SHELL KAKISA RIVER No. 2

Drilling Authority No.
Date Issued

WELL NAME Shell Kazim River No. 2
FIELD Wildcat **Area:** Trout Lake
LOCATION: Unit A **Section** 77 **Grid** [illegible] - 15
Latitude 60°06'12.49"N. **Longitude** 118°28'18.46" W.
From Established Reference Marker

Rig Release Date: 27-2-59
Status D & A
Information Release Date 27-2-61

CHANGE OF NAME:

DATE RECEIVED	INDEX
	Application for a Drilling Authority.
	Well Completion Data.
	Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
	Well History Supplement.
	Well Completion Data.
	Work-over Report No.
	Application to Commingle Production before Measurement.
	Approval to Commingle Production before Measurement.
	Application to Amend Approval No to Commingle Production before Measurement.
	Application for M.P.R.—Oil.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Field Abandonment Programme and Approval.
	Well Card.
	Well Visit.
	Daily Drilling Reports.

NANR 32-90(1-61)

#51.

CANADA

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION AND LANDS BRANCH

~~For Superintendent~~ ATD
Mr Christie

(ABANDONMENT)
(~~COMPLETION~~) REPORT
(~~[illegible]~~)
(Stroke out operations which do not apply)

To be submitted in triplicate in accordance with Section 70 of the Territorial Oil and Gas Regulations to the Conservation Engineer at Edmonton, Alberta.

Permit No. 584

Name of well Shell Kakisa River No. 2 ✓ Lease No.

Registered owner Shell Oil Company of Canada Drilling Company Regent Drilling

Location: (Survey description)

60°06'12.09" N. Lat. 118°28'18.46" W. Long.

Elevation: Ground 2175 Kelly bushing 2188 Depth 5695

Spudded January 26, 1959 Finished drilling Feb. 22 Rig released Feb. 27/59

Deviations from vertical 1-1/2° @ 2121', 2° @ 2391' and 2741', 1-1/4° @ 3828', 1-1/8° @ 4798'

CASING

	Date	Size O.D.	Weight lbs/foot	Grade	Set at feet	Sacks cement
1.	Jan. 29/59	8-5/8"	28	H-40	706.0	300
2.						
3.						

TUBING

none

Status of well on completion of drilling Dry and abandoned

Producing zone none

Cored intervals none

Interval logged: E-log 706-5676 M-log 706-5676

R-log 150-5674 Other velocity and vegelmeter surveys

DRILLSTEM TESTS

Test No.	Date	Interval tested	Duration	Results
1	Feb. 25/59	5275-5380	30 min.	Rec. 3455' of slightly muddy and gas cut salt water.

(Over)

Test No.	Date	Interval tested	Duration	Results

Perforations: (Gun.....)
(Dot.....)

Shootings:

Hydraulically fracturing:

Chemical treatment:

Date Initial Production tests:

Initial production data

Pumping or flowing

Plug back: to surface

Other: well plugged and abandoned

CEMENT PLUGS SET

Date	Plug set at	Sacks cement	Method	Top found at
Feb. 25/59	5250-5350	41	Displacement	5300'
Feb. 26/59	5225-5300	20	"	not felt
Feb. 26/59	656-756	75	"	550'

Well samples have been sent to: Shell Oil Company of Canada Ltd.

Cores will be stored at: cut will be forwarded

Electric log is appended: Yes .... No x

Radioactivity log is appended: Yes ..... No x

Micrometer log is appended: Yes .... No x

Geologic record or strip log (is / will be) submitted Yes .... No x

Results of tests for porosity, permeability, and saturation of each stratum containing oil, gas or water (are / will be) submitted Yes . x 68 (5) No and (6)

With respect to abandonment we have complied with Section 68(3) and (4) of the Regulations. (Initial here)

ADDITIONAL DETAILS AND COMMENTS Cut off casing 3' below G.L. Put 5 sacks cement plug in top of casing and 5 sacks each in rat-hole and mouse-hole. Welded plate on casing with marker post 4' above G.L.

Signed E. R. [illegible] Division Production Manager Address P. O. Box 186, Edmonton, Alberta

C A N A D A

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION AND LANDS BRANCH

NOTICE OF INTENTION TO (ABANDON) A WELL

(Stroke-out operations which do not apply).

To be submitted in triplicate to the Conservation Engineer at Edmonton, Alberta.

In accordance with Sections 60, 61, Or 62 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to

abandon the well named Shell Kakisa River No. 2 on Oil and Gas (Permit No. ....) (Lease No. ....) registered in the name of Shell Oil Company

Total Depth 5675 feet. Elevation above sea level: Ground surface 2175.0 ft. Kelly bushing ..... ft.

Location (if not accurately stated in Notice of Intention to Begin Drilling Operations):

..... (N of S boundary) (S of N boundary) of (Permit No.....) (Lease No.....) at actual 60°06'12.4" Lat.

..... (W of E boundary) (E of W boundary) of (Permit No.....) (Lease No.....) at actual 118°28'18.46" W Long.

Survey description .....

CASING RECORD

Size O.D. inches	Weight lbs/ft.	Amount feet	Set at feet	Sacks cement	Method	To be Withdrawn
1. 8-5/8"	28	691.46	706.0	500	Displacement	no
2.						
3.						

OIL, GAS and WATER

Encountered		Cement plugs to be set		
Oil from .....feet to	.....feet.	From .....feet to	.....feet with	.....sacks
Gas from ..... feet to	.....feet.	From .....feet to	.....feet with	.....sacks.

(Over)

Water from 5275..feet to 5390...feet.   From 5225..feet to 5390..feet with 61...sacks.

Bottom plug from 5225..feet to 5390..feet with ...61...sacks

Surface plug from ..656..feet to 756...feet with...75...sacks.

Surface casing cut 3' below G.L., 5 sacks in top casing, 5 sacks in rathole, 5 sacks in mousehole.

Date of last operations Feb. 27/59 . . . . Total depth 5675 . . . .

Nature of liquid in well . . mud . . . . Level from surface at surface . . .

Present condition of well in addition to above: Plugged back to surface . . . .

An electric log (will be) (~~will not be~~) run. (strike out what is non-applicable)

On abandonment we shall comply with Section 60 (3) and (4) of the Regulations with respect to filling excavations and marking the well site E.R.S. . . . (Please Initial)

Program of operation not included above . . . .

Responsible agents of permittee or lessee in charge of operation:

At well J.N. Stewart . . . .   At registered office: E.R. Shorey, Jr. . . . . . .

Postal Address P.O. Box 186, Edmonton, Alberta   Postal Address P.O. Box 186, Edmonton, Alberta . . . .

It is understood that if changes in this Notice of Intention become necessary we will promptly notify you.

Dated at Edmonton . . this 10th . . day of . . . March . . . . . . 19 59 . .

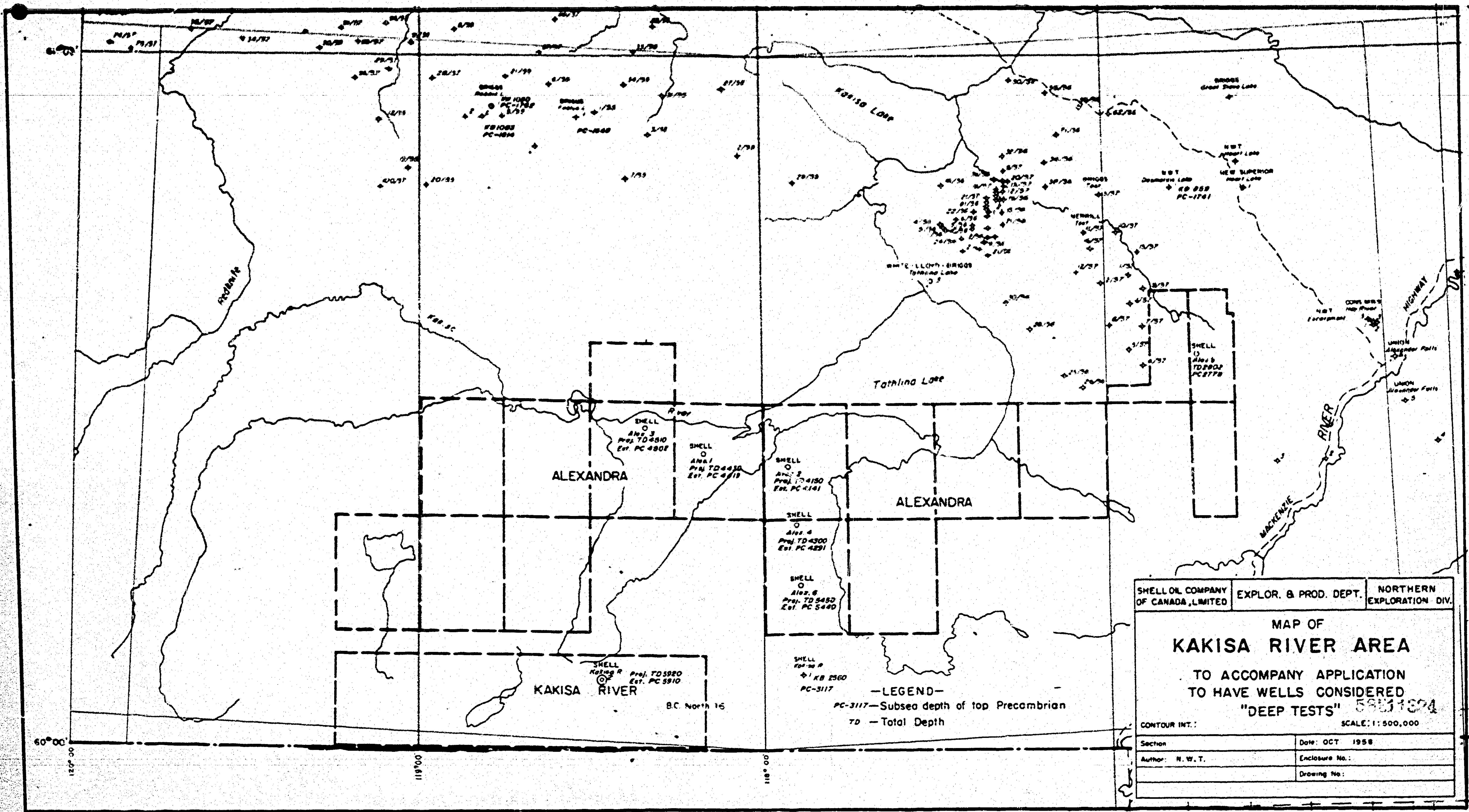
Signed by E R Shorey Jr

E. R. Shorey, Jr.
Manager
Edmonton Division Production

This program is approved subject to the following provisions:

. . Confirming oral approval. . . . .

13th March 1959 . . . . B.K. Thomas
Date   Conservation Engineer



SHELL OIL COMPANY OF CANADA, LIMITED
EXPLOR. & PROD. DEPT.
NORTHERN EXPLORATION DIV.
MAP OF
KAKISA RIVER AREA
TO ACCOMPANY APPLICATION
TO HAVE WELLS CONSIDERED
"DEEP TESTS"
CONTOUR INT.:
SCALE: 1:500,000
Section
Date: OCT 1958
Author: N. W. T.
Enclosure No.:
Drawing No.:
—LEGEND—
PC-3117—Subsea depth of top Precambrian
TD —Total Depth
ALEXANDRA
ALEXANDRA
KAKISA RIVER
Tathlina Lake
Kakisa Lake
MACKENZIE RIVER
HIGHWAY
B.C. North 16
60°00'
120°00'
119°00'
118°00'
SHELL Alex. 3 Proj. TD 4810 Est. PC 4802
SHELL Alex. 1
SHELL Alex. 2 Proj. TD 4150 Est. PC 4141
SHELL Alex. 4 Proj. TD 4300 Est. PC 4291
SHELL Alex. 6 Proj. TD 5450 Est. PC 5440
SHELL Kakisa R Proj. TD 5920 Est. PC 5910
KB 2560
PC-3117
SHELL Alex. 5 TD 2802 PC 2778
UNION Alexander Falls

CANADA

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION AND LANDS BRANCH

NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS

(To be submitted in triplicate to the Conservation Engineer at Edmonton, Alberta at least 15 days prior to the commencement of drilling).

In accordance with Section 58 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to begin drilling a well on Oil ~~and Gas~~ Permit No. 58 ...registered in the name of
Lease No. . . . . .

Shell Oil Company of Canada, Limited

TYPE OF WELL:
Stratigraphic test: Yes. . . . Wildcat: . . . . . .
Structure Test: . . . . . Development: . . . . . .
Anticipated number of holes . . . . . (Required for Structure Test Only)
Expected total depth: . . 5920 . . . . feet.

The well will be located:

.....(N of S boundary) of (Permit No.....) at approx. 60°06'17" N Lat.
(S of N boundary) (Lease No. ....)
.....(W of E boundary) of (Permit No.....) at approx. 118°28'30" W Long.
(E of W boundary) (Lease No.....)

Survey description of location Survey plans will be submitted as soon as possible - delay due to access difficulties. . . . . .

Approximate surface elevation of 2,200 . . . feet above sea level.

Name of well: , Shell Kakisa River No. 2 . . . . . .

Type of drilling rig: Rotary. . . . . .

Expected date of commencement: December 15, 1958. . . . . .

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

Size O.D. inches	Weight lbs/feet	Grade	Brand	New or used	Estimated depth	Sacks of cement
1. 8-5/8	24	J-55	Domestic	New	700'	400 + 2% $CaCl_2$
2.						
3.						

Expected depth of water, gas and oil horizons and method of control:
Objectives below 4,700'. Control will be by drilling mud and blow out preventers. . . . . .

(Over)

An electric log {will / will not} be run.

The well will be drilled by: Contractor to be selected . . . . (name of company)

CONTRACTOR:

Responsible agents of permittee or lessee in charge of operation:

At well D. G. Stagman. . . . . At registered office: R. I. Rankin . . . .

Postal address: P. O. Box 186 . . . . Postal address: P. O. Box 100, Calgary, . .
Edmonton, Alberta Alberta

It is understood that if changes in this Notice of Intention become necessary we will promptly notify you.

Dated at . Edmonton, Alberta this . 19th . . . . day of . November . . . . . 1958.

Please mail approved form to P. O. Box 186, Edmonton, Alberta.

Signed by . . R. I. Rankin
R. I. Rankin

This program is approved subject to the following provisions (if any):

. . . . . Please forward name of contractor when known. . . . . .

. . . . . .

. . . . . .

. . . . . .

. . November 26, 1958. . . . . B. H. Shows . . . . . .
Date Conservation Engineer

C.P.—38 **DAILY DRILLING REPORT** REPORT NO. 41 DATE FEB. 27/59

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60°6'17" N.Lat. 119°28'30" W.Long.	SHELL KAKISA RIVER	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
REGENT DRLG. Co.	26	2 4½	5 3/4 OD TYPE THD FH.	[illegible]	[illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D-200	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8 5/8	28# H-40	0	706			500SX.	+ 2% CaCl2 in the last 200SX.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER W. A. HOWG.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			5675 TD									
		2870 - Surface.										

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

12:00 - 8:00 Finished laying down drill pipe, Kelly, rat-hole and mouse-hole. Tore out B.O.P.s. Cut off casing 3' below G.L. Put 5-SX cement each in casing, rat-hole and mouse-hole. Welded plate w/ marker post on casing. RIG RELEASED @ 8:00 A.M. FEBRUARY 27, 1959. WELL D&A. LAST REPORT.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Cement	15 SX.		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT	MFG / TYPE	
	RMR BODY OD	FT	NOZ. NO.	
	STB BODY OD	FT	NOZ. SIZE	
	SUBS OD	FT	SER. NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT	COND OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8:00 - 4:00 Rigging down.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT	SIZE	
	D.C ID / OD	FT	MFG / TYPE	
	RMR BODY OD	FT	NOZ. NO	
	STB BODY OD	FT	NOZ. SIZE	
	SUBS OD	FT	SER NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN

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

REMARKS

4:00 - 12:00 Rigging down and moving out.

MUD RECORD

TIME			
WEIGHT			
VISC.			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 40 DATE FEB. 26/59.

OPERATOR: Shell Oil Company of Canada, Limited

LOCATION: LSD. 60°6'17" N. LAT. SEC. 118° 28'30" W. LONG. TWP. RGE. W. WELL NAME: SHELL KAKISA RIVER No. 2. PROVINCE: N.W.T.

CONTRACTOR: REGENT DRLG. RIG No. 26. DRILL PIPE STRING NO. 2 SIZE 4½. TOOL JOINT 6" OD. TYPE THD F.H.

OPERATOR'S REPRESENTATIVE: [signature]

CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO.	D-300.	14"
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	8⅝	28# H.40	0	706.			500.	2% C/C IN LAST 200 SKS.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING		1½	
TRIPS		2¾	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	8.3¾		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8.8		

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG. / TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER: W. A. Young.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			5675	T.D.								
		PBTD.	5300.									

DEVIATION RECORD: DEPTH / DEV / DIRECTION / DEPTH / DEV / DIRECTION / DEPTH / DEV / DIRECTION

REMARKS

12⁰⁰ 7⁰⁰ Circ. W.O.C.

7⁰⁰ 8⁰⁰ Run in to feel plug #1. Found plug @ 5300', Rigged up & Ran Plug #1A 5300-5225 w/ 20 sks cement w/ 2% CaCl₂ Down @ 11.45 AM. Left 40 lbs SAPP. Run SAPP to Lower Disc. Cement. Cut Mud.

MUD RECORD			
TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
SAPP.			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
	STANDS DP	FT.	RUN NO		
	SNGLS. DP	FT.	SIZE		
	D.C ID / OD	FT	MFG / TYPE		
	RMR BODY OD	FT	NOZ. NO.		
	STB BODY OD	FT	SIZE		
	SUBS OD	FT	SER. NO		
	BIT OR C.B	FT	DEPTH OUT		
		FT	CUMULATIVE HOURS RUN		
	KELLY DOWN	FT	COND OF BIT	8⁰⁰	10⁰⁰
	TOTAL	FT	REAMER CUTTER NO.	10⁰⁰	11⁰⁰
	WT OF STRING	LBS.	TYPE	11⁰⁰	11⁴⁵
				11⁴⁵	2⁰⁰
				2⁰⁰	2³⁰

DRILLER: McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			5675	T.D.								
		PBTD	656'									

DEVIATION RECORD: DEPTH / DEV / DIRECTION / DEPTH / DEV / DIRECTION / DEPTH / DEV / DIRECTION

REMARKS

Ran Plug #2 - 756 - 656 w/ 75 sks cement w/ 2% CaCl₂. Plug down at 3.10 P.M. [signature].

2³⁰-3⁰⁰ Circ.
3⁰⁰-3³⁰ Run Plug #2
3³⁰-4⁰⁰ Lay Down 6 stds D.P.

MUD RECORD			
TIME			
WEIGHT			
VISC.			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
Cement	95 sx.		
CaCl₂	2 sx.		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
	STANDS DP	FT.	RUN NO		
	SNGLS. DP	FT	SIZE		
	D.C ID / OD	FT	MFG / TYPE		
	RMR BODY OD	FT	NOZ. NO		
	STB BODY OD	FT	SIZE		
	SUBS OD	FT	SER NO	8⁰⁰	8³⁰
	BIT OR C.B	FT	DEPTH OUT	9³⁰	11⁰⁰
		FT	CUMULATIVE HOURS RUN	11⁰⁰	11¹⁵
	KELLY DOWN	FT.	COND. OF BIT	11¹⁵	12⁰⁰
	TOTAL	FT	REAMER CUTTER NO.		
	WT OF STRING	LBS.	TYPE		

DRILLER: [signature]

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M	METHOD PUMPS RUN
			5675	T.D.								
		PBTD	550'									

DEVIATION RECORD: DEPTH / DEV / DIRECTION / DEPTH / DEV / DIRECTION / DEPTH / DEV / DIRECTION

REMARKS

8⁰⁰ 8³⁰ Lay down pipe
8³⁰-11⁰⁰ W.O.C.
11⁰⁰-11¹⁵ Felt plug
11¹⁵-12⁰⁰ Lay down D pipe

Felt Plug #2 @ 550' w/ approx. 400 lb. weight after W.O.C 8 hrs. [signature]

MUD RECORD			
TIME			
WEIGHT			
VISC.			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 39 DATE FEB. 25/59.

OPERATOR	Shell Oil Company of Canada, Limited
LOCATION	60° 6' 17" N LAT. 118° 28' 30" W. LONG
WELL NAME	SHELL KAKISA RIVER
No.	2.
PROVINCE	N.W.T.
CONTRACTOR	REGENT DRLG.
RIG No.	26
DRILL PIPE STRING NO. SIZE	2 4½
TOOL JOINT	6" OD
TYPE THD	F.H.
OPERATOR'S REPRESENTATIVE	[signature]
CONTRACTOR'S TOOL PUSHER	[signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco.	D-300	14"
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8 5/8	28# J-40	0	706			500 SKS.	W 2% C/c IN LAST 200 SKS.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING	1¾		
TRIPS	3½		
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	2¾		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8.		

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS.	
OPERATOR'S TIME	
HRS. W/D.P.	
HRS. WO/D.P.	
HRS. STANDBY	

WIRE LINE RECORD

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

MORNING TOUR

Drilling assembly / bit record: (blank)

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)
			5675 T.D.	

DEVIATION RECORD: DEPTH 5621, DEV ½°.

REMARKS

12⁰⁰ 1²⁰ RUN IN.
1³⁰ 1⁴⁵ BREAK CIRC.
1⁴⁵ 2¹⁵ CIRC. CLEAN HOLE PRIOR TO D.S.T.
2¹⁵ 5³⁰ HOIST.
5³⁰ 7⁰⁰ MAKE UP CSG. TESTER & TEST CSG. TO 200 psi.
7⁰⁰ 8⁰⁰ RUN IN D.C.s & MAKE UP PACKER.

TOTAL DEPTH. 5675

DRILLER: W.A. Howg [signature]

DAY TOUR

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)
			5675 T.D.	

MUD RECORD

TIME	11:00
WEIGHT	10.2
VISC	152
W.L.-C.C.	9.8
FLTR. CK	2/32
PH	6.8
SD. CONT	

REMARKS

8⁰⁰ 8³⁰ MAKE UP PACKER
8³⁰ 10⁴⁵ RUN IN SLOW W/ PACKER
10⁴⁵ 12³⁰ TESTING. Ran D.S.T. No. 1. (5275-5380) - 25' Muskeg and 80' Mud.
12³⁰ 3³⁰ PULL OUT (TIGHT HOLE)
3³⁰ 4⁰⁰ BREAK DOWN PUMP OUT SUBS. & TESTING TOOL.

DRILLER: Jm McBride [signature]

EVENING TOUR

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)
			5675 T.D.	
		PBTD	5250	

REMARKS

4⁰⁰ 7³⁰ Lay down packer & D.C.s
7³⁰ 9³⁰ Run in open end & pick up 6 singles
9³⁰ 11¹⁵ Circ & wait for ~~[illegible]~~ condition
11¹⁵ 12⁰⁰ Cement & pump down plug # 1 using 41 sks Can Port Cement w/2% CaCl2 5250 - 5350
plug down @ 11.45 P.M. [illegible]

MUD & CHEMICALS ADDED

TYPE	AMT.
Cement	41 sx.
CaCl2	1 sx

DRILLER: [signature]

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 38 DATE FEB. 24/59

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6' 17" N. LAT. 118° 28' 30" W. LONG.	SHELL KAKISA RIVER	2.	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD
REGENT DRLG.	26	2	4½	6" OD	F.H.

OPERATOR'S REPRESENTATIVE: [illegible]

CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO.	D-300	14".
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO
8⅝	28# H-40	0	706.		

CEMENT USED: 500 SKS. @ 2% C/C in last 200 SKS.

OTHER:

TIME DISTRIBUTION—HOURS	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING	8	8	
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.:

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C ID		MFG.	
	D.C OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: W. A. Howe

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			5675	T.D.								

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

12⁰⁰ - 8⁰⁰ LOGGING.

TOTAL DEPTH 5675'

MUD RECORD				
TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK.				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG	
	D.C. OD	FT.	TYPE	
	RMR BODY OD	FT	NOZ NO.	
	STB BODY OD	FT	NOZ SIZE	
	SUBS OD	FT	SER. NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT	COND. OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: J. McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			5675 T.D. (Driller)									
			5677 T.D. (Schlum.)									

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8⁰⁰ - 4⁰⁰ LOGGING By SCHLUMBERGER

Ran Schlumberger Logs:

Electric Log - 706 - 5676'.

Microlog - Caliper - 706 - 5676'.

Gamma Ray - Neutron - 150 - 5674'

MUD RECORD				
TIME				
WEIGHT				
VISC				
W.L.-C.C.				
FLTR. CK				
PH				
SD. CONT				

MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT	SIZE	
	D.C ID		MFG	
	D.C OD	FT	TYPE	
	RMR BODY OD	FT	NOZ NO	
	STB BODY OD	FT	NOZ SIZE	
	SUBS OD	FT	SER NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: D. H. Lumsdy

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
			5675	T.D.								

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4⁰⁰ - 11³⁰ logging velocity survey

11³⁰ - 12⁰⁰ log down logging unit

Ran S.S.C. velocity survey using Schlumberger truck

MUD RECORD				
TIME				
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK				
PH				
SD. CONT.				

MUD & CHEMICALS ADDED	TYPE	AMT.	TYPE	AMT

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 37 DATE FEB 23/59.

OPERATOR: Shell Oil Company of Canada, Limited

LOCATION LSD. SEC. TWP RGE. W: 60°4'17"N LAT. 113°22'30"W. LONG.

WELL NAME: SHELL KAKWA RIVER No. 2

PROVINCE: N.W.T.

CONTRACTOR: REFENT DRLG. RIG No. 26

DRILL PIPE STRING NO. 2 SIZE 4½ TOOL JOINT 5 3/4 OD TYPE THD FH

OPERATOR'S REPRESENTATIVE: [signature]

CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-300	14"
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO
13 3/8	29# H40	0	706		

CEMENT USED: 500 SKS Class "A" c/c

OTHER: 1st 200 SKS.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING		3/4	
TRIPS	1/2	3/4	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG		1/2	
CORING			
WIRE LINE LOGGING		1/2	
OTHER	1/2	1/4	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. W/O/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO.	26
	SNGLS. DP		FT.	SIZE	7 7/8
	D.C	ID		MFG.	H.T.
		OD	FT.	TYPE	W7
	RMR BODY	OD	FT	NOZ. NO.	3
	STB BODY	OD	FT.	NOZ. SIZE	11/16
	SUBS	OD	FT.	SER. NO.	6369.
	BIT OR C.B.		FT.	DEPTH OUT	5675
			FT.	CUMULATIVE HOURS RUN	103 1/4
	KELLY DOWN		FT.	COND. OF BIT	Still Loose
	TOTAL		FT.	REAMER CUTTER NO.	
WT OF STRING			LBS.	TYPE	

DRILLER: [signature]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			3675	T.D.								

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

REMARKS

12:00 1:30 FINISH OUT.
1:30 8:00 WAIT ON ORDERS. WAITING FOR SCHLUMBERGER LOGGING TRUCK TO ARRIVE FROM SHELL ALEXANDRA #4
TOTAL DEPTH. 5675'.

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO	
	SNGLS. DP		FT.	SIZE	
	D.C	ID		MFG	
		OD	FT	TYPE	
	RMR BODY	OD	FT	NOZ NO.	
	STB BODY	OD	FT	NOZ SIZE	
	SUBS	OD	FT	SER. NO	
	BIT OR C.B		FT	DEPTH OUT	
			FT	CUMULATIVE HOURS RUN	
	KELLY DOWN		FT	COND. OF BIT	
	TOTAL		FT	REAMER CUTTER NO.	
WT OF STRING			LBS.	TYPE	

DRILLER: [signature]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			5675	T.D.								

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

REMARKS

8:00 1:00 WAIT ON ORDERS. WAITING FOR LOGGING TRUCK FROM ALEXANDRA #4
& DIESEL FUEL

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK	
PH	
SD. CONT	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO	
	SNGLS. DP		FT	SIZE	
	D.C	ID		MFG	
		OD	FT	TYPE	
	RMR BODY	OD	FT	NOZ NO	
	STB BODY	OD	FT	NOZ SIZE	
	SUBS	OD	FT	SER NO	
	BIT OR C.B		FT	DEPTH OUT	
			FT	CUMULATIVE HOURS RUN	
	KELLY DOWN		FT.	COND. OF bIT	
	TOTAL		FT	REAMER CUTTER NO.	
WT OF STRING			LBS.	TYPE	

DRILLER: [signature]

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
			5675'	T.D								

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

REMARKS

4:00 - 4:15 rig service
4:15 - 4:30 Plan Trip
4:30 - 5:00 repair air line
5:00 - 6:15 finish trip
6:15 - 9:00 Circ & cond mud & clean hole
9:00 - 11:30 Pull out
11:30 - 12:00 rig to log

S.L.M. 5675.0 = 5674.1'
No correction.

MUD RECORD

TIME	8:00
WEIGHT	9.8
VISC.	115
W.L.-C.C.	4.4
FLTR. CK	2/32
PH	7.0
SD. CONT.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

C.P.-38

DAILY DRILLING REPORT

REPORT NO. 36 DATE FEB. 22/59.

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6' 17" N. LAT. 118° 29' 30" W. LONG.	SHELL KAKISA RIVER	2.	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT OD	TYPE THD
REGENT DRLG.	26	2 4½	5 3/4"	F.H.

OPERATOR'S REPRESENTATIVE: [illegible]

CONTRACTOR'S TOOL PUSHER: J. Bate

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO.	D-300	14.
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	TO	PERFORATIONS FROM	TO	CEMENT USED	OTHER
	8⅝	23# H40.	0	706.			500	2% gel 1% CaCl 2 SST 200 5x3

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	3¾	7¾	2
REAMING			
CIRCULATING	¼		¼
TRIPS	3½		2
DEVIATION SURVEY	½		
TEST B.O.P.		¼	
CUT OFF DRILL LINE			
REPAIR RIG	¼		
CORING			
WIRE LINE LOGGING			
OTHER	½		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTAYING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
57	STANDS DP	5171.84 FT.	RUN NO.	25	26
	SNGLS. DP	FT.	SIZE	7⅞	7⅞
	D.C. ID 6" OD	418.66 FT.	MFG.	H.T.	H.T.
15			TYPE	OWC	OWC
	RMR BODY OD	FT.	NOZ. NO.	3	3
	STB BODY OD	FT.	SIZE	11/16	11/16
	SUBS OD	FT.	SER. NO.	5975	6369
	BIT OR C.B.	FT.	DEPTH OUT	5621.	
		FT.	CUMULATIVE HOURS RUN	13¾	
	KELLY DOWN	25.00 FT.	COND. OF BIT	FAIR.	NEW.
	TOTAL	5625.55 FT.	REAMER CUTTER NO.		
WT OF STRING	100,000 LBS.		TYPE		

DRILLER: W. A. Howg.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3¾		5611	5625.		90	35.	950	6"	63.			1

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	5621	½°							

REMARKS

12:00	12:15	SERV. RIG.
12:15	2:30	DRILL 7⅞" HOLE. Tite hole
2:30	2:45	DROP TOTCO & BLOW KELLY from 5490' to 5100'.
2:45	4:45	HOIST BIT # 25.
4:45	5:00	CHECK DRLG. LINE.
5:00	6:30	RUN IN W BIT # 26. 7:00-7:15 WORK ON D-300.
6:30	6:45	BREAK DIRC. 7:15-7:00 DRILL 7⅞" HOLE.
6:45	7:00	DRILL 7⅞" HOLE.

MUD RECORD			
TIME	12:00	7:00	7:00
WEIGHT	10.2	10.2	10.2
VISC	85	85	90.
W.L.-C.C.	9.8.		
FLTR. CK.	3/32		
PH	6.8.		
SD. CONT.			

MUD & CHEMICALS ADDED: Nil

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
57	STANDS DP	5233.14 FT.	RUN NO.	26	
2	SNGLS. DP	FT.	SIZE	7⅞"	
	D.C. ID 6" OD	418.66	MFG.	H.T.	
15			TYPE	W7	
	RMR BODY OD	FT	NOZ. NO.	3	
	STB BODY OD	FT	SIZE	11/16	
	SUBS OD	FT	SER. NO.	6369	8:00
	BIT OR C.B	FT	DEPTH OUT		8:45
		FT	CUMULATIVE HOURS RUN	8¾	9:00
	KELLY DOWN	15.00 FT	COND. OF BIT	RUNNING	
	TOTAL	5666.80	REAMER CUTTER NO.		
WT OF STRING	100,000 LBS.		TYPE		

DRILLER: J. McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		5625	5666	GRANITE WASH	85	35	950	6"	62			

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	5621	½°							

REMARKS

8:45	9:00	DRILLING 7⅞" HOLE
9:00	4:00	SERV. RIG & CHECK B.O.Ps
4:00		DRILLING 7⅞" HOLE

PRESERVATIVE TEST .4 10:00 AM

MUD RECORD			
TIME	10:00	12:00	2:00
WEIGHT	10.2	10.3	10.2
VISC	92	86	86
W.L.-C.C.	10.8		9.4.
FLTR. CK	3/32		3/32
PH	6.8		6.8
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	65 KS		
C.L. STARCH	35 KS		
PRESERVATIVE	50 #		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
57	STANDS DP	FT.	RUN NO.	26	
2	SNGLS. DP	5233.14 FT	SIZE	7⅞"	
	D.C. ID		MFG.	H.T.C	
15	OD	418.66 FT	TYPE	W7	
	RMR BODY OD	FT	NOZ. NO.	3	
	STB BODY OD	FT	SIZE	11/16	
	SUBS OD	FT	SER. NO.	6369	
	BIT OR C.B	FT	DEPTH OUT	5645 TD	
		FT	CUMULATIVE HOURS RUN	10¾	
	KELLY DOWN	24 FT.	COND. OF BIT	T.B. Fair	
	TOTAL	5676.80 FT	REAMER CUTTER NO.		
WT OF STRING	100,000 LBS.		TYPE		

DRILLER: [illegible]

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
2		5666	5645	T.D.	90	35	950	6"	62			

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

REMARKS

400-600	Drill 7⅞" hole
6:00-10:00	Circ & condition mud
10:00-12:00	Pull out

MUD RECORD			
TIME	4 P.M.	6 P.M.	11 P.M.
WEIGHT	9.7	9.7	9.7
VISC.	95	95	98
W.L.-C.C.		8.6	
FLTR. CK		2/32	
PH		8.8	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT
Mikogel	12 SKS		
Mikostarch	8 SKS		
Preservative	100 lbs		

C.P.—38 **DAILY DRILLING REPORT** REPORT NO. 35 DATE Feb 21st/57

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6' 14" N LAT 118° 28' 30" W LONG	Shell Kahina Pewa	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
Trent Drlg Co Ltd	21	2 4½	5¾ OD	FH.

OPERATOR'S REPRESENTATIVE: [illegible] CONTRACTOR'S TOOL PUSHER: Bate

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D300	14
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO
	8⅝	20#	0	406		
		#40				

CEMENT USED	OTHER
500 sks	+ 2% CaCl2
	in last 200 sk.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL		6¼	7¾
REAMING			
CIRCULATING		½	
TRIPS	1½	4½	
DEVIATION SURVEY			
TEST B.O.P.	½		
CUT OFF DRILL LINE			
REPAIR RIG	6		½
CORING			
WIRE LINE LOGGING			
OTHER			¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)
CONTRACTOR'S TIME HRS:
OPERATOR'S TIME:
HRS. W/D.P.:
HRS. WO/D.P.:
HRS. STANDBY

WIRE LINE RECORD
REEL NO.
NO. OF LINES SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD 27
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT	RUN NO.	25
	SNGLS. DP	FT.	SIZE	7⅞
	D.C ID		MFG.	HTC
	D.C OD	FT.	TYPE	OWC
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11/16
	SUBS OD	FT.	SER. NO.	59275
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	NEW
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			5548									

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	5390	½°							

REMARKS
12⁰⁰–4³⁰ Finish pulling out
4³⁰–4¹⁵ Pull B.Ops install new wear ring & flange, nipple up
4¹⁵–4⁴⁵ Test B.O.Ps, Hydrill 4½" rams & blind rams
4⁴⁵–8⁰⁰ Run in 10,65

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
56	STANDS DP	FT.	RUN NO	25
2.	SNGLS. DP	54.11.02	SIZE	7⅞.
12	D.C ID		MFG	H.T.
	D.C OD	418.66 FT	TYPE	OWC.
	RMR BODY OD	FT	NOZ. NO.	3
	STB BODY OD	FT	NOZ. SIZE	11/16
	SUBS OD	FT	SER. NO.	59275
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	64.
	KELLY DOWN	19.00 FT	COND OF BIT	
	TOTAL	5778.68	REAMER CUTTER NO.	
	WT OF STRING	100,000 LBS.	TYPE	

DRILLER: W. A. Howey

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¼		5548	5579.		90	35	950	6"	48.			1

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	5390	½.							

REMARKS
9⁰⁰ 9¹⁰ RUN IN W/ BIT #25.
9¹⁰ 9¹⁵ FILL PIPE (FULL TANK)
9¹⁵ 9³⁰ ~~BREAK CIRC. & CLEAN TO BTM.~~ FINISH IN.
9³⁰ ~~9⁴⁵~~ BREAK CIRC. & CLEAN TO BTM
9⁴⁵ 4⁰⁰ DRILL 7⅞" HOLE.

MUD RECORD

TIME	1000	1200	200
WEIGHT	10.3	10.3	10.3.
VISC.	94	83	81
W.L.-C.C.	78		7.7.
FLTR. CK			2/32
PH			6.8.
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
57	STANDS DP	5171.89 FT.	RUN NO	25
	SNGLS. DP	FT	SIZE	7⅞
15	D.C ID		MFG	H.T.
	D.C 6" OD	418.66 FT	TYPE	OWC
	RMR BODY OD	FT	NOZ. NO	3
	STB BODY OD	FT	NOZ. SIZE	5/16
	SUBS OD	FT	SER NO	59275
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	13½
	KELLY DOWN	21.00 FT.	COND. OF BIT	
	TOTAL	5611.55 FT	REAMER CUTTER NO.	
	WT OF STRING	100,000 LBS.	TYPE	

DRILLER: [illegible]McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M.	METHOD PUMPS RUN.
7¼		5578	5611		90	35	950	6"	61			

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	5390	½							

REMARKS
8¹⁰ DRILLING 7⅞" HOLE
8³⁰ SERV. RIG
8³⁰ 11³⁰ DRILLING 7⅞ HOLE
11³⁰ 12⁰⁰ WORK ON PUMP

MUD RECORD

TIME	600	800	1000
WEIGHT	10.3	10.2	10.2
VISC.	88	90	87
W.L.-C.C.		8.0	10.1
FLTR. CK		3/32	3/32
PH		6.8	6.5
SD. CONT.			

SMALL STREAM OF WATER

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

C.P.—38 **DAILY DRILLING REPORT** REPORT NO. 34 DATE Feb 20/59

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6' 14" N LAT 118° 28' 30" W LONG	Shell Yakusa River	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
Imperial Drlg Co Ltd	26	2 4½	5¾ OD	FH.

OPERATOR'S REPRESENTATIVE: [illegible] CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D300	14
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	8⅝"	28#	0	706			500 sks +	2% CaCl2
		H 40						in last 200 sx.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7¾	4	6¼
REAMING			
CIRCULATING		¼	
TRIPS		3	4½
DEVIATION SURVEY		1	
TEST B.O.P.		¼	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	¼	¼	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.:

HRS. WO/D.P.:

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD		
55	STANDS DP		FT	RUN NO.	23	
2	SNGLS. DP	50.56.14	FT.	SIZE	7⅞"	
	D.C. ID			MFG.	HTC.	
15	D.C. 6" OD	418.66	FT.	TYPE	OWV	
	RMR BODY OD		FT.	NOZ. NO.	3	
	STB BODY OD		FT.	SIZE	11/16	
	SUBS OD		FT.	SER. NO.	82057	
	BIT OR C.B.		FT.	DEPTH OUT		
			FT.	CUMULATIVE HOURS RUN	16¾	
	KELLY DOWN	26.00	FT.	COND. OF BIT		
	TOTAL	5495.87	FT.	REAMER CUTTER NO.		
WT OF STRING		98,000	LBS.	TYPE		

DRILLER: D. B. Plumb

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		5445	5495		90	35	950	6"	64			

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	5390	½°							

REMARKS

12⁰⁰ - 12³⁰ Drill 7⅞" hole
12³⁰ - 12⁴⁵ rig service
12⁴⁵ - 3⁰⁰ Drill 7⅞" hole

MUD RECORD			
TIME	12.40	2.00	[illegible]
WEIGHT	10.1	10.2	10.4
VISC	61	70	67
W.L.-C.C.		6.8	
FLTR. CK.		4/32	1
PH		7.0	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD		
56	STANDS DP	5092.14	FT.	RUN NO	23	24
	SNGLS. DP		FT.	SIZE	7⅞	7⅞
	D.C. ID			MFG	H.T.	H.T.
15	D.C. OD	418.66	FT.	TYPE	OWV.	OWC.
	RMR BODY OD		FT	NOZ NO.	3	3
	STB BODY OD		FT	SIZE	11/16	11/16
	SUBS OD		FT	SER. NO	59629	82057
	BIT OR C.B	18.00	FT.	DEPTH OUT	5500	
			FT	CUMULATIVE HOURS RUN	17¾	3.
	KELLY DOWN	18.00	FT	COND OF BIT	Out.	
	TOTAL	5518.80	FT	REAMER CUTTER NO.		
WT OF STRING		102,000	LBS.	TYPE		

DRILLER: W. A. Howey.

HRS. DRLD	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M	METHOD PUMPS RUN
4		5495	5518		90	35	950	6	64			1

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	5390	½°							

REMARKS

8⁰⁰ 8¹⁵ Serv. Rig & Check B.O.P.
8¹⁵ 9¹⁵ Drill 7⅞" Hole.
9¹⁵ 9³⁰ Blow Kelly
9³⁰ 11³⁰ Hoist Bit #23.
11³⁰ 12⁴⁵ Run in w/ Bit #24
12⁴⁵ 1⁰⁰ Break Circ.
1⁰⁰ 2⁰⁰ Drill 7⅞" Hole

MUD RECORD			
TIME	8.00		2.00
WEIGHT	10.2		10.2
VISC	70		76
W.L.-C.C.			10.0
FLTR. CK			2/32
PH			6.4
SD. CONT	Press. Test @ 2⁰⁰ .7		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Press.	50#		

EVENING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD		
56	STANDS DP	5112.45		RUN NO	24	
1	SNGLS. DP		FT	SIZE	7⅞	
	D.C. ID			MFG	H.T.	
15	D.C. OD	418.66	FT	TYPE	OWC	
	RMR BODY OD		FT	NOZ NO	3	
	STB BODY OD		FT	SIZE	16	
	SUBS OD		FT	SER NO	82057	
	BIT OR C.B		FT	DEPTH OUT	5548	
			FT	CUMULATIVE HOURS RUN	9¼	
	KELLY DOWN	12.00	FT.	COND. OF BIT	Pulled to put on wear ring	
	TOTAL	5548.14		REAMER CUTTER NO.		
WT OF STRING		102 000	LBS.	TYPE		

DRILLER: J. McBride

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
6¼		5518	5548	Dolomite	90	35	950	6	64			

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	5390	½°							

REMARKS

4⁰⁰ - 7⁴⁵ Drilling 7⅞" Hole
7⁴⁵ - 8⁰⁰ Serv. Rig
8⁰⁰ - 10³⁰ Drilling 7⅞ Hole
10³⁰ 12⁰⁰ Blow Kelly Pull out to put on wear ring

Pulled 10 to 20 thousand overpull of string
Return 5400 @ 5200'

MUD RECORD			
TIME	4⁰⁰	6⁰⁰	8⁰⁰
WEIGHT	10.2	10.2	10.4
VISC.	72	74	74
W.L.-C.C.		10.3	
FLTR. CK		2/32	
PH		6.4	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT
GEL	7 sks		
Mostarch	3 sks		
Water to bring up volume			

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 33 DATE Feb 19/58

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6' 17" N LAT 118° 28' 30" W LONG	Shell Kakisa River	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
[illegible] Co. Ltd.	26	2 4½	5¼ OD	F H

OPERATOR'S REPRESENTATIVE: J. Stewart

CONTRACTOR'S TOOL PUSHER: J. Bote

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8⅝"	28# H40	0	706			500 sks + 2% CaCl2	in lost 200 sx

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	6¾	3½	7¾
REAMING			
CIRCULATING		½	
TRIPS		3¼	
DEVIATION SURVEY		¼	
TEST B.O.P.		¼	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	¼	¼	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY):
CONTRACTOR'S TIME HRS:
OPERATOR'S TIME:
HRS. W/D.P.
HRS. WO/D.P.
HRS. STANDBY

WIRE LINE RECORD

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

MORNING TOUR

NO.	DRILLING ASSEMBLY		FT.
54	STANDS DP		
1	SNGLS. DP		4931.64
	D.C. ID		
15	D.C. OD	6"	417.66
	RMR BODY OD		
	STB BODY OD		
	SUBS OD		
	BIT OR C.B		
	KELLY DOWN		29.00
	TOTAL		5379.20
	WT OF STRING		93,000 LBS.

DRILLER: D. H. Lumpff

BIT RECORD	
RUN NO.	22
SIZE	7⅞"
MFG.	HTC
TYPE	OWC
NOZ. NO.	3
NOZ. SIZE	11/16
SER. NO.	59643
DEPTH OUT	
CUMULATIVE HOURS RUN	13¼
COND. OF BIT	Drilling
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¾		5318	5379		80	35	800	6"	64			

DEVIATION RECORD DEPTH	DEV	DIRECTION
5208	1°	

REMARKS
12⁰⁰ – 1¹⁵ Drill 7⅞" hole
1¹⁵ – 1³⁰ rig service
1³⁰ – 8⁰⁰ Drill 7⅞" hole

MUD RECORD			
TIME	12 mid	[illegible]	[illegible]
WEIGHT	10	10	10.1
VISC	60	60	61
W.L.C.C.	8.2	8.2	5.6
FLTR. CK.	2/32		2/32
PH	7.1		
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.
[illegible]	[illegible]
[illegible]	100 lb.

DAY TOUR

NO.	DRILLING ASSEMBLY		FT.
54	STANDS DP		
2	SNGLS. DP		4962.11
	D.C. ID		
15	D.C. OD	6"	418.66
	RMR BODY OD		
	STB BODY OD		
	SUBS OD		
	BIT OR C.B		
	KELLY DOWN		17.00
	TOTAL		5397.77
	WT OF STRING		100,000 LBS.

DRILLER: W. A. Howg

BIT RECORD		
RUN NO	22	23
SIZE	7⅞	7⅞
MFG	H.T.	H.T.
TYPE	OWC	OWV
NOZ NO.	3	3
NOZ SIZE	11/16	11/16
SER. NO	59643	82057
DEPTH OUT	5390	
CUMULATIVE HOURS RUN	15½	
COND. OF BIT	Dull	
REAMER CUTTER NO.		
TYPE		

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3½		5379	5397		80	35	800	6"	64			1

DEVIATION RECORD DEPTH	DEV	DIRECTION
5390	½°	

REMARKS
8⁰⁰ 8¹⁵ Serv. Rig & Check B.O.P.s
8¹⁵ 10³⁰ Drill 7⅞" Hole.
10³⁰ 10⁴⁵ Drop Totco Blow Kelly.
10⁴⁵ 12³⁰ Hoist Bit #22
12³⁰ 12⁴⁵ Close Blind Rams. Tite hole @ 5330'.
12⁴⁵ 2⁰⁰ Run in W Bit #23.
2⁰⁰ 2¹⁵ Fill Pipe Fill Tanks. 2³⁰ 2⁴⁵ Break Circ & Clean 10' to Btm.
2¹⁵ 2³⁰ Finish in. 2⁴⁵ 4⁰⁰ Drill 7⅞" Hole

MUD RECORD	
TIME	8⁰⁰
WEIGHT	10.1
VISC	68
W.L.C.C.	6.8
FLTR. CK	2/32
PH	
SD. CONT	Press. .06

MUD & CHEMICALS ADDED TYPE AMT. TYPE AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		FT.
55	STANDS DP		4992.26
	SNGLS. DP		
	D.C. ID		
15	D.C. OD	6"	418.66
	RMR BODY OD		
	STB BODY OD		
	SUBS OD		
	BIT OR C.B		
	KELLY DOWN		35.00
	TOTAL		5445.92
	WT OF STRING		98,000 LBS.

DRILLER: G. McBride

BIT RECORD	
RUN NO	23
SIZE	7⅞
MFG	H.T
TYPE	OWV
NOZ NO	3
NOZ SIZE	11/16
SER NO	82057
DEPTH OUT	
CUMULATIVE HOURS RUN	9
COND. OF BIT	Drilling
REAMER CUTTER NO.	
TYPE	

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S P M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M.	METHOD PUMPS RUN
7¾		5397	5445	Limestone	90	35	800	6"	64			

DEVIATION RECORD DEPTH	DEV	DIRECTION
5390	½°	

REMARKS
4⁰⁰ 7³⁰ Drilling 7⅞ Hole
7³⁰ 7⁴⁵ Serv. Rig
7⁴⁵ 12⁰⁰ Drilling 7⅞ Hole

MUD RECORD			
TIME	6⁰⁰	8⁰⁰	10⁰⁰
WEIGHT	10.1	10.1	10.1
VISC.	64	68	64
W.L.C.C.			9.8
FLTR. CK			3/32
PH	7		7
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.
M. Gel	21 SKS.
Water to bring up 1/10 lbs.	

C.P. 7

DAILY DRILLING REPORT

REPORT NO. 22 DATE FEB. 18/59.

Shell Oil Company of Canada, Limited

LOCATION LSD. SEC. TWP RGE. W. 60°6'17" N. Lat. 118°28'30" W. Long

WELL NAME Shell Kakisa River No. 2

PROVINCE N.W.T.

CONTRACTOR Regent Drlg. Co. Ltd. RIG No. 26

DRILL PIPE STRING NO. SIZE 2 4½ TOOL JOINT 5 3/4 OD TYPE THD FH

OPERATOR'S REPRESENTATIVE J. Stewart

CONTRACTOR'S TOOL PUSHER D. McBride

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D-300	14
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO
	8 5/8	28# H-40	0	706		

CEMENT USED: 500 SX + 2% CaCl2 in last 200 SX.

OTHER:

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7½	5¾	5¾
REAMING			
CIRCULATING			½
TRIPS		1¾	1½
DEVIATION SURVEY			
TEST B.O.P.		¼	
CUT OFF DRILL LINE			
REPAIR RIG	¼		
CORING			
WIRE LINE LOGGING			
OTHER	¼	¼	¼
WASHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
53	STANDS DP	4810.66 FT	RUN NO.	21
	SNGLS. DP	FT.	SIZE	7 7/8"
	D.C ID		MFG.	HTC
15	6" OD	418.66 FT.	TYPE	OWV
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	SIZE	11/16
	SUBS OD	FT.	SER. NO.	16046
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	8½
	KELLY DOWN	31.00 FT.	COND. OF BIT	Dull
	TOTAL	5250.32 FT.	REAMER CUTTER NO.	
WT OF STRING	93,000 LBS.		TYPE	

DRILLER D. McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4½		5216	5250		85	35	800	6"	64			

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	5208	1°							

REMARKS

12.00-12.15 rig service
12.15-1.15 Work on pumps
1.15-1.30 Drill 7 7/8" hole
1.30-2.00 Drill 7 7/8" hole

MUD RECORD			
TIME	12 noon	2 P.M.	6 P.M.
WEIGHT	9.7	9.7	9.9
VISC	50	52	55
W.L.-C.C.	8.0		
FLTR. CK.	2/32		
PH	6.8		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
53	STANDS DP	4810.66 FT.	RUN NO	21
1	SNGLS. DP	41.18 FT.	SIZE	7 7/8
	D.C ID		MFG	H.T.
15	6" OD	418.66 FT.	TYPE	OWV.
	RMR BODY OD	FT	NOZ NO.	3
	STB BODY OD	FT	SIZE	11/16
	SUBS OD	FT	SER. NO	16046
	BIT OR C.B	FT	DEPTH OUT	5278.
		FT	CUMULATIVE HOURS RUN	14¼
	KELLY DOWN	19.00 FT.	COND OF BIT	Dull.
	TOTAL	5278.84	REAMER CUTTER NO.	
WT OF STRING	100,000 LBS.		TYPE	

DRILLER W. A. Howg.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M	METHOD PUMPS RUN
5¾		5250	5278.		80	35	800	6"	64			1

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	5208	1°							

REMARKS

8.00-8.15 Drill 7 7/8" Hole.
8.15-8.30 Serv. Rig. Check BOPs
8.30-2.00 Drill 7 7/8" Hole.
2.00-2.15 Blow Kelly.
2.15-4.00 Hoist Bit #21.

MUD RECORD			
TIME	8.00	10.00	12.00
WEIGHT	10.0	10.1	10.1
VISC	54	57.	68.
W.L.-C.C.	7.0.		
FLTR. CK	2/32		
PH	6.8.		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	10	SKS.	
STARCH	2	SKS.	
50#	PRESERVATIVE		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
53	STANDS DP	4871.77 FT.	RUN NO	22
2	SNGLS. DP	FT	SIZE	7 7/8
	D.C ID		MFG	H.T
15	6 OD	418.66 FT	TYPE	OWC
	RMR BODY OD	FT	NOZ NO	3
	STB BODY OD	FT	SIZE	11/16
	SUBS OD	FT	SER NO	59643
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	5¾
	KELLY DOWN	28.00 FT.	COND. OF BIT	
	TOTAL	5318.39	REAMER CUTTER NO.	
WT OF STRING	100,000 LBS.		TYPE	

DRILLER D. McBride

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
5¾		5278	5318		90	35	800	6"	64			

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION
	5208	1°							

REMARKS

4.15 SERV. RIG
5.30 RUN IN BIT #22
5.45 FILL DRILL PIPE (FULL TANKS)
6.00 FINISH RUN IN
6.15 BREAK CIRC. CLEAN TO BOTTOM.
7.00 DRILLING 7 7/8" HOLE

MUD RECORD			
TIME	6.00	8.00	10.00
WEIGHT	10.1	10.2	10.1
VISC.	74	75	74
W.L.-C.C.		7.3	
FLTR. CK		2/32	
PH		6.8	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT
WATER.			

C.P. **DAILY DRILLING REPORT** REPORT NO. 31 DATE FEB. 17/59

Shell Oil Company of Canada, Limited

LOCATION LSD. SEC. TWP RGE. W: 60°6'17" N. Lat. 118°28'30" W. Long.

WELL NAME: Shell Kakisa River No. 2

PROVINCE: N.W.T.

CONTRACTOR: Regent Drlg. Co. Ltd. RIG No. 26

DRILL PIPE STRING NO. SIZE: 2 4½ TOOL JOINT 5¾ OD TYPE THD F.H.

OPERATOR'S REPRESENTATIVE: [signature]

CONTRACTOR'S TOOL PUSHER: Dun Bard

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D-300	14
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	9 5/8	28# H-40	0	706			500 sx	+ 2% CaCl2 in last 200 sx.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			1
REAMING			
CIRCULATING			½
TRIPS			2
DEVIATION SURVEY			
TEST B.O.P.			1
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			3½
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.:

HRS. WO/D.P.:

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C ID		MFG.	
	D.C OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER: [signature]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			5208									

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

12:00-1:30 Circ and condition mud.
1:30-3:00 Pull out.
3:00-4:30 Jet and clean out cellar
4:30-6:45 Wait on orders.
6:45-8:00 Tear out BOP's.

MUD RECORD	
TIME	12
WEIGHT	10.0
VISC	68
W.L.-C.C.	8.2
FLTR. CK.	2/32
PH	7.0
SD. CONT.	Making Repairs

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.
Preservative	-100 lb		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID		MFG	
	D.C OD	FT	TYPE	
	RMR BODY OD	FT	NOZ NO.	
	STB BODY OD	FT	NOZ SIZE	
	SUBS OD	FT	SER. NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT	COND OF BIT	
	TOTAL	5208. FT	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER: W.A. Howey.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			5208									

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	5208	1°							

REMARKS

8:00 11:00 Dig down around csg.
11:00 3:00 Cut off csg & weld on Bell Nipple.
3:00 4:00 Nipple up.

MUD RECORD	
TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK	
PH	
SD. CONT	

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
52	STANDS DP	4750.74	RUN NO	21	
2	SNGLS. DP	FT	SIZE	7¾	
	D.C ID		MFG	H.T	
15	D.C OD	418.66	TYPE	DSJU	
	RMR BODY OD	FT	NOZ NO	3	
	STB BODY OD	FT	NOZ SIZE	11	
	SUBS OD	FT	SER NO	16046	4:00
	BIT OR C.B	FT	DEPTH OUT		7:00
		FT	CUMULATIVE HOURS RUN	1	8:00
	KELLY DOWN	1700 FT.	COND. OF BIT		9:30
	TOTAL	5216.40 FT	REAMER CUTTER NO.		9:45
	WT OF STRING	96 000 LBS.	TYPE		10:15

DRILLER: S McBride

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
1		5208	5216		90	35	950	6	70			

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION
	5208	1°							

REMARKS

7:00 Nipple up
8:00 Pressure up on csg.
9:30 Run in Bit #21
9:45 Break circ. (Full tanks)
10:15 Finish run in
10:15 10:30 Circ. Clean to bottom
10:30 11:00 Work on pump
11:00 12:00 Drilling

Pressured up to 400# on 4½ Rams & Hydril w/ Dem. Casing Tester. Held OK for 15 min.

Ed. Whitaker

MUD RECORD	
TIME	
WEIGHT	
VISC.	
W.L.-C.C.	
FLTR. CK	
PH	
SD. CONT.	

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 30 DATE Feb 18/54

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60°6' 17" N LAT 118°28'30" W LONG	Shell Kakisa River	2	N W T

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
Pacific Drlg Co Ltd	26	2 4½	5¾ OD	FH

OPERATOR'S REPRESENTATIVE: J. McStewart

CONTRACTOR'S TOOL PUSHER: Dee McBride

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8⅝"	24# H-40	0	706			Cooks + 2% CaCl2 in last 200 sx	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	4½	¾	
REAMING			
CIRCULATING		1	2¾
TRIPS		1¾	1¾
DEVIATION SURVEY		¼	
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG	1¼		
CORING			
WIRE LINE LOGGING			
OTHER	1/4		3½
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.:

HRS. WO/D.P.:

HRS. STANDBY

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1"
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	22
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY / BIT RECORD

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
51	STANDS DP		RUN NO.	20
1	SNGLS. DP	4750.62	SIZE	7⅞"
	ID		MFG.	Sec
15	D.C. 6" OD	413.66	TYPE	M4
	RMR BODY OD		NOZ. NO.	3
	STB BODY OD		NOZ. SIZE	11/16
	SUBS OD		SER. NO.	34687
	BIT OR C.B.		DEPTH OUT	
			CUMULATIVE HOURS RUN	11¾
	KELLY DOWN	37.00	COND. OF BIT	Drilling
	TOTAL	5206.28	REAMER CUTTER NO.	
	WT. OF STRING	98,000 LBS.	TYPE	

DRILLER: D H Kumpf

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		5175	5206		80	35	950	6"	70			

DEVIATION RECORD: DEPTH 5082 DEV ½°

REMARKS

12⁰⁰ – 1¹⁵ Drill 7⅞" hole

1¹⁵ – 1³⁰ rig service + gun suction tank

1³⁰ – 6⁰⁰ Drill 7⅞" hole

6⁰⁰ – 7¹⁵ Work on mud pump

7¹⁵ – 8⁰⁰ Drill 7⅞" hole

MUD RECORD

TIME	12 MN	2 AM	4 AM
WEIGHT	10	10	10
VISC	67	67	64
W.L.C.C.	7.8		
FLTR. CK.	7/32		
PH	7.0		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	16 sx		
Starch	2 sx		

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
51	STANDS DP	4750.62	RUN NO	20
1	SNGLS. DP		SIZE	7⅞
	ID		MFG	SEC.
15	D.C. 6" OD	413.66	TYPE	M4.
	RMR BODY OD		NOZ NO.	3
	STB BODY OD		NOZ SIZE	11/16
Jun	SUBS OD	2.65	SER. NO	34687
	BIT OR C.B.		DEPTH OUT	5208
			CUMULATIVE HOURS RUN	12½
	KELLY DOWN	37.00	COND. OF BIT	DULL TRACKING
	TOTAL	5208.93	REAMER CUTTER NO.	
	WT. OF STRING	98,000 LBS.	TYPE	

DRILLER: W.A. Howg.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
¾		5206	5208		80	35	950	6"	70			1

DEVIATION RECORD: DEPTH 5208 DEV 1°

REMARKS

8⁰⁰ 8⁴⁵ DRILL 7⅞" HOLE.

8⁴⁵ 10³⁰ CLEAN OUT CELLER, LEAK IN CSG. ~~...~~ @ BOTTOM OF BOWL

10³⁰ 11³⁰ CIRC. CLEAN HOLE.

11³⁰ 11⁴⁵ BLEW KELLY, DROP TOTCO.

11⁴⁵ 1³⁰ HOIST BIT #20.

1³⁰ 4⁰⁰ WAIT ON ORDERS CLEAN CELLER & B.O.P's

MUD RECORD

TIME	8⁰⁰	
WEIGHT	9.9	LEAK IN
VISC	65	CSG.
W.L.C.C.		
FLTR. CK		
PH		
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
52	STANDS DP	4750.62	RUN NO	20
1	SNGLS. DP		SIZE	7⅞
	ID		MFG	SEC
15	D.C. 6 OD	418.66	TYPE	M4
	RMR BODY OD		NOZ NO	3
	STB BODY OD		NOZ SIZE	11/16
	SUBS OD		SER NO	34687
	BIT OR C.B.		DEPTH OUT	5208
			CUMULATIVE HOURS RUN	12½
	KELLY DOWN	39.65	COND. OF BIT	DULL CIRC TO CLEAN HOLE
	TOTAL	5208.93	REAMER CUTTER NO.	
	WT. OF STRING	98,000 LBS.	TYPE	

DRILLER: J McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
0				CIRC (MIX MUD)			950	6	70			

DEVIATION RECORD: DEPTH 5208 DEV 1°

REMARKS

4⁰⁰ – 7³⁰ WAIT ON ORDERS

7³⁰ 9¹⁵ RUN IN

9¹⁵ 12⁰⁰ CIRC. (MIX MUD)

MUD RECORD

TIME	1600	1200
WEIGHT	10.0	10.0
VISC.	56	60
W.L.C.C.	9.0	
FLTR. CK	3/32	
PH	7.	
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT
GEL	23 SKS		
MILSTARCH	3 SKS		
PLASTERPARIS	5 SKS		

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 27 DATE Feb 15/59

OPERATOR	LOCATION LSD.	SEC.	TWP	RGE.	W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 8' 11" N LAT		112° 23' 30" W LONG			Shell Kakwa River	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
REGENT DRILLING	26	2 4½	5 3/4 OD	FH

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
[illegible]	Dan Brada

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D500	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
9 5/8"	32.40	0	706			500 +	2% CaCl2
						in last	200 SX.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7¼	4½	5½
REAMING			
CIRCULATING			½
TRIPS		2½	3½
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG	½	½	1½
CORING			
WIRE LINE LOGGING			
OTHER	¼	¾	
FISHING	9		
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	12	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY

NO.			
57	STANDS DP		FT.
2	SNGLS. DP	4690.18	FT.
15	D.C ID		
	D.C OD	418.66	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	2300	FT.
	TOTAL	5131.84	FT.
WT OF STRING		96,000	LBS.

BIT RECORD

RUN NO.	19
SIZE	7 7/8"
MFG.	HTC
TYPE	OWJ
NOZ. NO.	3
NOZ. SIZE	11/16
SER. NO.	72054
DEPTH OUT	
CUMULATIVE HOURS RUN	16 3/4
COND. OF BIT	Running
REAMER CUTTER NO.	
TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¼		5104	5131		80	35	950	6"	70			

DEVIATION RECORD: 5082 1/2°

REMARKS: 1200 - 400 Drill 7⅞" hole
400 - 415 rig service & gun mud tanks
415 - 445 Work on pump
445 - 7 Drill 7⅞" hole

7 20.77

MUD RECORD

TIME	12	2	6
WEIGHT	9.9	9.9	9.9
VISC	47	68	58
W.L.-C.C.		6.2	
FLTR. CK.		9/32	
PH		4.0	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Mudgel	14 sacks		
Pecomite	50		

DAY TOUR

DRILLING ASSEMBLY

NO.			
57	STANDS DP		FT.
2	SNGLS. DP	4690.18	FT.
15	D.C ID		
	D.C OD	418.60	FT.
	RMR BODY OD		FT
	STB BODY OD		FT
1½	SUBS OD	2.65	FT.
	BIT OR C.B		FT
			FT
	KELLY DOWN	35.00	FT.
	TOTAL	5146.49	FT.
WT OF STRING		98,000	LBS.

BIT RECORD

RUN NO.	19
SIZE	7 7/8
MFG	H.T.
TYPE	OWJ.
NOZ. NO.	3
NOZ. SIZE	11/16
SER. NO	72054
DEPTH OUT	5146
CUMULATIVE HOURS RUN	14 3/4
COND OF BIT	1 Dull
REAMER CUTTER NO.	
TYPE	

DRILLER: W. A. Howe.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4		5131	5146.		80	35	950.	6"	70			1

DEVIATION RECORD: 5082 1/2.

REMARKS:
8⁰⁰ - 8¹⁵ DRILL 7⅞" HOLE.
8¹⁵ - 8⁴⁵ SERV. RIG & REPAIR 2" CAMERON ON D-300
8⁴⁵ - 12⁴⁵ DRILL 7⅞" HOLE.
12⁴⁵ - 1⁰⁰ BLOW KELLY
1⁰⁰ - 2⁴⁵ HOIST BIT #19
2⁴⁵ - 3⁰⁰ CHECK BLIND RAMS.
3⁰⁰ - 3¹⁵ CLEAN JUNK SUB & MAKE UP BIT.
3¹⁵ - 4⁰⁰ RUN IN @ #20.

MUD RECORD

TIME	8⁰⁰	10⁰⁰	12⁰⁰
WEIGHT	9.9	9.9	9.9
VISC	52	59	65
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	10 sks.		
PRESS.	50#		

EVENING TOUR

DRILLING ASSEMBLY

NO.			
52	STANDS DP	4720.78	
	SNGLS. DP		FT
15	D.C ID		
	D.C OD	418.66	
	RMR BODY OD		FT
	STB BODY OD		FT
Jonk	SUBS OD	2.65	FT
	BIT OR C.B		FT
			FT
	KELLY DOWN	33.00	FT.
	TOTAL	5175.09	
WT OF STRING		78000	LBS.

BIT RECORD

RUN NO	20
SIZE	7⅞
MFG	SEC
TYPE	M4
NOZ. NO	3
NOZ. SIZE	48
SER NO	341687
DEPTH OUT	
CUMULATIVE HOURS RUN	5¼
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: J. McBride

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
5¼		5146	5175		90	35	950	6"	70			

DEVIATION RECORD: 5082 5/8°

REMARKS:
4⁴⁵ FINISH RUN IN BIT #20
5¹⁵ BREAKING SERV. RIG
5³⁰ DRILLING 7⅞" HOLE
6⁰⁰ REPAIR FILTERS #3 MOTOR
8³⁰ DRILLING 7⅞ HOLE (MIX GEL)
9³⁰ REPAIR LEAKING FILTERS #3 MOTOR.
12⁰⁰ DRILLING 7⅞" HOLE

MUD RECORD

TIME	4⁰⁰	8⁰⁰	11⁰⁰
WEIGHT	9.9	10.0	10.0
VISC	63	74	67
W.L.-C.C.		8.1	
FLTR. CK		3/32	
PH		6.8	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT
GEL	10 sks		
WATER TO BRING UP VOLUME			

CP—38

DAILY DRILLING REPORT

REPORT NO. 28 DATE FEB. 14/59.

OPERATOR: Shell Oil Company of Canada, Limited

LOCATION LSD. 60°6'17" N. LAT. SEC. 118°28'30" W. LONG TWP RGE. W

WELL NAME: SHELL KAKISA RIVER No. 2

PROVINCE: N.W.T.

CONTRACTOR: REGENT DRILLING RIG No. 26

DRILL PIPE STRING NO. 2 SIZE 4½ TOOL JOINT 5¾ OD TYPE THD F.H.

OPERATOR'S REPRESENTATIVE: [signature]

CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-300	14"
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO
	8⅝	24 H40	0	706		

CEMENT USED: 500 + LAST 200 SKS 2% C/C

OTHER:

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	1¾	7¼	
REAMING			
CIRCULATING	½		
TRIPS	4½		
DEVIATION SURVEY			
TEST B.O.P.		¼	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	1¼		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD 19.

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
50	STANDS DP	4599.96	RUN NO.	17	18
2	SNGLS. DP	FT.	SIZE	7⅞	7⅞
15	D.C. ID / OD 6"	418.66 FT.	MFG.	SEC	H.T
	RMR BODY OD	FT.	TYPE	S4	OSC16
	STB BODY OD	FT.	NOZ. NO.	3	3
	SUBS OD	FT.	NOZ. SIZE	11/16	11/16
	BIT OR C.B.	FT.	SER. NO.	325863	58311
		FT.	DEPTH OUT	5038	
			CUMULATIVE HOURS RUN	15¾	1
	KELLY DOWN	30.00 FT.	COND. OF BIT	Out Gauge	
	TOTAL	5048.62	REAMER CUTTER NO.		
WT OF STRING	96 000 LBS.		TYPE		

DRILLER: G. McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1¾		5032	5048		95	35	850	6"	65			

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	4912	½°		5038	½°				

REMARKS

12⁰⁰	12⁴⁵	DRILLING 7⅞ HOLE
12⁴⁵	3³⁰	DOUBLE MEASURE OUT BIT #17
3³⁰	4³⁰	SETUP BRAKES CLEAN SHAKER BOX
4³⁰	6¹⁵	RUN IN BIT #18
6¹⁵	6³⁰	WAIT FOR STEAM BLOW KELLY
6³⁰	7⁰⁰	BREAK CIRC. CLEAN TO BOTTOM
7⁰⁰	8⁰⁰	DRILLING 7⅞ HOLE

PIPE TALLY 4599.96
MEASURE OUT 4599.96
DIFF 0
SLM: 5038 5037.2'
No correction

MUD RECORD 6 AM

TIME			
WEIGHT		T	10.0
VISC		R	66
W.L.-C.C.		P	6.0
FLTR. CK.			3/32
PH			6.8
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
51	STANDS DP	4624.44 FT.	RUN NO	18	19
	SNGLS. DP	FT.	SIZE	7⅞	7⅞
15	D.C. ID / OD 6"	418.66 FT	MFG	HTC	
	RMR BODY OD	FT	TYPE	OSC16	
	STB BODY OD	FT	NOZ. NO.	3	
	SUBS OD	FT	NOZ. SIZE	11/16	
	BIT OR C.B	FT	SER. NO	325863	
		FT	DEPTH OUT		
			CUMULATIVE HOURS RUN	3¾	
	KELLY DOWN	7.00 FT	COND. OF BIT	Drilling	
	TOTAL	5042.38 FT	REAMER CUTTER NO.		
WT OF STRING	96,000 LBS.		TYPE		

DRILLER: [signature]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¼		4912	5038		85	35	850	6"	65			

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	[illegible]	[illegible]		5030	½°				

REMARKS

8⁴⁰	8⁴⁵	Drill 7⅞" hole
8⁴⁵	8³⁰	[illegible]
8³⁰	9⁰⁰	Drill 7⅞" hole

MUD RECORD

TIME	8 AM	4 PM	9 PM
WEIGHT	9.9	9.9	9.9
VISC	61	62	62
W.L.-C.C.	5.1		
FLTR. CK	2/32		
PH	7.0		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
51	STANDS DP	FT.	RUN NO	18	19
1	SNGLS. DP	46 59.85	SIZE	7⅞	7⅞
15	D.C. ID / OD 6"	418.66	MFG	H.T.	H.T.
	RMR BODY OD	FT	TYPE	OSC16	DW4
	STB BODY OD	FT	NOZ. NO.	3	3
	SUBS OD	2.65 FT	NOZ. SIZE	11/16	11/16
	BIT OR C.B	FT	SER. NO	325863	320454
		FT	DEPTH OUT	5082	
			CUMULATIVE HOURS RUN	8¾	3½
	KELLY DOWN	FT.	COND. OF BIT	1 Quill	New
	TOTAL	FT	REAMER CUTTER NO.		
WT OF STRING	98,000 LBS.		TYPE		

DRILLER: W.A. Howey.

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
3½		5082	5104		80	35	850	6"	65			1

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	5082	½°							

REMARKS

4⁰⁰	4¹⁵	SERV. RIG.
4¹⁵	4³⁰	UNSCREW KELLY & BLOW KELLY.
4³⁰	6¹⁵	HOIST BIT #18.
6¹⁵	6³⁰	MAKE UP BIT & JUNK SUB.
6³⁰	7¹⁵	RUN IN @ BIT #19.
7¹⁵	8³⁰	BREAK CIRC.
8³⁰	12⁰⁰	DRILL 7⅞" HOLE.

MUD RECORD

TIME	10⁰⁰		
WEIGHT	9.9		
VISC.	74		
W.L.-C.C.	5.4		
FLTR. CK	2/32		
PH	6.8		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 27 DATE FEB. 13/59

OPERATOR	Shell Oil Company of Canada, Limited
LOCATION	60°6'17" N. LAT 118°28'30" W. LONG
WELL NAME	SHELL KAKISA RIVER
No.	2
PROVINCE	N.W.T.
CONTRACTOR	REGENT DRILLING
RIG No.	2C
DRILL PIPE STRING NO. SIZE	2 4½
TOOL JOINT	5¾ OD
TYPE THD	F.H.
OPERATOR'S REPRESENTATIVE	[signature]
CONTRACTOR'S TOOL PUSHER	[signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D.300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8⅝	25 H40	0	206			500	LAST 200 SKS 2% c/c

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5	2¼	
REAMING			
CIRCULATING	½	½	
TRIPS	1¾		
DEVIATION SURVEY			
TEST B.O.P.		½	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	¾	4¾	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS		8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.	
NO. OF LINES / SIZE	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	18.
CUMULATIVE ROTATING HRS.	

MORNING TOUR

DRILLING ASSEMBLY

NO.			
49	STANDS DP	4508.27	FT.
2	SNGLS. DP		FT.
15	D.C. ID / 6 OD	418.66	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	35.00	
	TOTAL		
	WT. OF STRING	94,000	LBS.

DRILLER: [signature]

BIT RECORD

RUN NO.	17
SIZE	7⅞
MFG.	SEC
TYPE	S4
NOZ. NO.	3
NOZ. SIZE	11/16
SER. NO.	325863
DEPTH OUT	
CUMULATIVE HOURS RUN	5
COND. OF BIT	RUNNING
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5		4912	4961	LIMESTONE	95	35	850	6"	65			

DEVIATION RECORD

DEPTH	DEV	DIRECTION
4912	½°	

REMARKS

12⁰⁰ – 12³⁰ CHANGE BITS SERV. RIG
12³⁰ – 2¹⁵ RUN NEW BIT #17
2¹⁵ – 2⁴⁵ BREAK CIRC. CLEAN TO BOTTOM
2⁴⁵ – 5⁰⁰ DRILLING 7⅞ HOLE
5⁰⁰ – 5¹⁵ THAW AIR LINE ON ROTARY CLUTCH
5¹⁵ – 8⁰⁰ DRILLING 7⅞ HOLE

MUD RECORD

TIME	200	400	600
WEIGHT	9.9	9.9	9.9
VISC	75	72	75
W.L.-C.C.	6.2	6.4	7.1
FLTR. CK.	3/32		
PH	6.8		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.
GEL	75 KS
MILSTARCH	35 KS

SMALL STREAM OF WATER TO BRING UP VOLUME

DAY TOUR

DRILLING ASSEMBLY

NO.			
50	STANDS DP	4538.55	FT.
	SNGLS. DP		FT.
15	D.C. ID / 6" OD	418.66	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	24.00	FT.
	TOTAL	4981.21	FT.
	WT. OF STRING	94,000	LBS.

DRILLER: [signature]

BIT RECORD

RUN NO.	17
SIZE	7⅞
MFG	Sec
TYPE	S4
NOZ NO.	3
NOZ SIZE	11/16
SER. NO	325863
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND OF BIT	Drilling
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2¼		4961	4981		95	35	850	6"	65			

DEVIATION RECORD

DEPTH	DEV	DIRECTION

REMARKS

¼ Drill 7⅞ hole 8⁰⁰ – 8¹⁵
½ Rig ser. & check B.O.Ps 8.15 – 8.45
4½ Repair air lines & work on forward air clutch 8⁴⁵ – 1.15
½ Circ. sample 1.15 – 1.45
Drill 7⅞" hole 1.45 – 4.00

MUD RECORD

TIME	8 AM	10 AM	2 PM
WEIGHT	9.9	9.9	9.9
VISC	71	66	66
W.L.-C.C.	5.5		
FLTR. CK	2/32		
PH	6.8		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.
Gel	16 SX.
Starch	5 SX.

EVENING TOUR

DRILLING ASSEMBLY

NO.			
50	STANDS DP		FT.
2	SNGLS. DP	4599.96	
15.	D.C. ID / 6" OD	418.66	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN	14.00	FT.
	TOTAL	5032.62	FT.
	WT. OF STRING	96,000	LBS.

DRILLER: [signature]

BIT RECORD

RUN NO	17
SIZE	7⅞
MFG	SEC.
TYPE	S4.
NOZ NO	3
NOZ SIZE	11/16
SER NO	325863.
DEPTH OUT	
CUMULATIVE HOURS RUN	15
COND. OF BIT	RUNNING.
REAMER CUTTER NO.	
TYPE	

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½.		4981	5032		95	35	850	6"	65			1

DEVIATION RECORD

DEPTH	DEV	DIRECTION
4912	½°	

REMARKS

4⁰⁰ – 4³⁰ DRILL 7⅞ HOLE.
4³⁰ – 4⁴⁵ SERV. RIG.
4⁴⁵ – 11⁰⁰ DRILL 7⅞ HOLE.
11⁰⁰ – 11¹⁵ GUN SUCTION TANK.
11¹⁵ – 12⁰⁰ DRILL 7⅞" HOLE.

MUD RECORD

TIME	6	8	10
WEIGHT	9.9	9.9	9.9
VISC.	75	70	72
W.L.C.C.		6.2	
FLTR. CK		2/32	
PH		6.8	
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.
PRESERVATIVE	100#

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 26 DATE FEB. 12/59

OPERATOR	Shell Oil Company of Canada, Limited
LOCATION	60° 6' 17" N. LAT. 118° 28' 30" W. LONG
WELL NAME	SHELL KAKISA RIVER
No.	2
PROVINCE	N.W.T.
CONTRACTOR	REGENT DRILLING
RIG No.	26
DRILL PIPE STRING NO. SIZE	2 4½
TOOL JOINT	5¾ OD
TYPE THD	F.H.
OPERATOR'S REPRESENTATIVE	J. M. Stewart
CONTRACTOR'S TOOL PUSHER	J. Bate

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D.300	14"
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM:	PERFORATIONS TO	CEMENT USED	OTHER
8⅝	28 H40	0	706			500	+ LAST 200 2% G.C.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5½	7¼	
REAMING			
CIRCULATING	½		
TRIPS	1¾	¼	
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	¼		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING		½	
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS. WO/D.P:

HRS. STANDBY

WIRE LINE RECORD

REEL NO.	
NO. OF LINES / SIZE	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	17.
CUMULATIVE ROTATING HRS.	

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
48	STANDS DP	4388.58	RUN NO.	16
1	SNGLS. DP	FT.	SIZE	7⅞
	ID		MFG.	H.T
15	D.C. OD	418.66	TYPE	OSC
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11/16
	SUBS OD	FT.	SER. NO.	62130
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	5½
	KELLY DOWN	31.00 FT.	COND. OF BIT	RUNNING
	TOTAL	4838.24	REAMER CUTTER NO.	
	WT. OF STRING	92 000 LBS.	TYPE	

DRILLER: J. McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5½		4798	4838		90	35	850	6	65			

DEVIATION RECORD:

DEPTH	DEV	DIRECTION
4798	1¼°	

REMARKS

12⁰⁰ 12¹⁵ SERV. R. G.
12¹⁵ 1³⁰ RUN IN BIT #16
1³⁰ 1⁴⁵ BREAK CIRC. (FULL TANKS)
1⁴⁵ 2¹⁵ FINISH RUN IN
2¹⁵ 2³⁰ CIRC. CLEAN TO BOTTOM
2³⁰ 8⁰⁰ DRILLING 7⅞" HOLE

MUD RECORD

TIME	2⁰⁰	4⁰⁰
WEIGHT	10.	10
VISC	82	78
W.L.C.C.	6.2	
FLTR. CK.	3/32	
PH	6.8	
SD. CONT.		

MUD & CHEMICALS ADDED: SMALL STREAM OF WATER

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
49	STANDS DP	FT.	RUN NO	16
1	SNGLS. DP	4449.20 FT	SIZE	7⅞"
	ID		MFG	HTC
15	D.C. 6" OD	418.66 FT	TYPE	OSC
	RMR BODY OD	FT	NOZ NO.	3
	STB BODY OD	FT	NOZ SIZE	11/16
	SUBS OD	FT	SER. NO	62130
	BIT OR C.B.	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	13¼
	KELLY DOWN	20.00 FT	COND OF BIT	Drilling
	TOTAL	4887.86 FT	REAMER CUTTER NO.	
	WT. OF STRING	94,000 LBS.	TYPE	

DRILLER: D. H. Trumpff

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¼		4838	4887	Limestone	95	35	850	6"	65			

DEVIATION RECORD:

DEPTH	DEV	DIRECTION
4883	1¼°	

REMARKS

8⁰⁰ - 9⁰⁰ Drill 7⅞" hole
9⁰⁰ - 9¹⁵ rig service & check B.O.P.s
9¹⁵ - 4⁰⁰ Drill 7⅞" hole

MUD RECORD

TIME	8 AM	10 AM	2 PM
WEIGHT	9.7	9.7	9.8
VISC	56	56	56
W.L.C.C.	[illegible]		7.2
FLTR. CK	2/32		
PH	7.0		
SD. CONT			

MUD & CHEMICALS ADDED:

55x - Milgel
85x - Gel

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
49	STANDS DP	FT.	RUN NO	16
1	SNGLS. DP	4479.72 FT	SIZE	7⅞
	ID		MFG	H.T.
15	D.C. 6" OD	418.66 FT	TYPE	OSC.
	RMR BODY OD	FT	NOZ NO	3
	STB BODY OD	FT	NOZ SIZE	11/16
	SUBS OD	FT	SER NO	62130
	BIT OR C.B	FT	DEPTH OUT	4912
		FT	CUMULATIVE HOURS RUN	19
	KELLY DOWN	26.00 FT.	COND. OF BIT	DULL.
	TOTAL	4912.38 FT	REAMER CUTTER NO.	
	WT. OF STRING	94,000 LBS.	TYPE	

DRILLER: W. A. Howg.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¾		4887	4912.		95.	35	850.	6"	65.			1

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
4898.	1¼		4912	½°	

REMARKS

4⁰⁰ 4³⁰ DRILL 7⅞" HOLE.
4³⁰ 4⁴⁵ SERV. RIG.
4⁴⁵ 10⁰⁰ DRILL 7⅞" HOLE.
10⁰⁰ 10¹⁵ DROP TOTCO & BLOW. KELLY.
10¹⁵ 12⁰⁰ HOIST BIT #16. & REPAIR HOLE FILLING LINE.

MUD RECORD

TIME	6⁰⁰	8⁰⁰	10⁰⁰
WEIGHT	9.8	9.8	9.8
VISC.	58	62	74
W.L.C.C.			6.4
FLTR. CK			2/32
PH			6.8
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.
GEL.	10 SKS
STARCH.	5 SKS.

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 25 DATE FEB. 11/59

OPERATOR	LOCATION (LSD. SEC. TWP. RGE. W.)	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60°6'17" N. LAT 118°28'30" W. LONG	SHELL KAKISA RIVER	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
REGENT DRILLING	26	2 4½	5¾ OD	F.H

OPERATOR'S REPRESENTATIVE: Jim Stewart
CONTRACTOR'S TOOL PUSHER: [illegible signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D. 300	14"
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8⅝	28 H40	0	706			300 sks L.O.S.T. 200 sks 2% c/c	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7¾	3	
REAMING			
CIRCULATING		¼	
TRIPS		3¾	
DEVIATION SURVEY			
TEST B.O.P.		½	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	¼	1	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)
CONTRACTOR'S TIME HRS.:
OPERATOR'S TIME:
HRS. W/D.P.:
HRS. WO/D.P.:
HRS. STANDBY

WIRE LINE RECORD

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

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
46	STANDS DP	4208.26	RUN NO.	14
1	SNGLS. DP	FT.	SIZE	7⅞
15	D.C. 6" OD	418.66	MFG.	H.T
	RMR BODY OD	FT.	TYPE	OSC3
	STB BODY OD	FT.	NOZ. NO.	3
	SUBS OD	FT.	NOZ. SIZE	7/16
	BIT OR C.B.	FT.	SER. NO.	79067
		FT.	DEPTH OUT	
	KELLY DOWN	34.00 FT.	CUMULATIVE HOURS RUN	14¾
	TOTAL	4660.92 FT.	COND. OF BIT	
	WT. OF STRING	90,000 LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER: J. McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		4552	4660	GREEN SHALE	100	35	1000	6	72			

DEVIATION RECORD: DEPTH 4420, DEV ½°

REMARKS:
12⁰⁰ 1³⁰ DRILLING 7⅞ HOLE (MIXING STARCH)
1³⁰ 1⁴⁵ SERV. RIG.
1⁴⁵ 6⁰⁰ DRILLING 7⅞ HOLE (MIXING STARCH)
6⁰⁰ 8⁰⁰ DRILLING 7⅞ HOLE

MUD RECORD

TIME	2⁰⁰	4⁰⁰	6⁰⁰
WEIGHT	9.6	9.6	9.6
VISC	58	60	65
W.L.C.C.	11.4	9.0	8.4
FLTR. CK.	4/32		
PH	6.8		
SD. CONT.			

MUD & CHEMICALS ADDED: M.L STARCH 30 SKS.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
47	STANDS DP	FT.	RUN NO	14	15
1	SNGLS. DP	4297.18 FT.	SIZE	7⅞	7⅞
	D.C.		MFG	HTC	HTC
15	6" OD	418.66 FT	TYPE	OSC3	OSC1G
	RMR BODY OD	FT	NOZ NO.	3	3
	STB BODY OD	FT	NOZ SIZE	11/16	11/16
	SUBS OD	FT	SER. NO	79067	58328
	BIT OR C.B	FT	DEPTH OUT	4668	
		FT	CUMULATIVE HOURS RUN	15¾	3
	KELLY DOWN	14.00 FT	COND OF BIT	Dull	Drilling
	TOTAL	4731.84 FT	REAMER CUTTER NO.		
	WT. OF STRING	90,000 LBS.	TYPE		

DRILLER: D. H. [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3		4660	4731		110	35	850	6"	64			

DEVIATION RECORD: DEPTH 4668, DEV ¾

REMARKS:
8⁰⁰ - 8³⁰ Drill 7⅞" hole
8³⁰ - 9⁰⁰ rig service & check B.O.P's
9⁰⁰ - 10³⁰ Pull out
10³⁰ - 11⁰⁰ Check B.O.P's
11⁰⁰ - 12⁰⁰ Run in
12⁰⁰ - 12¹⁵ Break circ
12¹⁵ - 1⁰⁰ Finish running in
1⁰⁰ - 4⁰⁰ Drill 7⅞" hole

MUD RECORD

TIME	2 P.M.
WEIGHT	9.6
VISC	65
W.L.C.C.	6.4
FLTR. CK.	Soft mushy
PH	7.0
SD. CONT	

MUD & CHEMICALS ADDED:

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
48	STANDS DP	4358.14	RUN NO	15
	SNGLS. DP	FT	SIZE	7⅞
15	D.C. 6" OD	418.66 FT	MFG	H.T
	RMR BODY OD	FT	TYPE	OSC3
	STB BODY OD	FT	NOZ NO	3
	SUBS OD	FT	NOZ SIZE	11/16
	BIT OR C.B	FT	SER NO	58238
		FT	DEPTH OUT	4798
	KELLY DOWN	22.80 FT.	CUMULATIVE HOURS RUN	8¾
	TOTAL	4798.80	COND. OF BIT	DULL
	WT OF STRING	90,000 LBS.	REAMER CUTTER NO.	
			TYPE	

DRILLER: W. A. Hovey

HRS. DRLD	CORE NO	FROM	TO	FORMATION	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M.	METHOD PUMPS RUN
5¾		4731	4798.		90	35.	850.	6	65.			1

DEVIATION RECORD: DEPTH 4798. DEV 1¼

REMARKS:
4⁰⁰ 5⁰⁰ DRILL 7⅞" HOLE.
5⁰⁰ 5¹⁵ SERV. RIG.
5¹⁵ 10⁰⁰ DRILL 7⅞" HOLE.
10⁰⁰ 10¹⁵ DROP TOTCO + BLOW KELLY.
10¹⁵ 12⁰⁰ HOIST BIT # 15.

MUD RECORD

TIME	6⁰⁰	8⁰⁰	10⁰⁰
WEIGHT	9.6	9.7	9.7
VISC.	65	65	65
W.L.C.C.	7.2		6.4
FLTR. CK	SOFT FLUFFY		
PH	6.4		6.8
SD. CONT.			

MUD & CHEMICALS ADDED: ML STARCH 5 SKS.

C.P.—38 **DAILY DRILLING REPORT** REPORT NO. 24 DATE FEB. 10/59

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6'17" N. LAT 113° 28'30" W. LONG	SHELL KAKISA RIVER	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
REGENT DRILLING	26	2 4½	5¾ OD	F.H.

PUMPS

No.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D.300	14"
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8⅝	28 H40	0	706			500	~~100~~ 200 sks 2% c/c

OPERATOR'S REPRESENTATIVE: J. Stewart   CONTRACTOR'S TOOL PUSHER: J. Butler

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5½		
REAMING			
CIRCULATING			
TRIPS	1½		
DEVIATION SURVEY	¼		
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG	½		
CORING			
WIRE LINE LOGGING			
OTHER	¼		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8		

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:
OPERATOR'S TIME:
HRS. W/D.P.
HRS. WO/D.P.:
HRS. STANDBY

WIRE LINE RECORD

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

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
43	STANDS DP	3964.83	RUN NO.	13
2	SNGLS. DP	FT.	SIZE	7⅞
	ID		MFG.	H.T
15	D.C 6 OD	418.66 FT.	TYPE	OSC3
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11/16
	SUBS OD	FT.	SER. NO.	78957
	BIT OR C.B.	FT.	DEPTH OUT	4420
		FT.	CUMULATIVE HOURS RUN	16½
	KELLY DOWN	32.00 FT.	COND. OF BIT	LITTLE LOOSE
	TOTAL	4420 FT.	REAMER CUTTER NO.	
	WT. OF STRING	88,000 LBS.	TYPE	

DRILLER: J. McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5½		4324	4420	SILTY	180	35	900	6¾	49			

DEVIATION RECORD	DEPTH	DEV	DIRECTION
	4324	½°	

REMARKS

12³⁰ DRILLING 7⅞ HOLE
12³⁰ 12⁴⁵ SERV. RIG
12⁴⁵ 3⁴⁵ DRILLING 7⅞ HOLE
3⁴⁵ 4¹⁵ CHANGE STARTER START PUMP MOTORS
4¹⁵ 6¹⁵ DRILLING 7⅞" HOLE
6¹⁵ 6³⁰ BLOW KELLY DROP TOTCO
6³⁰ 8⁰⁰ HOIST BIT #13

MUD RECORD		
TIME	12⁰⁰	4⁰⁰
WEIGHT	10.0	9.8
VISC	66	57
W.L.-C.C.	8.3	
FLTR. CK.	3/32	
PH	7.2	
SD. CONT.		

MUD & CHEMICALS ADDED: WATER

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
43	STANDS DP	FT.	RUN NO	14
2	SNGLS. DP	3964.83 FT.	SIZE	7⅞
	ID		MFG	HTC
15	D.C. OD	418.66 FT	TYPE	OSC3
	RMR BODY OD	FT	NOZ NO.	3
	STB BODY OD	FT	NOZ SIZE	11/16
	SUBS OD	FT	SER. NO	79067
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	½
	KELLY DOWN	40.00 FT	COND OF BIT	
	TOTAL	4425.49 FT	REAMER CUTTER NO.	
	WT OF STRING	88,000 LBS.	TYPE	

DRILLER: D. H. Trumpff

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
½		4420	4425									

DEVIATION RECORD: DEPTH DEV DIRECTION

REMARKS

8⁰⁰ 8¹⁵ Finish out
8¹⁵ 8³⁰ rig service + check BOPs
8³⁰ 10³⁰ Change heads + liners in pump
10³⁰ - 11⁰⁰ Clear out shaker line
11⁰⁰ 12¹⁵ run in
12¹⁵ - 12⁴⁵ Blow kelly, break circ + clean to bottom
12⁴⁵ - 2¹⁵ Work on pump
2¹⁵ 2⁴⁵ Drill 7⅞ hole 2⁴⁵-4⁰⁰ Pull table sprocket

MUD RECORD		
TIME		3 P.M.
WEIGHT		10.2
VISC		68
W.L.-C.C.		
FLTR. CK		
PH		7.0
SD. CONT		

MUD & CHEMICALS ADDED

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
45	STANDS DP	FT.	RUN NO	14
1	SNGLS. DP	4117.26 FT.	SIZE	7⅞
	ID		MFG	H.T.
15	D.C 6" OD	418.66	TYPE	OSC3
	RMR BODY OD	FT	NOZ NO	3
	STB BODY OD	FT	NOZ SIZE	11/16
	SUBS OD	FT	SER NO	79067
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	7
	KELLY DOWN	24.00 FT.	COND. OF BIT	RUNNING
	TOTAL	4552.02	REAMER CUTTER NO.	
	WT OF STRING	90,000 LBS.	TYPE	

DRILLER: W. A. Howg

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M.	METHOD PUMPS RUN
6½		4425	4552		100	35	400	6"	72			1

DEVIATION RECORD	DEPTH	DEV	DIRECTION
	4420	½°	

REMARKS

4⁰⁰ 5¹⁵ CHANGE ROTARY SPROCKET
5¹⁵ 5³⁰ SERV. RIG
5³⁰ 12⁰⁰ DRILL 7⅞" HOLE

MUD RECORD			
TIME	6	8	10
WEIGHT			
VISC	CHANGE OVER		
W.L.-C.C.	TO GYP MUD.		
FLTR. CK			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.
MILSTARCH	20 SKS
PRES.	200 lbs
PLASTER	35 SX.
GEL.	15 SKS

C.P.—38 **DAILY DRILLING REPORT** REPORT NO. 23 DATE FEB. 9/59

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6' 17" N. LAT. 113° 28' 30" W. LONG	SHELL KAKISA RIVER	2	N. W. T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
REGENT DRILLING CO	26	2 4½	5¾ OD	F.H.

OPERATOR'S REPRESENTATIVE: [illegible] CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-300	14"
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8⅝	28 H.40	0	70 G			500	2 AS 200 SKS 2% CC

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	4		
REAMING			
CIRCULATING	¾		
TRIPS	2¼		
DEVIATION SURVEY			
TEST B.O.P.		1	
CUT OFF DRILL LINE			
REPAIR RIG	½	8	
CORING			
WIRE LINE LOGGING			
OTHER	1		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)
CONTRACTOR'S TIME HRS:
OPERATOR'S TIME:
HRS. W/D.P.
HRS. WO/D.P.
HRS. STANDBY

WIRE LINE RECORD
REEL NO.
NO. OF LINES SIZE
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS
NO. OF DAYS FROM SPUD 14
CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
41	STANDS DP	3752.04	RUN NO.	13	
1	SNGLS. DP	FT.	SIZE	7⅞	
15	D.C ID 6 OD	418.66 FT.	MFG.	H-T	
			TYPE	OSC3	
	RMR BODY OD	FT.	NOZ. NO.	3	
	STB BODY OD	FT.	SIZE	11/16	
	SUBS OD	FT.	SER. NO.	78957	12⁰⁰
	BIT OR C.B.	FT.	DEPTH OUT		12⁴⁵
		FT.	CUMULATIVE HOURS RUN	4	1⁴⁵
	KELLY DOWN	20.00 FT.	COND. OF BIT		2¹⁵
	TOTAL	4190.76	REAMER CUTTER NO.		3⁴⁵
WT OF STRING		86 000 LBS.	TYPE		4⁰⁰

DRILLER: [illegible]McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4		4134	4190	SHALE	110	30	900	6¾	49			

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	4134	¼°							

REMARKS

12⁴⁵	FINISH HOIST BIT #12
1⁴⁵	SERV. RIG CLEAN SUCTION TANK
2¹⁵	REPAIR ROTARY CHAIN
3⁴⁵	RUN IN BIT # 13
4⁰⁰	BREAK CIRC. CLEAN TO BOTTOM
8⁰⁰	DRILLING 7⅞" HOLE

MUD RECORD

TIME	4⁰⁰	6⁰⁰
WEIGHT	10.6	10.6
VISC	67	65
W.L.-C.C.	9.4	
FLTR. CK.	½	
PH	7.6	
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	15 SK.		
WATER			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
41	STANDS DP	FT.	RUN NO	13	
1	SNGLS. DP	3752.04 FT.	SIZE	7⅞	
15	D.C ID OD	418.66 FT	MFG	HTC	
			TYPE	OSC3	
	RMR BODY OD	FT	NOZ NO.	3	
	STB BODY OD	FT	SIZE	11/16	
	SUBS OD	FT	SER. NO	78957	
	BIT OR C.B	FT	DEPTH OUT		
		FT	CUMULATIVE HOURS RUN	4	
	KELLY DOWN	20.00 FT.	COND OF BIT		
	TOTAL	419.70 FT.	REAMER CUTTER NO.		
WT OF STRING		86,000 LBS.	TYPE		

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M	METHOD PUMPS RUN
			4190									

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	4134	¼°							

REMARKS

3⁰⁰	- 3³⁰	Work on 4½" pipe rams
3³⁰	4⁰⁰	Install new union on mud line

MUD RECORD

TIME		
WEIGHT		
VISC		
W.L.-C.C.		
FLTR. CK		
PH		
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
42	STANDS DP	FT.	RUN NO	13	
2	SNGLS. DP	387.37	SIZE	7⅞	
15	D.C ID 6 OD	418.66	MFG	H.T.	
			TYPE	OSC3	
	RMR BODY OD	FT	NOZ NO	3	
	STB BODY OD	FT	SIZE	11/16	
	SUBS OD	FT	SER NO	78957	
	BIT OR C.B	FT	DEPTH OUT		
		FT	CUMULATIVE HOURS RUN	11	
	KELLY DOWN	32.00 FT.	COND. OF BIT	RUNNING	
	TOTAL	838.03	REAMER CUTTER NO.		
WT OF STRING		78,000	TYPE		

DRILLER: W. A. Hourty

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
7		4190	4324		100	35	900	6¾	49			1

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	4134	¼°							

REMARKS

4⁰⁰	4³⁰	FINISH INSTALLING NEW UNION.
4³⁰	4⁴⁵	SERV. RIG.
4⁴⁵	7³⁰	DRILL 7⅞" HOLE.
7³⁰	7⁴⁵	CLEAN SHAKER TANK.
7⁴⁵	12⁰⁰	DRILL 7⅞" HOLE.

MUD RECORD

TIME	6⁰⁰	8⁰⁰	10⁰⁰
WEIGHT	10.4	10.0	10.0
VISC.	55	50	50.
W.L.-C.C.		8.8	
FLTR. CK		2/32	
PH		7.2	
SD. CONT.		CLEANED	
		SHAKER TANK.	

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT
GEL	50 SKS		
	WATER.		

C.P.--38 **DAILY DRILLING REPORT** REPORT NO. 22. DATE FEB-8/59

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60°6'17" N. LAT 118°28'30" W. LONG.	SHELL KAKISA RIVER	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT OD	TYPE THD
REGENT DRILLING Co.	26	2	4½	5¾	F.H.

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
[illegible]	[illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-300	11'1"
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO
8⅝	28# H40	0	706		

CEMENT USED	OTHER
500 + 2% c/c in last 200 sks.	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	3¾	7½	5¾
REAMING			
CIRCULATING	½		
TRIPS	3¼		1¼
DEVIATION SURVEY	¼		¼
TEST B.O.P.	¼	¼	
CUT OFF DRILL LINE			
REPAIR RIG			¼
CORING			
WIRE LINE LOGGING			
OTHER		¼	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P:

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD 13.

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
38	STANDS DP	3508.52 FT.	RUN NO.	11	12
2	SNGLS. DP	FT.	SIZE	7⅞	7⅞
15	D.C. 6" OD	448.66 FT.	MFG.	H.T.	H.T
	D.C. ID		TYPE	OSC3	OSC3
	RMR BODY OD	FT.	NOZ. NO.	3	3
	STB BODY OD	FT.	NOZ. SIZE	4/16	4/16
	SUBS OD	FT.	SER. NO.	78958	78954
	BIT OR C.B.	FT.	DEPTH OUT	3936	
		FT.	CUMULATIVE HOURS RUN	15¾	1
	KELLY DOWN	31.00 FT.	COND. OF BIT	1 OOSE	
	TOTAL	3958.18 FT.	REAMER CUTTER NO.		
WT OF STRING	78000 LBS.		TYPE		

DRILLER: J. McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
3¾		3875	3958	SHALE	100	30	900	6¾	48			

DEVIATION RECORD: DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
3828	1¼°							

REMARKS

12⁰⁰	2⁴⁵	DRILLING 7⅞" HOLE
2⁴⁵	3⁰⁰	BLOW KELLY DROP TOTCO
3⁰⁰	4³⁰	PULL OUT
4³⁰	4⁴⁵	CLOSE BLIND RAMS
4⁴⁵	6³⁰	RUNIN BIT #12
6³⁰	7⁰⁰	BREAK CIRC. CLEAN TO BOTTOM
7⁰⁰	8⁰⁰	DRILLING 7⅞" HOLE

MUD RECORD

TIME	12⁰⁰	2⁰⁰	7⁰⁰
WEIGHT	10.8	10.8	10.8
VISC	70	71	76
W.L.-C.C.	7.4		
FLTR. CK.	2/32		
PH	7.2		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
39	STANDS DP	FT.	RUN NO.	12	
2	SNGLS. DP	3600.14 FT.	SIZE	7⅞"	
15	D.C. OD	448.66 FT.	MFG.	HTC	
	D.C. ID		TYPE	OSC3	
	RMR BODY OD	FT	NOZ. NO.	3	
	STB BODY OD	FT	NOZ. SIZE	4/16	
	SUBS OD	FT	SER. NO	78954	
	BIT OR C.B	FT	DEPTH OUT		
		FT	CUMULATIVE HOURS RUN	8½	
	KELLY DOWN	33.00 FT	COND. OF BIT	Dull	
	TOTAL	4051.80 FT	REAMER CUTTER NO.		
WT OF STRING	36000 LBS.		TYPE		

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7½		3958	4051		100	20	900	6¾	49			

DEVIATION RECORD: DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
3828	1¼°							

REMARKS

8.00	8¹⁵	rig service & check B.O.P's
8¹⁵	2⁰⁰	Drill 7⅞" hole
2⁰⁰	2¹⁵	Run mud tank
2¹⁵	4⁰⁰	Drill 7⅞" hole

MUD RECORD

TIME	10	12	2
WEIGHT	10.8	10.8	10.9
VISC	55	55	58
W.L.-C.C.	7.4		
FLTR. CK	2/32		
PH	7.2		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	10 sks		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
40	STANDS DP	FT.	RUN NO	12.	
2.	SNGLS. DP	3690.99.	SIZE	7⅞.	
15.	D.C. 6" OD	418.66.	MFG	H.T.	
	D.C. ID		TYPE	OSC3.	
	RMR BODY OD	FT	NOZ NO	3	
	STB BODY OD	FT	NOZ SIZE	11/16	
	SUBS OD	FT	SER NO	78954	
	BIT OR C.B	FT	DEPTH OUT	4134.	
		FT	CUMULATIVE HOURS RUN	14¼.	
	KELLY DOWN	26.00 FT.	COND. OF BIT		
	TOTAL	4134.65 FT	REAMER CUTTER NO.		
WT OF STRING	82,000 LBS.		TYPE		

DRILLER: W. A. Howg.

HRS. DRLD.	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
5¾		4051	4134.		100	30	900	6¾	49			1

DEVIATION RECORD: DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
3858.	1¼							

REMARKS

4⁰⁰	4³⁰	DRILL 7⅞" HOLE.
4³⁰	4⁴⁵	SERV. RIG.
4⁴⁵	7³⁰	DRILL 7⅞ HOLE.
7³⁰	7⁴⁵	TIGHTEN ROTORY CHAIN.
7⁴⁵	10¹⁵	DRILL 7⅞ HOLE.
10¹⁵		BLOW KELLY & DROP TOTCO.
10³⁰	11¹⁵	HOIST BIT #12.
11¹⁵	11³⁰	WORK ON COMPRESSOR. 11³⁰–12⁰⁰ HOIST BIT #12.

MUD RECORD

TIME	4	6	8.
WEIGHT	10.7	10.7	10.6
VISC.	58	58	60.
W.L.-C.C.	7.4		
FLTR. CK	2/32.		
PH	7.2.		
SD. CONT.			

CLEANED SETTLING TANK.

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT
GEL.	30 SK.		
WATER.			

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 21 DATE FEB. 4/59.

OPERATOR	LOCATION	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6' 7" N. LAT. 118° 28' 30" W. LONG.	SHELL KAKISA RIVER	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
REGENT DRLG.	26.	2 4½	5¾ OD	F.H.

OPERATOR'S REPRESENTATIVE: J. M. Stewart

CONTRACTOR'S TOOL PUSHER: J. Bate

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO.	D-300.	14"
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8 5/8	28# H.40.	0	706.			500 sk	2% C/C ...

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	6¾	5½	
REAMING			
CIRCULATING		¼	
TRIPS	1½	1½	
DEVIATION SURVEY	¼		
TEST B.O.P.		½	
CUT OFF DRILL LINE			
REPAIR RIG		¼	
CORING			
WIRE LINE LOGGING			
OTHER	¼		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.:

HRS. WO/D.P.:

HRS. STANDBY

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1"
FEET SLIPPED	
FEET CUT OFF	NEW
PRESENT LENGTH	1350
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	772
NO. OF DAYS FROM SPUD	12
CUMULATIVE ROTATING HRS.	157¾

MORNING TOUR

Drilling Assembly

NO.	DRILLING ASSEMBLY	FT
34	STANDS DP	
2	SNGLS. DP	3141.27
15	D.C. 6" OD	418.66
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	KELLY DOWN	16.00
	TOTAL	3578.93
	WT. OF STRING	78,000 LBS.

Bit Record

RUN NO.	10.
SIZE	7 7/8.
MFG.	H.T.
TYPE	OSC3
NOZ. NO.	3
NOZ. SIZE	11/16
SER. NO.	78938
DEPTH OUT	3578.
CUMULATIVE HOURS RUN	12¼.
COND. OF BIT	Bit Loose
REAMER CUTTER NO.	
TYPE	

Drilling

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6¾		3474	3578.		110.	35.	900	6¾	53.			1.

DEVIATION RECORD: DEPTH 3578. DEV ¾

REMARKS:

12⁰⁰ - 12¹⁵ SERV. RIG.
12¹⁵ - 6³⁰ DRILL 7 7/8" HOLE.
6³⁰ - 6⁴⁵ DROP TOTCO & BLOW KELLY.
6⁴⁵ - 8⁰⁰ HOIST BIT #10.

Mud Record

TIME	12	2	6.
WEIGHT	10.4	10.4	10.4
VISC	58	58	58.
W.L.C.C.	7.8		
FLTR. CK.	2/32		
PH	7.6		
SD. CONT.			

MUD & CHEMICALS ADDED: Nil

DRILLER: W. A. Hoag

DAY TOUR

Drilling Assembly

NO.	DRILLING ASSEMBLY	FT
36	STANDS DP	3266.66
	SNGLS. DP	
15	D.C. 6" OD	418.66
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B	
	KELLY DOWN	20.00
	TOTAL	3705.32
	WT. OF STRING	77000 LBS.

Bit Record

RUN NO	11
SIZE	7 7/8
MFG	H.T.C.
TYPE	OSC3
NOZ NO.	3
NOZ SIZE	11/16
SER. NO	78958
DEPTH OUT	
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

Drilling

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5½		3578	3705	GREEN SHALE	100	36	900	6¾	53			

DEVIATION RECORD: DEPTH 3578 DEV ¾°

REMARKS:

8⁰⁰ 8³⁰ SERV. RIG CHECK B.O.P's.
8³⁰ 10⁰⁰ RUN IN BIT #11
10⁰⁰ 10¹⁵ BREAK CIRC. CLEAN TO BOTTOM
10¹⁵ 11³⁰ DRILLING 7 7/8" HOLE
11³⁰ 11⁴⁵ PUT ROTARY CHAIN ON SPROCKET
11⁴⁵ 4⁰⁰ DRILLING 7 7/8" HOLE

Mud Record

TIME	10⁰⁰	12⁰⁰	2⁰⁰
WEIGHT	10.4	10.7	10.4
VISC	64	60	60
W.L.C.C.	7.4		
FLTR. CK	2/32		
PH	8.0		
SD. CONT			

MUD & CHEMICALS ADDED:

DRILLER: J. McBride

EVENING TOUR

Drilling Assembly

NO.	DRILLING ASSEMBLY	FT
38	STANDS DP	3446.57
	SNGLS. DP	
15	D.C. OD	418.66
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B	
	KELLY DOWN	9.00
	TOTAL	3875.23
	WT. OF STRING	78000 LBS.

Bit Record

RUN NO	11
SIZE	7 7/8
MFG	HTC
TYPE	OSC3
NOZ NO	3
NOZ SIZE	11/16
SER NO	78958
DEPTH OUT	
CUMULATIVE HOURS RUN	13.
COND. OF BIT	Dulling
REAMER CUTTER NO.	
TYPE	

Drilling

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4½		3705	3875		100	36	850	6¾	48			

DEVIATION RECORD: DEPTH 3578 TOTCO DEV ¾°

REMARKS:

½ Drill 7 7/8" hole 4⁰⁰ - 4³⁰
¼ rig service 4³⁰ 4⁴⁵
4 Drill 7 7/8" hole 4⁴⁵ 11⁴⁵
¼ Work on pump 11⁴⁵ 12⁰⁰

Mud Record

TIME	4 PM	6 PM	8 PM
WEIGHT	10.6	10.6	10.8
VISC.	66	70	65
W.L.C.C.	7.6	7.6	7.6
FLTR. CK	2/32	2/32	2/32
PH	7.2	7.2	7.2
SD. CONT.			

MUD & CHEMICALS ADDED:

DRILLER: D. H. Gumley

C.P.—38 **DAILY DRILLING REPORT** REPORT NO. 20 DATE FEB. 6/59

OPERATOR	LOCATION, LSD., SEC., TWP, RGE., W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60°6'17" N. LAT. 118°28'30" W. LONG.	SHELL KAKISA RIVER	2.	N. W. T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
REGENT DRLG.	26	2. 4½	5¾ OD	F.H.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO 1	D-300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8⅝	28# H 40.	0	706			500 + 2% C/C IN 1ST 200 SACKS	

OPERATOR'S REPRESENTATIVE: J. Stewart
CONTRACTOR'S TOOL PUSHER: J. Batie

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	7¾	5½	
REAMING			
CIRCULATING			
TRIPS		1¾	
DEVIATION SURVEY		¼	
TEST B.O.P.		½	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	¼		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:
OPERATOR'S TIME:
HRS. W/D.P.:
HRS. WO/D.P.:
HRS. STANDBY

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1"
FEET SLIPPED	
FEET CUT OFF	NEW
PRESENT LENGTH	1350
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	321
NO. OF DAYS FROM SPUD	11
CUMULATIVE ROTATING HRS.	138 1/2

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
30	STANDS DP	FT	RUN NO.	9.
2.	SNGLS. DP	2782.81 FT.	SIZE	7⅞.
	ID		MFG.	H.T.
15.	D.C. 6" OD	418.66 FT.	TYPE	OSC3
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	NOZ. SIZE	11/16
	SUBS OD	FT.	SER. NO.	78956.
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	8¾
	KELLY DOWN	40.00 FT.	COND. OF BIT	RUNNING.
	TOTAL	3241.47 FT.	REAMER CUTTER NO.	
	WT OF STRING	82,000 LBS.	TYPE	

DRILLER: D. A. Howg

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		3085	3241		100	30	900	6¾	55.			1

DEVIATION RECORD

DEPTH	DEV	DIRECTION
3059	3/4°	

REMARKS

12⁰⁰ 12¹⁵ SERV. RIG.
12¹⁵ 8⁰⁰ DRILL 7⅞" HOLE.

MUD RECORD

TIME	2⁰⁰	4⁰⁰	6⁰⁰
WEIGHT	10.2	10.2	10.3
VISC	60	59.	61.
W.L.C.C.	8.0		
FLTR. CK.	2/32		
PH	9.0		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	10 SACKS		
WATER			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
32	STANDS DP	2902.06	RUN NO	9
	SNGLS. DP	FT.	SIZE	7⅞
	ID		MFG	H.T.
15	D.C. 6" OD	418.66	TYPE	OSC3
	RMR BODY OD	FT	NOZ NO.	3
	STB BODY OD	FT	NOZ SIZE	11/16
	SUBS OD	FT	SER. NO	78956
	BIT OR C.B.	FT	DEPTH OUT	3360
		FT	CUMULATIVE HOURS RUN	14¼
	KELLY DOWN	40.00 FT	COND OF BIT	Pull loose
	TOTAL	3360 FT	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER: J. McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5½		3241	3360	SHALE	100	35	900	6¾	55			

DEVIATION RECORD

DEPTH	DEV	DIRECTION
3330	3/4	

REMARKS

8⁰⁰-8³⁰ SERV. RIG CLOSE HYDRIL
8³⁰-1⁰⁰ DRILLING 7⅞" HOLE
1⁰⁰-1¹⁵ RUN SURVEY @ 3330 ¾°
1¹⁵-2¹⁵ DRILLING 7⅞ HOLE
2¹⁵-4⁰⁰ PULL OUT CLOSE BLIND RAMS START RUN IN

MUD RECORD

TIME	8⁰⁰	10⁰⁰	12⁰⁰
WEIGHT	10.7	10.8	10.5
VISC	56	70	61
W.L.C.C.			
FLTR. CK			
PH	9.0		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	11 SKS		
LYT RON	31 LBS.		
WATER			

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
33	STANDS DP	FT.	RUN NO	10
1	SNGLS. DP	3022.16 FT	SIZE	7⅞"
	ID		MFG	HTC
15	D.C. 6" OD	418.66 FT	TYPE	OSC3
	RMR BODY OD	FT	NOZ NO	3
	STB BODY OD	FT	NOZ SIZE	11/16
	SUBS OD	FT	SER NO	78966
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	6
	KELLY DOWN	FT	COND. OF BIT	Drilling
	TOTAL	FT	REAMER CUTTER NO.	
	WT OF STRING	72,000 LBS.	TYPE	

DRILLER: D. H. Grumbly

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6		3330	3474		110	35	900	6¾	53			

DEVIATION RECORD

DEPTH	DEV	DIRECTION
3330	3/4	

REMARKS

1/2	Finish in	4:00-4:30
1/4	Break circ. & clean to bottom	4:30-4:45
1/4	Drill 7⅞" hole	4:45-5:00
1/4	Work on pump	5:00-5:15
5	Drill 7⅞" hole	5:15-10:15
1	Tighten rotary chain	10:15-11:15
3/4	Drill 7⅞" hole	11:15-12:00

MUD RECORD

TIME	4 PM	6 PM	8 PM
WEIGHT	10.4	10.4	10.4
VISC.	63	64	66
W.L.C.C.	7.6	7.6	7.6
FLTR. CK	2/32		
PH	6.4	6.4	6.4
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 19 DATE FEB. 5/59.

OPERATOR	Shell Oil Company of Canada, Limited
CONTRACTOR	REGENT DRLG. Co.
RIG No.	26
LOCATION LSD. SEC. TWP RGE. W	60° 6' 17" N. LAT. 118° 28' 30" W. LONG.
WELL NAME	SHELL KAKISA RIVER
No.	2.
PROVINCE	N.W.T.
DRILL PIPE STRING NO. SIZE	2 4½
TOOL JOINT	5¾ OD
TYPE THD	F.H.
OPERATOR'S REPRESENTATIVE	[signature]
CONTRACTOR'S TOOL PUSHER	[signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO.	D-300	14"
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8⅝	22# H.40	0	706			500 + 2% c/c. in last 200 sx.	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5¼	7¾	5
REAMING			
CIRCULATING	¼		¼
TRIPS	2		2¼
DEVIATION SURVEY	¼		
TEST B.O.P.		¼	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	¼		½
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS: 0

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.:

HRS. STANDBY

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1"
FEET SLIPPED	
FEET CUT OFF	NEW
PRESENT LENGTH	1350
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	280
NO. OF DAYS FROM S[pud]	10
CUMULA[TIVE] ROTAT[ING] HRS.	119¼

MORNING TOUR

DRILLING ASSEMBLY

NO.			
25	STANDS DP		FT.
0.	SNGLS. DP	2327.79	FT.
15.	D.C. 6" OD	418.66	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
	KELLY DOWN	40.00	FT.
	TOTAL	2787.45	FT.
	WT. OF STRING	68,000	LBS.

DRILLER W. Houg

BIT RECORD

RUN NO.	7	8
SIZE	7⅞	7⅞
MFG.	H.T.	H.T.
TYPE	OSC1G.	OSC1G.
NOZ. NO.	3	3
NOZ. SIZE	11/16	11/16
SER. NO.	57219	57218
DEPTH OUT	2741	
CUMULATIVE HOURS RUN	13¼	2½
COND. OF BIT	D. Dull	Running
REAMER CUTTER NO.		
TYPE		

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¼		2707	2787.	-	100	25	750	6½	60.			1

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
2741	2°							

REMARKS

12⁰⁰ 12¹⁵ SERV. RIG.
12¹⁵ 3⁰⁰ DRILL.
3⁰⁰ 3¹⁵ DROP TOTCO BLOW KELLY.
3¹⁵ 5¹⁵ TRIP. CHANGE BITS.
5¹⁵ 5³⁰ CIRC. CLEAN 10' TO BTM.
5³⁰ 8:00. DRILL.

MUD RECORD

TIME	2 AM	6 AM
WEIGHT	10.1	10.2
VISC	55	60
W.L.-C.C.	8.2	8.2
FLTR. CK.	2/32	2/32
PH	9.0	9.0
SD. CONT.		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL.	10	SACK.	
CAUSTIC.	25#	lbs	
RAY FLOW	50#	lbs.	

DAY TOUR

DRILLING ASSEMBLY

NO.			
27	STANDS DP	2509.65	
2	SNGLS. DP		FT.
15	D.C. OD	418.66	FT.
	RMR BODY OD		FT
	STB BODY OD		FT
	SUBS OD		FT
	BIT OR C.B		FT
	KELLY DOWN	40.00	FT
	TOTAL	2968.31	FT
	WT OF STRING	68000	LBS.

DRILLER G McBride

BIT RECORD

RUN NO	8
SIZE	7⅞
MFG	H.T.
TYPE	OSC1G
NOZ NO.	3
NOZ SIZE	11/16
SER. NO	57218
DEPTH OUT	
CUMULATIVE HOURS RUN	10¼
COND OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		2787	2968	SHALE	100	30,000	850	6¾	54			

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8⁰⁰ 8¹⁵ SERV. RIG CHECK B.O.P.s.
8¹⁵ 4⁰⁰ DRILLING 7⅞" HOLE

MUD RECORD

TIME	8⁰⁰	10⁰⁰	2⁰⁰
WEIGHT	10.4	10.4	10.4
VISC	58	68	61
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	10 SKS		
LYTRON-G	1 LB.		
WATER			

EVENING TOUR

DRILLING ASSEMBLY

NO.			
29	STANDS DP	2631.77	FT.
	SNGLS. DP		FT
15	D.C 6" OD	418.66	FT
	RMR BODY OD		FT
	STB BODY OD		FT
	SUBS OD		FT
	BIT OR C.B.		FT
	KELLY DOWN	35.00	FT.
	TOTAL	3085.43	FT
	WT OF STRING	68,000	LBS.

DRILLER D.H. [signature]

BIT RECORD

RUN NO	8	9
SIZE	7⅞	7⅞
MFG	HTC	HTC
TYPE	OSC1G	OSC 3
NOZ NO	3	3
NOZ SIZE	11/16	11/16
SER NO	57218	78956
DEPTH OUT	3059	
CUMULATIVE HOURS RUN	14¼	1
COND. OF BIT	Dull	
REAMER CUTTER NO.		
TYPE		

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M.	METHOD PUMPS RUN
5		2968	3085		100	35	850	6¾	55			

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION
3059	¾							

REMARKS

¾	Drill 7⅞" hole	4:00 - 4:45
¼	rig service	4:45 - 5:00
3¼	Drill 7⅞" hole	5:00 - 8:15
¼	Drop Totco	8:15 - 8:30
2¼	Trip to change bits	8:30 - 10:45
¼	Break circ. & clean to bottom	10:45 - 11:00
1	Drill 7⅞" hole	11:00 - 12:00.

MUD RECORD

TIME	4 PM	6 PM	11 PM
WEIGHT	10.2	10.2	10.3
VISC.	58	58	62
W.L.C.C.	7.8		
FLTR. CK	3/32		
PH	9.0		
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

G.P.—38 **DAILY DRILLING REPORT** REPORT NO. 18 DATE FEB. 4/59.

OPERATOR	Shell Oil Company of Canada, Limited
LOCATION (LSD. SEC. TWP. RGE. W.)	60° 6' 17" N. LAT. 118° 28' 30" W. LONG.
WELL NAME	KAKISA RIVER
No.	2
PROVINCE	N.W.T.
CONTRACTOR	REGENT DRLG.
RIG No.	26
DRILL PIPE STRING NO. SIZE	2 4½
TOOL JOINT	4½ OD
TYPE THD	F.H.
OPERATOR'S REPRESENTATIVE	[signature]
CONTRACTOR'S TOOL PUSHER	J. Bates

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D-300.	14"
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8⅝	28# H40	0	705			5 sx + 2% Gel in last 200 sx.	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5½	2¾	7¾
REAMING			
CIRCULATING		½	
TRIPS	1	1¼	
DEVIATION SURVEY	¼		
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG		3½	
CORING			
WIRE LINE LOGGING			
OTHER	1¼		¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)
CONTRACTOR'S TIME HRS:
OPERATOR'S TIME:
HRS. W/D.P.:
HRS. WO/D.P.:
H2S. STANDBY

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1"
FEET SLIPPED	
FEET CUT OFF	NEW
PRESENT LENGTH	1350
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	9
CUMULATIVE ROTATING HRS.	101¼

MORNING TOUR

DRILLING ASSEMBLY

NO.	ITEM	OD	FT.
23	STANDS DP		2084.90
	SNGLS. DP		
15	D.C.	6	418.66
	RMR BODY		
	STB BODY		
	SUBS		
	BIT OR C.B.		
	KELLY DOWN		40.00
	TOTAL		2543.56
	WT. OF STRING		62,000 LBS.

BIT RECORD

RUN NO.	6
SIZE	7⅞
MFG.	H.T.
TYPE	OSC3
NOZ. NO.	3
NOZ. SIZE	7/16
SER. NO.	54484
DEPTH OUT	2543
CUMULATIVE HOURS RUN	10¾
COND. OF BIT	Dull.
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¾		2478	2543.	LIME.	110	30	750	7½	45			1

DEVIATION RECORD: DEPTH 2543, DEV 1½

REMARKS:
12⁰⁰ 12¹⁵ SERV. RIG.
12¹⁵ 5⁴⁵ DRILL
5⁴⁵ 6⁰⁰ DROP TOTCO + BLOW KELLY — LOST 2" MUD FROM 12⁰⁰ TO 2⁰⁰.
6⁰⁰ 7⁰⁰ HOIST BIT #6.
7⁰⁰ 8⁰⁰ CHANGE HEADS + LINERS + REPAIR STD. PIPE VALVE.

DRILLER: W.A. Hoog

MUD RECORD

TIME	12	2	4
WEIGHT	10.0	10.0	10.0
VISC	58	60	60
W.L.C.C.	12.6		8.4
FLTR. CK.	2/32		2/32
PH	8.0		8.0
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.
Milgel	10 sx.
Caustic	25#
Ray Flo	50#
Mill Fibre	15 sx.

DAY TOUR

DRILLING ASSEMBLY

NO.	ITEM	OD	FT.
23	STANDS DP		2145.59
2	SNGLS. DP		
15	D.C.	6	418.66
	RMR BODY		
	STB BODY		
	SUBS		
	BIT OR C.B.		
	KELLY DOWN		21.75
	TOTAL		2586.00
	WT. OF STRING		64000 LBS.

BIT RECORD

RUN NO.	7
SIZE	7⅞
MFG	H.T.
TYPE	OSC1G
NOZ NO.	3
NOZ SIZE	7/16
SER. NO.	57219
DEPTH OUT	
CUMULATIVE HOURS RUN	2¾
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
2¾		2543	2586	SILTY LIME	100	35	900	6¾	60			

REMARKS:
8⁰⁰ 11³⁰ FINISH CHANGING HEADS & LINERS. CHECK SCREEN
11³⁰ 12⁴⁵ RUN IN
12⁴⁵ 1¹⁵ BREAK CIRC. CLEAN 15' TO BOTTOM.
1¹⁵ 3⁰⁰ DRILLING 7⅞" HOLE (MIX MUD)
3⁰⁰ 4⁰⁰ DRILLING 7⅞" HOLE

DRILLER: J. McBride

MUD RECORD

TIME	12⁰⁰	2⁰⁰
WEIGHT	10.0	10.0
VISC	68	68
W.L.C.C.		
FLTR. CK		
PH		
SD. CONT		

MUD & CHEMICALS ADDED

TYPE	AMT.
GEL	11 sks
Quebracho (Natron)	38 LBS.
Water	

EVENING TOUR

DRILLING ASSEMBLY

NO.	ITEM	OD	FT.
25	STANDS DP		2267.59
	SNGLS. DP		
15	D.C.		418.66
	RMR BODY		
	STB BODY		
	SUBS		
	BIT OR C.B.		
	KELLY DOWN		21.00
	TOTAL		2704.19
	WT. OF STRING		64,000 LBS.

BIT RECORD

RUN NO.	7
SIZE	7⅞"
MFG	HTC
TYPE	OSC 1G
NOZ NO.	3
NOZ SIZE	7/16
SER. NO.	57219
DEPTH OUT	
CUMULATIVE HOURS RUN	10½
COND. OF BIT	Drilling
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¾		2586	2704		110	35	900	6¾	61			

REMARKS:
¾ Drill 7⅞" hole 4:00-4:45
¼ rig service 4:45-5:00
7 Drill 7⅞" hole 5:00-12:00

DRILLER: D.H. [illegible]

MUD RECORD

TIME	6	8	10
WEIGHT	10.1	10.1	10.1
VISC.	59	54	57
W.L.C.C.	10.4		9.8
FLTR. CK	3/32		3/32
PH	9.0		9.0
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.
Rayflo	50#
Caustic	25#

C.P.—38 **DAILY DRILLING REPORT** REPORT NO. 17 DATE FEB. 3/59.

OPERATOR	LOCATION	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6' 17" N. LAT 118° 28' 30" W. LONG.	KAKISA RIVER.	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
REGENT DRLG.	26.	2 4½	4½ OD	F.H.

OPERATOR'S REPRESENTATIVE: J. Stewart. CONTRACTOR'S TOOL PUSHER: J. Bo[illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco.	D-300.	14.
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8⅝	28# H40	0	708			500 sx + [illegible]	2% CaCl2 in last 200 sx.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5	7¼	
REAMING			
CIRCULATING	¼		
TRIPS	1¾		
DEVIATION SURVEY	¼		
TEST B.O.P.		¼	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	¼		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)
CONTRACTOR'S TIME HRS:
OPERATOR'S TIME:
HRS. W/D.P.:
HRS. WO/D.P.:
HRS. STANDBY

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1"
FEET SLIPPED	
FEET CUT OFF	NEW
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	139
NO. OF DAYS FROM SPUD	8
CUMULATIVE ROTATING HRS.	74½

MORNING TOUR

Drilling Assembly

NO.	DRILLING ASSEMBLY	
19	STANDS DP	
2	SNGLS. DP	1781.55 FT.
15	D.C. 6" OD	418.66
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	KELLY DOWN	27.00
	TOTAL	2227.21
	WT OF STRING	56,000 LBS.

DRILLER: W. Howg.

Bit Record

RUN NO.	4	5
SIZE	7⅞	7⅞
MFG.	H.T.	H.T.
TYPE	OSC3	OSC3
NOZ. NO.	3	3
NOZ. SIZE	11/16	11/16
SER. NO.	23466	62508
DEPTH OUT	2181	
CUMULATIVE HOURS RUN	5	
COND. OF BIT	Good.	New
REAMER CUTTER NO.		
TYPE		

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5½		2148	2227.		120	25	700.	7½	48			1

DEVIATION RECORD: DEPTH 2181 DEV 1°

REMARKS

12⁰⁰ 12¹⁵ SERV. RIG.
12¹⁵ 3³⁰ DRILL & MIX MUD & LOSS CIRC. MATERIAL.
3³⁰ 3⁴⁵ DROP TOTCO & BLOW KELLY.
3⁴⁵ 5³⁰ TRIP CHANGE BITS. LOST 2" MUD 12⁰⁰ TO 12¹⁵
5³⁰ 5⁴⁵ BREAK CIRC & CLEAN 4' TO BTM. 2140 TO 2151.
5⁴⁵ 8⁰⁰ DRILL 7⅞" HOLE.

MUD RECORD

TIME	12	2	6
WEIGHT	9.5	9.5	9.5
VISC	40	45	50
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.
Gel	40 sx.
Lytron B	5 lbs.
Water	
Mil Fiber	2 sx.

DAY TOUR

Drilling Assembly

NO.	DRILLING ASSEMBLY	
21	STANDS DP	
1	SNGLS. DP	1932.98
15	D.C. 6 OD	418.66
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B	
	KELLY DOWN	30.00 FT
	TOTAL	2381.64
	WT OF STRING	58000 LBS.

DRILLER: J. McBride.

Bit Record

RUN NO	5
SIZE	7⅞
MFG	H.T
TYPE	OSC3
NOZ NO.	3
NOZ SIZE	11/16
SER. NO	62508
DEPTH OUT	
CUMULATIVE HOURS RUN	10
COND OF BIT	
REAMER CUTTER NO.	
TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
7¼		2227	2381	LIMESTONE	110	30	700	7½	49			

DEVIATION RECORD: DEPTH 2181 DEV 1°

REMARKS

8⁰⁰ 8³⁰ DRILLING
8³⁰ 8⁴⁵ SERV. RIG CHECK B.O.PS
8⁴⁵ 4⁰⁰ DRILLING

MUD RECORD

TIME	10⁰⁰	12⁰⁰	2⁰⁰
WEIGHT	9.6	9.6	9.6
VISC	55	50	50
W.L.-C.C.			
FLTR. CK			
PH	8.5		
SD. CONT			

MUD & CHEMICALS ADDED: WATER.

EVENING TOUR

Drilling Assembly

NO.	DRILLING ASSEMBLY	
22	STANDS DP	
1	SNGLS. DP	2023.88 FT
15	D.C. 6" OD	418.66 FT
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B	
	KELLY DOWN	36.00 FT.
	TOTAL	2478.54
	WT OF STRING	60,000 LBS.

DRILLER: D. K. Grundy

Bit Record

RUN NO	5	6
SIZE	7⅞	7⅞
MFG	HTC	HTC
TYPE	OSC3	OSC3
NOZ NO	3	3
NOZ SIZE	11/16	11/16
SER NO	62508	59984
DEPTH OUT	2391	
CUMULATIVE HOURS RUN	10½	5¼
COND. OF BIT	Fair	
REAMER CUTTER NO.		
TYPE		

HRS. DRLD	CORE NO	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5		2381	2478		110	30	750	7½	48			

DEVIATION RECORD: DEPTH 2391 DEV 2°

REMARKS

½	Drill 7⅞" hole	4:00–4:30
¼	Run Survey	4:30–4:45
1¾	Trip to change bits	4:45–6:30
¼	Break circ & clean to bottom	6:30–6:45
5¼	Drill 7⅞" hole	6:45–12:00

MUD RECORD

TIME / WEIGHT / VISC. / W.L.-C.C. / FLTR. CK / PH / SD. CONT.: (blank)

MUD & CHEMICALS ADDED

TYPE	AMT.
Rayflo	50#
Caustic	25#

C.P.—38 **DAILY DRILLING REPORT** REPORT NO. 16 DATE FEB. 2/59

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60°6'17" N. LAT 118°28'30" W. Long.	KAKISA RIVER	2.	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
REGENT DRLG.	26.	1 4½	4½ OD	F.H.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO.	D-300	14.
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8⅝	28# H.40	0	706			500 SX + 2% c/c. in	lost 200 SX.

OPERATOR'S REPRESENTATIVE: [signature] CONTRACTOR'S TOOL PUSHER: J. Bote [signature]

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	6½	6	
REAMING			½
CIRCULATING		¼	
TRIPS	1	1¼	1¾
DEVIATION SURVEY	¼		
TEST B.O.P.		¼	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	¼	¼	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS.:

OPERATOR'S TIME:

HRS. W/D.P.:

HRS. WO/D.P.:

HRS. STANDBY

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1"
FEET SLIPPED	
FEET CUT OFF	NEW
PRESENT LENGTH	1350
TON MI. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. OR TRIPS	82
NO. OF DAYS FROM SPUD	7
CUMULATIVE ROTATING HRS.	60¼

MORNING TOUR

DRILLING ASSEMBLY

NO.		FT.
15	STANDS DP	
2.	SNGLS. DP	1421.34
18	D.C. 6" OD	418.66
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	KELLY DOWN	24.00
	TOTAL	1863.20
	WT OF STRING	50,000 LBS.

BIT RECORD

RUN NO.	2
SIZE	7⅞
MFG.	SEC.
TYPE	S3P.
NOZ. NO.	3
NOZ. SIZE	11/16
SER. NO.	327321
DEPTH OUT	1863
CUMULATIVE HOURS RUN	11¾
COND. OF BIT	DULL.
REAMER CUTTER NO.	
TYPE	

DRILLER: W. Howe [signature]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		1716	1863.		100	30	700	7½	52			1.

DEVIATION RECORD: DEPTH 1863. DEV 1°

REMARKS

12⁰⁰ 12¹⁵ SERV. RIG.

12¹⁵ 6⁴⁵ DRILL.

6⁴⁵ 7⁰⁰ DROP TOTCO + BLOW KELLY.

7⁰⁰ 8⁰⁰ HOIST BIT #2

MUD RECORD

TIME	12	4⁰⁰	6⁰⁰
WEIGHT	9.2	9.2	9.2
VISC	34	34	34
W.L.C.C.			
FLTR. CK.			
PH			9.0.
SD. CONT.			

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

DAY TOUR

DRILLING ASSEMBLY

NO.		FT.
17	STANDS DP	
1	SNGLS. DP	1572.50
15	D.C. 6" OD	418.66
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	KELLY DOWN	40.00
	TOTAL	2031.16
	WT OF STRING	54000 LBS.

BIT RECORD

RUN NO	3
SIZE	7⅞
MFG	SEC
TYPE	S3P
NOZ NO.	3
NOZ SIZE	11/16
SER. NO	326929
DEPTH OUT	
CUMULATIVE HOURS RUN	6
COND OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: J. McBride [signature]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6		1863	2031	LIME	100	30	700	7½	52			

DEVIATION RECORD: DEPTH 1863 DEV 1°

REMARKS

8⁰⁰ 8¹⁵ SERV. CLOSE BLIND RAMS

8¹⁵ 9³⁰ RUN IN

9³⁰ 9⁴⁵ BREAK CIRC. CLEAN TO BOTTOM

9⁴⁵ 1¹⁵ DRILLING 7⅞ HOLE

1¹⁵ 1³⁰ OPEN MIXER MIX MUD.

1³⁰ 4⁰⁰ DRILLING (MIX MUD)

MUD RECORD

TIME	10⁰⁰	12⁰⁰	2⁰⁰
WEIGHT	9.8	9.6	9.6
VISC	32	36	50
W.L.C.C.			
FLTR. CK			
PH	9		
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	25 SKS		
LYTRON	5 LBS		

EVENING TOUR

DRILLING ASSEMBLY

NO.		FT.
18	STANDS DP	
2	SNGLS. DP	1692.67
15	D.C. 6" OD	418.66
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	KELLY DOWN	37.00
	TOTAL	2148.33
	WT OF STRING	54,000 LBS.

BIT RECORD

RUN NO	3	4
SIZE	7⅞	7⅞
MFG	Sec	HTC
TYPE	S3P	OSC3
NOZ NO	3	3
NOZ SIZE	11/16	11/16
SER NO	327321	23466
DEPTH OUT	2121	
CUMULATIVE HOURS RUN	9½	
COND. OF BIT	Dull	
REAMER CUTTER NO.		
TYPE		

DRILLER: D. G. Lundy [signature]

HRS. DRLD	CORE NO	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5		2031	2151		120	15	700	7½	50			

DEVIATION RECORD: DEPTH 2121 DEV 1½°

REMARKS

¾ Drill 7⅞" hole 4:00-4:45

¼ rig service 4:45-5:00

2¾ Drill 7⅞" hole 5:00-7:45

¼ Drop Totco 7:45-8:00

1¾ trip to change bits 8:00-9:45

½ break circ + ream to bottom 9:45-10:15

1¾ Drill 7⅞" hole 10:15-12:00

MUD RECORD

TIME	6	8	10
WEIGHT	9.5	R	9.5
VISC.	45	I	42
W.L.C.C.		P	
FLTR. CK			
PH			8.5
SD. CONT.			

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

G.P.—38 DAILY DRILLING REPORT REPORT NO. 15 DATE FEB. 1/59

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60-61'7" N. LAT 118° 28'30" W. LONG.	KAKISA RIVER	2.	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
REGENT DRLG.	26	1 4½	4½ OD	F.H.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco.	D-300	14"
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8⅝	28# H.40	0	708			500	+2% Ca. in last 200 SX.

OPERATOR'S REPRESENTATIVE: J. Stewart
CONTRACTOR'S TOOL PUSHER: J. Gates

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	6½	5¾	
REAMING			
CIRCULATING			
TRIPS		1¼	
DEVIATION SURVEY	¼	¾	
TEST B.O.P.		¼	
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	1¼		
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)
CONTRACTOR'S TIME HRS:
OPERATOR'S TIME:
HRS. W/D.P.:
HRS. WO/D.P.:
HRS. STANDBY

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1"
FEET SLIPPED	
FEET CUT OFF	NEW
PRESENT LENGTH	1350
TON MI. or TRIPS SINCE LAST CUT	37
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	6
CUMULATIVE ROTATING HRS.	43¾

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
6	STANDS DP		RUN NO.	1
1	SNGLS. DP	573.92 FT.	SIZE	7⅞
18	D.C. 6" OD	418.66	MFG.	H.T.
	RMR BODY OD		TYPE	OSC3.
	STB BODY OD		NOZ. NO.	3
	SUBS OD		NOZ. SIZE	11/16
	BIT OR C.B.		SER. NO.	59482
			DEPTH OUT	
	KELLY DOWN	24.00 FT.	CUMULATIVE HOURS RUN	6½
	TOTAL	1016.58 FT.	COND. OF BIT	RUNNING
	WT. OF STRING	43,000 LBS.	REAMER CUTTER NO. / TYPE	

DRILLER: W. A. Howe

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		710.	1016.		160	20	600.	7½	62.			1.

DEVIATION RECORD: DEPTH 920. DEV 0

REMARKS
12⁰⁰–1¹⁵ INSTALL GEOLOGRAPH.
1¹⁵–6³⁰ DRILL.
6³⁰–6⁴⁵ SURVEY @ 920.
6⁴⁵–8⁰⁰ DRILL.

MUD RECORD

TIME	2⁰⁰	4⁰⁰	6⁰⁰
WEIGHT	8.5	8.6	8.6
VISC	28	28	28
W.L.C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED: BICARB. 200#; SAPP. 50#

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
12	STANDS DP	1087.86 FT.	RUN NO	1
	SNGLS. DP		SIZE	7⅞
15	D.C. 6 OD	418.66	MFG	H.T.
	RMR BODY OD		TYPE	OSC3
	STB BODY OD		NOZ NO.	3
	SUBS OD		NOZ SIZE	11/16
	BIT OR C.B.		SER. NO	59482
			DEPTH OUT	1546
	KELLY DOWN	40.00 FT	CUMULATIVE HOURS RUN	12¼
	TOTAL	1546.52	COND OF BIT	Dull
	WT. OF STRING	50,000 LBS.	REAMER CUTTER NO. / TYPE	

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¾		1016	1546	SHALE LIME	165	25000	700	7½	54			

DEVIATION RECORD: DEPTH 1170 DEV ¼°; DEPTH 1425 DEV ¼°

REMARKS
8⁰⁰–8¹⁵ SERV. RIG
8¹⁵–10¹⁵ DRILL 7⅞" HOLE
10¹⁵–10⁴⁵ SERV. SWIVEL RUN SURVEY @ 1170' ¼°
10⁴⁵–1⁰⁰ DRILL 7⅞" HOLE
1⁰⁰–1¹⁵ RUN SURVEY @ 1425' ¼°
1¹⁵–2⁴⁵ DRILL 7⅞" HOLE
2⁴⁵–4⁰⁰ PULL OUT (TIGHT HOLE 710'–869')

MUD RECORD

TIME	8⁰⁰	10⁰⁰	12⁰⁰
WEIGHT	8.8	8.8	9.2
VISC	29	29	29
W.L.C.C.			
FLTR. CK			
PH	9.5 10 AM	9.0 1 P.M.	
SD. CONT			

MUD & CHEMICALS ADDED: SAPP. 50#; BICARB 100#

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
14	STANDS DP	1270.04 FT.	RUN NO	2.
	SNGLS. DP		SIZE	7⅞
15	D.C. 6" OD	418.66	MFG	Sec
	RMR BODY OD		TYPE	S3P
	STB BODY OD		NOZ NO	3
	SUBS OD		NOZ SIZE	11/16
	BIT OR C.B.		SER NO	32771
			DEPTH OUT	
	KELLY DOWN	29.00 FT.	CUMULATIVE HOURS RUN	5¼
	TOTAL	1716.70 FT	COND. OF BIT	Running
	WT. OF STRING	56,000 LBS.	REAMER CUTTER NO. / TYPE	

DRILLER: D. H. Trumble

HRS. DRLD	CORE NO	FROM	TO	FORMATION	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
5¼		1546	1716		160	35	700	7½	54			

DEVIATION RECORD: DEPTH 1697 DEV ⅛°

REMARKS
¾ Finish out 4:00–4:45
¾ Clean suction tank 4:45–5:30
¾ Run in 5:30–6:15
¼ Break circ. & clean to bottom 6:15–6:30
1¾ Drill 7⅞" hole 6:30–8:15
¼ Work on light plant 8:15–8:30
3½ Drill 7⅞" hole 8:30–12:00

MUD RECORD

TIME	6	8	10
WEIGHT		9.2	9.1
VISC.		43	34
W.L.C.C.			
FLTR. CK			
PH			9.0
SD. CONT.			

MUD & CHEMICALS ADDED: Cement 200#

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 14 DATE Jan 31st 1959

OPERATOR	LOCATION LSD.	SEC.	TWP	RGE.	W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	600-17" N LAT 118°-28' 30" W LONG					Shell Kakwa River	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD
Regent Drlg Co Ltd	26	2	4½	5¾ OD	F H

OPERATOR'S REPRESENTATIVE: J. Stewart

CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D300	14
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
	8 5/8"	28# H-40	0	706.0			500 sacks	+2% CaCl2 in last 200 sx.

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			2¼
REAMING			
CIRCULATING			
TRIPS			½
DEVIATION SURVEY			
TEST B.O.P.			3¾
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	8	8½	
FISHING	8		
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P:

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

DRILLING ASSEMBLY

NO.			
	STANDS DP		FT
	SNGLS. DP		FT.
	D.C ID		
	D.C OD		FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT OF STRING			LBS.

BIT RECORD

RUN NO.	
SIZE	
MFG.	
TYPE	
NOZ. NO.	
NOZ. SIZE	
SER. NO.	12:00-2:00 2
DEPTH OUT	2:00-8:00 6
CUMULATIVE HOURS RUN	
COND. OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: D H Lumbley

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			708'									

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

REMARKS: Turn off nuts on change over flange nipple up

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK.	
PH	
SD. CONT.	

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

DAY TOUR

DRILLING ASSEMBLY

NO.			
	STANDS DP		FT.
	SNGLS. DP		FT.
	D.C ID		
	D.C OD		FT
	RMR BODY OD		FT
	STB BODY OD		FT
	SUBS OD		FT
	BIT OR C.B		FT
			FT
	KELLY DOWN		FT
	TOTAL		FT
WT OF STRING			LBS.

BIT RECORD

RUN NO	
SIZE	
MFG	
TYPE	
NOZ NO.	
NOZ SIZE	
SER. NO	8:00-12:00 4
DEPTH OUT	12:00-3:00 3
CUMULATIVE HOURS RUN	3:00-4:00 1
COND OF BIT	
REAMER CUTTER NO.	
TYPE	

DRILLER: W A Haig

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			708'									

DEVIATION RECORD: DEPTH 670 | DEV ¼° | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS: NIPPLE UP. DIG MOUSE HOLE. REPAIR 2" LINE ON D-3W.

TOTAL DEPTH 708.

MUD RECORD

TIME	
WEIGHT	
VISC	
W.L.-C.C.	
FLTR. CK	
PH	
SD. CONT	

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

EVENING TOUR

DRILLING ASSEMBLY

NO.			
3	STANDS DP	2706.60	FT.
	SNGLS. DP		FT
15	D.C ID 6 OD	448.66	
	RMR BODY OD		FT
	STB BODY OD		FT
	SUBS OD		FT
	BIT OR C.B		FT
			FT
	KELLY DOWN	17.74	FT.
	TOTAL	710	FT
WT OF STRING		40,000	LBS.

BIT RECORD

RUN NO	1
SIZE	7⅞
MFG	HT.
TYPE	OSC3
NOZ NO	3
NOZ SIZE	16
SER. NO	594824
DEPTH OUT	708
CUMULATIVE HOURS RUN	24
COND. OF BIT	U
REAMER CUTTER NO.	U
TYPE	10 50 12 00

DRILLER: J M Bride

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
2¼		689	710	DRILLED OUT CEMENT	100	10,000	550	7½	62			

DEVIATION RECORD: DEPTH 670 | DEV ¼° | DIRECTION | DEPTH | DEV | DIRECTION | DEPTH | DEV | DIRECTION

REMARKS:

4 15	SERV. RIG
5 30	HOOK UP LINE TO BOWL PRESSURE UP BLIND RAMS
7 00	RUN IN
8 15	PRESSURE UP ON 4½ RAMS & HYDRIL
10 30	DRILLED OUT CEMENT

HYDRIL & B.O.P.S TESTED TO 1500# HELD OK FOR 15 MIN NO LEAKS IN BOP EQUIPMENT OR B.O.P. HYDRAULIC LINES

L. A. Whitehead

MUD RECORD

TIME	
WEIGHT	
VISC.	
W.L.-C.C.	
FLTR. CK	
PH	
SD. CONT.	

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

G.P.—38 DAILY DRILLING REPORT REPORT NO. 13 DATE Jan 30/59

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	100.6 17 N LAT 118° 28'30" W LONG	Shell Kakisa River	2	N. W. T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
Peace Drig Ltd	26	5 4 1/2	5 3/4 OD	FH

OPERATOR'S REPRESENTATIVE: [illegible signature]
CONTRACTOR'S TOOL PUSHER: [illegible signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8 5/8	28# H-40	Surf.	706.0'			500 sx. + 2% CaCl2 in the last 200 sx.	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	8	8	8
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)
CONTRACTOR'S TIME HRS:
OPERATOR'S TIME:
HRS. W/D.P.:
HRS. WO/D.P.:
HRS. STANDBY

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

MORNING TOUR

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)
			708'	
		PBTD	659'	

REMARKS:
12:00-8:00 2 W-O-C

DRILLER: D. [illegible signature]

DAY TOUR

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)
			708'	
		PBTD	659'	

REMARKS:
8:00-9:30 1 1/2 W.O.C.
9:30-4:00 6 1/2 WAIT ON CSG. BOWL FLANGE.

TOTAL DEPTH 708'

DRILLER: W. A. Howg

EVENING TOUR

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)
			708'	
		PBTD	659'	

REMARKS:
4:00-10:00 6 HR. WAIT ON FLANGE
10:00-12:00 2 HR. NIPPLE UP

DRILLER: G. McBride

C.P.—38/

DAILY DRILLING REPORT

REPORT NO. 12 **DATE** Jan 29/59

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60°2' 14"N - LAT 118°28'30" W. Long	Shell Kakisa River	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
Peace River Drlg Co Ltd	26	2 4½	5¾ OD	FH

OPERATOR'S REPRESENTATIVE: J.M. Stewart
CONTRACTOR'S TOOL PUSHER: J. Bates

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER
8⅝	28# H-40	Surf.	706.0			500 sx. + 2% $CaCl_2$ in last 200 sx.	

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS	3/4		
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	5¼	8	
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)
CONTRACTOR'S TIME HRS.
OPERATOR'S TIME:
HRS. W/D.P.
HRS. WO/D.P.
HRS. STANDBY

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

MORNING TOUR

DRILLING ASSEMBLY: STANDS DP; SNGLS. DP; D.C. ID/OD; RMR BODY OD; STB BODY OD; SUBS OD; BIT OR C.B.; KELLY DOWN; TOTAL; WT. OF STRING LBS.
BIT RECORD: RUN NO.; SIZE; MFG.; TYPE; NOZ. NO./SIZE; SER. NO.; DEPTH OUT; CUMULATIVE HOURS RUN; COND. OF BIT; REAMER CUTTER NO.; TYPE

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	S.P.M.	PUMP NO. 2 LINER SIZE	S.P.M.	METHOD PUMPS RUN
			708									

DEVIATION RECORD: DEPTH / DEV / DIRECTION

REMARKS
12:00-12:15 1/4 rig service
12:15-1:00 3/4 Pull out. Measured out. SLM - 708.0' = 708.0' No correction.
1:00-1:30 1/2 rig up to casing
1:30-6:00 4½ run casing. Ran 18 jts. (691.46') of 8⅝", 28#, H-40, New Smls. J & L Casing and landed @ 706.0' KB.
6:00-6:30 1/2 rig to circulate
6:30-8:00 1½ Circ & work pipe & thaw out Dowell cement units. Used Baker guide shoe & float collar.

DRILLER: D.K. Kumpf

MUD RECORD: TIME; WEIGHT; VISC; W.L.-C.C.; FLTR. CK.; PH; SD. CONT.
MUD & CHEMICALS ADDED: TYPE / AMT. / TYPE / AMT.

DAY TOUR

DRILLING ASSEMBLY: STANDS DP; SNGLS. DP; D.C. ID/OD; RMR BODY OD; STB BODY OD; SUBS OD; BIT OR C.B.; KELLY DOWN; TOTAL 710. FT; WT. OF STRING LBS.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)
			708'	
		PBTD.	659'	

DEVIATION RECORD:

DEPTH	DEV	DIRECTION
670	1°	

REMARKS
8:00-9:30 Mix CEMENT & Pump Plug. Cemented w/500 sx Canada Portland + 2% $CaCl_2$ in the last 200 sx. (slurry weight - 15.2#/gal.)
9:30-4:00 W.O.C. Bumped plug @ 9:22 AM. Jan. 29/59 with 750 psi. using mud. Estimate 10 bbl. cement returns to surface.
J.M. Stewart

MUD & CHEMICALS ADDED

TYPE	AMT.
Cement	500 sx
$CaCl_2$	4 sx.

DRILLER: W.A. Haug

EVENING TOUR

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)
			708'	
		PBTD.	659'	

REMARKS
4:00-12:00 W.O.C. 8 HRS.

DRILLER: J. McBride

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 4 DATE Jan 28/59

OPERATOR: Shell Oil Company of Canada, Limited

LOCATION LSD. 600, 6 SEC. 17 TWP N LAT 113°-25 RGE. W W LONG

WELL NAME: Shell Kakwa River No. 2

PROVINCE: N.W.T.

CONTRACTOR: Regent Drilling Co Ltd RIG No. 26

DRILL PIPE STRING NO. SIZE 2 4½ TOOL JOINT 5 3/4 OD TYPE THD FH

OPERATOR'S REPRESENTATIVE: [illegible]

CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D 300	14
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	TO	PERFORATIONS FROM	TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5½	6½	2¾
REAMING			
CIRCULATING			2
TRIPS		¼	2¾
DEVIATION SURVEY		¼	¼
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG	2¾		
CORING			
WIRE LINE LOGGING			
OTHER	¾	¾	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON/MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON-MI. or TRIPS

NO. OF DAYS FROM SPUD 2

CUMULATIVE ROTATING HRS. 31

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
1	STANDS DP	FT	RUN NO.	2A
1	SNGLS. DP	120.82 FT.	SIZE	12¼
15	D.C. ID 6" OD	418.66 FT.	MFG.	HTC
			TYPE	OSC1G
	RMR BODY OD	FT.	NOZ. NO.	3
	STB BODY OD	FT.	SIZE	3/4
BELL	SUBS OD	3.00 FT.	SER. NO.	24604
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	10¼
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER: D.H. Thumlert

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5½		461	560		160	10	700	7½	55			

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	500'	1¼°							

REMARKS

¼	rig service	12:00-12:15
1¼	Weld other jet	12:15-1:30
2	Drill 12¼" hole	1:30-3:30
¾	Work on mud pump	3:30-4:15
1¾	Drill 12¼" hole	4:15-6:00
¼	Run Survey	6:00-6:15
1¾	Drill 12¼" hole	6:15-8:00

MUD RECORD: TIME, WEIGHT, VISC, W.L.-C.C., FLTR. CK., PH, SD. CONT.

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

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
2	STANDS DP	179.85 FT.	RUN NO	2A.
	SNGLS. DP	FT.	SIZE	12¼
15	D.C. ID 6" OD	418.66 FT.	MFG	3.
			TYPE	5¼. OSC1G.
	RMR BODY OD	FT	NOZ NO.	3
	STB BODY OD	FT	SIZE	3/4.
1	SUBS 6" OD	3.00 FT	SER. NO	24604.
	BIT OR C.B	FT	DEPTH OUT	637.
		FT	CUMULATIVE HOURS RUN	16¾.
	KELLY DOWN	36.00 FT	COND OF BIT	O. DULL.
	TOTAL	637.51 FT	REAMER CUTTER NO.	
	WT OF STRING	40,000 LBS.	TYPE	

DRILLER: W.A. Hovey.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
6½		560.	637.		140	10	700	7½	55.			1

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	500	1¼°							

REMARKS

¼	SERV. RIG.	8:00-8:15
1	DRILL.	8:15-9:15
½	REPAIR PELLER JET.	9:15-9:45
5½	DRILL.	9:45-3:15
¼	DROP TOTCO.	3:15-3:30
½	HOIST BIT. #2A.	3:30-4:00

MUD RECORD: TIME, WEIGHT, VISC, W.L.-C.C., FLTR. CK, PH, SD. CONT

MUD & CHEMICALS ADDED: TYPE, AMT, TYPE, AMT

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
3	STANDS DP	270.60 FT.	RUN NO	3A
	SNGLS. DP	FT	SIZE	12¼
15	D.C ID 6 OD	418.66 FT	MFG	H.T.
			TYPE	OSC3
	RMR BODY OD	FT	NOZ NO	3
	STB BODY OD	FT	SIZE	3/4
	SUBS OD	FT	SER NO	RETIP
1	BIT OR C.B	3.00 FT	DEPTH OUT	708
		FT	CUMULATIVE HOURS RUN	2¾
	KELLY DOWN	15.74 FT.	COND. OF BIT	
	TOTAL	708.00 FT	REAMER CUTTER NO.	
	WT OF STRING	40000 LBS.	TYPE	

DRILLER: J. McBride

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
2¾		637	708		140	10000	500	7½	59			

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION
	670	1¾°							

REMARKS

¼	SERV.	4:00-4:15
¾	RUN IN	4:15-5:00
1	DRILL 12¼" HOLE	5:00-6:00
¼	SURVEY	6:00-6:15
1¾	DRILL 12¼" HOLE	6:15-8:00
2	TRIP	8:00-10:00
2	CIRC. (REPAIR AIRLINE) 1 HR.	10:00-12:00

MUD RECORD: TIME, WEIGHT, VISC., W.L.-C.C., FLTR. CK, PH, SD. CONT.

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

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 3 **DATE** June 27 1959

OPERATOR	LOCATION LSD. / SEC. / TWP / RGE. / W-	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6' 17" N LAT 118°-23	Shell Hakisa River	#2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
Trant Drlg Co Ltd	26	2 4½	5¾ OD	FH

OPERATOR'S REPRESENTATIVE: J M Stewart CONTRACTOR'S TOOL PUSHER: J Bate

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	5¾	5¾	4¼
REAMING			
CIRCULATING		¼	
TRIPS		1¼	2½
DEVIATION SURVEY		¼	½
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG	½		¾
CORING			
WIRE LINE LOGGING			
OTHER	1¾	½	¼
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.:

HRS. WO/D.P.:

HRS. STANDBY

WIRE LINE RECORD

REEL NO.	
NO. OF LINES / SIZE	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	1
CUMULATIVE ROTATING HRS.	15¾ HR.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	1A
	SNGLS. DP	FT.	SIZE	12¼"
8	D.C. 2¼ ID 6" OD	224.16 FT.	MFG.	HTC
	RMR BODY OD	FT.	TYPE	OSC3
	STB BODY OD	FT.	NOZ. NO.	3
FH	SUBS 4-70 OD	1.50 FT.	NOZ. SIZE	
	BIT OR C.B.	FT.	SER. NO.	26472
	BELL SUB	3.00 FT.	DEPTH OUT	
	KELLY DOWN	35.00 FT.	CUMULATIVE HOURS RUN	6¼
	TOTAL	263.66 FT.	COND. OF BIT	
	WT. OF STRING	20,000 LBS.	REAMER CUTTER NO. / TYPE	

DRILLER: D Trembley

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¾		44	263		140	20	400	7½	65			

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
100'	¾°		200'	1¾°	

REMARKS

1½	Dig rathole	12:00 - 1:30
1½	Drill 12¼" surface hole	1:30 - 3:00
¼	Run survey	3:00 - 3:15
3½	Drill 12¼" surface hole	3:15 - 6:45
½	work on pump & run survey	6:45 - 7:15
¾	Drill 12¼" surface hole	7:15 - 8:00

MUD RECORD: TIME / WEIGHT / VISC / W.L.C.C. / FLTR. CK. / PH / SD. CONT.

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

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
	STANDS DP	FT.	RUN NO.	1A.	2A.
	SNGLS. DP	FT.	SIZE	12¼	12¼
	D.C. ID		MFG.	H.T.	H.T.
13	D.C. 6" OD	364.00	TYPE	OSC3	OSUG
	RMR BODY OD	FT	NOZ. NO.	3	3
	STB BODY OD	FT	NOZ. SIZE	3/4"	3/4"
2.	SUBS 6" OD	4.50 FT	SER. NO.	26472	24604
	BIT OR C.B.	FT	DEPTH OUT	375'	
		FT	CUMULATIVE HOURS RUN	11½	½.
	KELLY DOWN	12.00 FT	COND. OF BIT	Dull	New
	TOTAL	380.50 FT.	REAMER CUTTER NO.		
	WT. OF STRING	23,000 LBS.	TYPE		

DRILLER: D. A. Howg

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
5¾		263	380.		140	4000	400	7½	65.			1.

DEVIATION RECORD:

DEPTH	DEV	DIRECTION
300	1°	

REMARKS

¼.	SERV. RIG.	8:00-8:15
2¼	DRILL.	8:15-10:30
½	SURVEY @ 300' & CLEAN VALVES IN D-300.	10:30-11:00
3.	DRILL.	11:00-2:00
1¼	TRIP. CHANGE BITS CLEAN VALVES IN D-300.	2:00-3:15
¼.	FIRE. CLEAN TO BTM.	3:15-3:30
½.	DRILL.	3:30-4:00

MUD RECORD: TIME / WEIGHT / VISC / W.L.C.C. / FLTR. CK / PH / SD. CONT

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

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	2A
	SNGLS. DP	FT	SIZE	12¼
	D.C. ID		MFG.	H.T
15	D.C. 6" OD	418.66	TYPE	OSUG
	RMR BODY OD	FT	NOZ. NO.	3
	STB BODY OD	FT	NOZ. SIZE	
1	SUBS OD	3.00 FT	SER. NO.	24604
	BIT OR C.B.	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	4¾
	KELLY DOWN	40.00 FT.	COND. OF BIT	
	TOTAL	461.66	REAMER CUTTER NO.	
	WT. OF STRING	34000 LBS.	TYPE	

DRILLER: G McBride

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
4¼		380	461		160	10000	650	7½	52			

DEVIATION RECORD:

DEPTH	DEV	DIRECTION
400	1°	

REMARKS

¼	SERV. RIG	4:00 - 4:15
4¼	DRILLING 12¼ HOLE	4:15 - 8:30
¼	SURVEY	8:30 - 8:45
2½	TRIP	8:45 - 11:15
¾	CHANGE VALVE ON MUDLINE	11:15 - 12:00

MUD RECORD: TIME / WEIGHT / VISC. / W.L.C.C. / FLTR. CK / PH / SD. CONT.

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

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 2 DATE Jan 26/59

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6' 17" N LAT 118°-28' W LONG	Shell Kakisa River #2	2	N. W. T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
Regent Drlg Co. Ltd	26	2 4½	5 ¾ OD	FH

OPERATOR'S REPRESENTATIVE: Per J M Stewart.

CONTRACTOR'S TOOL PUSHER: J Bates.

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco	D 300	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL	½	2	
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER	7½	6	8
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS	8	8	8

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:
OPERATOR'S TIME:
HRS. W/D.P:
HRS. WO/D.P:
HRS. STANDBY

WIRE LINE RECORD

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

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT	RUN NO.	1A
	SNGLS. DP	FT	SIZE	12¼
	D.C ID / OD	FT	MFG.	HTC
			TYPE	OSC3
	RMR BODY OD	FT	NOZ. NO.	3
	STB BODY OD	FT	NOZ. SIZE	½
	SUBS OD	FT	SER. NO.	26472
	BIT OR C.B.	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	½
	KELLY DOWN	FT	COND. OF BIT	NEW
	TOTAL	FT	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER: D H Grumbley

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
½		25'	30'		85		200	7½	65			

DEVIATION RECORD: (DEPTH / DEV / DIRECTION)

REMARKS

2½ Wait on fuel 12:00 - 2:30
5 Start floor & pump motors & prepare 2:30 - 7:30
to spud in
½ Spud in & Drill 12¼" surface hole 7:30 - 8:00.

MUD RECORD: TIME / WEIGHT / VISC / W.L.C.C. / FLTR. CK. / PH / SD. CONT.

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

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT	RUN NO	1A.
	SNGLS. DP	FT	SIZE	12¼
	D.C ID / OD	FT	MFG	H.T.
		FT	TYPE	OSC3
	RMR BODY OD	FT	NOZ NO.	3
	STB BODY OD	FT	NOZ SIZE	3/4"
7	SUBS OD	4.50 FT	SER. NO	26472.
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	1½
	KELLY DOWN	40.0 FT	COND OF BIT	NEW
	TOTAL	44.50 FT	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER: W. A. Howg.

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
1		36	44.50		85		200	7½	65			

DEVIATION RECORD: (DEPTH / DEV / DIRECTION)

REMARKS

1 THAW OUT WATER LINES 8:00 - 9:00
WASHED OUT COND. PIPE. 9:00 - 1:00
4 DIG CELLER HOOK UP CELLER JET & MIX MUD & SAW DUST.
½ DRILL 12¼" HOLE. 1:00 - 1:30
½ MIX MUD & LOSS CIRC. MATERIAL. 1:30 - 2:00
½ DRILL 12¼" HOLE. 2:00 - 2:30
1½ RIG TO DIG RAT HOLE & MIX MUD & LOSS CIRC. MATERIAL 2:30 - 4:00 P.M.

MUD RECORD: TIME / WEIGHT / VISC / W.L.C.C. / FLTR. CK / PH / SD. CONT

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	45 sx.		
Fibre Seal	17 (Mil Fiber)		
Sawdust	25 (Creviseal)		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT	RUN NO	1A
	SNGLS. DP	FT	SIZE	12¼
	D.C ID / OD	FT	MFG	H.T
		FT	TYPE	OSC3
	RMR BODY OD	FT	NOZ NO	3
	STB BODY OD	FT	NOZ SIZE	3/4"
	SUBS OD	FT	SER NO	26472
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	1½
	KELLY DOWN	FT	COND. OF BIT	NEW
	TOTAL	FT	REAMER CUTTER NO.	
	WT OF STRING	LBS.	TYPE	

DRILLER: J McBride

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S P M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
			44.									

DEVIATION RECORD: (DEPTH / DEV / DIRECTION)

REMARKS

¼ HR. SERV. RIG 4:00 - 4:15
7¾ HR. DIG RAT HOLE 4:15 - 12:00

MUD RECORD: TIME / WEIGHT / VISC. / W.L.C.C. / FLTR. CK / PH / SD. CONT.

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

C.P.-138

DAILY DRILLING REPORT

REPORT NO. 8 DATE JAN. 25/59.

OPERATOR	LOCATION LSD	SEC	TWP	RGE	W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6'17" N. Lat.		118° 28' 30" W. Long.			SHELL KAKISA RIVER	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD
REGENT DRLG. CO. LTD.	26	2	4 1/2	5 3/4 OD	FH

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
J. McStewart	J. Bate

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO D-300	7 1/2 x	14
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON-MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: [illegible]

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M	METHOD PUMPS RUN
			25'									

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

12:00-8:00 W at on fuel

MUD RECORD			
TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT	MFG	
			TYPE	
	RMR BODY OD	FT	NOZ NO.	
	STB BODY OD	FT	SIZE	
	SUBS OD	FT	SER. NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT	COND OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: W.A. Hourg

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M	METHOD PUMPS RUN
			25'									

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8:00-4:00 WAIT ON FUEL

MUD RECORD			
TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT	SIZE	
	D.C ID / OD	FT	MFG	
			TYPE	
	RMR BODY OD	FT	NOZ NO	
	STB BODY OD	FT	SIZE	
	SUBS OD	FT	SER NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER: G. McBride

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
			25'									

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

4:00-12:00 WALTON DIESEL FUEL 8 HRS.

MUD RECORD			
TIME			
WEIGHT			
VISC.			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 7 DATE JAN. 24/58.

OPERATOR	LOCATION LSD.	SEC.	TWP	RGE.	W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6' 17" N. Lat			118° 28' 30" W. Long		SHELL KAKISA RIVER	2	N. W. T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	OD	TYPE THD
REGENT DRILLING Co. LTD.	26	2	4 1/2	5 3/4		FH

OPERATOR'S REPRESENTATIVE: [illegible]

CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-300	7 1/2 x 14
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO.	
	SNGLS. DP		FT.	SIZE	
	D.C	ID		MFG.	
		OD	FT.	TYPE	
	RMR BODY	OD	FT.	NOZ. NO.	
	STB BODY	OD	FT.	SIZE	
	SUBS	OD	FT.	SER. NO.	
	BIT OR C.B.		FT.	DEPTH OUT	
			FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN		FT.	COND. OF BIT	
	TOTAL		FT.	REAMER CUTTER NO.	
	WT OF STRING		LBS.	TYPE	
	DRILLER				

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			25'									

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

12:00 - 2:00 Finish cementing conductor pipe.
2:00 - 8:00 W.O.C. Completed rigging up.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO	
	SNGLS. DP		FT.	SIZE	
	D.C.	ID		MFG	
		OD	FT	TYPE	
	RMR BODY	OD	FT	NOZ NO.	
	STB BODY	OD	FT	SIZE	
	SUBS	OD	FT	SER. NO	
	BIT OR C.B		FT	DEPTH OUT	
			FT	CUMULATIVE HOURS RUN	
	KELLY DOWN		FT	COND OF BIT	
	TOTAL		FT	REAMER CUTTER NO.	
	WT OF STRING		LBS.	TYPE	
	DRILLER				

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			25'									

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8:00 - 4:00 Waiting on fuel

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

EVENING TOUR

NO.	DRILLING ASSEMBLY			BIT RECORD	
	STANDS DP		FT.	RUN NO	
	SNGLS. DP		FT	SIZE	
	D.C	ID		MFG	
		OD	FT	TYPE	
	RMR BODY	OD	FT	NOZ NO	
	STB BODY	OD	FT	SIZE	
	SUBS	OD	FT	SER NO	
	BIT OR C.B		FT	DEPTH OUT	
			FT	CUMULATIVE HOURS RUN	
	KELLY DOWN		FT.	COND. OF BIT	
	TOTAL		FT	REAMER CUTTER NO.	
	WT OF STRING		LBS.	TYPE	
	DRILLER				

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
			25'									

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

4:00 - 12:00 Waiting on fuel.

MUD RECORD

TIME			
WEIGHT			
VISC.			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 6 DATE JAN. 23/59.

OPERATOR	LOCATION LSD.	SEC.	TWP.	RGE.	W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60°6'17" N. Lat.		118°	28'30"	W. Long.	SHELL KAKISA RIVER	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
REGENT DRLG. CO. LTD.	26	2 4/2	5 3/4 OD	FH.

OPERATOR'S REPRESENTATIVE: Jim Stewart

CONTRACTOR'S TOOL PUSHER: J. Bate

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-300	7½ x 14
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P:

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C ID		MFG.	
	OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			25'									

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

12:00 - 8:00 Rigging up. Waiting on cement and welder to arrive.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID		MFG	
	OD	FT	TYPE	
	RMR BODY OD	FT	NOZ NO.	
	STB BODY OD	FT	SIZE	
	SUBS OD	FT	SER. NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT	COND OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			25'									

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8:00 - 4:00 Rigging up. Waiting on cement and welder to arrive.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT	SIZE	
	D.C ID		MFG	
	OD	FT	TYPE	
	RMR BODY OD	FT	NOZ NO	
	STB BODY OD	FT	SIZE	
	SUBS OD	FT	SER NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
			25'									

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4:00 - 7:00 Unload cement & welder. Spot fuel tanks.
7:00 - 10:30 Start welder & weld conductor pipe.
10:30 - 12:00 Cement 20" conductor pipe @ 25' K.B. w/ 58 sx. Canada Portland plus 2½% calcium chloride.

MUD RECORD

TIME			
WEIGHT			
VISC.			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT
Cement	58 sx.		
CaCl2	1½ sx.		

C.P.—38 **DAILY DRILLING REPORT** REPORT NO. 5 DATE JAN. 22/59.

OPERATOR	LOCATION LSD.	SEC.	TWP	RGE.	W4	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6' 17" N. Lat.	118°	28'	30' W. Long.		SHELL KAKISA RIVER	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
RESENT DRILLING CO. LTD	26	2 4½	5¾ OD	FH

OPERATOR'S REPRESENTATIVE: [signature]

CONTRACTOR'S TOOL PUSHER: [signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-300	7½ x 14
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

MORNING TOUR

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			

DRILLING ASSEMBLY

NO.			
	STANDS DP		FT.
	SNGLS. DP		FT.
	D.C. ID / OD		FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	KELLY DOWN		FT.
	TOTAL		FT.
WT OF STRING			LBS.

DRILLER

BIT RECORD

RUN NO.		
SIZE		
MFG.		
TYPE		
NOZ. NO.		
NOZ. SIZE		
SER. NO.		
DEPTH OUT		
CUMULATIVE HOURS RUN		
COND. OF BIT		
REAMER CUTTER NO.		
TYPE		

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

DRILLING ASSEMBLY

NO.			
	STANDS DP		FT.
	SNGLS. DP		FT.
	D.C. ID / OD		FT
	RMR BODY OD		FT
	STB BODY OD		FT
	SUBS OD		FT
	BIT OR C.B		FT
			FT
	KELLY DOWN		FT
	TOTAL		FT
WT OF STRING			LBS.

DRILLER

BIT RECORD

RUN NO		
SIZE		
MFG		
TYPE		
NOZ NO.		
NOZ SIZE		
SER. NO		
DEPTH OUT		
CUMULATIVE HOURS RUN		
COND OF BIT		
REAMER CUTTER NO.		
TYPE		

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
			25									

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8:00 - 4:00 - Rigging up, waiting on cement and welder for conductor pipe.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

WIRE LINE RECORD

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

TIME SUMMARY (OFFICE USE ONLY)	
CONTRACTOR'S TIME HRS.	
OPERATOR'S TIME:	
HRS. W/D.P.	
HRS. WO/D.P.	
HRS. STANDBY	

EVENING TOUR

DRILLING ASSEMBLY

NO.			
	STANDS DP		FT.
	SNGLS. DP		FT
	D.C. ID / OD		FT
	RMR BODY OD		FT
	STB BODY OD		FT
	SUBS OD		FT
	BIT OR C.B		FT
			FT
	KELLY DOWN		FT.
	TOTAL		FT
WT OF STRING			LBS.

DRILLER

BIT RECORD

RUN NO		
SIZE		
MFG		
TYPE		
NOZ NO		
NOZ SIZE		
SER NO		
DEPTH OUT		
CUMULATIVE HOURS RUN		
COND. OF BIT		
REAMER CUTTER NO.		
TYPE		

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN
			25'									

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

4:00-12:00 Rigging up. Waiting for cement and welder.

MUD RECORD

TIME			
WEIGHT			
VISC.			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

C.P.—38 **DAILY DRILLING REPORT** REPORT NO. 4 DATE JAN. 21/59.

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60°6'17" N. Lat. 118°28'30" W. Long.	SHELL KAKISA RIVER	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO.	SIZE	TOOL JOINT	TYPE THD
REGENT DRILLING CO. LTD.	26	2	4½	5 3/4 OD	FH.

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
[signature]	[signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-300	7½ x 14
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT	MFG	
			TYPE	
	RMR BODY OD	FT	NOZ NO.	
	STB BODY OD	FT	SIZE	
	SUBS OD	FT	SER. NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT	COND OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN
		0	25									

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8:00 - 6:00 PM.

- Rigging up.
- Drilled 30" conductor hole to 25' KB.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT	SIZE	
	D.C ID / OD	FT	MFG	
			TYPE	
	RMR BODY OD	FT	NOZ NO	
	STB BODY OD	FT	SIZE	
	SUBS OD	FT	SER NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN

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

REMARKS

MUD RECORD

TIME			
WEIGHT			
VISC.			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

C.P.—38 **DAILY DRILLING REPORT** REPORT NO. 3 DATE JAN. 20/59.

OPERATOR	LOCATION LSD. SEC. TWP RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60°6'17" N. Lat. 118°28'30" W. Long.	SHELL KAKISA RIVER	2	N. W. T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
REGENT DRILLING Co. LTD.	26	2 4½	5 3/4 OD	F.H.

OPERATOR'S REPRESENTATIVE: [illegible]

CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-300	7½ x 14
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P:

HRS. WO/D.P:

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MILES or TRIPS SINCE LAST CUT

CUMULATIVE TON MILES or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C ID		MFG.	
	D.C OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID		MFG	
	D.C OD	FT	TYPE	
	RMR BODY OD	FT	NOZ NO.	
	STB BODY OD	FT	NOZ SIZE	
	SUBS OD	FT	SER. NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT	COND. OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8:00 to 6:00 P.M.

- Rigging up.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT	SIZE	
	D.C ID		MFG	
	D.C OD	FT	TYPE	
	RMR BODY OD	FT	NOZ NO	
	STB BODY OD	FT	NOZ SIZE	
	SUBS OD	FT	SER NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

MUD RECORD

TIME			
WEIGHT			
VISC.			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

C.P.—38

DAILY DRILLING REPORT

REPORT NO. 2 DATE JAN. 19/59

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60°6'17" N. Lat. 118°28'30" W. Long.	SHELL KAKISA RIVER	2	N.W.T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
REGENT DRILLING CO. LTD.	26	2 4½	5 3/4 OD	FH.

OPERATOR'S REPRESENTATIVE: [illegible]

CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	EMSCO	D-300	7½ x 14
2.			
3.			

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C ID		MFG.	
	D.C OD	FT.	TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	NOZ. SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	
DRILLER				

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

MUD RECORD			
TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C ID		MFG	
	D.C OD	FT	TYPE	
	RMR BODY OD	FT	NOZ NO.	
	STB BODY OD	FT	NOZ SIZE	
	SUBS OD	FT	SER. NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT	COND OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	
DRILLER				

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M	METHOD PUMPS

DEVIATION RECORD:	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8:00 AM to 5:00 PM

- Rigging up.

MUD RECORD			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT	SIZE	
	D.C ID		MFG	
	D.C OD	FT	TYPE	
	RMR BODY OD	FT	NOZ NO	
	STB BODY OD	FT	NOZ SIZE	
	SUBS OD	FT	SER NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	
DRILLER				

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN

DEVIATION RECORD-	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

MUD RECORD			
TIME			
WEIGHT			
VISC.			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED TYPE	AMT.	TYPE	AMT

C.P.—38 **DAILY DRILLING REPORT** REPORT NO. 1 DATE JAN. 18/59.

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W	WELL NAME	No.	PROVINCE
Shell Oil Company of Canada, Limited	60° 6' 17" N. Lat. 118° 28' 30" W. Long.	SHELL KAKISA RIVER	2	N. W. T.

CONTRACTOR	RIG No.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	TYPE THD
REGENT DRLG. Co. LTD	26	2 3/4	5 3/4 OD	FH.

OPERATOR'S REPRESENTATIVE: [signature]

CONTRACTOR'S TOOL PUSHER: X [signature]

PUMPS

NO.	MANUFACTURER	TYPE	STROKE LENGTH
1.	Emsco D-300	7 1/2 x	14
2.			
3.			

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	PERFORATIONS FROM	PERFORATIONS TO	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	MORN	DAY	EVE
DRILLING ACTUAL			
REAMING			
CIRCULATING			
TRIPS			
DEVIATION SURVEY			
TEST B.O.P.			
CUT OFF DRILL LINE			
REPAIR RIG			
CORING			
WIRE LINE LOGGING			
OTHER			
FISHING			
COMPLETING (A) PERFORATING			
(B) RUNNING TUBING			
(C) SWABBING			
(D) TESTING			
(E) ACIDIZING			
(F) ADDITIONAL			
TOTALS			

TIME SUMMARY (OFFICE USE ONLY)

CONTRACTOR'S TIME HRS:

OPERATOR'S TIME:

HRS. W/D.P.

HRS. WO/D.P.

HRS. STANDBY

WIRE LINE RECORD

REEL NO.

NO. OF LINES SIZE

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH

TON MI. or TRIPS SINCE LAST CUT

CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO.	
	SNGLS. DP	FT.	SIZE	
	D.C ID / OD	FT.	MFG.	
			TYPE	
	RMR BODY OD	FT.	NOZ. NO.	
	STB BODY OD	FT.	SIZE	
	SUBS OD	FT.	SER. NO.	
	BIT OR C.B.	FT.	DEPTH OUT	
		FT.	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT.	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

Moving in and setting up camp.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK.			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT.	SIZE	
	D.C. ID / OD	FT	MFG	
			TYPE	
	RMR BODY OD	FT	NOZ NO.	
	STB BODY OD	FT	SIZE	
	SUBS OD	FT	SER. NO	
	BIT OR C.B	FT.	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT	COND OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD.	CORE NO.	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT. ON BIT 1000#	PUMP PRESS	PUMP NO. 1 LINER SIZE	PUMP NO. 1 S.P.M	PUMP NO. 2 LINER SIZE	PUMP NO. 2 S.P.M.	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

REMARKS

8:00 - 4:00

Moving in and setting up camp.

MUD RECORD

TIME			
WEIGHT			
VISC			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	RUN NO	
	SNGLS. DP	FT	SIZE	
	D.C ID / OD	FT	MFG	
			TYPE	
	RMR BODY OD	FT	NO	
	STB BODY OD	FT	SIZE	
	SUBS OD	FT	SER NO	
	BIT OR C.B	FT	DEPTH OUT	
		FT	CUMULATIVE HOURS RUN	
	KELLY DOWN	FT.	COND. OF BIT	
	TOTAL	FT	REAMER CUTTER NO.	
WT OF STRING		LBS.	TYPE	

DRILLER

HRS. DRLD	CORE NO	FROM	TO	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M	WT ON BIT 1000#	PUMP PRESS	PUMP NO 1 LINER SIZE	PUMP NO 1 S.P.M	PUMP NO 2 LINER SIZE	PUMP NO 2 S.P.M	METHOD PUMPS RUN

DEVIATION RECORD:

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION

REMARKS

~~Moving in and setting up camp~~

MUD RECORD

TIME			
WEIGHT			
VISC.			
W.L.-C.C.			
FLTR. CK			
PH			
SD. CONT.			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT

WELL VELOCITY GRAPHS

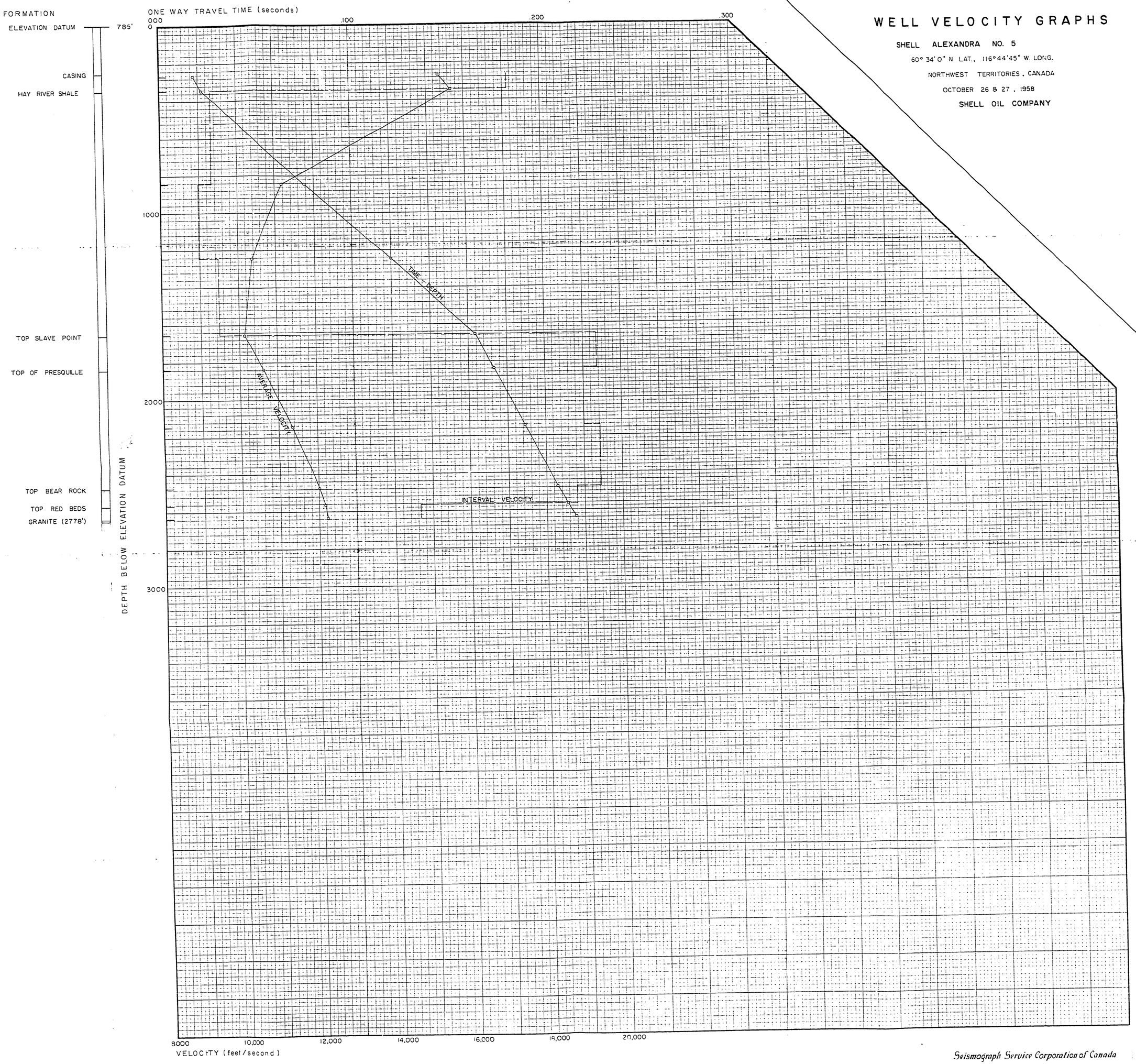
SHELL ALEXANDRA NO. 5

60° 34' 0" N LAT., 116°44'45" W. LONG.

NORTHWEST TERRITORIES, CANADA

OCTOBER 26 & 27, 1958

SHELL OIL COMPANY



Seismograph Service Corporation of Canada

Velocity Survey Report
on
SHELL KAKISA RIVER NO. 2

by
S.S.C.

DA-51

CONTINUOUS VELOCITY LOG

a n d

GEOPHONE SURVEY

SHELL KAKISA RIVER No. 2

60°06'17"N. Lat.

118°28'30"W. Long.

NORTHWEST TERRITORIES, CANADA

f o r

SHELL OIL COMPANY OF CANADA LIMITED

EDMONTON, ALBERTA

Seismograph Service Corporation of Canada

Calgary, Alberta

DEPT. OF NORTHERN AFFAIRS & NATIONAL RESOURCES
CALGARY, ALBERTA
MAR 11 1960
OIL CONSERVATION ENGINEER
Northwest Territories & Yukon Territory

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APPENDICES

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III A ELEVATION CORRECTIONS

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VI REFLECTION IDENTIFICATION CALCULATIONS

VII REFLECTION RECORD

VIII C.V.L. - GEOPHONE SURVEY DEVIATION GRAPH

IX UPHOLE VELOCITY SURVEY GRAPHS

IX A UPHOLE VELOCITY SURVEY DATA

INTRODUCTION

A survey was conducted on February 24, 1959, to determine the subsurface seismic velocities at the Shell Kakisa River No. 2 Well located at 60°06'17"N. Lat., 118°28'30"W. Long., Northwest Territories, Canada.

Both standard well geophone and continuous velocity logging methods were used to make this survey. The logging sonde and the pressure sensitive diaphragm-type geophone were coupled together and run on a Schlumberger cable into the well, which had been drilled to a depth of 5677 feet with casing set to 707 feet. Due to bottom hole conditions in the well, 5669 feet was the maximum depth reached by the survey.

The well and cable truck were made available to the crew at 15:30 on February 24, 1959, and the geophone survey commenced at 15:35 with the firing of the first shot. The last shot was fired at 19:10 after which the Continuous Velocity Log was run and all operations were completed by 23:30.

There were no operational difficulties encountered during the survey and the results obtained are considered to be reliable.

FIELD PROCEDURE

The geophone survey was run first as the bore hole instruments were lowered to the bottom of the well and ten levels were tested. For each level, the geophone was lowered at least 50 feet below the desired depth and then slowly raised to the proper place, so that in all cases its last movement was upward. All depth measurements were obtained by the standard measuring device of the cable truck and were referred to the kelly bushing at an elevation of 2188 feet above sea level.

Shot holes were drilled to a depth of 60 feet and located between 505 and 630 feet from the well as shown in the Shooting Plan, Appendix II. Two additional holes B & G located 555 and 595 feet respectively from the well were drilled to a depth of 120 feet to accommodate sub-shot reference geophones. Dynamite charges used varied from 5/8 of a pound to 2 1/2 pounds.

The polarity of the well geophone was arranged so that all "first breaks" would be downward. The trace arrangement used on the velocity test records is as follows:

Trace #1	Travel time from shot to well geophone - low gain

Trace #2	Travel time from shot to well geophone - medium gain
Trace #3	Travel time from shot to well geophone - high gain
Trace #4	Time break or shot instant
Trace #5	Uphole or vertical time in shot hole
Trace #6	Sub-shot reference geophone
Traces #7 to #12	Reflection profile from surface geophones

The three amplifiers, recording the output of the well geophone, were adjusted to a frequency response band of 18 to 120 cycles per second at 70.7 percent amplitude response. Automatic level control was not used on these traces.

A six station reflection spread was laid northeast from the well as shown in the Shooting Plan and was recorded simultaneously with each velocity test shot. At the completion of the survey, a twelve station reflection spread laid northeast from the well was recorded from shots fired in Shot Point A. Three geophones were used per trace and station intervals were maintained at 60 feet for both spreads. Due to equipment damage caused by tracked equipment on the lease, only eleven of the twelve stations making up

the reflection spread could be recorded.

The amplifiers, recording the surface geophone spread, were adjusted to a filter setting which gave a frequency response band of approximately 37 to 84 cycles per second at 70.7 percent amplitude response for the specimen record. The outputs of these amplifiers were not mixed.

Immediately after the last shot completing the geophone portion of the survey, the Continuous Velocity Log was obtained as the instruments were raised from the bottom of the bore hole. The logging speed was such that at least ten to twenty overlapping measurements were taken for each foot of travel. The log was run from a depth of 5669 feet to the foot of the surface casing at 707 feet below the kelly bushing.

At the completion of the Continuous Velocity Logging run, two separate near surface velocity surveys were recorded. A crystal geophone cable was suspended in holes B and G and subsurface travel times were recorded from shots fired in Shot Point A and Shot Point I. The results of these surveys appear in Appendices IX and IX A.

INTERPRETATION and RESULTS

Velocity Determination

Twenty-one velocity test reoords are submitted in Appendix V.

The calculation of velocities from these data was based on the assumption of straight line paths of energy travel from shot to well geophone. The observed "first break" times of the well geophone traces were converted to vertical travel times by application of the cosine function:

$$\cos i = \cos \arctan X/(Z + de)$$

The vertical travel times were then reduced to an elevation datum of 2055 feet above sea level coincident with the elevations of the two sub-shot reference geophones. Elevation corrections were computed from the reference geophone arrival times by the application of an appropriate cosine function. The method and calculations appear in Appendix III A.

The subsurface velocity calculations are shown in Appendix III. Final time-depth, average velocity and interval velocity curves are shown in Appendix IV.

Reflection Identification

An eleven trace reflection record is submitted in Appendix VII to permit evaluation of the velocity data with respect to reflection arrival times. This record was shot from Shot Point A and recorded on the geophone spread laid northeast from the well.

Reflection identification times (T_R) were computed for the geophone nearest the shot point, using the following equation:

$$T_R = 2Tc + \Sigma t$$

These calculations are shown in Appendix VI and times obtained were plotted against the reflection record, Appendix VII. These times represent the "first break" arrival times only. As such, they will lead the true reflection trough times by an amount which is a function of frequency and attenuation of the reflected energy, both influenced by ground and instrumental factors.

Continuous Velocity Log

Single and two receiver Continuous Velocity Logs were recorded simultaneously in the field and a calibrated copy, traced from the field original is enclosed in the pocket of the back cover of this report. The log consists of four curves:

1) Interval Velocity Curves:

These curves are the continuous recording in microseconds of the interval time through formation distances of 6.0000 feet for the single receiver curve and 3.0000 feet for the two receiver curve. These times can be read as interval velocity on the appropriate scale at the top of the log.

2) Integrated Curves:

Integrated time was derived from both interval velocity curves by an automatic integrating device. The results have been calibrated to the geophone survey and total travel times over any section of the log may be obtained from the single or two receiver log.

The integrated time for the interval velocity curves appears as two diagonal lines moving to the right on the log with increasing depth. The integrated time scale has been selected as two milliseconds per 0.1 inch, as shown on the appropriate scale at the top of the log. Each cycle of the re-

cording pen increases the time scale by 100 milliseconds.

During the drafting process noise spikes and other spurious events were removed. No allowance was made in the field for the effects of mud delay, formation invasion, and other bore hole factors affecting the delay time normally encountered with Continuous Velocity Logs. The log was calibrated by comparing the integrated times of the Continuous Velocity Log with the time-depth curve of the geophone survey. The time difference at each level tested by the well geophone was plotted against depth and the results appear in Appendix VIII. The resulting slopes indicate that the single receiver curve required a mud delay time of 82 microseconds from total depth to 4000 feet and 105 microseconds from 4000 feet to the foot of the surface casing at 707 feet below the kelly bushing.

Comparison of the interval velocities recorded by the geophone survey and the two receiver log indicated that the logged velocities were in excess of the true formation velocities. To decrease the interval velocity, the curve was shifted towards the

low velocity end of the scale by an amount of 32 microseconds.

The following tabulation shows the deviation between the well geophone data and the corrected integrated times which were calibrated to a geophone check shot at the 5648 foot level.

		Single Receiver Log		Two Receiver Log	
Depth (K.B.)	Tc (Geo)	Tc (Log)	ΔF	Tc (Log)	ΔF
1530	.1975	.1984	+.0009	.1973	-.0002
2100	.2340	.2321	-.0019	.2333	-.0007
2745	.2745	.2724	-.0021	.2757	+.0012
3350	.3375	.3379	+.0004	.3383	+.0008
4000	.4030	.4025	-.0005	.4026	-.0004
4765	.4670	.4672	+.0002	.4663	-.0007
4964	.4765	.4774	+.0009	.4770	+.0005
5300	.4940	.4939	-.0001	.4941	+.0001
5648	.5135	.5135	.0000	.5135	.0000

Inspection of the table shows reasonable agreement between the data at all levels tested and the Continuous Velocity Log is

considered to be reliable.

Respectfully submitted,

Seismograph Service Corporation
of Canada

By

D. R. F. Hargrave - Supervisor

March 20, 1959

APPROVED:

By G. E. Blackledge

G. E. Blackledge
Manager of Velocity Logging

DRFH/mm

S.P.	ELEVATION	DISTANCE	DIRECTION FROM WELL	S.P.	ELEVATION	DISTANCE	DIRECTION FROM WELL
A	2173	585	N 66° 00' E	G	2172	595	S 63° 45' W
B	2173	555	N 66° 00' E	H	2172	630	S 66° 15' W
C	2174	505	N 63° 00' E	I	2171	600	S 66° 15' W
D	2174	535	N 64° 15' E	J	2172	570	S 66° 15' W
E	2173	565	N 64° 30' E	K	2171	540	S 66° 15' W
F	2173	595	N 64° 15' E				

WELL ELEVATION
K.B. 2188 feet

TOTAL DEPTH
5677 feet

CASING RECORD
707 feet

ELEVATION DATUM
2055 feet above sea level

ELEVATION VELOCITY
feet / second

WELL NAME: SHELL KAKISA RIVER NO. 2

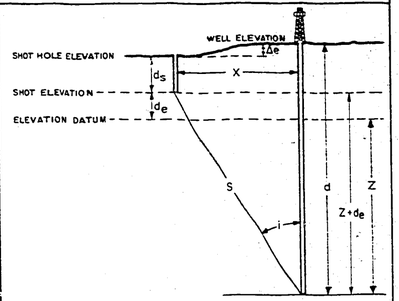
LOCATION: 60° - 6' - 17" N. Lat., 118° - 28' - 30" W. Long., Northwest Territories

COMPANY: SHELL OIL COMPANY

DATE SURVEYED: February 24, 1959

GEOLOGICAL LOG	Record Number	Shot Hole Number	Grade	d	d_s	t_s	Shot Hole Elevation	d_e	Δe	$\Delta e + d_s$	t_e	T	$Z + d_e$	X	tan i	cos i	$\bar{T}$	T_c		Z	V_a
	1A	I	G	650	50	.009	2171	66	17	67	.013	.124	583	600	1.0292	.6969	.086	.073	.073	517	7082
	12A	D	G	650	50	.010	2174	69	14	64	.013	.117	586	535	.9130	.7385	.086	.073		517	
HAY RIVER LIMESTONE	2B	I	G	1530	48	–	2171	68	17	65	.013	.227	1465	600	.4096	.9254	.210	.197	.1975	1397	7073
	3C	I	G	1530	48	.009	2171	68	17	65	.013	.227	1465	600	.4096	.9254	.210	.197		1397	
	13B	D	G	1530	50	.011	2174	69	14	64	.012	.224	1466	535	.3649	.9394	.210	.198		1397	
	4D	I	G	2100	48	.010	2171	68	17	65	.012	.255	2035	600	.2948	.9592	.245	.233	.234	1967	8406
	14C	D	G	2100	46	.011	2174	73	14	60	.012	.255	2040	535	.2623	.9673	.247	.235		1967	
HAY RIVER SHALE	5E	I	G	2745	50	.010	2171	66	17	67	.012	.293	2678	600	.2240	.9758	.286	.274	.2745	2612	9515
	15D	D	G	2745	46	.010	2174	73	14	60	.013	.294	2685	535	.1993	.9807	.288	.275		2612	
	6F	I	G	3350	51	.010	2171	65	17	68	.012	.355	3282	600	.1828	.9837	.349	.337	.3375	3217	9532
	16E	D	G	3350	46	.010	2174	73	14	60	.013	.356	3290	535	.1626	.9870	.351	.338		3217	
	7G	I	G	4000	51	–	2171	65	17	68	.012	.419	3932	600	.1526	.9886	.414	.402	.403	3867	9596
	17F	D	G	4000	46	.010	2174	73	14	60	.013	.421	3940	535	.1358	.9909	.417	.404		3867	
SLAVE POINT	8H	I	G	4765	51	.010	2171	65	17	68	.011	.481	4697	600	.1277	.9919	.477	.466	.467	4632	9919
	18G	D	G	4765	49	.011	2174	70	14	63	.012	.483	4702	535	.1138	.9936	.480	.468		4632	
MUSKEG	9I	I	G	4964	51	.010	2171	65	17	68	.011	.490	4896	600	.1225	.9926	.486	.475	.4765	4831	10139
	19H	D	G	4964	50	.011	2174	69	14	64	.011	.492	4900	535	.1092	.9941	.489	.478		4831	
METHY	10J	I	G	5300	52	.010	2171	64	17	69	.011	.508	5231	600	.1147	.9935	.505	.494	.494	5167	10460
	20I	D	G	5300	40	.009	2174	79	14	54	.013	.510	5246	535	.1020	.9948	.507	.494		5167	
PRE-CAMBRIAN	11A	K	G	5648	50	.009	2171	66	17	67	.011	.526	5581	540	.0968	.9953	.524	.513	.5135	5515	10740
	21J	D	G	5648	41	.011	2174	78	14	55	.013	.529	5593	535	.0957	.9955	.527	.514		5515	

ΔZ	ΔT_c	V_i
880	.1245	7068
570	.0365	15616
645	.0405	15926
605	.063	9603
650	.0655	9924
765	.064	11953
199	.0095	20947
336	.0175	19200
348	.0195	17846



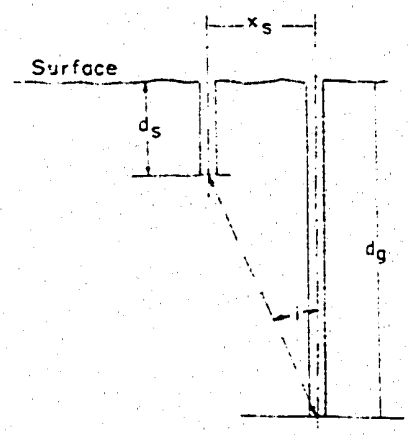
X = Horizontal distance from well to shot point.
d = Well geophone depth measured from well elevation.
d_s = Depth of shot.
d_e = Difference in elevation between shot and elevation datum.
Δe = Difference in elevation between well and shot point.
Z = Well geophone depth measured from elevation datum = d-(K.B.elevation - elevation datum).
$Z+d_e$ = Well geophone deptn measured from shot elevation = $d - d_s - \Delta e$.
S = Straight line travel path from shot to well geophone.
T = Observed time from shot to well geophone.
t_s = Uphole time at shot or other surface reference time.
t_e = Vertical time from shot to elevation datum $= \frac{d_e}{V_e}$.
$\tan i = \frac{X}{Z+d_e}$.
$\bar{T}$ = Vertical travel time from shot elevation to well geophone = cos i T.
T_c = Vertical travel time from elevation datum to well geophone = $\bar{T} - t_e$.
V_e = Topmost velocity in consolidated layer.
$V_a = \frac{Z}{T_c}$ = Average velocity.
$V_i = \frac{\Delta Z}{\Delta T_c}$ = Interval velocity.

Seismograph Service Corporation of Canada
CALGARY, ALBERTA

UPHOLE VELOCITY SURVEY DATA

SHELL KAKISA RIVER NO. 2

ALL TIMES CORRECTED TO SURFACE ELEVATION



SHOT POINT ELEVATION: 2173 Ft.

CABLED HOLE ELEVATION: 2173 Ft.

$$\frac{x_s}{d_g - d_s} = \tan i$$

$$\cos i \times T = T_c$$

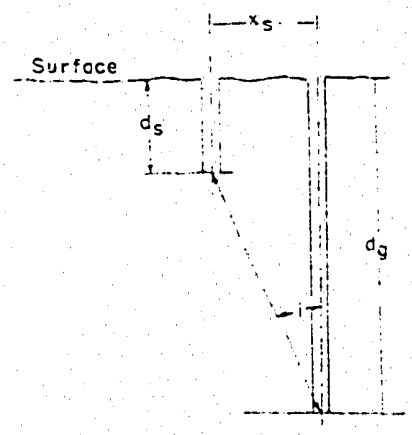
UPHOLE TIME (t_s) = .004 Sec.

SHOT P.	REC. NO.	d_s	d_g	$d_g - d_s$	x_s	tan i	cos i	T	T_c	$T_c + t_s$
A	2B	10	20	10	25	2.5000	.3714	.004	.001	.005
			40	30	25	.8333	.7682	.007	.005	.009
			60	50	25	.5000	.8944	.010	.009	.013
			80	70	25	.3571	.9418	.013	.012	.016
			100	90	25	.2778	.9635	.016	.015	.019

UPHOLE VELOCITY SURVEY DATA

SHELL KAKISA RIVER NO. 2

ALL TIMES CORRECTED TO SURFACE ELEVATION



SHOT POINT ELEVATION: 2173 Ft.

CABLED HOLE ELEVATION: 2173 Ft.

$$\frac{x_s}{d_g - d_s} = \tan i$$

$$\cos i \times T = T_c$$

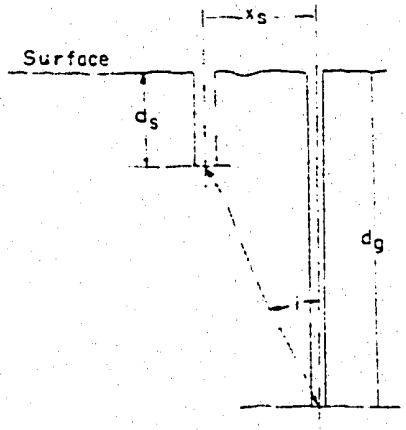
UPHOLE TIME (t_s) = .004 Sec.

SHOT P	REC.NO.	d_s	d_g	$d_g - d_s$	x_s	tan i	cos i	T	T_c	$T_c + t_s$
A	3C	10	30	20	25	1.2500	.6247	.006	.004	.008
			50	40	25	.6250	.8480	.008	.007	.011
			70	60	25	.4167	.9231	.011	.010	.014
			90	80	25	.3125	.9545	.014	.013	.017

UPHOLE VELOCITY SURVEY DATA

SHELL KAKISA RIVER NO. 2

ALL TIMES CORRECTED TO SURFACE ELEVATION



SHOT POINT ELEVATION: 2171 Ft.

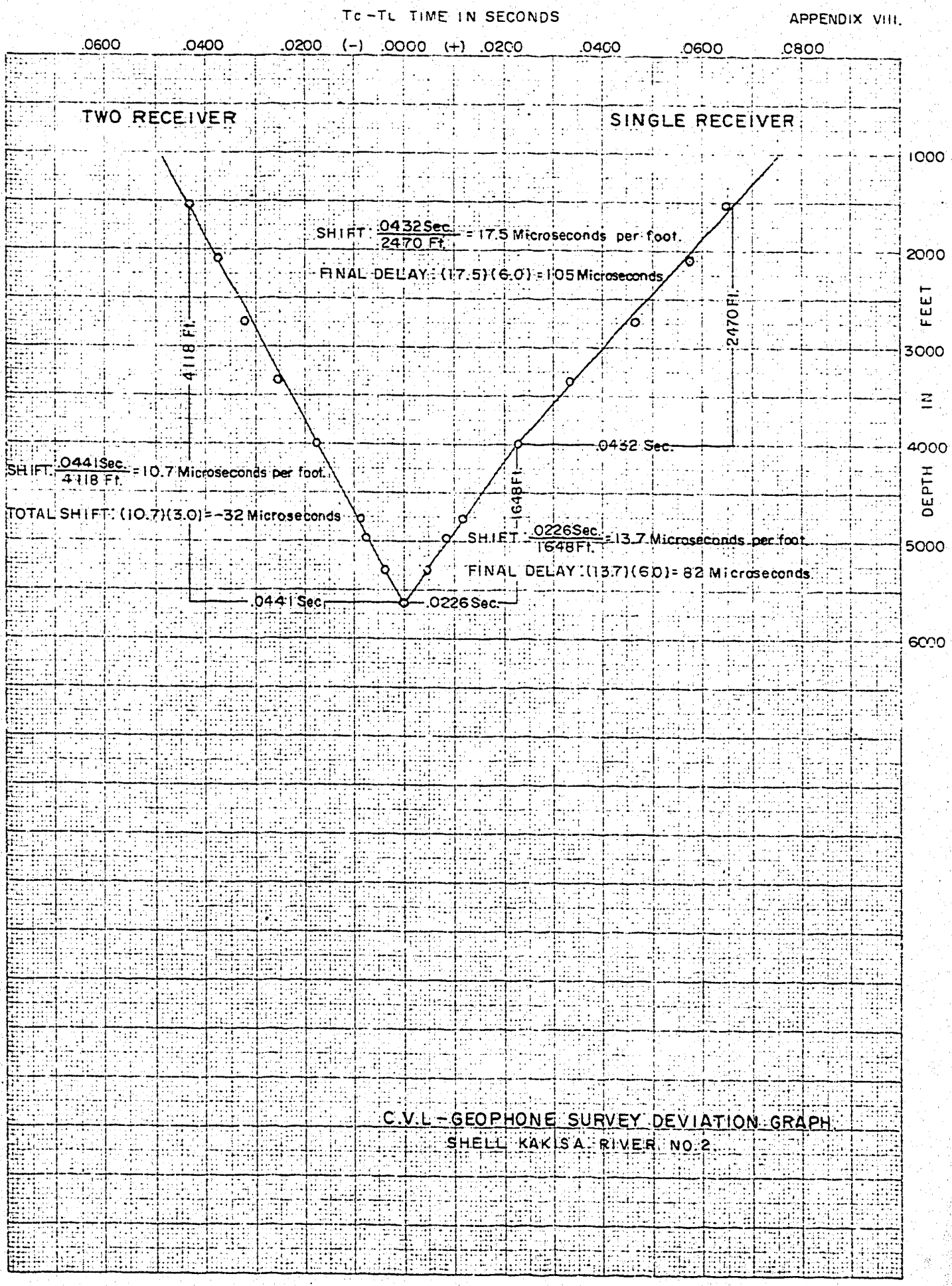
CABLED HOLE ELEVATION: 2172 Ft.

$$\frac{x_s}{d_g - d_s} = \tan i$$

$$\cos i \times T = T_c$$

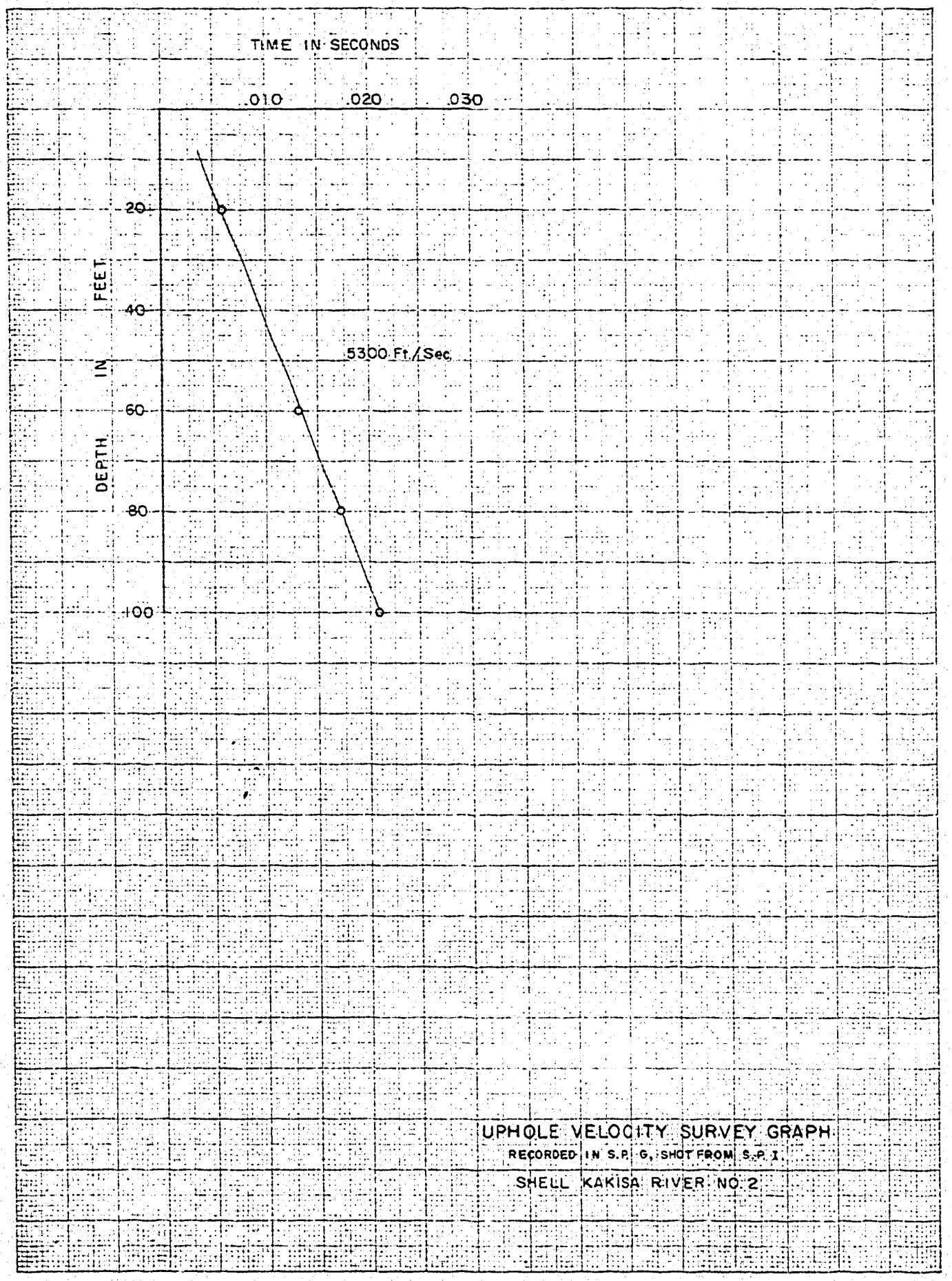
UPHOLE TIME (t_s) = .004 Sec.

SHOT P.	REC.NO	d_s	d_g	$d_g - d_s$	x_s	tan i	cos i	T	T_c	$T_c + t_s$
I	2B	8	20	11	25	2.2727	.4028	.004	.002	.006
			40	31	25	.8065	.7784	-	-	-
			60	51	25	.4902	.8979	.010	.009	.013
			80	71	25	.3521	.9432	.014	.013	.017
			100	91	25	.2747	.9643	.018	.017	.021



C.V.L - GEOPHONE SURVEY DEVIATION GRAPH.
SHELL KAKISA RIVER NO. 2.

10 X 10 TO THE CM. 359-14
KEUFFEL & ESSER CO.

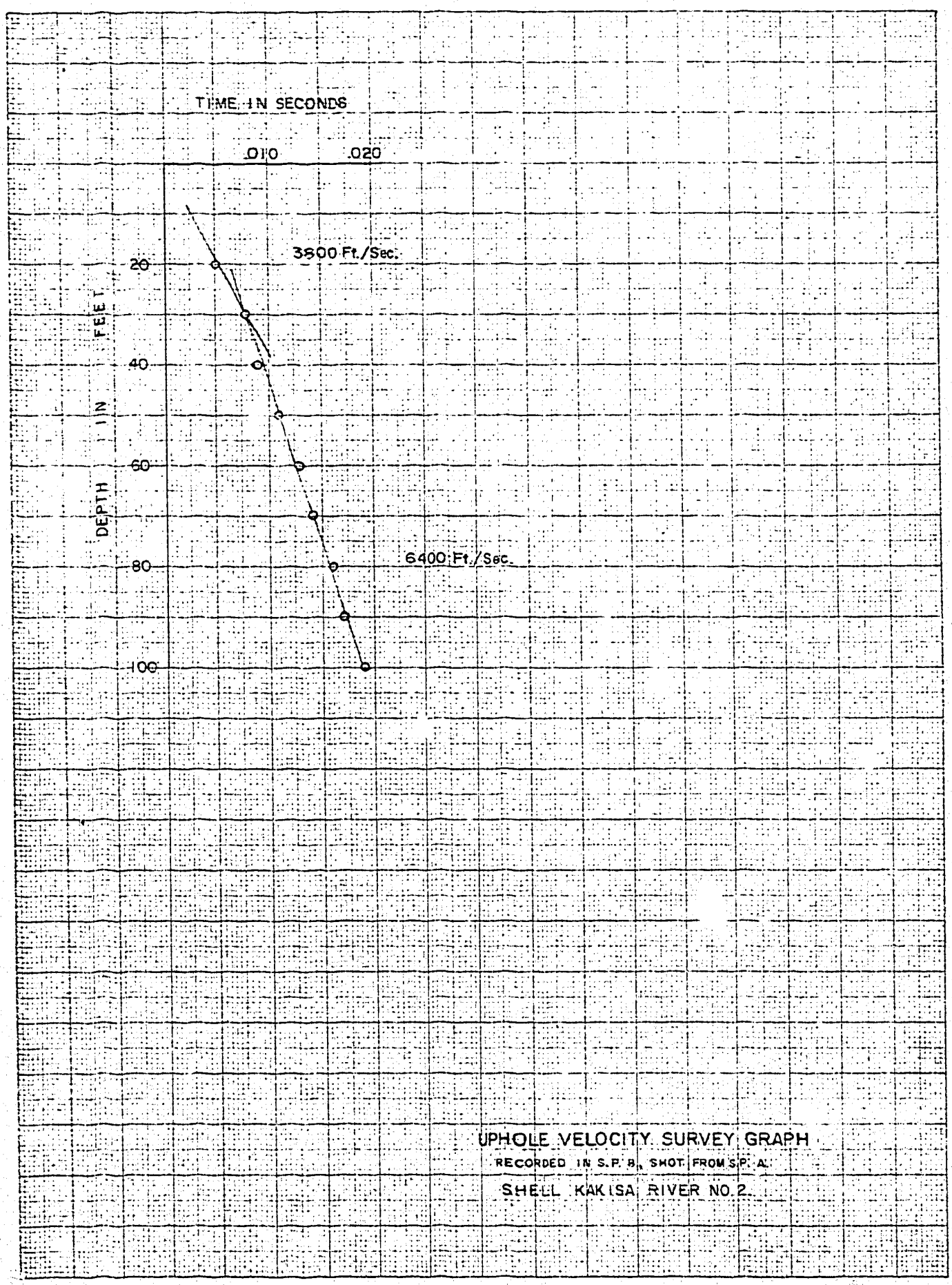


UPHOLE VELOCITY SURVEY GRAPH

RECORDED IN S.P. G, SHOT FROM S.P. I.

SHELL KAKISA RIVER NO. 2

10 X 10 TO THE CM. 359-14
KEUFFEL & ESSER CO.



UPHOLE VELOCITY SURVEY GRAPH

RECORDED IN S.P. B, SHOT FROM S.P. A.

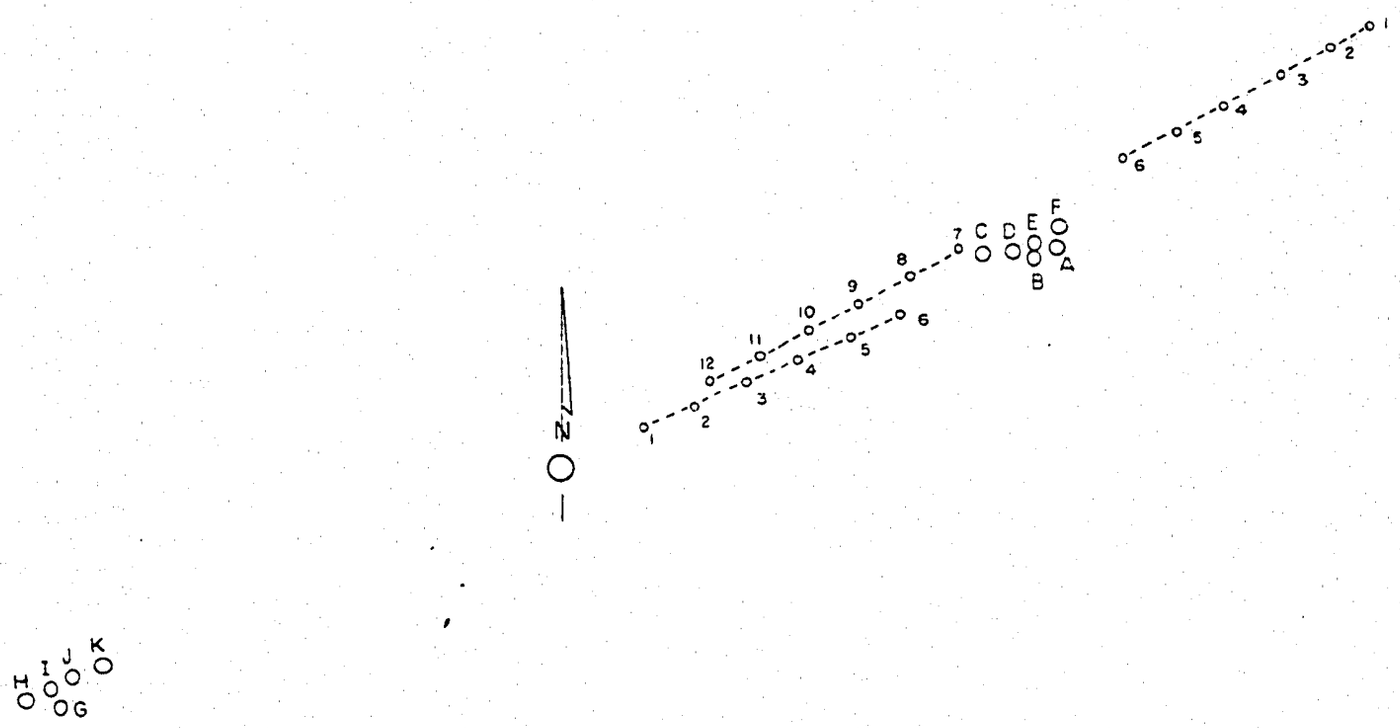
SHELL KAKISA RIVER NO. 2.

10 X 10 TO THE CM. 359-14
KEUFFEL & ESSER CO.

SHOOTING PLAN

SHELL KAKISA RIVER NO. 2

60°-6'-17" N. LAT., 118°-28'-30" W. LONG.
LSD SEC T R W M



LEGEND:

○ WELL SURVEYED.
O SHOT POINT.
o GEOPHONE.
SCALE : 1 IN. = 200 FT.

ELEVATION CORRECTIONS

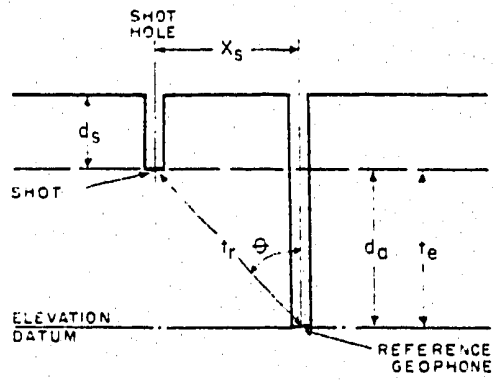
SHELL KAKISA RIVER NO. 2

REFERENCE HOLE: G

HOLE ELEVATION: 2172 Ft.

GEOPHONE DEPTH: 118 Ft.

GEOPHONE ELEVATION: 2054 Ft.



$$\tan \theta = \frac{X_s}{d_a}$$

$$t_e = t_r \cos \theta$$

SP - ELEVATION	SHOT NO	d_s	SHOT ELEV.	X_s	d_a	TAN θ	COS θ	t_r	t_e
I-2171 Ft.	1A	50	2121	25	67	.3731	.9369	.014	.013
	2B	48	2123	25	69	.3623	.9402	.014	.013
	3C	48	2123	25	69	.3623	.9402	.014	.013
	4D	48	2123	25	69	.3623	.9402	.013	.012
	5E	50	2121	25	67	.3731	.9369	.013	.012
	6F	51	2120	25	66	.3788	.9352	.013	.012
	7G	51	2120	25	66	.3788	.9352	.013	.012
	8H	51	2120	25	66	.3788	.9352	.012	.011
	9I	51	2120	25	66	.3788	.9352	.012	.011
	10J	52	2119	25	65	.3846	.9333	.012	.011
K-2171 Ft.	11A	50	2121	60	67	.8955	.7450	.015	.011

ELEVATION CORRECTIONS

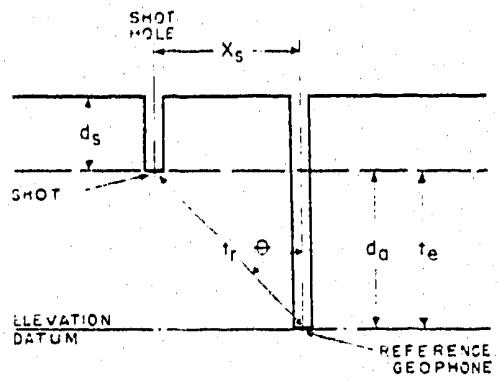
SHELL KAKISA RIVER NO. 2

REFERENCE HOLE: B

HOLE ELEVATION: 2173 Ft.

GEOPHONE DEPTH: 118 Ft.

GEOPHONE ELEVATION: 2055 Ft.



$$\tan \theta = \frac{X_s}{d_a}$$

$$t_e = t_r \cos \theta$$

S.P.-ELEVATION	SHOT NO	d_s	SHOT ELEV.	X_s	d_a	TAN θ	COS θ	t_r	t_e
D-2174 Ft.	12A	50	2124	25	69	.3623	.9402	.014	.013
	13B	50	2124	25	69	.3623	.9402	.013	.012
	14C	46	2128	25	73	.3425	.9461	.013	.012
	15D	46	2128	25	73	.3425	.9461	.014	.013
	16E	46	2128	25	73	.3425	.9461	.014	.013
	17F	46	2128	25	73	.3425	.9461	.014	.013
	18G	49	2125	25	70	.3571	.9418	.013	.012
	19H	50	2124	25	69	.3623	.9402	.012	.011
	20I	40	2134	25	79	.3165	.9534	.014	.013
	21J	41	2133	25	78	.3205	.9523	.014	.013

REFLECTION IDENTIFICATION CALCULATIONS

SHELL KAKISA RIVER NO. 2

$$T_R = 2T_c + \Sigma t$$

SHOT POINT = A
RECORD NO. = 4D
ELEVATION = 2171 Ft.
ELEVATION DATUM = + 2055 Ft.
V_e = 6400 Ft./Sec.

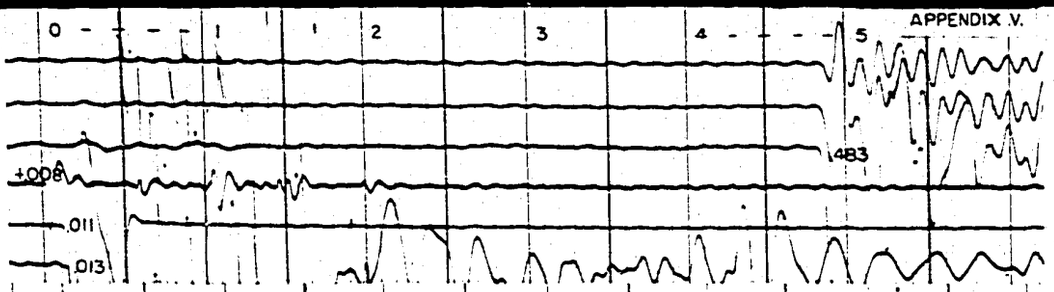
d_s = 36 Ft.
d_e = 80 Ft.
$2d_e$ = 160 Ft.
$2t_e$ = .025 Sec.
t_s = .006 Sec.
Σt = .031 Sec.

REC. NO	d	FORMATION	T_c	$2T_c$	Σt	AVG. T_R
1,12	650		.073	.146	.031	.177
2,3,13	1530	HAY RIVER LIMESTONE	.1975	.395	.031	.426
4,14	2100		.234	.468	.031	.499
5,15	2745	HAY RIVER SHALE	.2745	.549	.031	.580
6,16	3350		.3375	.675	.031	.706
7,17	4000		.403	.806	.031	.837
8,18	4765	SLAVE POINT	.467	.934	.031	.965
9,19	4964	MUSKEG	.4765	.953	.031	.984
10,20	5300	METHY	.494	.988	.031	1.019
11,21	5648	PRE-CAMBRIAN	.5135	1.027	.031	1.058

VELOCITY TEST RECORD NO. 18G

WELL GEOPHONE LEVEL 4765 FT. (KB)

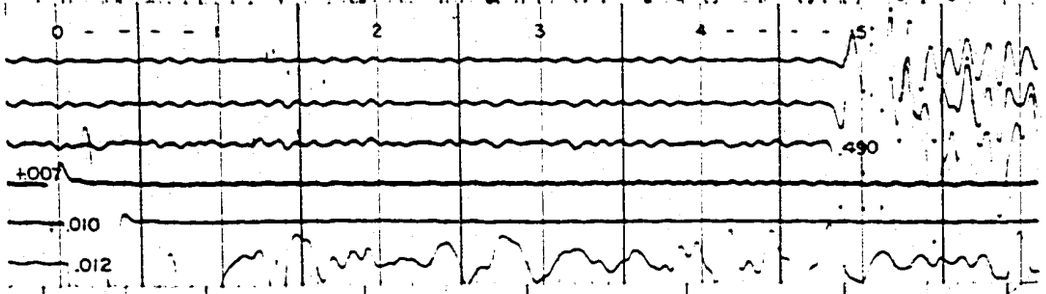
S.P. D CHARGE 5/8 DEPTH 49 FT.



VELOCITY TEST RECORD NO. 9I

WELL GEOPHONE LEVEL 4964 FT. (KB)

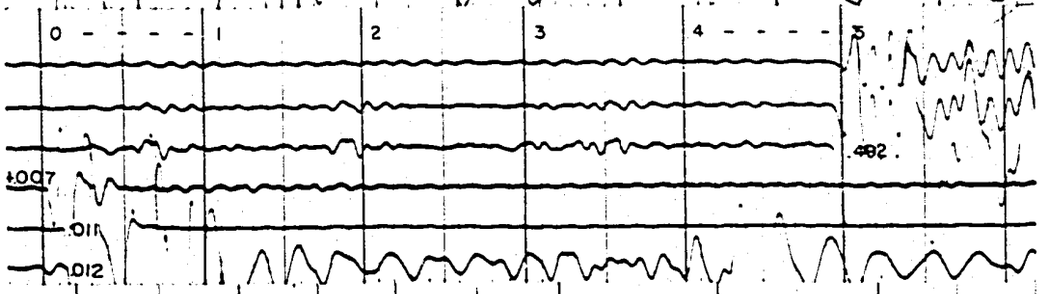
S.P. I CHARGE 5/8 DEPTH 51 FT.



VELOCITY TEST RECORD NO. 19H

WELL GEOPHONE LEVEL 4964 FT. (KB)

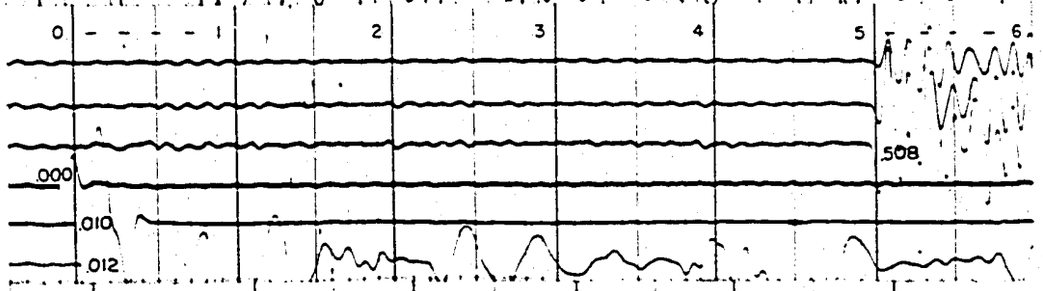
S.P. D CHARGE 5/8 DEPTH 50 FT.



VELOCITY TEST RECORD NO. 10J

WELL GEOPHONE LEVEL 5300 FT. (KB)

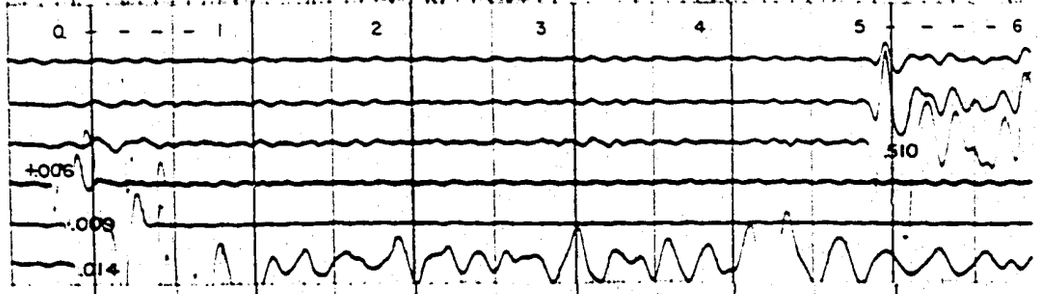
S.P. I CHARGE 5/8 DEPTH 52 FT.



VELOCITY TEST RECORD NO. 20I

WELL GEOPHONE LEVEL 5300 FT. (KB)

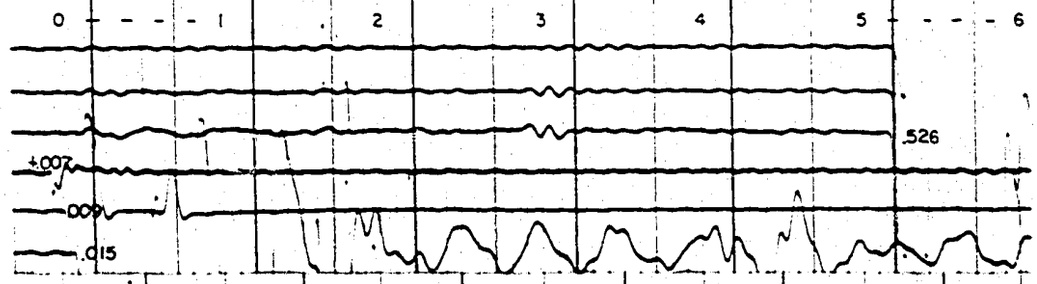
S.P. D CHARGE 5/8 DEPTH 40 FT.



VELOCITY TEST RECORD NO. 11A

WELL GEOPHONE LEVEL 5648 FT. (KB)

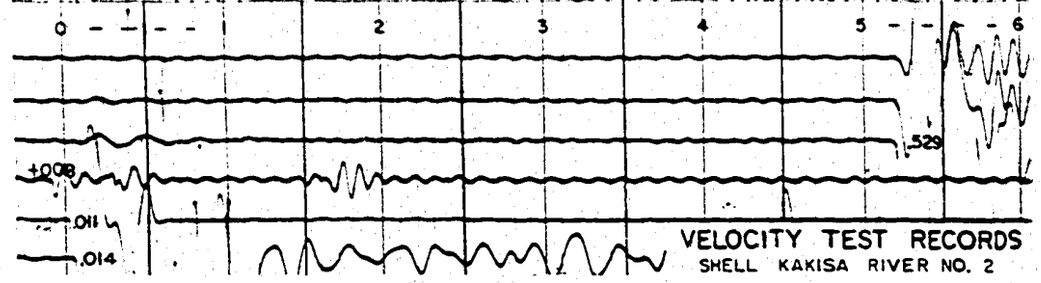
S.P. K CHARGE 2 1/2 DEPTH 50 FT.



VELOCITY TEST RECORD NO. 21J

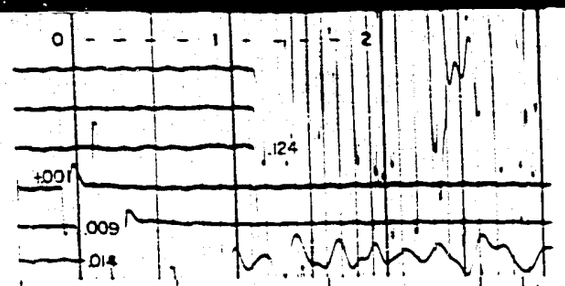
WELL GEOPHONE LEVEL 5648 FT. (KB)

S.P. D CHARGE 1 1/4 DEPTH 41 FT.

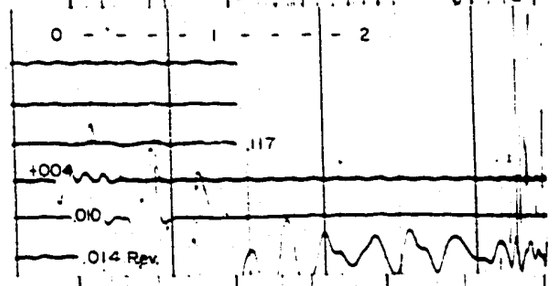


VELOCITY TEST RECORDS
SHELL KAKISA RIVER NO. 2

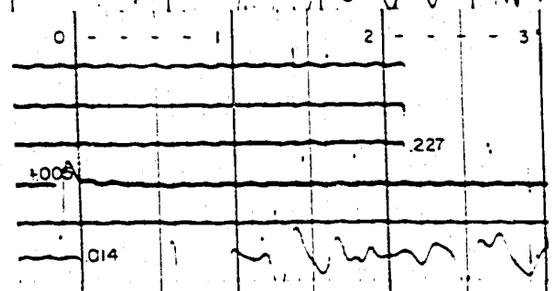
VELOCITY TEST RECORD NO. 1A
WELL GEOPHONE LEVEL 650 FT. (KB)
S.P. I CHARGE 5/16 DEPTH 50 FT.



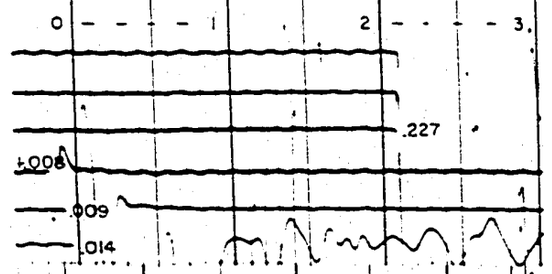
VELOCITY TEST RECORD NO. 12A
WELL GEOPHONE LEVEL 650 FT. (KB)
S.P. D CHARGE 2 1/2 DEPTH 50 FT.



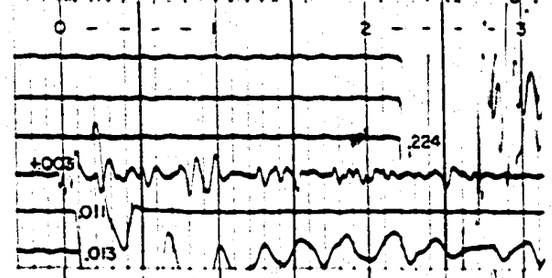
VELOCITY TEST RECORD NO. 2B
WELL GEOPHONE LEVEL 1530 FT. (KB)
S.P. I CHARGE 5/8 DEPTH 48 FT.



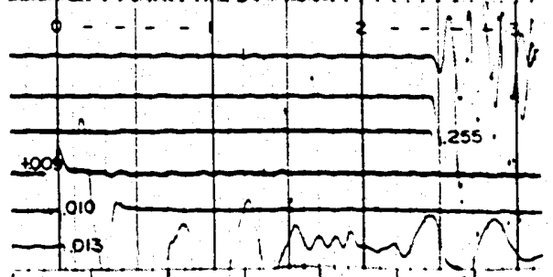
VELOCITY TEST RECORD NO. 3C
WELL GEOPHONE LEVEL 1530 FT. (KB)
S.P. I CHARGE 5/8 DEPTH 48 FT.



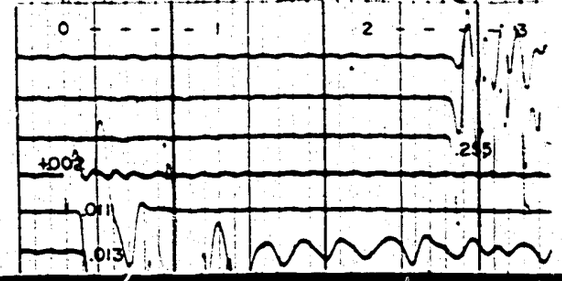
VELOCITY TEST RECORD NO. 13B
WELL GEOPHONE LEVEL 1530 FT. (KB)
S.P. D CHARGE 5/16 DEPTH 50 FT.



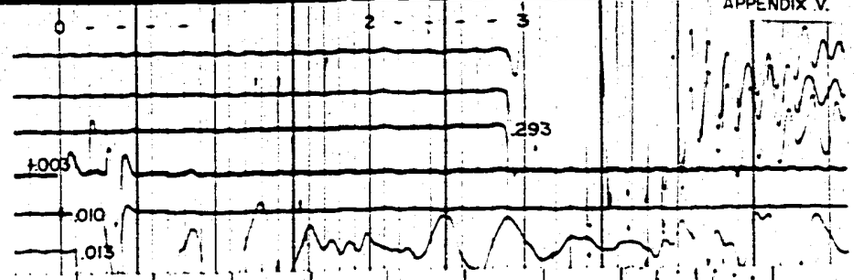
VELOCITY TEST RECORD NO. 4D
WELL GEOPHONE LEVEL 2100 FT. (KB)
S.P. I CHARGE 5/8 DEPTH 48 FT.



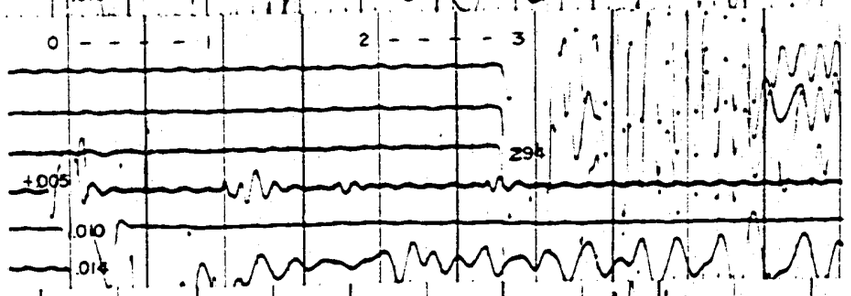
VELOCITY TEST RECORD NO. 14C
WELL GEOPHONE LEVEL 2100 FT. (KB)
S.P. D CHARGE 5/16 DEPTH 46 FT.



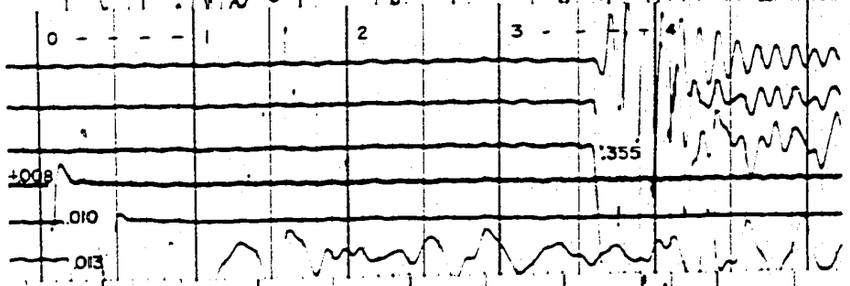
VELOCITY TEST RECORD NO. 5E
WELL GEOPHONE LEVEL 2745 FT. (KB)
S.P. I CHARGE 5/8 DEPTH 50 FT.



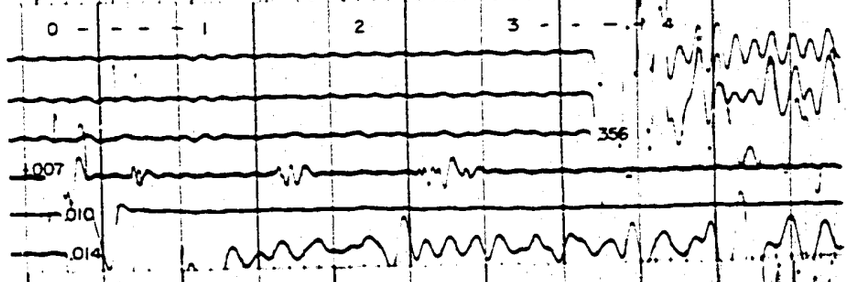
VELOCITY TEST RECORD NO. 15D
WELL GEOPHONE LEVEL 2745 FT. (KB)
S.P. D CHARGE 5/16 DEPTH 46 FT.



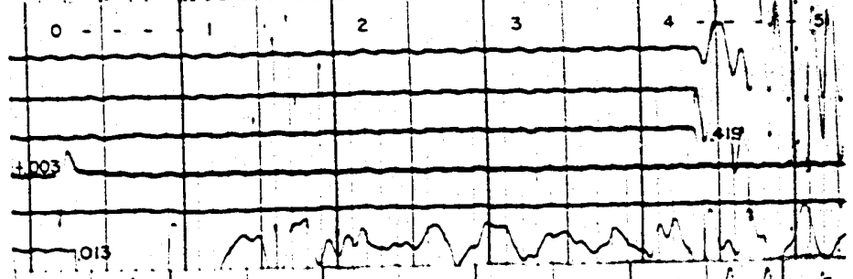
VELOCITY TEST RECORD NO. 6F
WELL GEOPHONE LEVEL 3350 FT. (KB)
S.P. I CHARGE 5/8 DEPTH 51 FT.



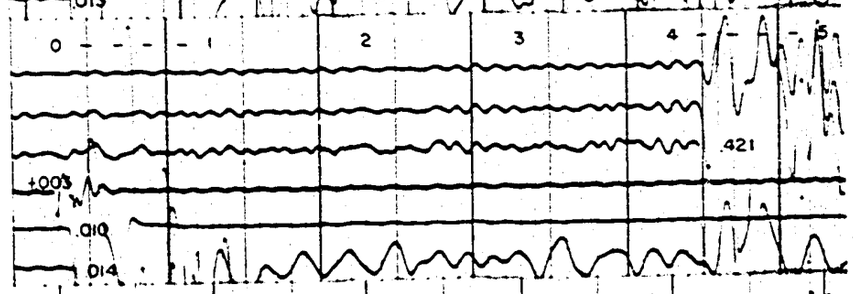
VELOCITY TEST RECORD NO. 16E
WELL GEOPHONE LEVEL 3350 FT. (KB)
S.P. D CHARGE 5/16 DEPTH 46 FT.



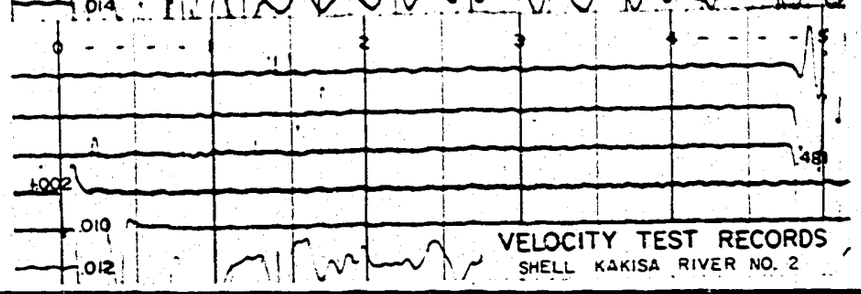
VELOCITY TEST RECORD NO. 7G
WELL GEOPHONE LEVEL 4000 FT. (KB)
S.P. I CHARGE 5/8 DEPTH 51 FT.



VELOCITY TEST RECORD NO. 17F
WELL GEOPHONE LEVEL 4000 FT. (KB)
S.P. D CHARGE 5/16 DEPTH 46 FT.



VELOCITY TEST RECORD NO. 8H
WELL GEOPHONE LEVEL 4765 FT. (KB)
S.P. I CHARGE 5/8 DEPTH 51 FT.



VELOCITY TEST RECORDS
SHELL KAKISA RIVER NO. 2

DEPTH BELOW K.B.	FORMATION	TIME IN SECONDS
1530'	HAY RIVER LIMESTONE	.426
2745'	HAY RIVER SHALE	.580
4765'	SLAVE POINT	.965
4964'	MUSKEG	.984
5300'	METHY	1.019
5648'	PRE-CAMBRIAN	1.058

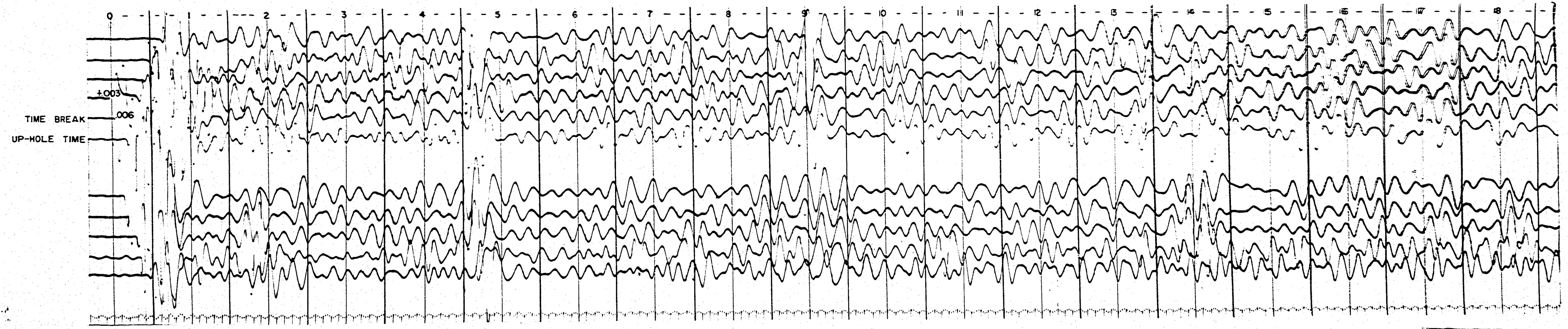
REFLECTION RECORD

SHOT POINT 2 RECORD NO. 4D

DEPTH OF SHOT 36'

SHELL KAKISA RIVER NO. 2

FILTER SETTING 57 CYCLES TO 84 CYCLES PER SECOND AT 70% AMPLITUDE RESPONSE. OUTPUTS NOT MIXED.



Poor Copy

WELL VELOCITY GRAPHS

SHELL KAKISA RIVER NO. 2.

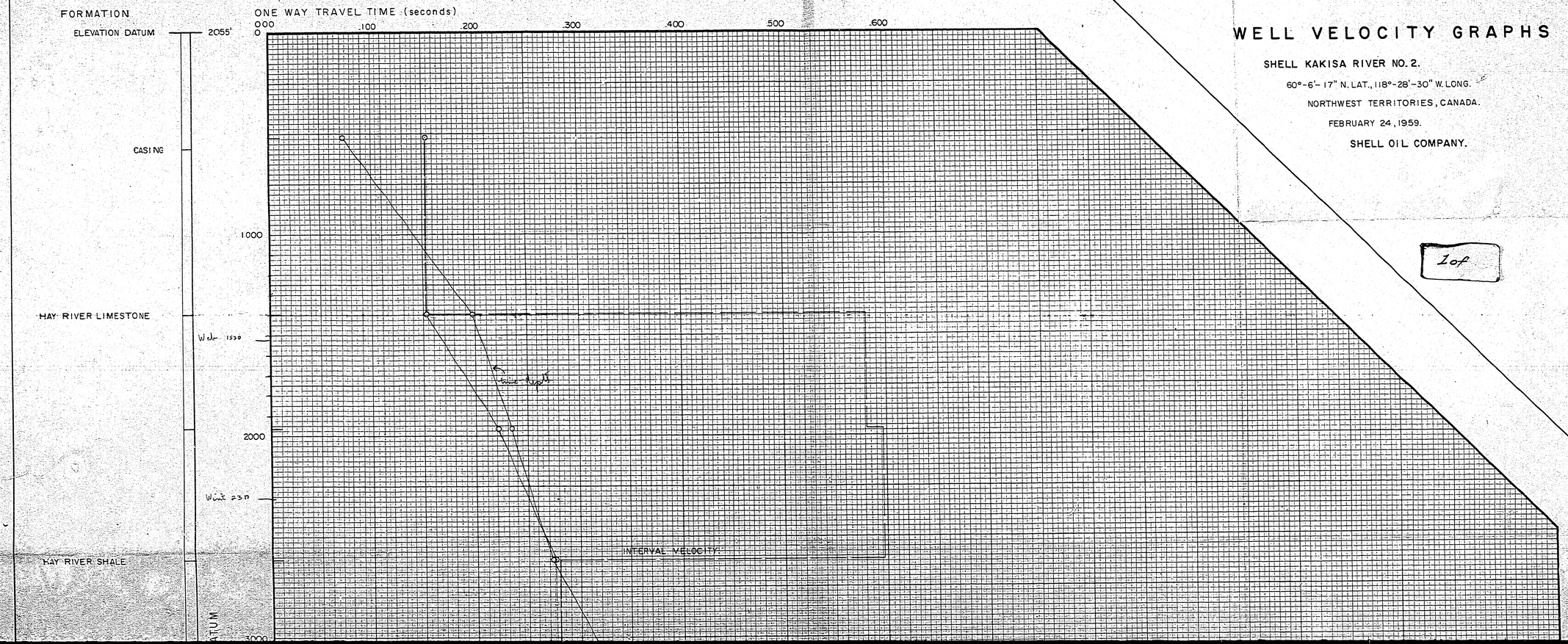
60°-6'-17" N. LAT., 118°-28'-30" W. LONG.

NORTHWEST TERRITORIES, CANADA.

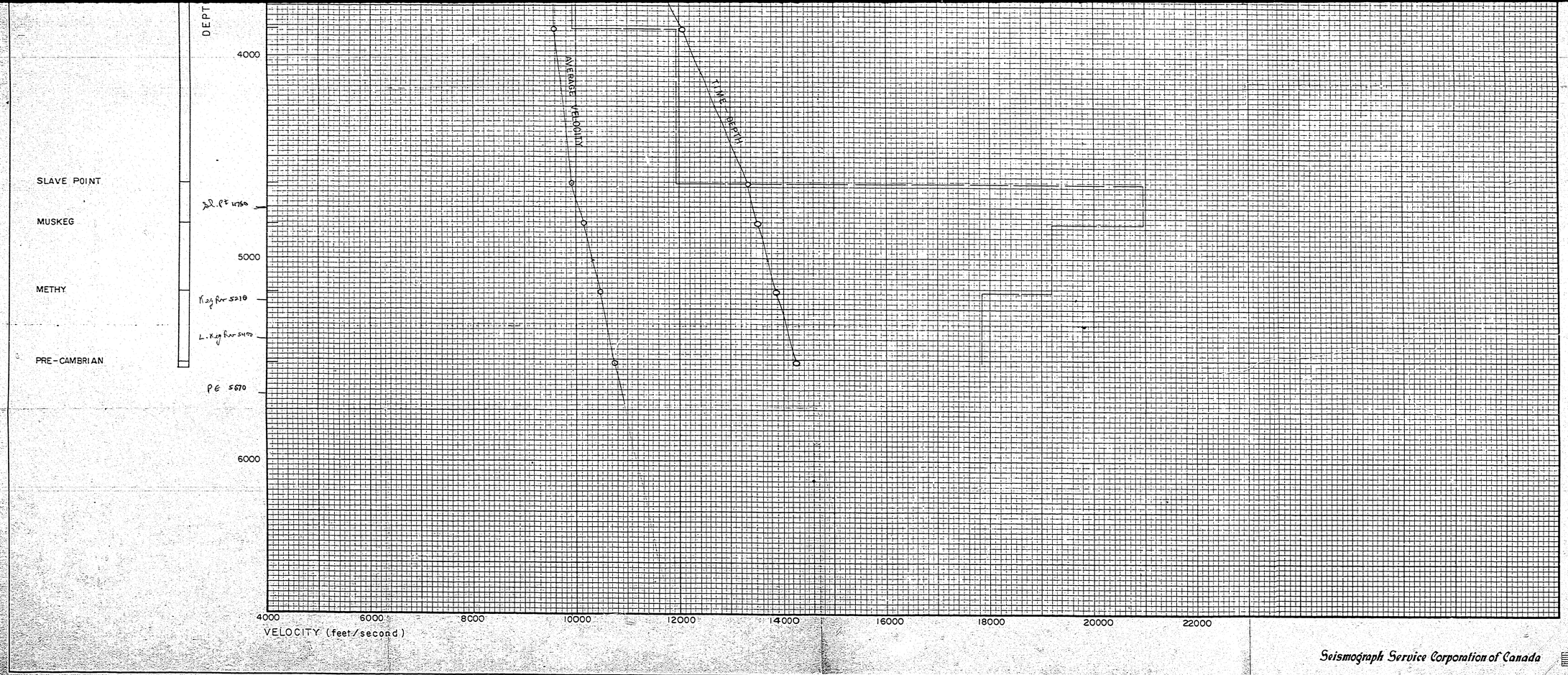
FEBRUARY 24, 1959.

SHELL OIL COMPANY.

1 of



HAY RIVER SHALE
SLAVE POINT
MUSKEG
METHY
PRE-CAMBRIAN
DEPTH BELOW ELEVATION DATUM
3000
4000
5000
6000
INTERVAL VELOCITY
AVERAGE VELOCITY
TIME - DEPTH
2 of



Seismograph Service Corporation of Canada

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