695

PRESSURE DATA

INSTRUMENT No		AK1-3411	AK1-1935		
CAPACITY (psig)		7100	7000		
INSTRUMENT DEPTH FT		4261	4266		
INSTRUMENT OPENING		OUTSIDE	OUTSIDE		
PRESSURE GRADIENT psi/FT					
WELL TEMP °F 148					
INITIAL HYDROSTATIC	A	2087#	2097#		
FIRST FLOW	B	1250#	1257#		
	B-1	1423#	1454#		
INITIAL SHUT-IN	C	1758#	1771#		
SECOND FLOW	D	1461#	1470#		
	D-1	1737#	1752#		
SECOND SHUT-IN	E				
THIRD FLOW	F				
	F-1				
FINAL SHUT-IN	G	1767#	1779#		
FINAL HYDROSTATIC	H	2087#	2097#		

FLUID SAMPLE REPORT

Sample No	
Type	WATER
Depth	4200 ft
Volume	2500 c.c.
Sample Pressure	110 psig at Surface
Gravity	API @ °F
Gas/Oil Ratio	Cu Ft/bbl.
Recovery	
Cu. Ft. Gas	
cc. Oil	
cc. Water	1700
cc. Mud	
Total Liquid cc.	1700

REMARKS:

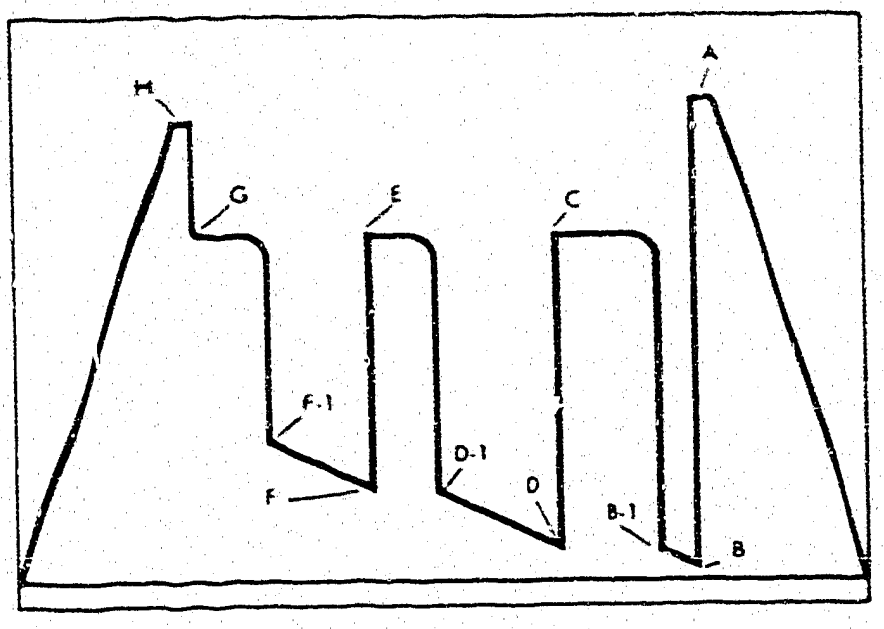
PRESSURE INCREMENTS

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

JTL-1 @ E.13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



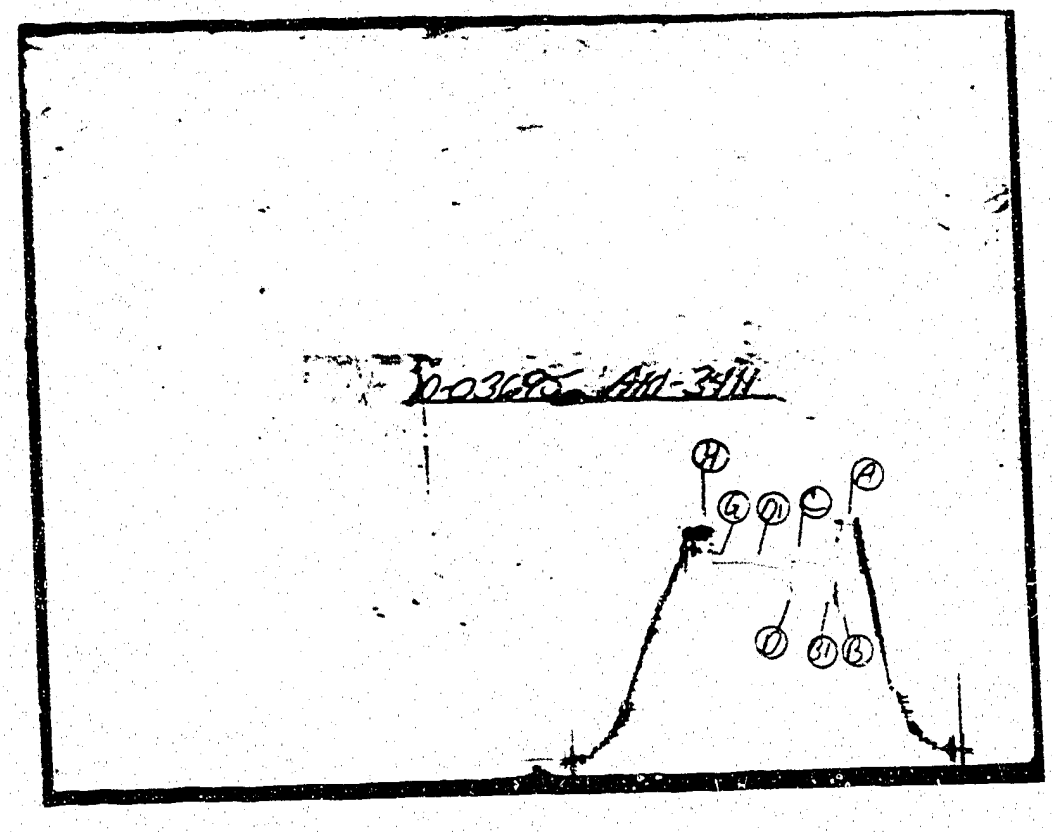
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

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

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

JOHNSTON TESTERS

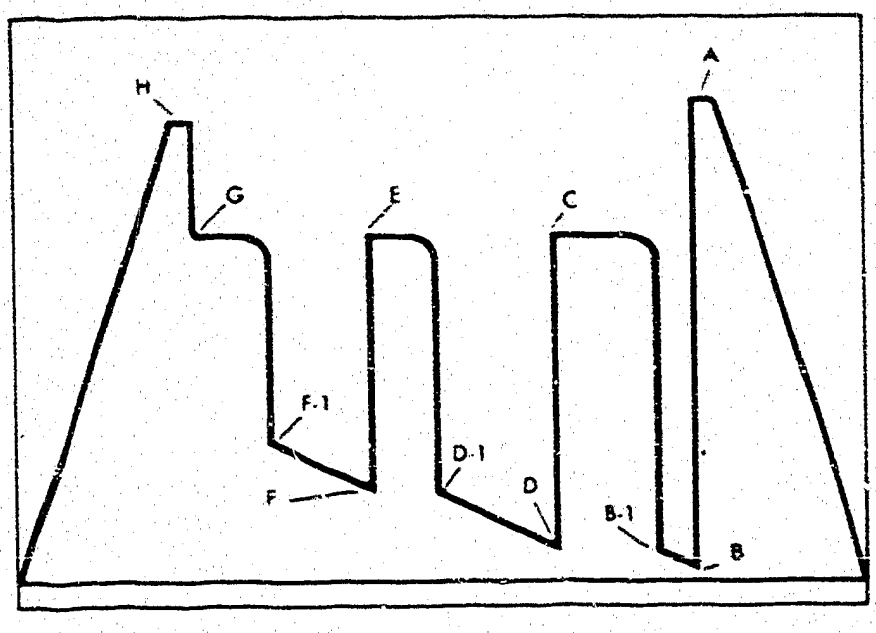
FIELD REPORT NO	RECORDER NO	CAPACITY	REPORTS REQUESTED
D 03695	AK1-3411	7100	7



JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



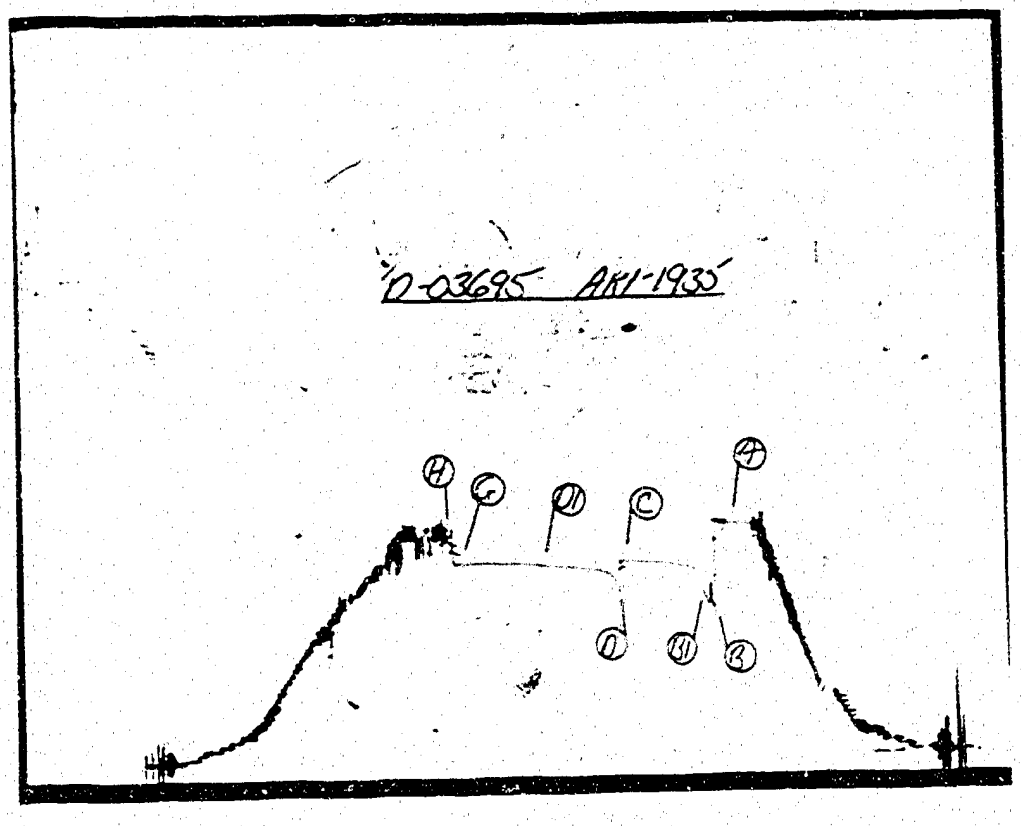
A. Initial Hyd. Mud
B. First Flow
C. Initial Shut-In
D. Second Flow
E. Second Shut-In
F. Third Flow
G. Final Shut-In
H. Final Hyd. Mud

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

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

JOHNSTON TESTERS

FIELD REPORT NO.	RECORDER NO.	CAPACITY	REPORTS REQUESTED
D 03695	AK1-1935	7000	7



2.

TECHNICAL REPORT

JOHNSTON

TEST DATA

Formation	SLAVE POINT	Zone Thickness			Ft
Interval	4039 To 4150	TD	4807		Ft
Type of Test	OPEN HOLE, STRADDLE, CONVENTIONAL.				
Time Started in Hole	2245	Hrs	Tool Opened	0145	Hrs
First Flow	5	Min	Initial Shut-In	60	Min
Second Flow	30	Min	Second Shut In		Min
Third Flow		Min	Final Shut In	60	Min
Pulled Loose @	0420	Hrs	Out of Hole	0600	Hrs
Wt Set on Packers	35,000	#	Pulled Loose Wt	10,000	#

Description of Blow During Test

GOOD AIR BLOW THROUGHOUT TEST.

FLUID RECOVERY

Was Test Reverse Circulated Yes ☐ No X

Total Fluid Recovered 220 Ft

Description of Fluid Recovered

220' DRILLING FLUID.

GAS BLOW MEASUREMENT

Measured With I.D. Riser

Type of Instrument

Time	Size Choke	Reading psi inches	M Cubic Feet Day
		NIL	

REMARKS TEST SATISFACTORY.
RECORDER No. AK1-1935, STYLUS NOT ENGAGED,
NO PRINTS MADE.
MFE SAMPLE DRAINED ON LOCATION.

	RESISTIVITY		CHLORIDE CONTENT
Recovery Water	@	°F.	ppm.
Mud Pit sample filtrate	@	°F.	ppm.

TOOL SEQUENCE

Tool	Length	OD
P.O. SUB	.85	
SUB	.60	
MFE TOOL	9.00	
BYPASS TOOL	3.00	
RECORDER	5.90	
JARS	8.60	
SAFETY JOINT	1.75	
S.S. & PACKER	9.35	
T.C. & PACKER	5.40	
TOTAL	44.45	
STUB.	1.10	
PERF.	5.00	
RECORDER	5.90	
PERF.	1.50	
SUB	.80	
DRILL PIPE	91.88	
SUB	.80	
BLANK SUB	.80	
T.C. & STUB.	3.50	
TOTAL INTERVAL	111.28	
PACKER	2.80	
T.C. & PACKER	6.50	
PERF.	24.00	
RECORDER	5.90	
SUB	.80	
DRILL PIPE	614.06	
SUB	.90	
B.M. & PERF.	2.00	
TOTAL BELOW INTV.	556.96	
TOTAL LENGTH	812.69	

Elevation NOT REPORTED.

Bottom Hole Choke Size 1/2"

Fluid Cushion Type NIL Amt.

MUD AND HOLE DATA

Mud Type W L

Filter Cake Visc Wt.

Time Taken

Contractor CAN-TEX DRLG. Rig No. 1

Drill Pipe Size 4 1/2 IF & 4 1/2 XH

Drill Collar Size 2 7/8 ID Length

Main Hole Size 8 3/4"

Rat Hole Size

District HIGH LEVEL Ticket No. D 03696 Date FEBRUARY 3, 1970 Test No. 2 J.T. No. 2

Company AMERADA HESS CORPORATION Address 540-5TH AVENUE S.W.

Well Name AMHESS GULF REDKNIFE E-55 CALGARY 1, ALBERTA

Number #60° 40'N 119° 30'W Field WILDCAT Province NORTH WEST TERRITORIES

Formation SLAVE POINT Co. Rep. P. MATLOCK

and Interval 4039 - 4150 DST#2 Technician H. PALMER

Distribution of Reports

6 - CALGARY, 1 - DATA CENTER (ENCLOSED).

JOHNSTON TESTERS 321 30TH AVENUE S.E. · CALGARY 24 ALBERTA · PH. 255-1151

A DIVISION OF SCHLUMBERGER CANADA LIMITED

D 03696

PRESSURE DATA

INSTRUMENT No.		AK1-3411	AK1-1935	AK1-1848
CAPACITY (psig)		7100	7000	7100
INSTRUMENT DEPTH FT		4009	4046	4184
INSTRUMENT OPENING				
PRESSURE GRADIENT psi/FT				
WELL TEMP °F 145				
INITIAL HYDROSTATIC	A	1965#		2026#
FIRST FLOW	B	67#		
	B-1	67#		A-1 2118#
INITIAL SHUT-IN	C	1523#		A-2 1561#
SECOND FLOW	D	80#		
	D-1	89#	STYLUS NOT	RAN BELOW
SECOND SHUT-IN	E		ENGAGED	STRADDLE
THIRD FLOW	F			
	F-1			A-3 2028#
FINAL SHUT-IN	G	1320#		
FINAL HYDROSTATIC	H	1926#		1987#

FLUID SAMPLE REPORT

Sample No.	
Type	MUD
Depth	ft
Volume	2500 c.c.
Sample Pressure	10 psig at Surface
Gravity	API at °F
Gas Oil Ratio	Cu.Ft. bbl.
Recovery	
Cu. Ft. Gas	
cc. Oil	
cc. Water	
cc. Mud	250
Total Liquid cc	250

REMARKS:

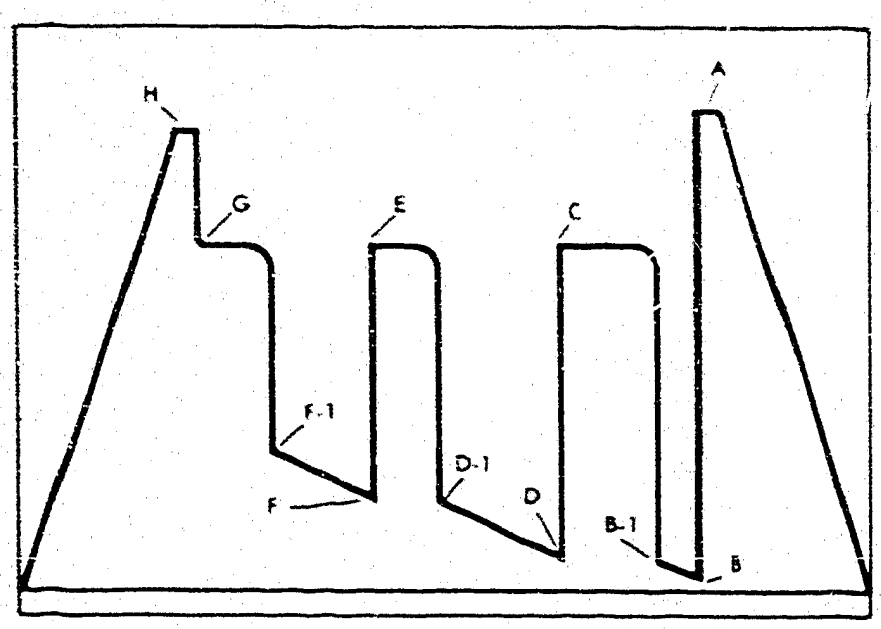
PRESSURE INCREMENTS

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

JTL-1 ● E13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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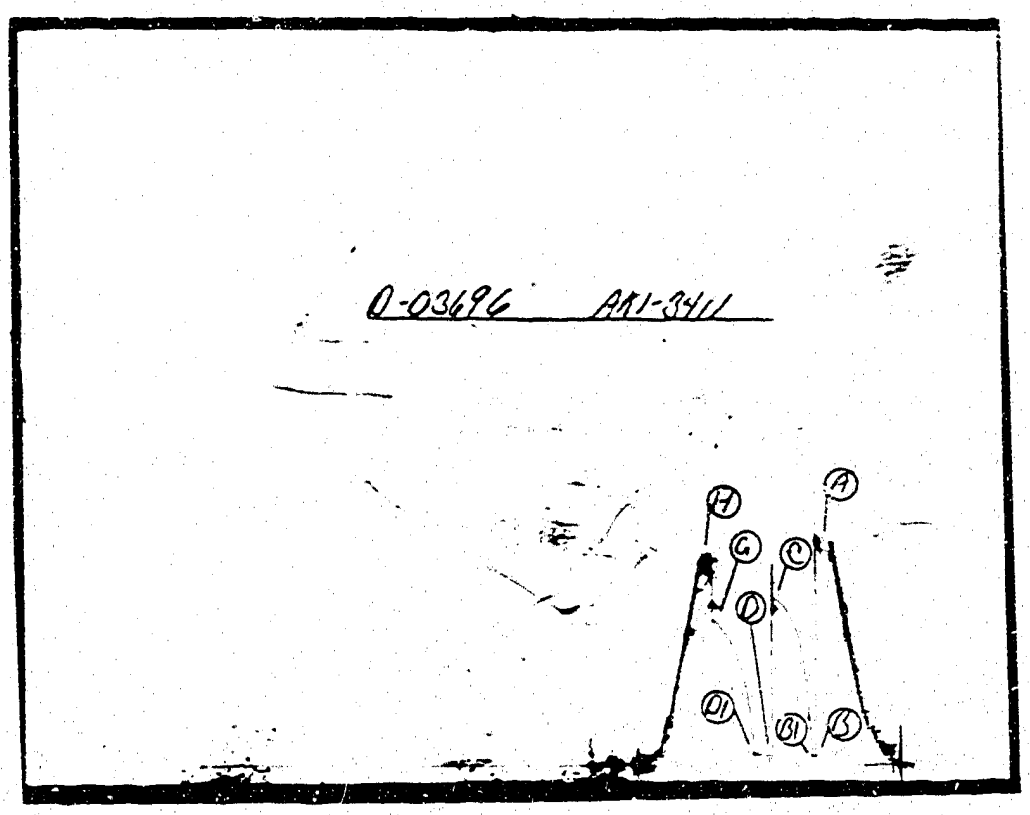
H, Final Hyd. Pressures
Z — Special pressure points such as pumping pressures recorded for formation breakdown.

JOHNSTON TESTERS

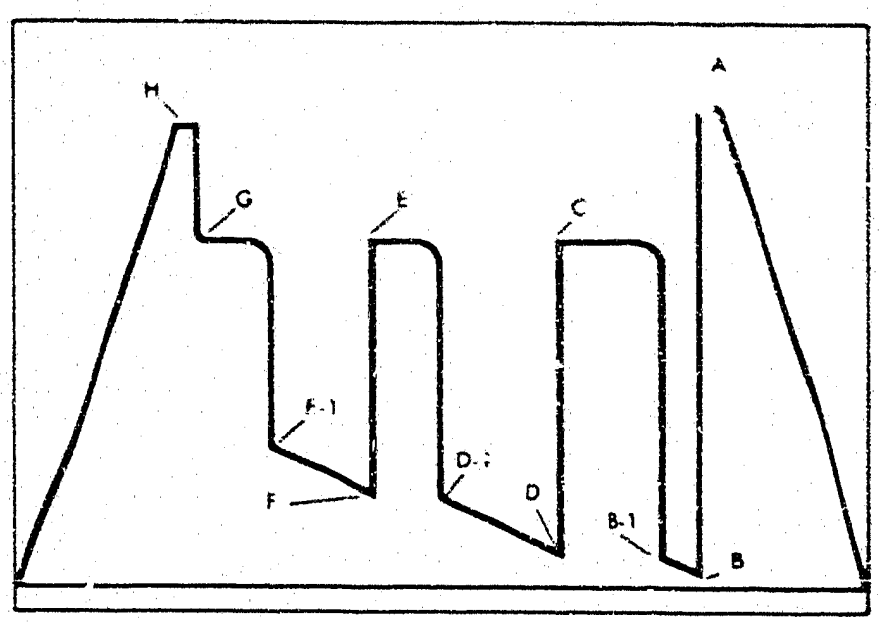
FIELD REPORT NO	RECORDER NO	CAPACITY	REPORTS REQUESTED
D 03696	AK1-3411	7100	7



JTL-1 & E-13A

JOHNSTON TESTERS

GUIDE TO IDENTIFICATION OF DRILL STEM TEST PRESSURE CHARTS



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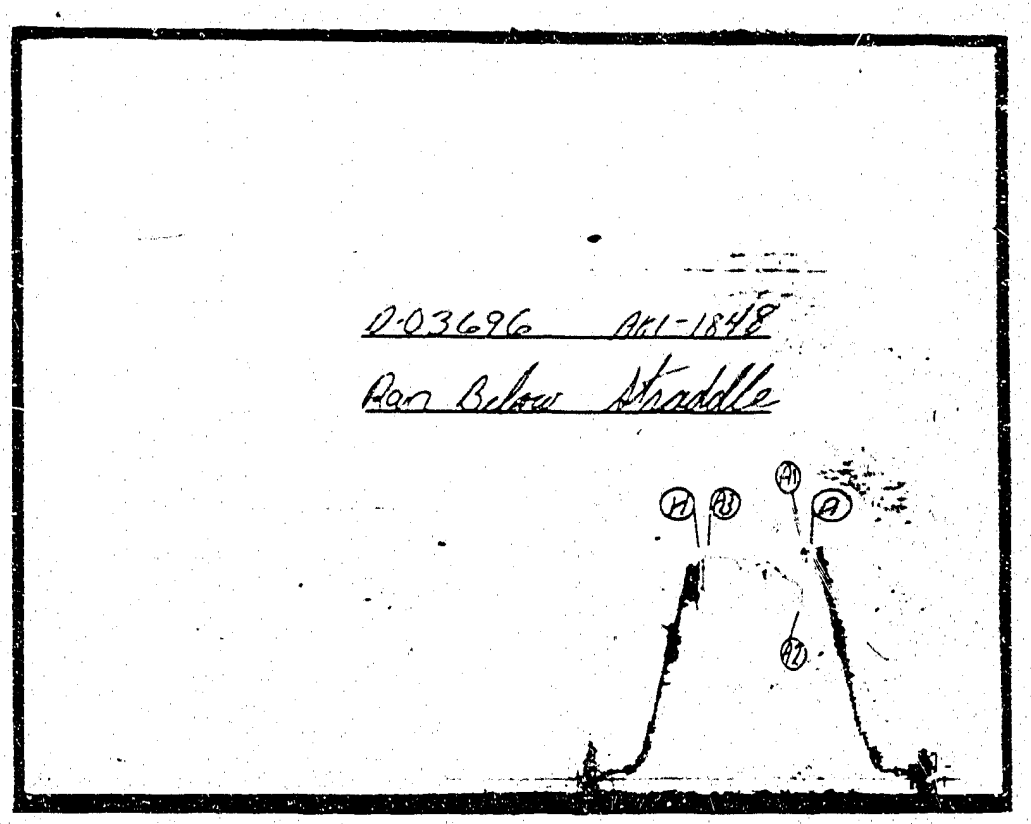
Z — Special pressure points such as pumping pressures recorded for formation breakdown

JOHNSTON TESTERS

FIELD REPORT NO	RECORDER NO	CAPACITY	REPORTS REQUESTED
D 03696	AX1-1848	7100	7



CHEMICAL & GEOLOGICAL LABORATORIES LTD. WATER ANALYSIS Lab No. E70-236

Received: Feb. 9, 1970 Reported: Feb. 12, 1970 Well: Location: AMHESS Gulf Redknife 60° 40' N. - 119° 30" W.

Operator: AMERADA HESS CORPORATION Field or Area:

Elev.: K.B. 1258' Grd. Zone/Formation: Presquile Sample Interval: 4240' - 4807'

Method of Production: D.S.T. #1 Sampled from: bottom Sampled by: Johnston Testers Limited Date: Feb. 2,1970

OTHER PERTINENT DATA

Recovered: 3650'

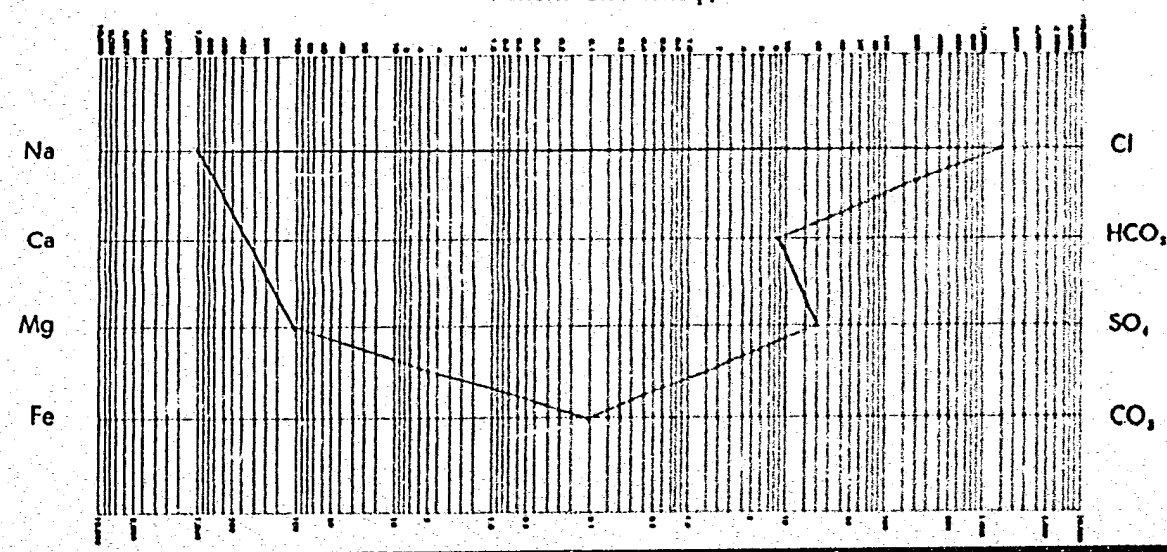
(Signed)

	Na	K	Ca	Mg					SO_4	Cl			CO_3	HCO_3		
Mg./L	23305		7347	1337					989	51800				544		
Meq./L	1013.75		366.63	109.86					20.56	1460.76				8.92		
Meq. %	34.01		12.30	3.69					0.69	49.01				0.30		

Total Solids Mg/L: by Evaporation 94,417 Fe Very much Specific Gravity 1.065 @60°F Observed pH 6.8 @ 78°F

Calculated 85,322 After Ignition 80,919 H_2S Nil Refractive Index 1.3489 @25°C Resistivity 0.123 ohm meters @ 68°F

Pattern Unit Meq./L



Remarks and Conclusions: Sample consisted of colourless water with some black sediment. Some organic matter detected in total evaporated solids.

BENZENE CONTENT: No trace of benzene indicated.

Sample was received in a 1 quart metal container without a foil insert in the screw cap. Container was 1/2 full, water was clear.

When taking water samples for benzene analysis, it is recommended that the container be filled as full as possible. Elution of benzene from the water to the vapor space above the sample can appreciably alter the detectable concentration.

AmHess Gulf Redknife E-55 - Tour Reports

D.A. 395

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date Feb. 4 1970

Rig# 1 Location Amerada Hess Gulf Red Knife E-55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
	TD 4807									

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL

BITS

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

Abandonment Plug No 2 Second Stage 4401' to 4000'

MUD — 12 Mn. / 2 a.m. / 4 a.m. / 6 a.m.

WEIGHT / VISCOSITY / GEL

Additives: Pump 4 1/2 D.P. at 4400'. Totco pumped in and equalized 165 sacks cement & displaced with 55 bbls Salt. Cement in place at 1.00 AM 2/4/1970

At Surveys Degree / MOTOR HOURS / Next Oil Change

PUMPS — No. 1 / No. 2 — Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL

BITS

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

Abandonment Plug No 3 640 to 790'

MUD — 8 a.m. / 10 a.m. / 12 Noon / 2 p.m.

WEIGHT / VISCOSITY / GEL

Additives: Pump 4 1/2 drill pipe set 790. Totco pumped in & equalized 65 sacks cement 4 1/2 to Calcium Cement in place at 11.30 AM 2/4/70.

At Surveys Degree / MOTOR HOURS / Next Oil Change

PUMPS — No. 1 / No. 2 — Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

Located plug No 3 at 580' at 8.00 P.M. 2/4/70

W.L. F.C. pH.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER

Stands / Singles / D. Collars / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL

BITS

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

Cut off 2' below ground level plate over top. Welded 2" pipe 4' above ground level with Wellman plate

MUD — 4 p.m. / 6 p.m. / 8 p.m. / 10 p.m.

WEIGHT / VISCOSITY / GEL

Additives:

At Surveys Degree / MOTOR HOURS / Next Oil Change

Rig Released to Contractor at 11.00 P.M. 2/4/1970

Flow 6

PUMPS — No. 1 / No. 2 — Pressure / Model / S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RAN PLUG NO 2 SECOND STAGE	12.00		
4401 To 4000'		1.00	1
WOC ON PLUG #2	1.00	8.0	7
Company Time / Cont'r Time			
RAN IN & FELT PLUG #2 AT 3970	8.00	9.00	
PULLED UP & TO RUN PLUG NO3	9.00	11.00	
RAN PLUG NO 3	11.00	11.30	
WOC ON PLUG #3	11.30	4.00	4 1/2
Company Time / Cont'r Time			
WOC ON PLUG #3	4.00	7.30	3 1/2
Felt for plug No3	7.30	8.00	1/2
Tear out BOPS & lay down Kelly	8.00	11.00	3
Tear out	11.00	12.00	1
Company Time / Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date FEB. 3 1970

Rig# 1 Location AMERADA HESS GULF FT AL. Red Knife E 55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL 55	WATER

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS: No. 1 Pressure, Model, S.P.M., Liner Size; No. 2 Pressure, Model, S.P.M., Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
13	6162	6	[illegible]53	3924		2175	3859

General

W.L. F.C. pH.

Stands 1364.50 Singles 60.11 D. Collars 257.52 Other Ft. 737 C.B. Ft. Subs. Ft. Ft. Up On Kelly 43.63 TOTAL

REMARKS	Time Start	Stop	Interval
RIG SERVICE	1900	1915	¼
RUN IN W/ D.S.T. No 2.	1915	2330	1¼
TEST TIME	2330	500	2½
HOLD	500	800	1
LAY DOWN TESTING TOOLS	700	800	1.
Company Time Cont'r Time			

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4257	7 T.D.				13	6"	2 7/8	30				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
		DST No 2 4040-4150									
		Ran in 8 3/4" hole Johnston testers straddle									
		on 4 1/2" D.P. dry Quick 4 Packers, gauge,									

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: safety joint, shut in tool, 3 recorders, pump out sub 1/2 lean

At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

Preflow - 5 min, I.S.I 60 min, V.O. 30 min F.S.I 60 min

Blow Good air blow throughout test.

PUMPS: No. 1 Pressure, Model, S.P.M., Liner Size; No. 2 Pressure, Rec 2 HP, Model, S.P.M., Liner Size Oilers

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/2	6662	6		3924	35	2140	4224

General

IHHP 1971 FHHP 1935 IFP 72 FFP 90

ISIP 1525 FSIP 1310 Temp 146°

W.L. F.C. pH.

Stands 43.41.50 Singles 60.11 D. Collars 257.52 Other Ft. 737 C.B. Ft. Subs. Ft. Ft. Up On Kelly 43.63 TOTAL 4807

REMARKS	Time Start	Stop	Interval
WAIT ON ORDERS	400	600	8
[illegible]			
Company Time Cont'r Time			

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
		Abandonment Plug No 1 First stage 4807 To 4401									

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: pumped in 165 sacks cement & displace with 86 bbls Bill. Plug in Place at 11.30 PM 2/3/1970

At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS: No. 1 Pressure, Model, S.P.M., Liner Size; No. 2 Pressure, Model, S.P.M., Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/2	6662	6		3924	— —	2140	4224

General

W.L. F.C. pH.

Stands Singles D. Collars Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly TOTAL

REMARKS	Time Start	Stop	Interval
WAIT ON ORDERS	400	500	1
LOAD OUT TESTER	500	630	1½
LAY DOWN COLLARS	630	830	2
RUN IN HOLE & PICK UP	830		
12 SINGLES & BROKE			
CIRCULATION		1030	2
RAN PLUG #1 FIRST STAGE	1030		
4807 TO 4401'		1130	1
PULLED UP TO RUN PLUG			
NO 2 SECOND STAGE			
BROKE CIRCULATION	1130	1200	1/2
Company Time Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date FEB. 3 1970

Rig# 1 Location ANDARKO HILL GULF ET AL Red River E 55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL 55	WATER

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS			
No. 1	Pressure		
Model	S.P.M.		
	Liner Size		
No. 2	Pressure		
Model	S.P.M.		
	Liner Size		

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1¼	6162	6	[illegible]53	3994		2175	3859

General

Stands 11341.50 Singles 60.21 D. Collars 557.52 Other Ft. 7.37 C.B. Ft. Subs. Ft. Ft. Up On Kelly 42.63 TOTAL

Time Start	Stop	Interval	REMARKS
1900	1915	¼	RIG SERVICE
1915	2330	1¼	RUN IN W/ D.S.T. No 2
2330	500	2½	TEST TIME
500	700	2	HOLD
700	800	1	LAY DOWN TESTING TOOLS

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4257 T.D.					13	6"	2¼	30				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
		DST No 2		4040-4150							
		Ran in 8 3/4" hole Johnston testers straddle									
		on 4½" D.P. dry circ 4 packers, gas,									

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: safety joint, shut in tool, 3 recorders, pump out with 1/2 bean. Preflow - 5 min, I.S.I 60 min, V.O. 30 min F.S.I 60 min. Blow. Good air blow throughout test.

At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS			
No. 1	Pressure		
Model	S.P.M.		
	Liner Size		
No. 2	Pressure	Rec	2
Model	S.P.M.	Clarks	
	Liner Size		

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
				3924	35	2140	4224

General

IHHP 1971 FHHP 1935 IFP 72 FFP 90 ISIP 1525 FSIP 1310 Temp 146°

Stands 43641.50 Singles 60.21 D. Collars 557.52 Other Ft. 7.37 C.B. Ft. Subs. Ft. Ft. Up On Kelly 42.63 TOTAL 4207

Time Start	Stop	Interval	REMARKS
900	400	8	WAIT ON ORDERS
			~~[illegible]~~

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
		Abandonment Plug No 1 First stage 4807 To 4401									

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: Pumped in 165 sacks cement & displace with 22 bbls Gell. Plug in place at 11.30 PM 2/3/1970

At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS			
No. 1	Pressure		
Model	S.P.M.		
	Liner Size		
No. 2	Pressure		
Model	S.P.M.		
	Liner Size		

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
½	665	6		3924	— —	2140	4224

General

Stands Singles D. Collars Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly TOTAL

Time Start	Stop	Interval	REMARKS
400	500	1	WAIT ON ORDERS
500	630	1½	LOAD OUT TESTER
630	830	2	LAY DOWN COLLARS
830			RUN IN HOLE & PICK UP 12 SINGLES & BROKE CIRCULATION
	1030	2	
1030			RAN PLUG #1 FIRST STAGE 4807 TO 4401'
	1130	1	
			PULLED UP TO RUN PLUG NO 2 SECOND STAGE
1130	1200	½	BROKE CIRCULATION

Company Time Cont'r Time

Totco Ring on Bit No. D.P. Calipered Date Results Boiler in Operation Toolpusher

B.O.P. Test-Operated Time Results Approved by

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date Feb 2 19 70

Rig# 1 Location ANGLADA HESS COLF FT AL HAWKNIFE E55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL 23	WATER
					13	5 3/4	2 3/4	30				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT							1	
VISCOSITY							2	
GEL							3	
PUMPS No. 1 Pressure							4	
Model S.P.M.							5	
Liner Size								
No. 2 Pressure								
Model S.P.M.								
Liner Size								

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/4	65	6	52	3765		2175	3859

General

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL
4364.50	30.07	357.52	19.00			4.00	4807

REMARKS	Time Start	Stop	Interval
Rig Service	11 00	12 15	1 1/4
Run in DST #1	12 15	2 30	1 1/4
Testing	2 30	6 00	3 1/2
Hoist w/ DST	1 00	3 00	2
Company Time	Cont'r Time		

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4807					13	6 1/4	2 1/4	30				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
				DST# No 1 4240-4807							
				Reamin 8 3/4" hole Johnston Testers on deck 7.37							

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT							1	
VISCOSITY							2	
GEL							3	
PUMPS No. 1 Pressure							4	
Model S.P.M.							5	
Liner Size								
No. 2 Pressure								
Model S.P.M.								
Liner Size								

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

4 1/2 D.P. with 2 packers, 2 anchors, 1 safety joint.
Hydraulic tool, pump out sub. 2 recorders.
Tester.
Pre-flow 5 min. I.S.I 60 min. - V.O. 60 min. F.S.I 60 min.
Blow Strong initial puff, good air blow decreasing towards end of test.
Recovered 3650' of Brackish SLC. Water. 69,000 PPM
Charts IHHP 2128 FHHP 2110 IFP 1505 FFP 1790 ISIP 1808 FSIP 1808 BHT 148

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL
4364.50	2 60.24	357.52	3.500			23.63	4807

REMARKS	Time Start	Stop	Interval
Hoist Packer	8 00	9 00	1
Break down + service sand	9 00		
Lay down 9 - 6 1/4 D/collars			
Run in w/bit + Bumper Sub		4 00	7
Company Time	Cont'r Time		

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
				70M	13	5 3/4	2 3/4	30				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
											BUMPER SUB

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT							1	
VISCOSITY							2	
GEL							3	
PUMPS No. 1 Pressure							4	
Model S.P.M.							5	
Liner Size								
No. 2 Pressure								
Model S.P.M.								
Liner Size								

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/4	65	6	106	3871	— —	2175	3859

General

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL
48-2 4924.74		357.52	→ 7.32			23.63	4807

REMARKS	Time Start	Stop	Interval
Circ. + Wait on orders	4.00	8.00	4
Hoist for DST #2	9.00	10.00	2
Run in tail pipe + make up DST #2	10.00	12:00	2
Company Time	Cont'r Time		

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J. Mehyk

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date Feb. 1 1970

Rig# 1 Location AMERADA HESS GULF ET AL RED KNIFE ESS Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
		1187			13	5 3/4	2 7/8	30			32'	

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY		95		
GEL				

Additives: GEL - 300#; CMC H.Vis - 100#

At Surveys Degree

MOTOR HOURS		Next Oil Change
1		
2		
3		
4		
5		

PUMPS			
No. 1	Pressure		
Model	S.P.M.		
	Liner Size		
No. 2	Pressure		
Model	S.P.M.		
	Liner Size		

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1 1/8	1643	6	52	3713					3859

General CHANGED OIL IN D353. AND 1 PUMP MOTORS FILTERS

Stands	64.50
Singles	30.87
D. Collars	352.52
Other Ft.	19.00
C.B. Ft.	
Subs. Ft.	
Ft. Up On Kelly	11.00
TOTAL	1187

REMARKS	Time Start	Stop	Interval
RIG SERVICE.	12:00	12:15	1/4
CIRC. T.O. LOG.	12:15	2:30	2 1/4
HOIST TO LOG	2:30	4:15	2 1/4
LOGGING	4:15	8:00	3 3/4

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4807												

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS		Next Oil Change
1		
2		
3		
4		
5		

PUMPS			
No. 1	Pressure		
Model	S.P.M.		
	Liner Size		
No. 2	Pressure		
Model	S.P.M.		
	Liner Size		

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1 1/8		6							

General CHANGED OIL + FILTER IN #2 PUMP MOTOR.

Stands	
Singles	
D. Collars	
Other Ft.	
C.B. Ft.	
Subs. Ft.	
Ft. Up On Kelly	
TOTAL	

REMARKS	Start	Stop	Interval
SCHLUMBERGER LOGGING	8:00	4:00	8
Schlumberger Logs.			
IES 2" scale 659' to 4808'			
5" scale 3860' to 4808'			
Borehole Compensated Sonic			
2" scale 659 to 4802'			
5" scale 3880' to 4802'			
Formation Density & Caliper			
5" scale 3900 to 4806'			

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS		Next Oil Change
1		
2		
3		
4		
5		

PUMPS			
No. 1	Pressure		
Model	S.P.M.		
	Liner Size		
No. 2	Pressure		
Model	S.P.M.		
	Liner Size		

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip

General

Stands	
Singles	
D. Collars	
Other Ft.	
C.B. Ft.	
Subs. Ft.	
Ft. Up On Kelly	
TOTAL	

REMARKS	Start	Stop	Interval
LOGGING	4:00	11:00	7
MAKE UP D.S.T. #1 & RUN TAIL PIPE	11:00	12:00	1
Side Wall Neutron Porosity			
5" scale 3900 to 4806			
Gamma Ray & Caliper			
2" scale 659' to 4806'			

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN. 31 1970

Rig# 5 Location AMERADA HESS GULF BEDKNIFE E-55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
					24	6 1/4	2 3/4	50				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				
PUMPS No. 1 Pressure				
Model S.P.M.				
Liner Size				
No. 2 Pressure				
Model S.P.M.				
Liner Size				
W.L.	F.C.	pH.		

Additives

At Surveys Degree

MOTOR HOURS 1 2 3 4 5

Next Oil Change

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1 1/8	63	6	60	3559	—		—		3591

General

Stands 44-1 403 3.35 Singles D. Collars 685.51 Other Ft. 13.36 C.B. Ft. Subs. Ft. Ft. Up On Kelly 41 TOTAL 4732.22

Time Start	Stop	Interval	REMARKS
12.00	2.00	2	HOIST TO RIG HOMCO
2.00	3.00	1	RIG UP HOMCO & PICK UP 6 D.C.S.
3.00	4.30	1 1/2	RUN IN HOLE
4.30	5.00	1/2	BREAK CIRC. & C/RC ABOVE FISH
5.00	8.00	3	JAR DOWN ON FISH

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4507					12	6 1/4	2 3/4	20		45	40	

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				
PUMPS No. 1 Pressure				
Model S.P.M.				
Liner Size				
No. 2 Pressure				
Model S.P.M.				
Liner Size				
W.L.	F.C.	pH.		

Additives

At Surveys Degree

MOTOR HOURS 1 2 3 4 5

Next Oil Change

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1 1/8	63 1/2	6	52	3609	35		105		3859

General

Stands 43 4193.59 Singles D. Collars 357.52 Other Ft. 19.00 C.B. Ft. Subs. Ft. Ft. Up On Kelly 41 TOTAL 4541.11

Time Start	Stop	Interval	REMARKS
4.00	4.15	1/4	RIG SERVICE
8.15	10.00	1 3/4	WORK OUT OF TIGHT HOLE
10.00	5.00	4	HOIST W/ PLUGGED FISH.
5.00	5.30	1	SLIP & CUT DRLG LINE
5.00	6.00	1	RUN IN PICK UP BUMPER SUB JARS

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4807				70	13	6	2 3/8	40				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				
PUMPS No. 1 Pressure				
Model S.P.M.				
Liner Size				
No. 2 Pressure				
Model S.P.M.				
Liner Size				
W.L.	F.C.	pH.		

Additives

At Surveys Degree

MOTOR HOURS 1 2 3 4 5

Next Oil Change

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1 1/8	64	6	52	3661	—		—		3859

General

Stands 48 4364.50 Singles 1 30.87 D. Collars 357.52 Other Ft. 19.00 C.B. Ft. Subs. Ft. Ft. Up On Kelly 4.00 TOTAL 4807

Time Start	Stop	Interval	REMARKS
4.00	4.15	1/4	RIG SERVICE
4.15			RUN IN HOLE PICK UP 12 SINGLES BREAK CIRC @4000 & CLEAN OUT BRIDGE + 120 ft TO BTM
	9.15	5	
9.15	11.15	2	CIRC CONDITION MUD TO LOG
11.15	12.00	3/4	DUMMY TRIP 10 STDS

Company Time Cont'r Time

Totco Ring on Bit No. D.P. Calipered Date Results Boiler in Operation Yes Toolpusher J. Mokel

B.O.P. Test-Operated Time Results Approved by

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 30 19 70

Rig# I Location AMERADA HESS GULF [redacted] BERNIFE E-55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER	Stands 46-2 424405 / Singles
4788	19	4807	2½	82 m	18	6¼	2¾	45		46"	

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
9	8¾	W07	7/22 20	19734	45	70	44	7¼			

D. Collars 521.82 / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly 0 / TOTAL 4606.87

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.2	9.2	9.2	
VISCOSITY	65	65	67	
GEL				

Additives: GEL 3400#

At Surveys Degree: 4620 ½

MOTOR HOURS 1 2 3 4 5 — Next Oil Change

PUMPS	No. 1	No. 2
Pressure	600	
Model	D-30	
S.P.M.	65	
Liner Size	6"	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1⅛	62	6		3497		2210	3591

General

W.L. 8.0 F.C. 2/32 pH. 8.0

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER	Stands 424405 / Singles
4807					18	6¼	2¾	45		45	

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
9	8¾	W07	7/22 20	19734							

D. Collars 521.82 / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly 0 / TOTAL 4506.67

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS 1 2 3 4 5 — Next Oil Change

PUMPS	No. 1	No. 2
Pressure		
Model	400	1-1
S.P.M.		
Liner Size	6	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1⅛	62						

General

W.L. F.C. pH.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER	Stands 46 4183.81 / Singles
4807					18	6¼	2¼	45			

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

D. Collars 521.82 / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly 125 / TOTAL 4695

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS 1 2 3 4 5 — Next Oil Change

PUMPS	No. 1	No. 2
Pressure		
Model		
S.P.M.		
Liner Size		

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General STUCK @ 4695. 46 stds left up on single

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SER.	12.00	12.15	¼
DRLG 8¾" HOLE	12.15	2.45	2½
CIRC PRIOR TO DUMMY TRIP	2.45	4.45	2
WORK TIGHT HOLE (STUCK)	4.45	8.00	3¼
Company Time / Cont'r Time			
WORK ~~[redacted]~~ STUCK PIPE	8.00	4.00	8
Company Time / Cont'r Time			
STUCK PIPE.	4.00		
R.U. up HOMCO TO RUN FREE POINT LOCATOR. FOUND PIPE STUCK AT 4400' 100% STUCK.			
Ran HOMCO STRING SHOT & BACKED OFF AT 4375'		11.00	7
CIRCULATED HOLE	11.00	12.00	1
Company Time / Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 26 19 70

Rig# I Location AMERADA HESS GULF ET AL RED KNIFE E-55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION		
4144	76	4220	7 3/4	80M	18	6 1/4	2 3/4	45		OIL	2590
										FUEL	42"
										WATER	

Stands 40-1 3671.84
Singles
D. Collars 521.28
Other Ft.
C.B. Ft.
Subs. Ft.
Ft. Up On Kelly 14
TOTAL 4220

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
6	7 7/8	X55R	7/22 7/20	16828	40-45	35	114	12			DRLG

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT	9.3	9.3	9.3	9.4	GEL 2000#		1	
VISCOSITY	55	43	41	46	BEN-EX 8#		2	
GEL							3	
							4	
							5	

PUMPS		12 Mn.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	650	650	650	650
Model	S.P.M.	68	68	68	68
	Liner Size		6"		
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1 1/8	59	6		3185	—		—	2245	3176

General

W.L. 7.5 F.C. 2/32 pH. 8.0

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION		
4220	76	4296	7 3/4	80	18	6 1/4	2 3/4	45		OIL	
										FUEL	36
										WATER	

Stands 3732.11
Singles 3016
D. Collars 521.82
Other Ft.
C.B. Ft.
Subs. Ft.
Ft. Up On Kelly 30.00
TOTAL 4296

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
6	7 7/8	X55R	7/22 7/20	16828	45	35	190	19 3/4			DRLG

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT	9.3	9.3	9.3	9.3	[illegible] 5#		1	
VISCOSITY	46	46	47	47	GEL - 1000		2	
GEL					BENEX - 4#		3	
					[illegible] 1/2 stream soda ash 100#		4	
					No [illegible] 3 bags [illegible] 42 [illegible]		5	

PUMPS		8 a.m.	10 a.m.	12 Noon	2 p.m.
No. 1	Pressure	650	650	650	650
Model	S.P.M.	65	65	65	65
	Liner Size	6	6"	6"	6"
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1 1/8	59	6		3185				2245	3176

General

W.L. [illegible] F.C. 2/32 pH. 8.0

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION		
4296	80	4376	7 3/4	80 m	18	6 1/4	2 3/8	45		OIL	
										FUEL	
										WATER	

Stands 3822.51
Singles
D. Collars 521.82
Other Ft.
C.B. Ft.
Subs. Ft.
Ft. Up On Kelly 10.33
TOTAL 4376

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
6	7 7/8	X55R	7/22 7/20	16828	45	35	270	27 1/2			drlg

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT	9.4	9.4	9.4	9.3	GEL - 900#		1	
VISCOSITY	55	50	55	10	CMC - 50#		2	
GEL					BENEX - 4#		3	
					1/2 STREAM WATER.		4	
							5	

PUMPS		4 p.m.	6 p.m.	8 p.m.	10 p.m.
No. 1	Pressure	700			
Model D-500	S.P.M.		65		
	Liner Size			6"	
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1 1/8	59	6		3185	—		—	2245	3176

General

W.L. 12.2 F.C. 2/32 pH. 8.0

REMARKS	Time Start	Stop	Interval
RIG SER.	12.00	12.15	1/4
DRLG 8 3/4" HOLE	12.15	8.00	7 3/4
Company Time Cont'r Time			
RIG SERVICE / BOP	8.00	8.15	1/4
DRLG	4.15	11.00	7 3/4
Company Time Cont'r Time			
RIG SERVICE	4.00	4.15	1/4
DRILL 8 3/4 hole	4.15	12.00	7 3/4
Company Time Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 27 19 70

Rig# I Location AMERADA HESS GULF ETAL RED KNIFE E-55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4376	90	4466	7 3/4	80	18	6 1/4	2 3/4	45	SLAVE PT.			

Stands 43 3912.87 Singles D. Collars 521.82 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 90 TOTAL 4466

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
6	8 3/4	X55A	3/32 20	16828	45	35	360	34 3/4			DRLG

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.3	9.3	9.3	9.3
VISCOSITY	57	43	44	48
GEL				

Additives: GEL. 1200# BEN-EX. 4# TELTEX - 200# CAUSTIC. 100#

At Surveys Degree: 4106 1°

MOTOR HOURS 1 2 3 4 5 Next Oil Change

PUMPS	No. 1	No. 2
Pressure	700	700
Model	D-360	
S.P.M.	70	70
Liner Size	6"	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	59	6		3185		2245	3176

Mud Roll.

General

W.L. 8.8 F.C. 2/32 pH. 9.0

Company Time	Cont'r Time	Start	Stop	Interval
RIG SER.		12.00	12.15	1/4
DRLG 8 3/4" HOLE		12.15	8.00	7 3/4

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL 80	WATER
4466	87	4553	7 3/4	80	18	6 1/4	2 3/4	45				

Stands 40027 Singles D. Collars 521.82 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 13 TOTAL 4553.

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
6	8 3/4	X55R	3/32 20	16828	45	35	447	45			DRLG.

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT	9.3	9.1	9.1	9.1
VISCOSITY	48	41	41	50
GEL				

Additives: GEL - 3000# HIVIS EMC - 50# SAWDUST - 30 SACKS BENEX - 6# WATER SODA ASH - 50#

At Surveys Degree MOTOR HOURS 1 2 3 4 5 Next Oil Change

PUMPS	No. 1	No. 2
Pressure	650	650
Model	D-360	
S.P.M.	65	65
Liner Size	6"	6

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	59	6		3185		2245	3176

General

W.L. 9.2 F.C. 2/32 pH. 9.0

Company Time	Cont'r Time	Start	Stop	Interval
RIG SERVICE / BOP		8.00	8.15	1/4
DRLG.		8.15	4.00	7 3/4

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4553	67	4620	6 1/2	82	18	6 1/4	2 3/4	45				

Stands 4063.39 Singles D. Collars 521.82 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 631 TOTAL 4620

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
6	8 3/4	X55R	3/32 20	16828	45	35	523	49			HOIST

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.3	9.4	9.3	9.3
VISCOSITY	54	60	53	50
GEL				

Additives: 1000# ~~GEL-150~~ PECTEX-100 E.M.C 100#

At Surveys Degree: 4620 1/2°

MOTOR HOURS 1 2 3 4 5 Next Oil Change

PUMPS	No. 1	No. 2
Pressure	700	
Model		
S.P.M.	65	
Liner Size	6"	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	59	6		3185		2245	3176

General

W.L. 9.4 F.C. 2/32 pH. 9.0

Company Time	Cont'r Time	Start	Stop	Interval
RIG SERVICE		4.00	4.15	1/4
DRILL 8 3/4 hole		4.15	10.45	6 1/2
SURVEY		10.45	11.00	1/4
HOIST (HOLE TITE)		11.00	12.00	1

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J. Melych

B.O.P. Test-Operated _____ Time _____ Results _____ Approved _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 28 19 70

Rig# 1 Location AMERADA HESS GULF ET AL RED KNIFE E-55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL 68"	WATER
4620	12	4632	1 3/4	82	18	6 1/4	2 3/4	45				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
6	8 3/4	XSSR	2-22	16928	45	35	514	49			8-3-I
7	8 3/4	ODU	10 7/32	19640	40	80	12	1 3/4			

Stands 45 409353 | Singles | D. Collars 521.82 | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Up On Kelly 24 | TOTAL 4632

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				9.2
VISCOSITY				50
GEL	TRIP			

Additives | At Surveys Degree 4620 1/2 | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS					
No. 1	Pressure				725
Model D-3	S.P.M.				70
	Liner Size		6"		
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	60	6	109	3289	35		2210	3571

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SER.	12.00	12.15	1/4
PUMP OUT & WORK TIGHT	12.15		
PIPE 4120 TO 4100		2.00	1 3/4
TRIP OUT	2.00	3.30	1 1/2
SLIP LINE	3.30	3.45	1/4
RUN IN BIT # 7	3.45	5.45	2
CLEAN 40' TO BTM	5.45	6.15	1/2
DRLG 8 3/4" HOLE	6.15	8.00	1 3/4

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL 66"	WATER
4690	1.5	4697	7 1/4		17	6 1/4	2 3/4	45				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1	8 3/4	ODU	10 7/32	19640	40	80	77	9			

Stands 46 93 53 | Singles 6.19 | D. Collars 521.82 | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Up On Kelly 19 | TOTAL 4697

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT	9.1			
VISCOSITY	60	9.1	9.1	9.1
GEL		56	46	52

Additives: GEL - 2000# DUG TOOL; HYDRO C-[illegible]; CAUSTIC SODA - 50#; FLOCAT - 100# | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS					
No. 1	Pressure	70	795	795	795
Model 5 300	S.P.M.	62	65	65	62
	Liner Size	6"	6	6	6
No. 2	Pressure				
Model 16 P	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	60	6		2059			2210	3591

General

W.L. 9.0 F.C. 2/32" pH. 9.0

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4697					18	6 1/4	2 3/4	45				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
7	8 3/4	ODU	10 7/32	19640			77	7			9-9-0
8	8 3/4	WDP.T	16 2/32	WDT 265							

Stands 46 93 53 | Singles 6.19 | D. Collars 521.82 | Other Ft. 521.82 | C.B. Ft. | Subs. Ft. | Ft. Up On Kelly | TOTAL 4697

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.1			
VISCOSITY	50			
GEL				

Additives | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS					
No. 1	Pressure	795			
Model D-300	S.P.M.	65			
	Liner Size	6			
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or Cut	Feet Left on Spool	Next Slip
1 1/8								
General		6	104	3393	—	—	2210	3591

Stands | Singles 73.55 | D. Collars 521.82 | Other Ft. 521.82 | C.B. Ft. | Subs. Ft. | Ft. Up On Kelly | TOTAL 4697

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SERVICE & BOPS.	1.00	1.15	1/4
DRLG 8 3/4 HOLE.	1.15	3.30	7 1/4
CIRC. BOTTOM HOLE SAMPLE	3.30	4.00	1/2
RIG SERVICE.	4.00	4.15	1/4
CIRC. BOTTOM HOLE SAMPLE.	4.15	4.45	1/2
WORK TIGHT HOLE.	4.45	6.15	1 1/2
HOIST.	6.15	9.00	2 3/4
RUN IN HOLE	9.00	10.45	1 3/4
REAM BRIDGE AT 4450	10.45		
+ 20' TO BOTTOM		12.00	1 1/4

Company Time Cont'r Time

Totco Ring on Bit No. D.P. Calipered Date Results Boiler in Operation Yes Toolpusher J. Melby

B.O.P. Test-Operated Time Results Approved by

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 29 1970

Rig# 1 Location AMERADA HESS GULF ET AL RED KNIFE E-55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4697	35	4732	7	82M	18	6 1/4	2 3/4	45				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
8	9 3/4	WDRJ	20 32	DT265	20-70	60-70	35	7	10	2	DRLG

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.3	9.3	9.2	9.2
VISCOSITY	48	55	60	64
GEL				

Additives: GEL 2500#; Soda Ash 400#; CMC 150#

At Surveys Degree: 4620 1/2

MOTOR HOURS: 1 2 3 4 5

Next Oil Change

PUMPS	No. 1	No. 2
Pressure	725	725
Model	9 3/4	
S.P.M.	70	70
Liner Size	6"	6"

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	61	6	104	3393	-	2210	3591

General

W.L. 7 F.C. 7/32 pH. 9.5

Stands 46 4183.81; Singles; D. Collars 521.82; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Up On Kelly 14.00; TOTAL 4732

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4732	31	4763	5 3/4	82M	18	6 1/4	2 3/4	45			54"	

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
8	9 3/4	WDRJ	20 32	DT265	40	70	66	12 3/4			HOIST

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT	9.2	9.2	9.1	
VISCOSITY	50	45	54	
GEL				

Additives: GEL - 2500; SAWDUST - 30 SACKS; WATER

At Surveys Degree

MOTOR HOURS: 1 2 3 4 5

Next Oil Change

PUMPS	No. 1	No. 2
Pressure	725	725
Model	9 3/4	
S.P.M.	70	70
Liner Size	6	6

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/8		6		3393		2210	3591

General

W.L. 6.5 F.C. 7/32 pH 9.5

Stands 4183.81; Singles 60.15; D. Collars 521.82; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Up On Kelly 13.; TOTAL 4763

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4763	25	4788	4 3/4	82M	18	6 1/4	2 1/8	45				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
9	9 3/4	WDTJ	20 32	19234	45	70	25	4 1/4			Dlg

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT			9.2	9.2
VISCOSITY			55	65
GEL				

Additives

At Surveys Degree

MOTOR HOURS: 1 2 3 4 5

Next Oil Change

PUMPS	No. 1	No. 2
Pressure		
Model	9 3/4	
S.P.M.	64	64
Liner Size	6"	6"

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	62	6	104	3497	- -	2210	3591

General

W.L. F.C. pH.

Stands 4183.81; Singles 60.24; D. Collars 521.82; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Up On Kelly 1827; TOTAL 4788

REMARKS	Time Start	Stop	Interval
RIG SER.	12.00	12.15	1/4
REAM TO BTM 10'	12.15	1.00	3/4
DRLG 9 3/4" HOLE	1.00	8.00	7
Company Time / Cont'r Time			
RIG SERVICE & BOPs	8:00	8:15	1/4
DRLG 9 3/4 HOLE.	8:15	10:30	2 1/4
WORK ON #1 PUMP.	10:30	11:00	1/2
DRLG.	11:00	2:30	3 1/2
HOIST FOR BIT	2:30	4:00	1 1/2
Company Time / Cont'r Time			
RIG SERVICE	4:00	4:15	1/4
TRIP FOR BIT	4:15	6:15	2
CLEAN 40' TO BTM	6:15	7:15	1
DRILL 9 3/4 HOLE	7:15	12:00	4 1/4
Company Time / Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J. Melych

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date Jan 23 1970

Rig# 1 Location Amerada Hess Gulf Et Al Red Knife Ess Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
3060	158	3218	7½	70m	8 10	6½ 6"	2⅞	45		

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
4	8¾	X16	3-22 1-20	17634	30	100	172	9¼			dlg

Stands 2[illegible] Singles 30.16 D. Collars 521.82 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 33.24 TOTAL 3218

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree		MOTOR HOURS	Next Oil Change
WEIGHT	9.5	9.5	9.5	9.5	GEL - 1600#	3150	½°	1	
VISCOSITY	45	41	50	50	BENEX - 6#			2	
GEL								3	
								4	
								5	

PUMPS															
No. 1	Pressure	600				Filtered Tanks									
Model 300	S.P.M.		65			Hot Treated Water									
	Liner Size			6"		Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
No. 2	Pressure					1⅛	57	6		3018	—		—	2245	3176
Model	S.P.M.					General									
	Liner Size														

W.L. [illegible] F.C. 2/32 pH.

REMARKS	Time Start	Stop	Interval
Rig Service	12:00	12:15	¼
Drill 9¾ hole	12:15	4:00	3¾
Survey	4:00	4:15	¼
Drill 9¾ hole	4:15	8:00	3¾

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
3218	200	3418	7¼	70M	18	6½	2⅞	45		

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
4	8¾	XEG	3-20	17634	30	100	372	15½			

Stands Sp-1 2956.97 Singles D. Collars 521.22 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 3 TOTAL 3418

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives	At Surveys Degree		MOTOR HOURS	Next Oil Change
WEIGHT	9.5	9.4	9.4	9.3	GEL 1800#	3241	⅛°	1	
VISCOSITY	47	40	43	40	GEN-EX 8#	3331	¼°	2	
GEL					NO-STIK - 4 gals.			3	
								4	
								5	

PUMPS															
No. 1	Pressure	650	650	650	650	Diesel 45 gals.									
Model 300	S.P.M.	72	72	72	72	CMC 50#	Soda Ash 50#								
	Liner Size		6"			Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
No. 2	Pressure					1⅛	57	6		3018	—		—		3176
Model	S.P.M.		Mud	Bell		General									
	Liner Size														

W.L. 11.0 cc. F.C. 2/32 pH 7.4

REMARKS	Time Start	Stop	Interval
Rig Service B.O.P.s O.K.	8:00	8:15	¼
Drlg 8¾ Hole	8:15	9:00	¾
Survey @ 3241 — ⅛°	9:00	9:15	¼
Drlg 8¾" Hole	9:15	12:45	3½
Survey @ 3331 - ¼°	12:45	1:00	¼
Drlg 8¾" Hole	1:00	4:00	3

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
3418	160	3578	7¼	70	18	6½	2⅞	45		

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
4	8¾	X16	3-20	17634	30	100	632	22¼			DRLG

Stands Singles 3009.57 D. Collars 521.82 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly TOTAL 3578

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree		MOTOR HOURS	Next Oil Change
WEIGHT	9.3	9.3	9.3	9.3	Gel	3421	½°	1	
VISCOSITY	44	42	42	40	Benex 1300#	3517	½	2	
GEL					No Cal - 3 sks			3	
								4	
								5	

PUMPS															
No. 1	Pressure	650	650	650	650	Water - 1[illegible]									
Model D	S.P.M.	65	65	65	65	Diesel - 119 gals									
	Liner Size	6	6	6	6	Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
No. 2	Pressure					1⅛	57	6		3018				2245	3176
Model	S.P.M.					General									
	Liner Size														

W.L. [illegible] F.C. [illegible] pH. 7.1

REMARKS	Time Start	Stop	Interval
Rig Service	4:00	4:15	¼
Survey @ 3421	4:15	4:30	¼
Drlg	4:30	8:45	4¼
Survey @ 3512	8:45	9:00	¼
Drlg	9:00	12:00	3

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher [signature]

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 24 1970

Rig# 1 Location AMERADA HESS GULF ETAL RED KNIFE ESS Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
3578	175	3753	7¼	70m	18	6¼	2⅛	45		

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
4	8¾	XIG	7/32 1-20	17634	30	100	706	30			drlg.

Stands 35 3190.33 | Singles | D. Collars 521.82 | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Up On Kelly DOWN | TOTAL 3753

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.4	9.4	9.3	9.3
VISCOSITY	40	48	46	40
GEL				

Additives: GEL-2000# BENEX - 8# NO STICK - 2 gals DIESEL - 40 GAL

At Surveys Degree	
3605	½°
3695	½

MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS	No. 1	No. 2
Pressure	1500	
Model	D-500	
S.P.M.	75	
Liner Size	6	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1⅛	57	6		3018	— —	2245	3176

General

W.L. 11.8 F.C. 7/32 pH.

REMARKS	Time Start	Stop	Interval
RIG SERVICE	12⁰⁰	12¹⁵	¼
DRILL 8¾ hole	12¹⁵	12⁴⁵	½
SURVEY @ 3600' ½°	12⁴⁵	1⁰⁰	¼
DRILL 8¾ hole	1⁰⁰	5¹⁵	4¼
SURVEY @ 3695 ½°	5¹⁵	5³⁰	¼
DRILL 8¾ hole	5³⁰	8⁰⁰	2½
Company Time Cont'r Time			

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
3753	170	3923	7¼	70m	18	6¼	2⅞	45		

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
4	8¾	XIG	7/32 1/20	17634	30/20	100	876	37¼			

Stands 37 3370.93 | Singles | D. Collars 521.82 | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Up On Kelly 10 | TOTAL 3923

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT	9.3	9.2	9.2	9.2
VISCOSITY	38	45	42	40
GEL				

Additives: GEL 3000# BENEX 12# NO-STIK 4 gals. DIESEL 45 gals. Soda Ash 50# CMC 100#

At Surveys Degree	
3793	1°
3843	½°

MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS	No. 1	No. 2
Pressure	675	675 675 675
Model	D-500	
S.P.M.	72	72 72 72
Liner Size	6	
Model	C-300	Mud Tex

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1⅛	57	6		3018	— —	2245	3176

General

W.L. 10.0 cc F.C. 2/32 pH. 8.0

REMARKS	Time Start	Stop	Interval
RIG SERVICE, MOTOR SHUT OFFS, B.OPS OK	9.00	8.15	¼
DRILL 8¾" HOLE	8.15	9.00	¾
SURVEY @ 3783 - 1°	9.00	9.15	¼
DRLG 8¾" HOLE	9.15	12.30	3¼
SURVEY @ 3843 - ½°	12.30	12.45	¼
DRLG 8¾" HOLE	12.45	4.00	3¼
Company Time Cont'r Time			

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
3923	45	3968	2½	70m	18	6¼	2⅞	45		61"

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
4	8¾	XIG	7/32 1/20	17634	30	100	914	38¾			1-1-1
5	8¾	XV	OPEN.	18946	30	90	7	1			DRLG

Stands 3370.93 | Singles 6022 | D. Collars 521.82 | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Up On Kelly | TOTAL

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.2	9.2		9.2
VISCOSITY	40	40		40
GEL				

Additives: GEL - 1000# BENEX - 4# WATER - 1 drum

At Surveys Degree	
3933	¾

MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS	No. 1	No. 2
Pressure	1475	600
Model	D-500	65
S.P.M.	65	6
Liner Size	6	
Model	1-P	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1⅛	58	6	81	3099		2245	3176

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SERVICE	11⁰⁰	11¹⁵	¼
SURVEY	11¹⁵	11³⁰	¼
DRLG	11³⁰	6⁰⁰	1½
TRIP FOR BIT	6⁰⁰	9³⁰	3½
CLEAN 120' to BOTTOM	9³⁰	11⁰⁰	1½
DRLG	11⁰⁰	12⁰⁰	1
Company Time Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J. Melnyk

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 25 19 70

Rig# 1 Location AMERADA HESS GULF ETAL RED KNIFE Job# E-55

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
3968	100	4068	7½	78m	18	6¼	2⅞	45		25760	54"	

Stands 39-2 3521.52 Singles; D. Collars 521.82; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Up On Kelly 1600; TOTAL 4068

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
5	8¾	XV	OPEN	18246	30	100	107	8¼			

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.3	9.3	9.3	9.3
VISCOSITY	40	45	44	48
GEL				

Additives: GEL 1900#; BEN-EX 8#; CMC 100#

At Surveys Degree: 4024 3/4°

MOTOR HOURS 1 2 3 4 5; Next Oil Change

PUMPS	No. 1	No. 2
Pressure	600	600
Model	D-30	
S.P.M.	72	72
Liner Size	6"	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1½	58	6		3099	— —	2245	3176

General

W.L. 9.3 F.C. 2/32 pH 8.0

REMARKS	Time Start	Stop	Interval
RIG SER.	12:00	12.15	¼
DRLG 8¾" HOLE	12.15	4.30	4¼
SURVEY @ 4024 - 3/4°	4.30	4.45	¼
DRLG 8¾ HOLE	4.45	8.00	3¼

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4068	38	4106	6	78m	18	6¼	2⅞	45			54	

Stands 3551.62 Singles; D. Collars 591.82; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Up On Kelly 8; TOTAL 4106

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
5	8¾	XV	OPEN	18246	300	100	145	14¼			

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT	9.3	9.3	9.3	
VISCOSITY	50	52	51	
GEL				

Additives: WATER ½" stream

At Surveys Degree

MOTOR HOURS 1 2 3 4 5; Next Oil Change

PUMPS	No. 1	No. 2
Pressure	600	600
Model	D-30	
S.P.M.	70	70
Liner Size	6	6

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1½		6		3099		2245	3176

General

W.L. 9.6 F.C. 2/32 pH. 8.0

REMARKS	Time Start	Stop	Interval
RIG SERVICE / BOP	8⁰⁰	8¹⁵	¼
DRLG 8¾ HOLE	8¹⁵	2¹⁵	6
SURVEY	2¹⁵	2³⁰	¼
HOIST.	2³⁰	4⁰⁰	1½

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4106	38	4144	4¼	80m	18	6¼	2⅞	45				

Stands 3551.62 Singles 10.07; D. Collars 521.82; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Up On Kelly 30.51; TOTAL 4144

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
6	8¾	XSSR	2-22	16828	40-45	35	38	4¼			Dry

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				9.4
VISCOSITY				65
GEL				

Additives: WATER ½" stream

At Surveys Degree: 4106 1°

MOTOR HOURS 1 2 3 4 5; Next Oil Change

PUMPS	No. 1	No. 2
Pressure	600	600
Model		
S.P.M.		
Liner Size	6	6

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1½	59	6	86	3185	— —	2245	3176

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SERVICE + CHECK BLOW DOWN	4⁰⁰	4¹⁵	¼
WORK ON PUMP	4¹⁵	5⁴⁵	1½
RUN IN	5⁴⁵	7¹⁵	1½
CLEAN 40' TO BTM	7¹⁵	7⁴⁵	½
DRILL 8¾ hole	7⁴⁵	12⁰⁰	4¼

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J Melnyk

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 25 19 70

Rig# I Location AMERADA HESS GULF ETAL RED KNIFE Job# E-55

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
3968	100	4068	7 1/2	78M	18	6 1/4	2 7/8	45		2576 D	54"	

Stands 37-2 3521.52 Singles D. Collars 521.82 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 16.00 TOTAL 4068

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
5	8 3/4	XV	OPEN	18246	30	100	107	8 1/4			

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.3	9.3	9.3	9.3
VISCOSITY	40	45	44	48
GEL				

Additives: GEL 1900# BEN-EX 8# CELLO 100#

At Surveys Degree: 4024 3/4°

MOTOR HOURS 1 2 3 4 5 Next Oil Change

PUMPS	No. 1	No. 2
Pressure	600	600
Model	D-30	D-30
S.P.M.	72	72
Liner Size	6 1/2	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	58	6		3099	— —	2245	3176

General

W.L. 9.3 F.C. 2/32 pH 8.0

REMARKS	Time Start	Stop	Interval
RIG SER.	12:00	12.15	1/4
DRLG 8 3/4" HOLE	12.15	4.30	4 1/4
SURVEY @ 4024 - 3/4°	4.30	4.45	1/4
DRLG 8 3/4" HOLE	4.45	8.00	3 1/4

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4068	38	4106	6	78M	18	6 1/4	2 7/8	45			54	

Stands 3551.62 Singles D. Collars 521.82 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 8 TOTAL 4106

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
5	8 3/4	XV	OPEN	18246	300	100	145	14 1/4			

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT	9.3	9.3	9.3	
VISCOSITY	50	52	51	
GEL				

Additives: WATER 1/2 stream

At Surveys Degree

MOTOR HOURS 1 2 3 4 5 Next Oil Change

PUMPS	No. 1	No. 2
Pressure	600	600
Model	D-30	D-30
S.P.M.	70	70
Liner Size	6	6

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/8		6		3099		2245	3176

General

W.L. 9.6 F.C. 2/32 pH 8.0

REMARKS	Time Start	Stop	Interval
RIG SERVICE / BOP	8.00	8.15	1/4
DRLG 8 3/4 HOLE	8.15	2.15	6
SURVEY	2.15	2.30	1/4
HOIST.	2.30	4.00	1 1/2

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
4106	38	4144	4 1/4	80M	18	6 1/4	2 7/8	45				

Stands 3551.62 Singles 60.07 D. Collars 521.82 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 30.51 TOTAL 4144

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
6	8 3/4	XSSR	2-2	16828	40-45	35	38	4 1/4			dlg

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				9.4
VISCOSITY				65
GEL				

Additives: WATER 1/2" stream

At Surveys Degree: 4106 1°

MOTOR HOURS 1 2 3 4 5 Next Oil Change

PUMPS	No. 1	No. 2
Pressure	600	600
Model		
S.P.M.		
Liner Size	6	6

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	59	6	86	3185	— —	2245	3176

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SERVICE + CHECK BLIND RAMS	4.00	4.15	1/4
WORK ON PUMP	4.15	5.45	1 1/2
RUN IN	5.45	7.15	1 1/2
CLEAN 40' TO BTM	7.15	7.45	1/2
DRILL 8 3/4 hole	7.45	12.00	4 1/4

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J. Melyl

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 19 19 70

Rig# 1 Location AMERADA HESS GULF ETAL REDKNIFE ESS Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
1480	120	1600	7½	56m	8 4	6½ 6	2⅞	42				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1	8¾	XIG	3-15	17678	30m	100	735	34		34	drlg.

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL
1298.04	30.77	358.60				202.41	1700

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.3	9.2	9.2	9.1
VISCOSITY	30	30	30	32
GEL				

Additives: GEL-2300# BENEX-10#

At Surveys Degree: 1547 1/4°

MOTOR HOURS 1 2 3 4 5

Next Oil Change

PUMPS				
No. 1	Pressure	800		
Model D-37	S.P.M.		60	
	Liner Size			6"
No. 2	Pressure			
Model	S.P.M.			
	Liner Size			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1⅛							

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SERVICE	12:00	12:15	¼
DRILL 8¾ HOLE	12:15	5:30	5¼
SURVEY	5:30	5:45	¼
DRILL 8¾ HOLE	5:45	8:00	2¼

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
1600	100	1700	5¼	57m	12	6¼	2⅞					

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1	8¾	XIG	3-15	17678	30m	100	945	34½			4-2-I
2	8¾	XIG	1-16 3-18	19727	30M	100	90	4¾			

Stands 14-1	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL
1322.59		358.60				22	1700

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT	T		9.2	9.1
VISCOSITY	R		30	30
GEL		1 P.		

Additives: GEL. 1000#. BEN-EX 2 sks.

At Surveys Degree: 1610 1/8°

MOTOR HOURS 1 2 3 4 5

Next Oil Change

PUMPS				
No. 1	Pressure		650	650
Model Ewsco D-300	S.P.M.		72	72
	Liner Size	6"		
No. 2	Pressure	HAS Roll		
Model WH C-300	S.P.M.			
	Liner Size			

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1⅛	5	6	22		35'		

General RUN WATER & DUMP & CLEAN TANKS.

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
BIG SER.	8.00	8.15	¼
DRLG	8.15	8.45	½
SURVEY @ 1610 - 1/8°	8.45	9.00	¼
HOIST BIT = I	9.00	10.00	1
SLIP LINE 35'	10.00	10.15	¼
RUN IN HOLE BIT = 2	10.15	11.15	1
DRLG 8¾ HOLE	11.15	4.00	4¾

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL 32"	WATER
1700	176	1876	7½	60m	8 4	6½ 6	2⅞ 2	42				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2	8¾	XIG	1-16 3-18	19727	30	100	176				DRLG.

Stands 147.324	Singles 3.44	D. Collars 358.60	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly 26	TOTAL 1876

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.1	9.1	9.1	9.1
VISCOSITY	30	30	30	30
GEL				

Additives: GEL - 1500# BENEX - 6# [illegible] DRILL

At Surveys Degree

MOTOR HOURS 1 2 3 4 5

Next Oil Change

PUMPS				
No. 1	Pressure	650	650	650	650
Model D30	S.P.M.	65	65	65	65
	Liner Size	6		6	
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1⅛	55	6		3176		2245	3176

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SERVICE	4:00	4:15	¼
DRLG 8¾ HOLE	4:15	11:00	7¾

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J. Mathis

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 20 19 70

Rig# 1 Location AMERADA HESS GULF ETAL RED KNIFE E 55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
1876	142	2018	7½	60m	8 4	6½ 6	2⅞	42		

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2	8¾	XIG	3-16	19727	30m	100	408 20				Dlg.

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree		MOTOR HOURS	Next Oil Change
WEIGHT	9.1	9.1			GEL -	1920	¾	1	
VISCOSITY	30		9.2		BENEX 1100#			2	
GEL			30		30 4#			3	
PUMPS No. 1 Pressure	650							4	
Model 12-P-80 S.P.M.		65						5	
Liner Size			6						
No. 2 Pressure									
Model 16 S.P.M.									
Liner Size									

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1⅛	55	6		3176	— —	2245	3676

General 2915

Stands 17 1563.53 Singles 2 60.13 D. Collars 358.60 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 5.76 TOTAL 2018

REMARKS	Time Start	Stop	Interval
RIG SERVICE	12⁰⁰	12¹⁵	¼
DRILL 8¾ hole	12¹⁵	2³⁰	2¼
SURVEY	2³⁰	2⁴⁵	¼
DRILL 8¾ hole	2⁴⁵	8⁰⁰	5¼

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
2018	155	2173	7¾	60m	12	6½	2⅞	42		

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2	8¾	XIG	3-16	19727	30M	100	863 27¾				

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives	At Surveys Degree		MOTOR HOURS	Next Oil Change
WEIGHT			9.2	9.0	GEL. 2500#			1	
VISCOSITY	33	30	32	30	5 sks.			2	
GEL	30	65			BEN-EX.			3	
PUMPS No. 1 Pressure	650	70	650	650				4	
Model S.P.M.	70		22	22				5	
Liner Size									
No. 2 Pressure		6"							
Model S.P.M.									
Liner Size									

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1⅛	55			2915		2245	3176

General Trip & Clean TANKS

Stands 17 1774.32 Singles D. Collars 5 Other Ft. 386.60 C.B. Ft. Subs. Ft. Ft. Up On Kelly 0 TOTAL 2173.92

REMARKS	Time Start	Stop	Interval
RIG SER. + B.O.P. CHECK	8.00	8.15	¼
DRLG 8¾" HOLE	8.15	4.00	7¾

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
2173		2310	7½	60	12	6½	2⅞	42		60"

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2	8¾	XIG	3-16	19727	30	100	602	7½			DRLG.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree		MOTOR HOURS	Next Oil Change
WEIGHT	9.1	9.1	9.1	9.2	GEL - 4600#	2300	¾	1	
VISCOSITY	30	31	32	34	BENEX 816#			2	
GEL					WATER - 1" Stream			3	
PUMPS No. 1 Pressure	650	650	650	650	NO STICK - 6 GALLONS			4	
Model S.P.M.	65	65	65	65				5	
Liner Size	6	6	6	6					
No. 2 Pressure									
Model S.P.M.									
Liner Size									

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1⅛	55	6		2915		2245	3176

General

Stands 21 1934.92 Singles D. Collars 354.60 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly TOTAL 2310

REMARKS	Time Start	Stop	Interval
RIG SERVICE	4⁰⁰	4¹⁵	¼
DRLG. 8¾ Hole	4¹⁵	5⁴⁵	1½
SURVEY @ 2200	5⁴⁵	6⁰⁰	¼
DRLG.	6⁰⁰	12⁰⁰	6

Company Time Cont'r Time

Totco Ring on Bit No. D.P. Calipered Date Results Boiler in Operation Yes Toolpusher J. Melleigh

B.O.P. Test-Operated Time Results Approved by

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 20 1970

Rig# 1 Location AMERADA HESS GULF ETAL RED KNIFE E 55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
1876	142	2019	7½	60m	8 4	6½ 6	2⅛	42		

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2	8¾	XIG	7-16	19727	30m	100	408	20			dirty

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT		9.1		
VISCOSITY	30	30	9.2	
GEL			30	

Additives: GEL - 9 BENEX 1100# 30 4#

At Surveys Degree: 1920 ¾°

PUMPS	No. 1	No. 2
Model	7½	16
Pressure	650	
S.P.M.	65	
Liner Size	6	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1⅛	55	6		3176	—		—	2245	3676

General: 2915

W.L. F.C. pH.

MOTOR HOURS		Next Oil Change
1		
2		
3		
4		
5		

Stands 17 1563.53; Singles 2 1013; D. Collars 358.60; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Up On Kelly 5.26; TOTAL 2018

REMARKS	Time Start	Stop	Interval
RIG SERVICE	12⁵⁰	12¹⁵	¼
DRILL 8¾ hole	12¹⁵	2³⁰	2¼
SURVEY	2³⁰	2⁴⁵	¼
DRILL 8¾ hole	2⁴⁵	8⁰⁰	5¼

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
2018	155	2173	7¾	60m	8 4	6½ 6	2⅞	42		

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2	8¾	XIG	7-16	19727	30M	100	863	27¾			

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT			9.2 9.0	
VISCOSITY	30	30	32 30	
GEL	30	65		

Additives: GEL. 2500# 5 sks. BEN-EX.

At Surveys Degree

PUMPS	No. 1	No. 2
Model	7½	16
Pressure	65	6"
S.P.M.	70	
Liner Size		

Mud Pump 65 70 65 65 / 72 72

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1⅛	55			2915				2245	3176

General: Dump & Clean Tanks

W.L. F.C. pH.

MOTOR HOURS		Next Oil Change
1		
2		
3		
4		
5		

Stands 1774.32; Singles; D. Collars 358.60; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Up On Kelly 0; TOTAL 2173.92

REMARKS	Time Start	Stop	Interval
~~RIG SER. & B.O.P. CHECK~~	~~8.00~~	~~8.15~~	~~¼~~
~~DRLG 8¾" HOLE~~	~~8.15~~	~~4.00~~	~~7¾~~

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
2173		2310	7½	60m	8 4	6½ 6	2⅞	42		60"

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2	8¾	XIG	7-16	19727	30	100	602	29			DRLG.

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.1	9.1	9.1	9.2
VISCOSITY	30	31	32	34
GEL				

Additives: GEL - 460# BENEX 416# WATER - 1" Stream NO STICK - 6 GALLONS

At Surveys Degree: 2200 ¾°

PUMPS	No. 1	No. 2
Model	7½	16
Pressure	650	
S.P.M.	65	
Liner Size	6	

650 650 650 650 / 65 65 65 65 / 6 6 6 6

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip	Feet or	Cut	Feet Left on Spool	Next Slip
1⅛	55	6		2915				2245	3176

General

W.L. F.C. pH.

MOTOR HOURS		Next Oil Change
1		
2		
3		
4		
5		

Stands 21 1934.92; Singles; D. Collars 358.60; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Up On Kelly; TOTAL 12 2312

REMARKS	Time Start	Stop	Interval
RIG SERVICE	4⁰⁰	4¹⁵	¼
DRLG. 8¾ HOLE.	4¹⁵	5⁴⁵	1½
SURVEY @ 2200	5⁴⁵	6⁰⁰	¼
DRLG.	6⁰⁰	12⁰⁰	6

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J. Melnyk

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 21 19 70

Rig# 1 Location AMERADA HESS GULF ET AL RED KNIFE ESS Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
2312	105	2417	7 3/4	60 m	8 / 4	6 1/2 / 6"	2 1/4	42				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2	8 3/4	XIG	2-16 1-16	19727	30	100	807	43			dly

Stands 22 2015.20 | Singles 1 30.15 | D. Collars 358.60 | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Up On Kelly 27.95 | TOTAL 2417

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.1	9.1	9.1	9.2
VISCOSITY	37	45	48	
GEL				

Additives: GEL - 2000#; BENEX - 8#

At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS		12 Mn.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	650			
Model D-30	S.P.M.		65		
	Liner Size			6"	
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	55	6		2915	— —	2245	3176

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SERVICE	12 00	12 15	1/4
DRILL 8 3/4 hole	12 15	8 00	7 3/4

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
2417	118	2535	4 3/4	60M	12	6 1/4	2 7/8	42				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2	8 3/4	XIG	2/16 1/16	19727	30	100	834	44			6-2-I
3	8 3/4	XIG	2/16 1/16	17684	30	100	91	3 3/4			

Stands 21 3626 | Singles | D. Collars 358.60 | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Up On Kelly 0 | TOTAL 2535.8

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT	9.2	T		9.3
VISCOSITY	45	R		48
GEL		IP.		

Additives: GEL. 1500#; BEN-EX. 6#; NO-STICK 3 gals.; DIESEL 45 gals.

At Surveys Degree: 2444 1/2°; 2535 1/2° | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS		8 a.m.	10 a.m.	12 Noon	2 p.m.
No. 1	Pressure	650			550
Model D-30	S.P.M.	72			74
	Liner Size		6"		
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	56	6	43	2958	— —	2245	3176

General: STEADY WATER STREAM; DUMP SHAKER TANK.

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SER & B.O.P.S & MOTOR SHUT OFF	8.00	8.15	1/4
DRLG 8 3/4" HOLE	8.15	9.15	1
SURVEY @ 2444 - 1/2°	9.15	9.30	1/4
ROUND TRIP BIT # 2	9.30	12.00	2 1/2
DRLG 8 3/4" HOLE	12.00	3.30	3 1/2
SURVEY @ 2535 - 1/2°	3.30	3.45	1/4
DRLG	3.45	4.00	1/4

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
2535	181	2716	7 1/4	60 m	12	6 1/2	2 1/4	42			52	Full

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
3	8 3/4	XIG	2-16	17684	30	100	272	11			DRLG.

Stands 22 86.90 | Singles 30.84 | D. Collars 358.60 | Other Ft. | C.B. Ft. | Subs. Ft. | Ft. Up On Kelly 30.70 | TOTAL 2716.50

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.3	9.3	9.2	
VISCOSITY	44	45	42	9.1
GEL				43

Additives: GEL - 1500#; BENEX - 6#; NO STIC - 3 gals.; DIESEL - 42 gals.; WATER 1" STREAM

At Surveys Degree: 2616 1/2; 2716 1/2 | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS		4 p.m.	6 p.m.	8 p.m.	10 p.m.
No. 1	Pressure	550	550	550	550
Model D-30	S.P.M.	65	65	65	65
	Liner Size	6	6	6	6
No. 2	Pressure				
Model 16P	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1 1/8	56	6		2958		2245	3176

General: Change Slow Pump Liners Size 16P

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SERVICE	11 00	11 15	1/4
DRLG 8 3/4 Hole	11 15	7 15	3.
SURVEY	7 15	7 30	1/4
DRLG	7 30	11 45	4 1/4
SURVEY	11 45	12 00	1/4

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J. Melnyk

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date Jan 22 1970

Rig# 1 Location AMERADA HESS GULF ETAL RED KNIFE K55 Job# 27

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
2716	159	2875	7½	62m	8 / 4	9½ / 6	2⅛	42		

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
3	8¾	XIG	2-22 1-20	17684	30	100	431	18½			dlg.

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	9.3	9.3	9.3	
VISCOSITY	55	55	55	55
GEL				

Additives: GEL 500# BENEX 2#

At Surveys Degree: 2806 ½°

MOTOR HOURS: 1 2 3 4 5

Next Oil Change

PUMPS					
No. 1	Pressure	550			
Model	S.P.M.		65		
	Liner Size			6"	
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1⅛	56	6	2958	2958	—	2245	3176

General

Stands 46.31 Singles 30.15 D. Collars 358.60 Other Ft. C.B. Ft. Subs. Ft. Ft. Up Kelly 42.35 TOTAL 815

REMARKS	Time Start	Stop	Interval
RIG SERVICE	12⁵⁰	12¹⁵	¼
DRILL 8¾ HOLE	12¹⁵	4¹⁵	4
SURVEY	4¹⁵	4³⁰	¼
DRILL 8¾ HOLE	4³⁰	8⁰⁰	3½

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
2875										

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
3	8¾	XIG	2-22 1-20	17684	30	100	556	25¾			

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT	9.3	9.3	9.3	9.3
VISCOSITY	42	45	50	47
GEL				

Additives: GEL 100# BEN-EX 4# NO-STIK 4 gals CMC 10# 115 gals

At Surveys Degree: 2958 ½°

MOTOR HOURS: 1 2 3 4 5

Next Oil Change

PUMPS					
No. 1	Pressure			550	550
Model	S.P.M.	550	550	74	74
	Liner Size	6½	6½		
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1⅛	56	6	2958	2958	—	2245	3176

General: Mud Roll; Run 1" water strings; Serial #245 compartments

Stands 28.7 Singles 618.4 D. Collars Other 358.60 C.B. Ft. Subs. Ft. Ft. Up On Kelly TOTAL 11.74

REMARKS	Time Start	Stop	Interval
RIG SER & BOPS CHECKED OK	8.00	8.15	¼
DRLG 8¾" HOLE	8.15	8.30	¼
SURVEY @ 2897 - 1°	8.30	8.45	¼
DRLG 8¾" HOLE	8.45	12.45	4
SURVEY @ 2958 - ½°	12.45	1.00	¼
DRLG.	1.00	4.00	3

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
3000	60	3060	3	70	12	9½	2¾	40		35

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
3	8¾	XIG	2-22 1-20	17684	30	100	603	23			
4	8¾	XIG	2-22 1-20	17634	35	100	14	3			

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT		9.3		
VISCOSITY		45		
GEL				

Additives:

At Surveys Degree: 3012

MOTOR HOURS: 1 2 3 4 5

Next Oil Change

PUMPS					
No. 1	Pressure			550	500
Model	S.P.M.			65	65
	Liner Size			6	6
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

W.L. 9.6 F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
	13	5	7	6	60	3014	2245	3176

General

Stands Singles 2467.57 D. Collars Other Ft. 2.14 C.B. Ft. Subs. Ft. Ft. Up On Kelly DOWN TOTAL 3060

REMARKS	Time Start	Stop	Interval
RIG SERVICE	4⁰⁰	4¹⁵	
DRLG. DHC. 1½ hrs	4¹⁵	6⁴⁵	2
SURVEY	6⁴⁵	7⁰⁰	
HORST	7⁰⁰	8³⁰	1
PICK UP CDC	8³⁰	9³⁰	1
RUN IN W/ BIT.	9³⁰	10⁴⁵	1
CLEAN 60' TO BOTTOM	10⁴⁵	11¹⁵	
DRLG	11¹⁵	12⁰⁰	

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J. Malyt

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN. 18 19 70

Rig# 1 Location INKABOH HESS GULF A.T.H.L. Red Knife E55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
900	170	1070	7½	50	12	6¾	2¼	42			1.10	

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1	8¾	X16	3-15	17610	30	100	415	11½			DRLG

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	8.4	9.1	9.0	9.1
VISCOSITY	30	32	34	38
GEL				

Additives: GEL 100# BICARB 300#

At Surveys Degree: 9.72 ¼

MOTOR HOURS: 1 2 3 4 5

Next Oil Change

PUMPS		12 Mn.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	900	900	900	900
Model 300	S.P.M.	60	60	60	60
	Liner Size	6"	6"	6"	6"
No. 2	Pressure				
Model 16P	S.P.M.				
	Liner Size				

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1½	34	6		2915		2295	2908

General

Stands 646.75 Singles 3058 D. Collars 358.60 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 6 TOTAL 1070

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
1070	225	1295	7½	53m	8 4	6"	2¼	42				

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1	8¾	X16	3-15	17678	30	100	630	18¼			drlg.

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT	9.2	9.1	9.0	9.1
VISCOSITY	32	32	30	31
GEL				

Additives

At Surveys Degree: 1240 ½°

MOTOR HOURS: 1 2 3 4 5

Next Oil Change

PUMPS		8 a.m.	10 a.m.	12 Noon	2 p.m.
No. 1	Pressure	900			
Model	S.P.M.	60	60	60	
	Liner Size	6"			
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

Stands 93.29 Singles D. Collars 358.60 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 25.69 TOTAL 1285

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
1295	185	1480	7¾	53M	12	6¾	2⅞					

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1	8¾	X16	3-15	17678	30	100	815	26½			DRLG

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT	9.3	9.3	9.3	9.3
VISCOSITY	33	33	32	30
GEL				

Additives: GEL 5 sks. DEN-EX 2500#

At Surveys Degree

MOTOR HOURS: 1 2 3 4 5

Next Oil Change

PUMPS		4 p.m.	6 p.m.	8 p.m.	10 p.m.
No. 1	Pressure	900	900	900	900
Model D-300	S.P.M.	60	60	60	60
	Liner Size	6"			
No. 2	Pressure				
Model E-900 J.S.	S.P.M.	Mud Roll			
	Liner Size				

W.L. F.C. pH.

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip
1¾	54	6		2915		2245	2908

General: STEADY 1" WATER STREAM. Dump + CLEAN TANKS

Stands 1106.05 Singles D. Collars 358.60 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 25 TOTAL 1480

REMARKS	Time Start	Stop	Interval
RIG SERVICE	12:00	12:15	¼
DRLG.	12:15	2:45	2½
SURVEY	2:45	3:00	¼
DRLG.	3:00	8:00	5
Company Time / Cont'r Time			
RIG SERVICE + BOP CHECK	8:00	8:15	¼
DRILL 8¾ hole	8:15	2:45	6½
SURVEY @ 1240 ½°	2:45	3:00	¼
DRILL 8¾ hole	3:00	4:00	1
Company Time / Cont'r Time			
RIG SER.	4:00	4.15	¼
DRLG 8¾" HOLE	4.15	12:00	7¾
Company Time / Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J. Melnyk

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN. 17 19 70

Rig# 1 Location AMERADA HESS GULF ET-AL Red KNIFE 55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
					12	6 1/4	2 7/8	49.		

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS					
No. 1	Pressure				
Model	S.P.M.				
	Liner Size				
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL
186 11		35860					

REMARKS	Time Start	Stop	Interval
WORK ON BOP ~~[illegible]~~	1900		
~~[illegible]~~ LEAKING BETWEEN-			
SHAFFER AND SPACER FLANGE.			
AND BETWEEN CASING BOWL			
AND SPACER FLANG		730	7½
HOIST.	730	800	½

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS					
No. 1	Pressure				
Model	S.P.M.				
	Liner Size				
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL

REMARKS	Time Start	Stop	Interval
TAKE B.O.P. APART AND	800		
INSTALL NEW FLANGE RINGS			
~~Replace up Blind Rams~~			
~~100# hand O.K.~~			
RUN IN HOLE		400	8

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
660	240	900	3¾	44M	12	6 1/4	2 7/8			

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1	8¾	XTG	3-15	17678	20M	120	240	3¾			DRLG

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				8.4
VISCOSITY				30
GEL				

Additives: GEL 3000# 6 sks. BEN-EX. | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS					
No. 1	Pressure				1000
Model D-30	S.P.M.				60
	Liner Size				6"
No. 2	Pressure	Mud Roll			
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL
423.16		35860				22	900

REMARKS	Time Start	Stop	Interval
RIG SER.	4.00	4.15	¼
PRESSURE TEST HYDRIL &	4.15		
PIPE RAMS TO 1200 P.S.I. O.K		5.00	¾
DRILL CEMENT & SHOE	500	8.00	3
PRESSURE FORMATION TO 300 P.S.I. OK	8.00	8.15	¼
DRLG 8¾" HOLE	8.15	12:00	3¾

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation _____ Toolpusher _____

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 16 1970

Rig# 1 Location AMERADA. HESS GULF ET AL RED KNOLL E55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER	Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL
665					8															

BITS

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD

	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				
GEL				

Additives | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS

No. 1	Pressure				
Model	S.P.M.				
	Liner Size				
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER	Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL
665				44 M																

BITS

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD

	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS

No. 1	Pressure				
Model	S.P.M.				
	Liner Size				
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER	Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL
665				44 M	12	6 1/4	2 7/8								358.60					

BITS

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1	8 3/4	HTC	3-15	17678							

MUD

	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives | At Surveys Degree | MOTOR HOURS 1 2 3 4 5 | Next Oil Change

PUMPS

No. 1	Pressure				
Model	S.P.M.				
	Liner Size				
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
W.O.C	1700	100	1
Nipple up BOPs	100	800	7
Company Time / Cont'r Time			
W.O.C. Nipple up B.O.P.	800		
Work on pump. Drill Mousehole		400	8
Company Time / Cont'r Time			
DRILL MOUSEHOLE	4.00	6.00	2
RUN IN & PICK UP 4 DRILL COLLAR	6.00	8.00	2
PADDING UP & WORK ON PUMP	8.00	12:00	4
Company Time / Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J. Melzl

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 15 1970

Rig# 1 Location INLKADA HESS-GULF-ETAL RED KNIFE E55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
					1							

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							4	
							5	

PUMPS: No. 1 Pressure / Model S.P.M. / Liner Size; No. 2 Pressure / Model S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands 368.85; Singles; D. Collars 575.72; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Up On Kelly; TOTAL

REMARKS	Time Start	Stop	Interval
Drilling plug.	12:00	1:00	1
W.O.C.	1:00	8:00	7

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
663												

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							4	
							5	

PUMPS: No. 1 Pressure / Model S.P.M. / Liner Size; No. 2 Pressure / Model S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands; Singles; D. Collars; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Up On Kelly; TOTAL

REMARKS	Time Start	Stop	Interval
W.O.C.	8:00	4:00	8
THAWING OUT MUD TANKS AND CLEAN SAME			

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change
WEIGHT							1	
VISCOSITY							2	
GEL							3	
							4	
							5	

PUMPS: No. 1 Pressure / Model S.P.M. / Liner Size; No. 2 Pressure / Model S.P.M. / Liner Size

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands; Singles; D. Collars; Other Ft.; C.B. Ft.; Subs. Ft.; Ft. Up On Kelly; TOTAL

REMARKS	Time Start	Stop	Interval
W.O.C.	4.00	8.00	4
HEAD UP	8.00	12.00	4

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J. Mehyl

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN 14 1970

Rig# 1 Location AMERADA HESS. GULF ETAL. RED KNIFE L.25 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
560	94	654	3½		8	6½	2 7/8				14'	

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2A	13¾	OSC3		19308	20	120	214	6¾			

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL
368.85		275.72				30.	654.

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY	40	40	60	60
GEL				

Additives: 4500# GEL

At Surveys Degree

MOTOR HOURS	Next Oil Change
1	
2	
3	
4	
5	

PUMPS					
No. 1	Pressure		600	600	600
Model	S.P.M.		65		65
	Liner Size		7½		7½
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SERVICE	12.00	12.15	¼
CLEAN TO BOTTOM	12.15	3.30	3¼
DRIG.	3.30	5.00	1½
WORK ON JET NO 1 AND NO 2	5.00		
PUMP.		6.00	1
DRIG.	6.00	8.00	2
Company Time	Cont'r Time		

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER
654	11	665	3¼	42	8	6½	2 7/8					

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2A	13¾	OSC3	Cond	19308	20	120	1 225	7½			

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL
368.85		275.72					

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY	70	80		
GEL				

Additives: GEL - 5000#

At Surveys Degree: 600 ¾°

MOTOR HOURS	Next Oil Change
1	
2	
3	
4	
5	

PUMPS					
No. 1	Pressure	600	600		
Model	S.P.M.	65	65		
	Liner Size	7½	7½		
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General: 9 5/8" Casing Cemented at 666' KB

Ran in 13¾ hole 20 jts of 40 lbs LTC Casing w/ Guide Shoe on bottom & Float collar 1 jt. off Bottom. Used 3 centralizers on bottom 1 centralizer 1 jt below ground level.

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SERVICE	8.00	8.15	¼
DRILL 13¾ hole	8.15	9.00	¾
CIRC HOLE	9.00	9.45	¾
SURVEY	9.45	10.00	¼
TRIP	10.00	11.30	1½
CIRC CONDITION MUD	11.30	12.30	1
HOIST + LAY DOWN 8" Collars	12.30	2.30	2
RIG TO RUN 9⅝ CSG	2.30	4.00	1½
Company Time	Cont'r Time		

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL	FUEL	WATER

Cemented by Howco using 550 sacks of cement w/ 2% Calcium on last 250 sacks. Good returns to surface. Pumped plug down with water. Bumped plug 700. Bled off & float held OK. Cement in Place at 1:00 AM Jan 15/1970

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION

Stands	Singles	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree

MOTOR HOURS	Next Oil Change
1	
3	
4	
5	

PUMPS					
No. 1	Pressure				
Model	S.P.M.				
	Liner Size				
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SER	4.00	4.15	¼
RUN CASING	4.15	10.00	5¾
CIRC. CASING	10.00	11.00	1
MIX + RUN CEMENT	11.00	12.00	1
Company Time	Cont'r Time		

Totco Ring on Bit No. D.P. Calipered Date Results Boiler in Operation Yes Toolpusher J. Melych

B.O.P. Test-Operated Time Results Approved by

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN. 13 1970

Rig# 1 Location AMERADA HESS GULF ET AL RED KAUKE F.55 Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
437.	123.	560	11	113	8	6½	2⅞			

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1A	13¾	OSC3		8351.	10-20.	120	440	18½			3 1
2A	13¾	OSC3		19308	20	190	120	3½			DRLG

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT	91			5
VISCOSITY	40			50
GEL				

Additives: SOLINE

At Surveys Degree: 500 ½

PUMPS		12 Mn.	2 a.m.	4 a.m.	6 a.m.
No. 1	Pressure	400			500
Model 12	S.P.M.	65			65
	Liner Size	7½			7½
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

MOTOR HOURS: 1 2 3 4 5 — Next Oil Change

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands 244.19 Singles D. Collars 275.72 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 41 TOTAL 560.91

REMARKS	Time Start	Stop	Interval
RIG SERVICE	12 50	12 15	¼
DRLG 13¾ HOLE	12 15	1 00	¾
TRIP FOR BIT	1 00	3 00	2
CLEAN 100' to BOTTOM	3 00	4 30	1½
DRLG.	4 30	6 00	1½
SURVEY @ 500	6 00	6 15	¼
DRLG.	6 15	8 00	1¾
			0
Company Time / Cont'r Time			

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
560					1 / 8	6½	2⅞			

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2A	13¾	OSC3	CONV.	19308	20	120	120	3½			Good

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: GEL - 5000#; SAWDUST - 70 sks

At Surveys Degree: MOTOR HOURS 1 2 3 4 5 — Next Oil Change

PUMPS					
No. 1	Pressure				
Model	S.P.M.				
	Liner Size				
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands 244.19 Singles D. Collars 275.72 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly DOWN TOTAL 560.91

REMARKS	Time Start	Stop	Interval
RIG SERVICE	8 00	8 15	¼
CIRC	8 15	8 30	¼
TRIP OUT - MEASURE	8 30		
RUN IN REAM OUT TITE SPOTS + MIX MUD TO BRING UP V.S.			
TO PLUG UP AROUND CASING PIPE		4 00	7½
Company Time / Cont'r Time			

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER
560	—	—			1 / 8	6½	2⅞			

BITS No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
2A	13¾	OSC-3	CONV.	19308							

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives: GEL 5000#; SAWDUST 45 sks.

At Surveys Degree: MOTOR HOURS 1 2 3 4 5 — Next Oil Change

PUMPS					
No. 1	Pressure				
Model	S.P.M.				
	Liner Size				
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

Stands 244.19 Singles D. Collars 275.72 Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly 0 TOTAL 560.91

REMARKS	Time Start	Stop	Interval
RIG SER.	4 00	4:15	¼
CLEAN TO BTM + REAM TIGHT SPOTS	4:15	12.00	7¾
Company Time / Cont'r Time			

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation _____ Toolpusher J. McLeod

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

CAN-TEX DRILLING & EXPLORATION LTD.

DAILY DRILLING REPORT

Date JAN. 12 1970

Rig# 1 Location UMER-IDH HESS GULF. ST-HL KIN KNIFE F55' Job#

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL 25510 / FUEL / WATER	Stands / Singles / D. Collars 3700 / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL 40
0	80	80	3.	20.	1	9	3	20			

BITS

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1	13¾	OSC3.			10	90	80				

MUD	12 Mn.	2 a.m.	4 a.m.	6 a.m.
WEIGHT				
VISCOSITY				110.
GEL				

Additives: 1000 # CEL. 50 CAUSTIC.

At Surveys Degree	

MOTOR HOURS	
1	
2	
3	
4	
5	

Next Oil Change

PUMPS

		6 a.m.
No. 1	Pressure	300
Model	S.P.M.	65
	Liner Size	7
No. 2	Pressure	
Model	S.P.M.	
	Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG UP.	12:00	4:00	4
MIX MUD	4:00	5:00	1
DRIG 13¾ HOLE	5:00	8:00	3

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL / FUEL / WATER	Stands / Singles / D. Collars 188.14 / Other Ft. / C.B. Ft. / Subs. Ft. 1.60 / Ft. Up On Kelly Dim / TOTAL 231
80	149	229	7¼	32m	5	6½	2¾	20			

BITS

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1	13¾	OSC3	Con	8851	10-20	120	229	10¼			Drlg

MUD	8 a.m.	10 a.m.	12 Noon	2 p.m.
WEIGHT				
VISCOSITY				
GEL				

Additives

At Surveys Degree	
100	10
200	½

MOTOR HOURS	
1	
2	
3	
4	
5	

Next Oil Change

PUMPS

No. 1	Pressure	
Model	S.P.M.	
	Liner Size	
No. 2	Pressure	
Model	S.P.M.	
	Liner Size	

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SERVICE	8:00	8:15	¼
DRILL 13¾ hole	8:15	11:15	3
SURVEY	11:15	11:30	¼
DRILL 13¾ hole	11:30	2:15	2¾
SURVEY	2:15	2:30	¼
DRILL 13¾ hole	2:30	4:00	1½

Company Time Cont'r Time

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS No.	O.D.	I.D.	Wgt.	FORMATION	OIL 25610 / FUEL 1- / WATER 7-	Stands 91 78 / Singles 29.70 / D. Collars 275.72 / Other Ft. / C.B. Ft. / Subs. Ft. / Ft. Up On Kelly / TOTAL 437.60
229	208	437	7¼	43M	1/8	6¾					

BITS

No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
1A	13¾	OSC-3	—	8851	10-20	120	437	17¾			DRLG

MUD	4 p.m.	6 p.m.	8 p.m.	10 p.m.
WEIGHT			9.1	9.1
VISCOSITY			40.	40.
GEL				

Additives: LIME - 200#

At Surveys Degree	
290	¾
408	½

MOTOR HOURS	
1	
2	
3	
4	
5	

Next Oil Change

PUMPS

		4 p.m.	6 p.m.	8 p.m.	10 p.m.
No. 1	Pressure	450	450	450	450
Model D-300	S.P.M.	68	68	68	68
	Liner Size	7"			
No. 2	Pressure				
Model	S.P.M.				
	Liner Size				

Size	TRIPS	No. Lines	TON MILES	TOTAL MILES	Slip Feet or Cut	Feet Left on Spool	Next Slip

General

W.L. F.C. pH.

REMARKS	Time Start	Stop	Interval
RIG SER.	4.00	4.15	¼
DRLG 13¾ HOLE	4.15	6.15	2
SURVEY @ 290' - ¾°	6.15	6.30	¼
DRLG 13¾ HOLE	6.30	10.30	4
SURVEY @ 408 - ½°	10.30	10.45	¼
DRLG 13¾ HOLE	10.45	12:00	1¼

Company Time Cont'r Time

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ Boiler in Operation Yes Toolpusher J. Melzl

B.O.P. Test-Operated _____ Time _____ Results _____ Approved by _____

CONSERVATION BOARD COPY

Feb 5, 1970

Ainltess Gulf Redknife E-55

T.D. 4807 Rig Released

Located plug No2 3970 9:00 AM 2-4-70

ABANDON PLUG No 3 610-710

Hung 4½" drillpipe at 710'. Howco squeezed 65 sacks cement treated with 2% $CaCl_2$. Cement in place 11:30 AM. 2-4-70

Located plug No3 580' 8:00 PM 2-4-70

Cut surface casing off 3' below ground level. Dumped 5 sacks cement in 9⅝" casing. Welded steel plate on top. Welded 2" pipe to steel plate to extend 4' above ground level and added steel plate with well name and location

RIG RELEASED 11:00 PM Feb 4, 1970

BRKD

1:00 hr Running locate Plug No2

2:00 hrs Pull up to run Plug No3

:50 hr Run plug No3

8:00 hrs W.O.C #3

:50 hr Locate plug No3

3.00 hrs hard down Drillpipe & BOP equipment

9:00 hrs Tear out

CANADA DEPARTMENT OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
FEB 6 1970
CALGARY 21, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

Feb 4, 1970

Am Hess Gulf Rabbit E-55

T.D. 4807 W.O.C Plug #2

Abandon Plug No 1 4807-4400

Hung 4½" dp @ 4807. Howco equalized 165 sacks cement. Inplace 11:30 P.M 2-3-70

Abandon Plug No 2 4400-4000

Hung 4½" dp @ 4400 Howco equalized 165 sacks cement inplace @ 1:00 AM 2-4-70

BRKD

9.00 Wait on orders
1.00 Load out test tools
2.00 Laid down drill collars
2.00 Run in to plug - picked up 12 singles
1.00 Run Plug #1
.50 Pulled up for Plug #2
1.00 Run plug #2
7.00 W O C

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
FEB 5 1970
Northwest Terr

Feb. 3, 1970

Am. Hess Gulf Redknife E-55

T.D. 4807 Laying down test tool

DST NO2 4040 - 4150 Straddle test

Ran in 8 3/4" hole M.O.T. Test tool on dry 4 1/2" drillpipe w/ dual packers at 4040 & 4150, Jars, S.J. PD. Sub. 3 recorders and 1/2" bean

Preflow 5' ISI 60' VO 30' FSI 60'

BLOW: Good air blow throughout test.

REC: 200' drilling mud. No evidence of gas or oil

CHARTS I.H.P. 1971# F.H.P. 1935#

IF 72# F.F. 90#

ISI 1525# FSI 1310# Temp. 146°

Chart below bottom packer shows packers held ok

BRKD

1.00 Laid down D.S.T NO 1 tool

7.00 Laid down 9" D.C's and ran in with bit to condition hole for DST NO2

4.00 Circulated

12.00 Trip & run DST NO2

DEPT. OF INDIAN AFFAIRS & NORTHERN DEV.
OIL & MINERAL DIVISION
FEB 5 1970
CALGARY, ALTA.
OIL CONSERVATION EPS
Northwest Territories & Yukon

February 1, 1970

Amerada Hess Gulf Redknife E-55
TD 4807 Status Schlumberger Logging

Worked fish through tight spot at 4,630' and pulled out wet string. Unable to break circulation--bit plugged. Recovered 11 drill collars and bit. Ran in with 8 3/4" bit and cleaned bridges to bottom from 4,680' to 4,807'. Circulated and conditioned mud. Made a ten stand dummy trip. Circulated and pulled out to log. Schlumberger ran dual induction log to bottom and checked bottom at 4,807'. Logging tool would not work. Pulled out for repairs.

Breakdown

.75	R.S. & B.O.P.
1.75	Worked fish loose.
4.00	Pulled out fish.
1.00	Slip and cut drill line.
6.00	Run in w/bit bumper sub and jars. Clean out 120' to bottom.
4.25	Circulate hole for logging.
.75	Dummy trip.
2.25	Pulled out to log.
3.25	Schlumberger logging.

INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
FEB 5 1970
CALGARY 21, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

Jan 31/1970

Amerada Hess Gulf Red Knife E-55

Depth 4807 Status Working stuck pipe. free going down, trying to get past 4630.

WP. 9.2 Visc 67 W.L. 8.0 PH. 8.0 F.C. 2/32

Bit No 9 8 3/4" H.W WP-7 44' 7 1/4 flow

Worked stuck pipe & waited on fishing equipment. Bait at 4695. Ran Homco free point indicator on Schlumberger line & found drill collars stuck at 4400' - 100% Ran Homco string shot & backed off ~~[illegible]~~ drill coll at 4375' Pulled out & recovered 4 1/2" drill pipe 7 drill collars. Left in hole 11 drill collars & 8 3/4" Bit. Ran in with Homco bumper sub & jars. Ran 13 drill collars & 4 1/2" drill pipe. Circulated above fish. Screwed into fish. Bumped fish loose going down. Unable to bring fish up past 4340'. Free going down. Tried to break circulation, unable to do so. Trying to move fish up past tight place. Running few feet at a time.

Breakdown

8.00 Working stuck pipe & waiting on tools

7.00 Ran free point indicator & back off shot.

1.50 Circulated

3.50 Trip for bumper sub & jars.

1.00 Picked up 6 drill collars

3.00 Working fish loose

DEPT. OF NORTHERN DEVELOPMENT
MINERAL DIVISION
FEB 6 1970
CALGARY 21, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

AMERADA PETROLEUM CORPORATION

Daily Drilling Report

Well REDKNIFE E-55 Date 1-30-70

Depth 4807 Footage 75 Hours 13 Status Stuck in hole

Mud 9.2 Vis 67 WL 8.0 PH 8.0 FC 2/32 Sand

Bit No. 8 Make HW Size 8 3/4 Type WDRJ Drilled 66 Hours 12 3/4 Comp X Inc

Bit No. 9 Make HW Size 8 3/4 Type WDTJ Drilled 44 Hours 7 1/4 Comp X Inc

Bit No. Make Size Type Drilled Hours Comp Inc

Survey Off Lost Time

BREAKDOWN:

3/4 Hrs. R.S. BOP
1/2 Hrs. WORK ON PUMP
3 1/2 Hrs. TRIP TIME
1 Hrs. Clean 40' to bottom
2 Hrs. Circ to log
3 1/4 Hrs. Stuck pipe at 4697
13 Hrs. Drilling
Hrs.

REMARKS: (Coring-casing-testing-cement-plug, etc.)

Made dummy to clean hole. Pulled out to log and stuck pipe at 4697 no circulation working pipe waiting on fishing equipment

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
FEB 2 1970
CALGARY 21, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

AMERADA PETROLEUM CORPORATION

Daily Drilling Report

Well E-55 Date 1-29-70

Depth 4732 Footage 100 Hours 14 1/4 Status Drilling

Mud 9.2 Vis 64 WL 7 PH 9.5 FC 2/32 Sand

Bit No. 7 Make HW Size 8 3/4 Type DDV Drilled 77 Hours 9 Comp X Inc

Bit No. 8 Make HW Size 8 3/4 Type WDR Drilled 35 Hours 7 Comp Inc X

Bit No. Make Size Type Drilled Hours Comp Inc

Survey Off Lost Time

BREAKDOWN:

3/4 Hrs. RS BOP

14 1/4 Hrs. Drilling

1 Hrs. Circulate Sample

1 1/2 Hrs. TIGHT HOLE 4588

4 1/2 Hrs. TRIP TIME

2 Hrs. REAM 10' UNDERGAUGE HOLE

Hrs.

Hrs.

REMARKS: (Coring-casing-testing-cement-plug, etc.)

Bit #7 all bearings gone and out of gauge

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT OIL & MINERAL DIVISION
FEB 2 1970
CALGARY 21, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL BRANCH
JAN 29 1970
CALGARY
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon

AMERADA PETROLEUM CORPORATION

Daily Drilling Report

Well Red Knife

Date Jan 28

Depth 4632 Footage 166 Hours 16 Status ⌀

Mud 9.3 Vis 50 WL 9.2 PH 9 FC 2/32 Sand

Bit No. 6 Make H.L. Size 5 3/4 Type X SSC Drilled 514 Hours 49 Comp Inc

Bit No. 7 Make Size Type O.V. Drilled 12 Hours 1 3/4 Comp Inc

Bit No. Make Size Type Drilled Hours Comp Inc

Survey 4620 Off 1/2

Lost Time

BREAKDOWN:

3/4 Hrs. RS + BOP

16 Hrs. drlg

1/4 Hrs. Survey

1 1/4 Hrs. trip

1/2 Hrs. Clean 40' to bottom

1/4 Hrs. slip & line

Hrs.

Hrs.

REMARKS: (Coring-casing-testing-cement-plug, etc.)

Pump out singles from 4500 - 4100

TD should be around 4732

Sch should be on loc this PM,

AMERADA PETROLEUM CORPORATION

Daily Drilling Report

Well PEDKNIFE E-55 Date 1-27-70

Depth 4466 Footage 246 Hours 23 1/4 Status Drilling

Mud 9.3 Vis 45 WL 8.8 PH 9.5 FC 2/32 Sand

Bit No. 6 Make HW Size 8 3/4 Type XSSR Drilled 360 Hours 35 3/4 Comp Inc X

Bit No. Make Size Type Drilled Hours Comp Inc

Bit No. Make Size Type Drilled Hours Comp Inc

Survey Off Lost Time

BREAKDOWN:

3/4 Hrs. RS BOP

23 1/4 Hrs. DRILLING

Hrs.

Hrs.

Hrs.

Hrs.

Hrs.

Hrs.

REMARKS: (Coring-casing-testing-cement-plug, etc.)

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
JAN 28 1970
CALGARY 21, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

AMERADA PETROLEUM CORPORATION

Daily Drilling Report

Well E-55 Date 1-26-70

Depth 4220 Footage 152 Hours 18 Status Dr

Mud 9.3 Vis 48 WL 9 PH 8 FC 2/32 Sand

Bit No. 5 Make Hw Size 8 3/4 Type XV Drilled 145 Hours 14 1/4 Comp X Inc

Bit No. 6 Make Hw Size 8 3/4 Type XSSR Drilled 114 Hours 12 Comp Inc X

Bit No. Make Size Type Drilled Hours Comp Inc

Survey 4106 Off 1 Lost Time

BREAKDOWN:

3/4 Hrs. RSBOP

1 1/2 Hrs. Work on pump

3 Hrs. TRIP

1/2 Hrs. Clean 40' to bottom

1/4 Hrs. Survey

18 Hrs. Drilling

Hrs.

Hrs.

REMARKS: (Coring-casing-testing-cement-plug, etc.)

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
JAN 27 1970
CALGARY 21, ALBERTA
PETROLEUM ENGINEER
Northwest Territories & Yukon Territory

AMERADA PETROLEUM CORPORATION

Daily Drilling Report

Well E-55 Date 1-25-70

Depth 4068 Footage 315 Hours 17 1/4 Status Dr

Mud 9.3 Vis 48 WL 9.2 PH 8 FC 2/32 Sand

Bit No. 4 Make HW Size 8 3/4 Type X1G Drilled 914 Hours 38 3/4 Comp X Inc

Bit No. 5 Make HW Size 8 3/4 Type XV Drilled 107 Hours 8 1/2 Comp Inc X

Bit No. Make Size Type Drilled Hours Comp Inc

Survey 3783 Off 1 Lost Time

3840 -1/2 3933 -1/8 4024 -3/4

BREAKDOWN:

3/4 Hrs. R S BOP

1 Hrs. Surveying

3 1/2 Hrs. Trip

1 1/2 Hrs. Clean 120' to bottom

17 1/2 Hrs. Drilling

Hrs.

Hrs.

Hrs.

REMARKS: (Coring-casing-testing-cement-plug, etc.)

4070 Blue Pt

4068 3[illegible]8 Blue Point

AMERADA PETROLEUM CORPORATION

Daily Drilling Report

Date 1-24-70

Well E-55

Depth 3753 Footage 535 Hours 21 3/4 Status Drilling

Mud 9.3 Vis 40 WL 11.8 PH FC Sand

Bit No. 4 Make HW Size 8 3/4 Type A16 Drilled 807 Hours 30 Comp Inc 2

Bit No. Make Size Type Drilled Hours Comp Inc

Bit No. Make Size Type Drilled Hours Comp Inc

Survey Off Lost Time

BREAKDOWN:

21 3/4 Hrs. Drilling

3/4 Hrs. R S BOP

1 1/2 Hrs. Surveys

Hrs.

Hrs.

Hrs.

Hrs.

Hrs.

REMARKS: (Coring-casing-testing-cement-plug, etc.)

3241 - 1/8

3331 - 1/4

3421 - 1/2

3512 - 1/2

3605 - 1/2

3691 - 1/2

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
JAN 27 1970
CALGARY 21, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

Amerada Division
Amerada Hess Corporation

Calgary, Alberta
CANADA

DAILY DRILLING REPORT

January 23, 1970

NORTHWEST TERRITORIES

Trainor Lake - Wildcat

AmHess Gulf Redknife E-55

January 22, 1970
2875' 458' 19.50 Drilling
Mud 9.3 Vis 55
Surveys: 2444' off 1/8 degree; 2535' off 1/8 degree;
2626' off 1/2 degree; 2716' off 1/2 degree;
2806' off 1/2 degree
Breakdown: 19 1/2 hrs Drilling
2 1/2 hrs Tripping
1 1/4 hrs Surveys
3/4 hr Rig Service and check BOP

January 23, 1970
3218' 343' 17.75 Drilling
Mud 9.5 Vis 45 WL 8.3 pH 8.5 FC 2/32
Surveys: 2897' off 1 degree; 2950' off ½ degree;
3150' off 1/2 degree
Breakdown: 3/4 hr Rig Service and check BOP
17 3/4 hrs Drilling
1 hr Pick up six drill collars
1 hr Surveys
3 hrs Trip for bit
1/2 hr Clean 60' to bottom

NOTE: WELL NOW TIGHT HOLE

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
JAN 26 1970
CALGARY 21, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

Amerada Division
Amerada Hess Corporation

Calgary, Alberta
CANADA

DAILY DRILLING REPORT

January 21, 1970

NORTHWEST TERRITORIES

Trainor Lake - Wildcat

AmHess Gulf Redknife E-55

January 20, 1970
2018' 418' 20.50 Drilling
Mud 9.2 Vis 30
Surveys: 1610' off 1/8 degree; 1920' off 1/8 degree
Breakdown: 20 1/2 hrs Drilling
3/4 hr Rig Service and check BOP
1/2 hr Surveys
1/4 hr Slip and cut drilling line
2 hrs Tripping

January 21, 1970
2417' 399' 23.00 Drilling
Mud 9.2 Vis 45
Survey: 2200' off 1/8 degree
Breakdown: 23 hrs Drilling
3/4 hr Rig Service and check BOP
1/4 hr Survey

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
JAN 22 1970
CALGARY 21, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

Amerada Division
Amerada Hess Corporation

Calgary, Alberta
CANADA

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT
OIL & MINERAL DIVISION
JAN 20 1970
CALGARY 21, ALBERTA
Oil Conservation Engineer
Northwest Territories & Yukon Territory

DAILY DRILLING REPORT

January 19, 1970

NORTHWEST TERRITORIES

Trainor Lake - Wildcat

AmHess Gulf Redknife E-55

Well Particulars: Located in Unit E; Sec 55,
Grid 60 degs 40 mins N;
119 degs 30 mins W
Lat: 60 degs 34 mins 23 secs
Long: 119 degs 41 mins 5.5 secs

Elevation: Ground 1241'
Surveyor: No Legal Survey Required
Contractor: Can-Tex Rig No.1
Drilling License: Authority #395
AmHess Working Interest: 100%

January 2, to 11, 1970
Moving rig from Fina location and rigging up

January 12, 1970

80'	80'	3.00	Drilling

SPUDDED IN AT 5:00 AM - JANUARY 12, 1970

ELEVATION:	Ground	1241'
	KB to ground	14'
		1255'
	Fill	3'
	KB ELEVATION	1258'

Breakdown:	20	hrs	Rigging up
	1	hr	Mix mud
	3	hrs	Drilling

January 13, 1970

560'	480'	18.50	Drilling

Mud 9.1 Vis 50
Surveys: 100' off 1 degree; 200' off ½ degree;
290' off 1/8 degree; 408' off ½ degree;
500' off ½ degree

Breakdown:	3/4	hr	Rig Service
	1 1/4	hrs	Surveys
	3 1/2	hrs	Trip for bit and clean to bottom
	18 1/2	hrs	Drilling

January 14, 1970

654'	94'	3.50	Drilling

Breakdown:	3/4	hr	Rig Service
	1/4	hr	Circulate
	18 1/2	hrs	Clean to bottom, mix mud and try to plug off around conductor pipe
	3 1/2	hrs	Drilling
	1	hr	Work on pump

over/

Daily Drilling Report - continued

AmHess Gulf Redknife E-55

January 15, 1970
665' 11' .75 W.O.C
Survey: 600' off 3/4 degree
9-5/8" CASING CEMENTED AT 660'
Ran in 13-3/4" hole with 20 jts of 9-5/8" OD 40.5# K-55 LT&C casing. Used three centralizers on bottom three joints and one centralizer one joint below ground level. Used one guide shoe and one float collar. Howco cemented with 550 sax cement with 2% CaCl2 on last 250 sax. Pumped plug down with Howco, bumped plug and bled off casing. Float held OK. Good returns. Plug down at 1:00 AM - January 15, 1970.

Breakdown:		
	1/2 hr	Rig Service
	3/4 hr	Drilling
	1/4 hr	Survey
	1 1/2 hrs	Trip
	1 hr	Circulate and condition mud
	2 hrs	Lay down 9" drill collars
	1 1/2 hrs	Rig up to run casing
	5 3/4 hrs	Run casing
	1 3/4 hrs	Circulate casing
	2 hrs	Mix and pump down cement
	7 hrs	W.O.C

January 16, 1970
665' Ø Ø W.O.C
Breakdown: 24 hrs W.O.C. Thawing out mud tanks, Backed off landing joint, screwed on Cameron casing bowl, install B.O.P's and headed up

January 17, 1970
665' Ø Ø Pulling out
Three flanges in B.O.P leaked. Removed B.O.P and installed new rings

Breakdown:		
	14 hrs	Head up
	2 hrs	Pick up four drill collars
	7 1/2 hrs	Pressure test B.O.P
	1/2 hr	Pull out

January 18, 1970
1070' 410' 11.25 Drilling
Mud 9.1 Vis 38
Survey: 922' off 7/8 degree

Breakdown:		
	7 1/2 hrs	Remove B.O.P Install new rings and test C.S.O to 1000#
	1 hr	Rig Service
	3/4 hr	Test DP Rams to 1200# - OK
	3 hrs	Drill plug and shoe
	1/4 hr	Test cement job to 300#
	11 1/4 hrs	Drilling
	1/4 hr	Survey

January 19, 1970
1600' 530' 22.75 Drilling
Mud 9.1 Vis 32
Surveys: 1240' off ½ degree; 1547' off 1/4 degree

Breakdown:		
	3/4 hr	Rig Service and check BOP
	22 3/4 hrs	Drilling
	1/2 hr	Surveys

JAN 20 1970
CALGARY 21, ALBERTA

WELL PROGRESS REPORT — FIELD

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POST 7 DAYS REPORTS FOR EACH WELL ON ONE SHEET, AND MAIL TO PRODUCTION DEPARTMENT, CALGARY, PROMPTLY. MAKE REPORTS COMPLETE, SUCH AS DESCRIPTION OF CASING . . . SHOW, AS SOON AS KNOWN, NAME OF CONTRACTOR, TYPE OF RIG, AND KIND OF FUEL . . . IN GUIDE MARGIN SHOW CASING (AS, 7"), "CONTRACTOR," "SHOT," "ACIDIZED," ETC.

GUIDE MARGIN	DATE	YEAR 1970 A.F.E. 19041 LEASE Gulf et al Red Knife WELL No. H-28 NWT
CO-ORDINATES		Lat. 61°27'15.67" North, Long. 119°03'51.15" West
	Jan. 22	Depth 236, Ftg. 236, Shale and Sandstone, 12¼" hole, Drilling Tri-City Rig #4 from Edmonton Area
SPUDDED		Days from Spud: 1 Spudded at 7:15 P.M., January 21, 1970
		Visc. 42, 95 - ¼°, 208 - ¼°. RPM 180, Bit Wt. 12,000, String Wt. 24,000. Drilling String: 7 - 6¼ X 2 7/8" drill collars (X-hole). Pump No. k, SPM 75, 5½ X 12, 100 psi. Bit Serial No 87293. Bit No. 1A, S4JR, 12¼", In 0, Ftg. 236, 10 hours - drilling. Time Breakdown: Drilling 10 hours, Surveys ½ hour, Rig Service ½ hour, rathole 4½ hours, rig up 6½ hours. Mud Additives: Gel 1000#, Lime 50#, Caustic 50#.
		Temp. -10° Overcast Reported by Hannegan
	Jan. 23	Depth 570, Ftg. 334, Simpson Sh., 12¼" hole Repairing hand throttle on draw-works.
		Days from Spud: 2 Cost to Date: $45,494 Drilled form 236 to 291'. Ran low on water. Waited 6 hours for water truck. Trip out. Trip good. Drilled to 570'. Dummy tripped. Straped out okay. Tripped in. Hit fill at 380' to bottom. Balled bit up and had to trip out. Ran in with new bit. Had 20' fill on bottom. Cleaned out to bottom and broke hand throttle.
		Mud Wt. 9.1, 43, 320 - ½°, 414 - ¼°, 538 - 7/8°. RPM 180, Bit Wt. 15,000, String Wt. 34,000. Drilling String: 10 - 6¼ X 2 7/8" X H drill collar. Pump No. 1, SPM 75, 5½ X 12, 200 psi. Bit Serial No's 87293 Retip #2 904417 New. Bit No. 1A, S4, 12¼", 0 - 570, Ftg. 570, 20¼ hours - 6-6-1. Bit No. 2A, S4, 12¼", In 570. Time Breakdown: Drilling 10½ hours, Trip 2½ hours, Surveys ½ hour, Rig Service ½ hour. Waiting on water 6 hours, mix mud ½ hour, clean to bottom 3¼ hours, waiting on hand throttle ¼ hour.
		Temp. 0° Overcast Reported by Hannegan

RECEIVED AT Edmonton Office

JAN 27 1970

DEPT. OF INDIAN AFFAIRS & NORTHERN DEVELOPMENT OIL & MINERAL DIVISION
FEB 3 1970
CALGARY 21, ALBERTA
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

ROUTE TICKET

PLEASE RETAIN ON FILE ☐ PLEASE DESTROY ☐

		NAME	DEPT	DATE	INITIALS
PREPARE REPLY FOR MY SIGNATURE					
REPLY DIRECT AND SEND ME COPY					
TAKE CHARGE OF THIS					
RETURN WITH YOUR RECOMMENDATION					
SEE ME ABOUT THIS					
FOR YOUR INFORMATION & FILES	✓	MR. KAIT TRAMES			
NOTE & RETURN		OIL CONSERVATION ENGINEER			
FOR YOUR SIGNATURE		DEPT OF INDIAN AFFAIRS			
FOR YOUR APPROVAL		NORTHERN DEVELOPMENT			
		2300 22 STREET NW			

REMARKS : CARGILL 48 ALTA

FROM : _____ DATE _____

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