

CDN. RES-SIGNAL KELLER

LK F-49

Drilling Authority No. 513
Date Issued 1 March 1971

WELL NAME Con Res Signal Keller LK F-83
FIELD
LOCATION: Unit 8 Area: Section 12 Grid 01-00-121-45
Latitude 03-58-20 Longitude 101-51-30
U.W.L.R. 63.27223 --- 121.37166
U.W.I. 200FA0600211.50

Rig Release Date:
Status:
Information Release Date:

CHANGE OF NAME:

DATE RECEIVED	INDEX
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	Well History Report.
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	Logs. Large scale..... Small scale.....



Date issued March 1, 1971.

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

APR 13 1971
CALGARY TEL. 215-2174
COMMUNICATIONS SECTION
NORTHWEST TERRITORIES & YUKON TERRITORIES

Well name and number: CIN RES STRIPAL KELLER LK P-49

(Permitter, Licensee, Lessee)	Exploratory Licence No.	
CANADIAN RESERVE OIL AND GAS LTD.		1712
(Operator)	Exploratory Licence No.	

Location: Unit F Section 49 Grid 64°00'; 121°, 45'
 Latitude 63° 58' 20" N Longitude 121° 53' 30" W
 Unique well identifier 300 F496400221450
 Universal Well Location Reference Lat 63.97223°N; Long. 121.89166°W.

CRIMINAL RECORD

GEOLOGICAL TOPS

CORE RECORD

LOG RECORD



File No. 513
Drilling Authority No.

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application to Abandon a Well or ~~Suspend Drilling~~

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

Name and number of well CIN RES SIGNAL WELLER LP F-49
Location: Unit P Section 49 Grid 64°00'; 121°45'
Latitude 63°58'20" N Longitude
From Established Reference Marker
Universal Well Location Reference Lat 63.97223°N, Long. 121.89166°W
Permit No. Lease No.

CANADIAN RESERVE OIL AND GAS LTD.
(Permitter, Licensor, Lessee)

Date of commencement of proposed program March 31, 1971.

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at None encountered
Gas at None encountered
Water at None encountered
Total Depth 711 Date of last operations March 31, 1971
Present condition of well Well at T.D., logging in progress

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 7"	20	423	416	165 sacs Cement Pondu	None
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

No.	Plug	Geological Formation	Number of Sacks of Cement	Remarks
	Position			
1	711 - 375	Bear Rock, Hume, surface casing	75	No feel

The following logs have been run LOG, BRCSG, DENSITY, SNP
Other operations proposed NONE

Operations to be carried out by COMMONWEALTH DRILLING Contractor Licence No. 931
Address Calgary, Alberta Address
Responsible Agent in field J. R. Knight, 301 - 627 8th Avenue S.W., Calgary, Alberta.
Dated at Calgary, this 1st Day of April 19 71
Signed by E. W. UNICK Company CANADIAN RESERVE OIL AND GAS LTD.
Title Drilling & Prod. Engineer Operator's Exploratory Licence No. 1712

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

(For OIL AND MINERAL DIVISION use only)

APPROVAL

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

Confirming oral approval given on the 31st March 1971
by Mr. G. E. Blue.

Dated 5th April, 19 71

B. H. Thomas
Oil Conservation Engineer

LAND 52-90 (5) (2-69)

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

Drilling Authority No. 53

Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application for a Drilling Authority

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

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

Name and number of well CRN RES STORAGE WELLS IN F-49

Location: Unit F Section 49 Grid 64° 00' N; 121° 45' W

Latitude 63° 58' 20" N Longitude 121° 53' 30" W

Unique Well Identifier 3008, 964, 001, 214, 50

Universal Well Location Reference Lat. 63.9723° N, Long. 121.8916° W

Elevation: Ground 913 K.B. 923 feet above sea-level.

Well is expected to produce from HESS formation at a depth of about 500 feet. Expected total final depth 1200

Area assigned to well

(for Oil Conservation Engineer's use only)

Permit No. 4923 Lease No. 56.332

Permittee, licensee, or lessee Canadian Reserve Oil and Gas Ltd.

Exploratory Licence No. 1712

Surface owned by Crown or CRN

(If applicant, submit name and address of owner and occupant.)

Petroleum and natural-gas rights owned by CRN

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

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Feet of Cement
1. <u>7"</u>	<u>17</u>	<u>R-55</u>	<u>NEW</u>	<u>300</u>	<u>100 ssbs</u>
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment. None formation.

Control equipment will include Hydriil and hydraulic Shaffer ram-type BOP.

Well will be drilled with Rotary Rig No. 34C by COMPONENTS DRILLING (WESTERN) LIMITED
(Drilling Contractor or company)

Responsible agent of applicant:—

Contractor's Business Licence No. 931

At well J. R. Knight, Consultant At registered office E. W. Unick

Address 301 - 627 8th Ave. S.W. Address 1600, 639 Fifth Avenue S.W., Calgary, 1.

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

Dated at Calgary, Alberta, this 25th day of February 19 71

Signed by E. W. Unick Company CANADIAN RESERVE OIL AND GAS LTD.

Title Drilling & Prod. Engineer Operator's Licence No. 1712

(For Oil and Mineral Division use only)

APPROVED

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

1. Copies of this Drilling Authority shall be exhibited at the Drilling Rig in both the Doghouse and the Drilling Foreman's Office between spud and rig release dates.
2. The Company will submit to this office, on Tuesday of each week, the latest reports

Dated 1st March 19 71 Please see over page

Oil Conservation Engineer

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

POOR COPY

received by radio on the progress of the well.

3. During well drilling and testing operations, every effort shall be made to ensure that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.
4. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
5. Surface casing is to be set at least 75 feet into a competent formation.
6. Any additional strings of casing are to be approved by the Oil Conservation Engineer prior to running.

B.H.J. Thomas

B.H.J. Thomas, Oil Conservation Engineer

CDN RES SIGNAL KELLER LK G-49

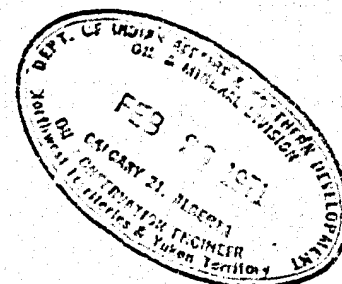
63° 58' 20" N 121° 53' 30" W

GEOLOGICAL PROGNOSIS :

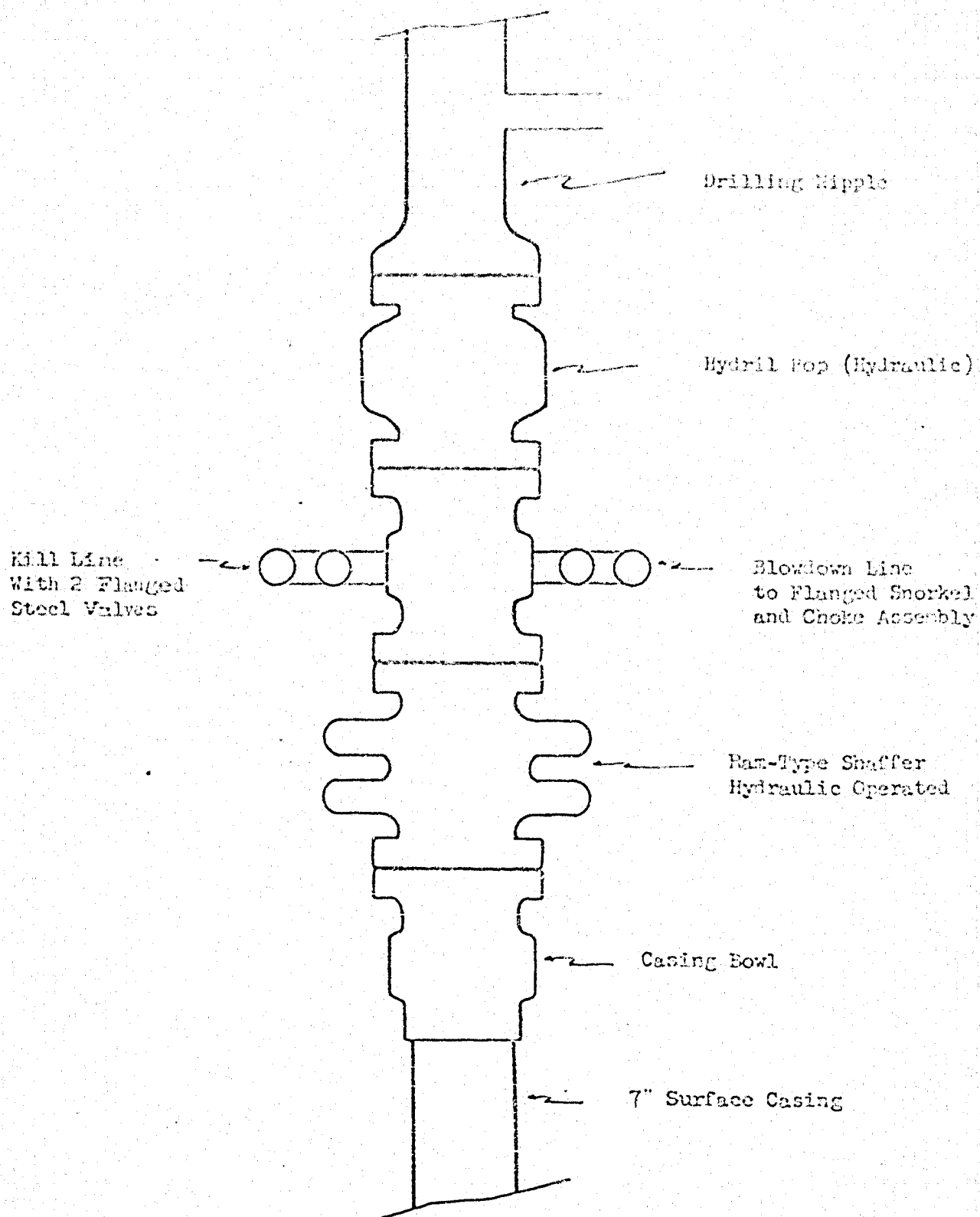
<u>FORMATION</u>	<u>DEPTH</u>	<u>SURSTA</u>
IMPERIAL SHALE	200	+ 723
HUME CARBONATE	500	+ 423
PIER ROCK	950	- 27
T.D.	1200	- 277

NOTE :

Drilling Program is same as Cdn Res Signal Keller Lk P-14.



DRILLING MIPPLE
CUMULATIVE LENGTH 12' AND 12' 11"
WEIGHT 240 LBS.



750-11-5-7

WELL REPORT

CDN RES SIGNAL KELLER LK F-49

63° 58' 20" N, 121° 53' 30" W

KELLER LAKE, N.W.T.

TIFCO EXPLORATION LTD.

SUITE 401 - EXECUTIVE PLACE

727, BAY AVENUE, S.W.

CALGARY 1, ALBERTA

TEL. 263-2516

H. B. TIFFIN

DEPARTMENT OF INDIAN AFFAIRS

OTTAWA, CANADA

750-11-5-7.



WELL REPORT

CDN RES SIGNAL KELLER LK F-49

63° 58' 20" N, 121° 53' 30" W

Keller Lake, N.W.T.

April 5, 1971

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SUMMARY OF WELL DATA

Section I

Well Name: CDM RES SIGNAL KEMMER 1K F-49

Permitter, Licensee or Lessee: Mission Oil Development Ltd.

Operator: Canadian Reserve Oil & Gas Ltd.

Location: Unit F, Section 49, Grid 64° 00' N; 121° 45' W
63° 58' 26" N; 121° 53' 30" W.

Permit or Lease Number: Permit 4983

Drilling Contractor: Commonwealth Drilling (Western) Ltd.
Rig No. 34C Type: N58

Drilling Authority: No. 513 issued the 1st March 1971

Classification: Wildcat

Elevations: Ground 913'
Kelly Bushing 922'

Spudded: 2:00 p.m. - March 25, 1971

Completed Drilling: March 30, 1971

Total Depth: 711' (driller) 715' (logger)

Well Status: Dry & Abandoned

Rig Released: April 1, 1971

Hole Sizes: 0 - 418 9 7/8" hole
418 - 711 6 1/4" hole

Casing: Ran 13 jts. 423.88' 7" K-55 20# ST & C Casing.
Landed at 416 K.B. with 165 sax Fondu Fly Ash
with 3% salt. Good returns.
Plug down 12:10 p.m. March 28, 1971.

STRATIGRAPHIC MARKERSCDN REC SIGNAL KENNER LE F-40

K.B. Elevation: 922'

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Pleistocene (Glacial Till)	0	+ 913
Devonian:		
Imperial Shale	394	+ 528
Hume	475	+ 447
Bear Rock	654	+ 268
Total Depth: Driller	711	+ 211
Schlumberger	715	+ 206

- 7

SAMPLE DESCRIPTIONS

CAN RES SIGNAL KELLER DE F-49

- 100 - 190' Conglomerate - vari-colored conglomerate and pea gravel, composed of granitic crystalline rocks, brown dolomite and quartzitic sandstone, loosely consolidated (glacial till).
- 190 - 360' Conglomerate, Sandstone and Siltstone - conglomerate as above with abundant white - clear, very coarse grained, loosely consolidated, frosted, sub-rounded, poorly sorted sandstone. Moderate amounts light grey, argillaceous, slightly calcareous siltstone, in part glauconitic.
- 360 - 390' Sandstone - clear, in part pink, fine to very coarse grained, loosely consolidated, sub-rounded, poorly sorted, frosted sandstone.
- 390 - 400' Sandstone, Conglomerate and Siltstone - sandstone as above, boulder chips of vari-colored granitic crystalline rocks and moderate amounts light medium grey, argillaceous, slightly calcareous, slightly glauconitic siltstone.

IMPERIAL SHALE 394' (+528)

- 400 - 410' Shale - medium to dark grey, soft, micro-micaceous shale.
- 410 - 420' Shale - medium grey, micro-micaceous, slightly calcareous, highly silty shale, in part slightly glauconitic.
- 420 - 440' Shale - medium to dark grey, soft, micro-micaceous, silty shale.
- 440 - 460' Siltstone - light to medium grey, micro-micaceous, very slightly calcareous, argillaceous to shaley siltstone.
- 460 - 470' Siltstone and Sandstone - siltstone as above, in part pyritic and quartzitic. Minor amounts pale grey, fine to coarse grained, sub-rounded, poorly sorted, frosted, quartzitic and pyritic sandstone.

HUME 475' (+447)

- 470 - 480' Limestone and Dolomite - pale grey and pale buff, crypto-crystalline, very slightly argillaceous limestone, in part pelletal. Minor amounts brown, very finely crystalline dolomite with impregnated black bituminous few embedded frosted quartz grains. Traces poor pinpoint porosity.

- 480 - 490' Limestone - pale to light grey-buff, crypto-crystalline, very slightly argillaceous, dolomitic limestone, trace embedded clear dolomite crystals.
- 490 - 510' Limestone and Dolomite - pale grey, crypto-crystalline and earthy, dense limestone, in part pelletoidal. Moderate amounts brown and grey-brown, crypto-crystalline and very finely granular, argillaceous and bituminous dolomite, rare fine vugs, no visible stain. Large subrounded clear quartz grains.
- 510 - 540' Dolomite - pale buff, crypto-crystalline and earthy, dense, slightly argillaceous dolomite, in part calcareous.
- 540 - 560' Limestone - pale buff and cream, earthy, slightly argillaceous, dolomitic limestone.
- 560 - 570' Limestone and Dolomite - limestone as above, becoming highly dolomitic. Moderate amounts brown, crypto-crystalline, slightly argillaceous dolomite, in part bituminous.
- 570 - 600' Limestone - buff and light grey, very fine to finely crystalline, slightly argillaceous, pelletoid limestone, few fossil fragments.
- 600 - 620' Limestone and Shale - pale grey, crypto-crystalline, dense, argillaceous, dolomitic limestone and light green, blocky, highly dolomitic shale, in part pyritic. Moderate amounts light grey limestone as above.
- 620 - 630' Limestone - light buff to grey brown, crypto-crystalline, slightly argillaceous, dense limestone, in part pelletoidal, few fossil fragments.
- 630 - 650' Limestone - limestone as above and pale buff, very finely crystalline limestone, in part granular and sucrosic and dolomitic.
- BEAR ROCK 654' (+268)
- 650 - 660' Anhydrite - pale brown and pale buff, fine to medium crystalline, very slightly dolomitic anhydrite, platy crystal texture.
- 660 - 680' Anhydrite - anhydrite as above and pale buff, sub-lithographic, dense, hard anhydrite.
- 680 - 711' Anhydrite - white to buff, crypto-crystalline, dense, massive anhydrite.

Total Depth:	Driller	711	(+211)
	Schlumberger	714	(+208)

J. R. Knight Petroleum Consultants Ltd.

10.

CASING SUMMARY

Cdn. Reserve-Signal 63° 58' 20" N. Lat; and
WELL Keller Ik. F-49 LOCATION 121° 53' 30" W. Long DATE March 28, 1971
SURF/INT/PROD/LINER SIZE 7" KB 922.00 KB to CF 9.00

NO JOINTS	DESCRIPTION	MEASURED LENGTH	KB DEPTH
	7" HOWCO Reg. guide shoe	0.95	415.53
1	7", 20#, K-55, S.T.&C. Smls. 8 Rd. New	32.07	414.58
	7", Howco Type E Float Collar	1.60	382.51
12	7", 20#, K-55, S.T.&C. Smls. 8 Rd. New	389.26	380.91

TOTAL THEORETICAL STRING	423.88
TD DRILLER	418.00
TD CASING	415.53
MAKE UP	-
TOTAL CORRECTED STRING	-
KB TO CASING TOP	8.35
LANDED DEPTH KB	415.53

CENTRALIZERS: MAKE Howco TYPE Hinged - Straight bow
POSITIONS 408' and 350'
WELD/THREAD LOCK (NO. JOINTS) Shoe, float collar and 1st to 2nd jt.
CEMENTING COMPANY Rig
VOLUME & ADDITIVES 165 sx. Fondue/Flvash (87.5#/50# mix) with 3% salt
CALCULATED DISPLACEMENT 15.3 MEASURED DISPLACEMENT 16.2
TOP PLUG 2 W Wooden BOTTOM PLUG none OTHER
CIRC. TIME BEFORE CEMENT 3 1/2 hours while rigging up to cement BBLS. WASH 5 bbls.
START MIX 11:45 a.m. FIN. MIX 12:00 p.m. START DISPLACEMENT 12:03
PLUG DOWN 12:10 MAX. MIX PRESSURE 100 MAX. DISP. PRESSURE Bumped @ 400 psi

REMARKS:

Est. 10 sx. cement returns.

Average slurry wt. 13.0 npg (5.5 gal/sack)

DEVIATION RECORD

CW RHY SIGNAL KELLER TR F-49

<u>Depth</u>	<u>Degrees</u>
131	1/2
220	1/4
330	1/2
418	1/2
530	1/4

Operator	Cdn. Reserve Oil & Gas
Alberta	1,000,000,000
British Columbia	1,000,000,000
Manitoba	1,000,000,000
Ontario	1,000,000,000
Quebec	1,000,000,000
Saskatchewan	1,000,000,000
Atlantic	1,000,000,000
Northwest Territories	1,000,000,000
Yukon	1,000,000,000
Nunavut	1,000,000,000
Total	10,000,000,000

Fig No.

1.0. 2-1/8"

Pump No. 2 Oilwell C 373

[illegible]

Cdn. Res.-Signal Keller Ld. C-49

MUD MATERIALS USED

Date	/	Tour	Gel (#)	OV-68 (gal)	Caustic (#)	Peltex	Soda Ash	Bicarb	Notes
<u>Surface Hole (to 418')</u>									
Mar. 25		2nd	1,300	2					Drilling 9-7/8" hole.
Mar. 26		1st	1,800		50				Sand, boulders & pea-gravel to 190'
		2nd	1,200		50				
Mar. 27		1st	1,000						7" casing @ 418'
		2nd	<u>900</u>	<u>1</u>	<u>25</u>				
			6,200	3	125				
Cost			\$ 440	\$ 40	\$ 30				Surface Hole Cost
									\$510
<u>Main Hole (to 711')</u>									
Mar. 29		2nd	1,600	1					Drilling 6 1/2" hole
30		2nd	200		75	100	50	100	Treating anhydrit
31		1st	<u>1,100</u>						At. T.D. Logged O.K.
			2,900	1	75	100	50	100	
Cost			\$ 210	\$ 10	\$ 20	\$ 40	\$ 10	\$ 20	Main Hole Cost
									\$310
Grand Totals			9,100	4	200	100	50	100	
Cost:			\$ 650	\$ 50	\$ 50	\$ 40	\$ 10	\$ 20	Total Well Cost
									\$820

2.

HI-LITE NO. 216

PLUG-BACK AND ABANDONMENT REPORT

Well: Cdn. Res.-Signal Keller Lk. F-49

Location: 63° 58' 20" N. Lat, and 121° 53' 30" W. Long, N. W. T.

Hole Size:	9-7/8"	6-1/4"	K.B. Elev.	922.0
Depth :	418 ft.	711 ft.	F.T.C.	711.0

Surface Casing: 7" Set at 418 ft. Top of Cement - surface

Fluid in Hole: Mud

Plug Back String: Drillpipe 3-1/2" I.F.

Service Company: Rig

Plug No. 1: (April 1, 1971)

Interval:	350 - 711
Formation	All
Calipered Hole Size	6-1/4
Type of Cement	Oilwell
No. of Sacks	80
Additives	None
Bbls. of Water Ahead	4
Displacement	2.6 Bbls. Water
Slurry Weight	15.5
Mixing Time	6:55 - 7:00

Surface Casing Cut 2 Ft. below ground, Surface Plug - 5 sacks, and plate welded.

Operator: Canadian Reserve Oil and Gas

Agent of Operator: J. R. Knight

Section III

(g) Lost Circulation Zones

No loss of circulation occurred.

(h) Report of Blowouts

No kicks or blowouts occurred.

Section IV - Logs

March 31/71

Dual Induction Laterolog
2" = 100 ft. 417 - 710
5" = 100 ft. 417 - 710

March 31/71

Borehole Compensated Sonic-Gamma-Caliper
2" = 100 ft. 417 - 712
5" = 100 ft. 417 - 712

March 31/71

Formation Density
5" = 100 ft. 417 - 712

March 31/71

Sidewall Neutron Porosity
5" = 100 ft. 417 - 713

WELL HISTORY LOG

Well Name Cdn Res Signal Keller Lk F-49
 Location 63° 58' 20" N, 121° 53' 30" W
 Operator Canadian Reserve Oil & Gas Ltd.
 Elevation: Ground 913 KB 922
 Spud Date 2:00 p.m. March 25, 1971
 Finished Drilling March 30, 1971
 Status Dry & Abandoned
 Total Depth (driller) 711 (+211)
 Bottom Formation Brar Rock
 Geologist H.B. Tiffin

Surface Casing: Ran 13 Jts. 423.88' 7"
 K-55 ST & C ong. Landed at 416 K.B. with
 165 Sax Fonda Fly Ash + 3% Salt.
 Plug down 12:10 p.m. March 28, 1971.

D.S.T.'s: none

Cores: none

Logs: Dual Induction Laterolog
 BHC Sonic-Gamma-Caliper
 Formation Density
 Sidewall Neutron Porosity

Plugs: #1 711-350 80 Sax

—LEGEND—

	Breccia		Dolomite, streak
	Conglomerate		Sandy
	Granite Wash		Silty
	Sandstone		Calcareous
	Siltstone		Dolomitic
	Shale, light color		Anhydritic
	Shale, med color		Gypsiferous
	Shale, dark color		Chert, light & dark
	Shale, black		Argillaceous
	Marlstone		Glaucinitic
	Limestone		Salt Cast
	Dolomite		Nodules
	Anhydrite		Bioclastic or Frag
	Gypsum		Oolites
	Salt		Pellets
	Coal		Pyrite
	Glacial Till		Fossils
	Igneous		Carbonaceous
	Volcanic		Earthy
	Metamorphic		Chalky
	Marl, limy		Lithographic
	Marl, dolomitic		Cryptocrystalline
	Limestone, streak		No Samples

	POR	GOOD	>20%
		FAIR	12-20%
		POOR	6-12%
		TRACE	<6%

	GRAIN SIZE	VERY FINE
		FINE
		MEDIUM
		COARSE
		VERY COARSE

- Oil, heavy stain
- Oil, med, poor or spotty stain
- Oil, light, questionable stain
- D Oil, dead or asphaltic
- † Gas, (positive test)
- W Water, (positive test)

WELL HISTORY LOG

WELL NAME Cdn Res Signal Keller Lk F-49

DATE March 21/71

INTERVAL SHOWN 300 - 500'

PAGE NO. 1

CORES & TESTS	POR	LITHOLOGY	GRAIN SIZE	DEPTH	MIN / FT	DESCRIPTION & REMARKS
				0	5 10 15 20 25	
				100		Vari-colored unconsol. congl. & pea gravel - granite xln rocks, brn. dol & qtz'c ss Glacial Till.
				200		Congl. ss wh-clear frosted r.P. unconsol. ss. Mod. lt. gy. sltst.
				300		
				400		BIT3A Clear, in pt pink, unconsol. r.P. frosted ss.
				400		Lt-med gy sltst. Med-dk gy soft m-mica sh.
IMPERIAL SH. 304 (+528)						Med. gy. highly silty sh.
7" Surface Csg. Shoe						BIT1 Med.-dk gy soft mica silty sh.
						Lt.-med gy mica arg - shaley v sl calc sltst.
HUME 475 (+447)						Sltst. aa Mnr pale gy r.P. dol'c ss. Pale gy & bf ls. Mnr. bit dol. Pale - lt gy bf dol'c ls. Pale gy ls & brn gran bit dol.
				500		

WELL HISTORY LOG

WELL NAME Con Res Signal Miller LK F-49

DATE March 29/71

INTERVAL SHOWN: 500 - 711

PAGE NO. 2

[illegible]

COMMONWEALTH DRILLING

DAILY DRILLING LOG
DIRECTIONS TO
WELL

RIG NO

34C

LOCATION

CEN. RES. REGINAL KELLER LAKE

FL9 SEC

TWP.

HGE.

W.

DATE

APRIL 1/71

19 21

DATE

APRIL 1/71

RIG = 34C

MILES

ROAD

CONDITIONS

DAYS

ON

SPUD

TIME

HRS.

MIN.

SEC.

TENTH

HUNDREDTH

THOUSANDTH

From	Footage	To	Mts. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Ft. up on Kelly
1															
2															
3															
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97															
98															
99															
100															

REMARKS	START	STOP	INVT
RUN IN LAY DOWN DRILL COLLARS	1200	380	31
PICK UP 23 SINGLES	330	445	11
CIRC	445	545	11
PREPARE TO RUN PLUG #1	545	630	34
RUN PLUG #1	630	700	12
LAY DOWN PIPE	700	800	12
2 TRUCKS LEFT FOR BACKING SITE			
WITH EXTRAS @ 6:00 PM APRIL 31			
RETURNED APRIL 1 10:30 PM.			
FIRE			
DRILLER'S SIGNATURE			
CLEAN MUD TANKS + GRANGE	800		
HEADS + LINERS IN DITS	1215	44	
TEAR OUT B.O.P.	1215	400	37
LOAD OUT 2 TRUCKS.			
FOR BACKING SITE.			
By Released 3:00 PM			
DRILLER'S SIGNATURE			
TRANSFER #			
RENTAL EQUIPMENT ON HAND			
TOTAL			
TO			
KB. USED			
SAX			
CEM			
DAYS FROM SPUD			
TOTAL COMPANY TIME			
TOTAL CONTRACTOR'S TIME			
Approved by Operator's Representative			
Approved by Toolpusher			

EMPLOYEE IS REQUIRED TO SIGN PERSONALLY AT THE COMPLETION OF EACH SHIFT IF INJURY WAS RECEIVED SIGN AT BOTTOM OF SHEET ONLY.	
TOUR ① MIDNIGHT - 8 A.M.	Hrs.
Driller	
Derrick	
Motor	
Floor	
Floor	
Floor	
Floor	
Other	
INJURIES - COMPLETE BELOW	
TOUR ② 8 A.M. - 4 P.M.	Hrs.
Driller	
Derrick	
Motor	
Floor	
Floor	
Floor	
Other	
INJURIES - COMPLETE BELOW	
TOUR ③ 4 P.M. - MIDNIGHT	Hrs.
Driller	
Derrick	
Motor	
Floor	
Floor	
Floor	
Other	
INJURIES - COMPLETE BELOW	
Position	
Signature	
Hrs.	
Toolpushers Approval	
SAFETY TALKS	
Given By	
Subject	

CUSTOMER'S COPY

COM40033

COM40033

WELL DRILLING LOG

34 C LOCATION Crow Pass, Squaw Valley Lake, S.D. 6-7-90

TWP. _____ RGE. _____ W. _____ DATE MAY 31 1927

CCM-1-14

— BIG = 370

711

162.98

19 434 548.65

REMARKS

TIME

START STOP INTVL

EMPLOYEE IS REQUIRED TO SIGN PERSONALLY AT THE COMPLETION OF EACH SHEET IF INJURY WAS RECEIVED SIGN AT BOTTOM OF SHEET ONLY.

TOUR ① MIDNIGHT - 8 A.M.

Driller

Derrick

Motor

Floor

Floor

Floor

INJURIES - COMPLETE BELOW

TOUR ② 8 A.M. - 4 P.M.

Driller

Derrick

Motor

Floor

Floor

Other

INJURIES - COMPLETE BELOW

TOUR ③ 4 P.M. - MIDNIGHT

Driller

Derrick

Motor

Floor

Floor

INJURIES - COMPLETE BELOW

Position

Signature

Hours

Toolpushers Approval

SAFETY TALKS

Given By

Subject

COM40032

COM40032

COM 40032

DAILY DRILLING LOG
SECTIONS TO

HIG NO 340 LOCATION CDN Res Signal Ketter Lakes 649 TWP _____ RGE _____ W. _____ DATE MAR 30 19 71 DATE MAR 30/71 HIG = 340

MAILING _____ SHIPPING _____ MILES _____ ROAD _____ DAYS FROM _____

[illegible]

COM 40031

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COM 40031

INTG NO. 24C LOCATION Ches Res Signl Keltor Lake L.S. 6-19 TWP. _____ RGE. _____ W. _____ DATE MAR 29 1971 DATE MAR 29/71 RIG = 240
 MAILING _____ SHIPPING _____ MILES _____ ROAD _____ DAYS FROM _____
 POINT _____ MOVED _____ CONDITIONS _____ SPUD _____

CUSTOMER'S COPY

COM 40030

DAILY DRILLING LOG
DIRECTIONS TO
WELL

WIC NO 346 LOCATION

F-49

- 36

TWF

NCI

W.

9

MAR 28/71

DATE _____

CGM-1-1-

[illegible]

COM 40029

CUSTOMER'S COPY

COM 40029

[illegible]

COMMONWEALTH DRILLING

DAILY DRILLING LOG
DIRECTIONS TO
WELL

HOLE NO. 24 C LOCATION COAL RES. SIGNAL KELLEY LAKE 1549

TWP. RGE. W. DATE MAR 26/71

COM-111-P

DATE MAR 26/71 RIG = 24 P.

From	To	Drill Pipe	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly				
72	131	7	100		3	6	7.617		471				2				
No.	Site	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corrod.	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
2A	9 1/2	DB	3-1/2	122415	all	170	59	4			1	300	40				
WEIGHT: 12 in. 2 in. 4 in. 6 in. 8 in. 10 in. 12 in. 14 in. 16 in. 18 in. 20 in. 22 in. 24 in. 26 in. 28 in. 30 in. 32 in. 34 in. 36 in. 38 in. 40 in. 42 in. 44 in. 46 in. 48 in. 50 in. 52 in. 54 in. 56 in. 58 in. 60 in. 62 in. 64 in. 66 in. 68 in. 70 in. 72 in. 74 in. 76 in. 78 in. 80 in. 82 in. 84 in. 86 in. 88 in. 90 in. 92 in. 94 in. 96 in. 98 in. 100 in.																	
VISCOSITY: 37 41 37																	
GEL: 1.62 1800																	
W.L. F.C. pH. DESILTER: Hours Ops. U. Flow: O. Flow: SURVEYS: At Feet: Digress: 4																	
ADDITIVES: CAUSTIC 50# 1.62 1800#																	
Weather: Water: Bbls. Drilling: Size: Make: Serial No. No. Lines: Trips: Ten Miles: Total Miles: Slip: Feet or Cut: At Miles: Date: Slip or Cut: Next Slip: Ft. Left on Spool:																	
From	To	Drill Pipe <th>Stands</th> <th>Singles</th> <th>DRILL COLLARS</th> <th>No.</th> <th>O.D.</th> <th>I.D.</th> <th>Length</th> <th>Air Wt.</th> <th>Sub. Wt.</th> <th>C.B. Ft.</th> <th>Fl. up on Kelly</th>	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly				
131	274	5 1/2	150		3	6	7.617		471				2				
No.	Site	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corrod.	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
2A	9 1/2	DB	3-1/2	122415	all	170	59	4			1	300	40				
WEIGHT: 12 in. 2 in. 4 in. 6 in. 8 in. 10 in. 12 in. 14 in. 16 in. 18 in. 20 in. 22 in. 24 in. 26 in. 28 in. 30 in. 32 in. 34 in. 36 in. 38 in. 40 in. 42 in. 44 in. 46 in. 48 in. 50 in. 52 in. 54 in. 56 in. 58 in. 60 in. 62 in. 64 in. 66 in. 68 in. 70 in. 72 in. 74 in. 76 in. 78 in. 80 in. 82 in. 84 in. 86 in. 88 in. 90 in. 92 in. 94 in. 96 in. 98 in. 100 in.																	
VISCOSITY: 34 37 40 50																	
GEL: 6 1/2 x 12																	
W.L. F.C. pH. DESILTER: Hours Ops. U. Flow: O. Flow: SURVEYS: At Feet: Digress: 4																	
ADDITIVES: 1.62 1800#																	
Weather: Water: Bbls. Drilling: Size: Make: Serial No. No. Lines: Trips: Ten Miles: Total Miles: Slip: Feet or Cut: At Miles: Date: Slip or Cut: Next Slip: Ft. Left on Spool:																	
From	To	Drill Pipe <th>Stands</th> <th>Singles</th> <th>DRILL COLLARS</th> <th>No.</th> <th>O.D.</th> <th>I.D.</th> <th>Length</th> <th>Air Wt.</th> <th>Sub. Wt.</th> <th>C.B. Ft.</th> <th>Fl. up on Kelly</th>	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up on Kelly				
274	361	3 3/4	150		3	6	7.617		471				2				
No.	Site	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corrod.	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
2A	9 1/2	DB	3-1/2	122415	all	170	59	4			1	300	40				
WEIGHT: 12 in. 2 in. 4 in. 6 in. 8 in. 10 in. 12 in. 14 in. 16 in. 18 in. 20 in. 22 in. 24 in. 26 in. 28 in. 30 in. 32 in. 34 in. 36 in. 38 in. 40 in. 42 in. 44 in. 46 in. 48 in. 50 in. 52 in. 54 in. 56 in. 58 in. 60 in. 62 in. 64 in. 66 in. 68 in. 70 in. 72 in. 74 in. 76 in. 78 in. 80 in. 82 in. 84 in. 86 in. 88 in. 90 in. 92 in. 94 in. 96 in. 98 in. 100 in.																	
VISCOSITY: 35 35 35 40																	
GEL: 6 1/2 x 12																	
W.L. F.C. pH. DESILTER: Hours Ops. U. Flow: O. Flow: SURVEYS: At Feet: Digress: 4																	
ADDITIVES: 1.62 1800#																	
Weather: Water: Bbls. Drilling: Size: Make: Serial No. No. Lines: Trips: Ten Miles: Total Miles: Slip: Feet or Cut: At Miles: Date: Slip or Cut: Next Slip: Ft. Left on Spool:																	
B.O.P. Tested: Blowed: Pressure: Packing & Seal Inspected: Crown & Main Chm. d. Fuel on Hand 12:01 a.m. gals. Fuel Rec'd Today (add) gals. TOTAL gals. TO KE. USED SAX CEM. PLUS PLUG DOWN A.M. P.M. DAYS FROM SPUD. TOTAL COMPANY TIME HRS. TOTAL CONTRACTOR'S TIME HRS.																	
FUEL USED: gals. CEMENT RETURNS: (YES/NO) EQUIPMENT CHANGES: Approved by Operator's Representative: Approved by Toolpusher: Approved by Safety Talks: Given By: Subject:																	

CUSTOMER'S COPY

COM 40027

COM 40027

FIG. 10. JFC LOCATION: COUTRIS. SIGNAL: KILLER LAKE. E. 59

NW. _____ EGE. _____ W. _____ DATE MARCH 25 1971 COM-1-1-F
 MILES _____ ROAD _____ DATE MARCH 25 1971

[illegible]

COM40026

DAILY DRILLING LOG
INSTRUCTIONS TO
DRILLER

REC NO 340 LOCATION Edwards Lyndell Keller Lake LSD 6-49 RGE. W. DATE February 24 19 71 DATE 11 Dec. 24/71 RIG = 340
MAILING POINT _____ SHIPPING POINT _____ MILES MOVED _____ ROAD CONDITIONS _____ DAYS FROM SHUC _____

From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	C.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up or Kelly		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
12 mn.	2 a.m.	4 a.m.	6 a.m.	12 mn.	2 a.m.	4 a.m.	6 a.m.	12 mn.	2 a.m.	4 a.m.	6 a.m.	12 mn.	2 a.m.	4 a.m.	6 a.m.	12 mn.	2 a.m.
WEIGHT				No. 1				No. 2									
VISCOSITY				MODEL				MODEL									
GEL				LINER SIZE				LINER SIZE									
W.L.	F.C.	pH.	DESILTER: Hours On				U. Flow:	O. Flow:	SURVEYS								
ADDITIVES:												GENERAL:					
												Weather		Water			
												Temp.		H. Left on Spool			
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ten Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool				
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up or Kelly		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
8 a.m.	10 a.m.	12 noon	2 p.m.	8 a.m.	10 a.m.	12 noon	2 p.m.	8 a.m.	10 a.m.	12 noon	2 p.m.	8 a.m.	10 a.m.	12 noon	2 p.m.	8 a.m.	10 a.m.
WEIGHT				No. 1				No. 2									
VISCOSITY				MODEL				MODEL									
GEL				LINER SIZE				LINER SIZE									
W.L.	F.C.	pH.	DESILTER: Hours On				U. Flow:	O. Flow:	SURVEYS								
ADDITIVES:												GENERAL:					
												Weather		Water			
												Temp.		H. Left on Spool			
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ten Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool				
From	Footage	To	Hrs. on Bottom	Wt. Drill Pipe (1000 lbs.)	Stands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Fl. up or Kelly		
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Cored	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
4 p.m.	6 p.m.	8 p.m.	10 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	4 p.m.	6 p.m.	8 p.m.	10 p.m.	4 p.m.	6 p.m.
WEIGHT				No. 1				No. 2									
VISCOSITY				MODEL				MODEL									
GEL				LINER SIZE				LINER SIZE									
W.L.	F.C.	pH.	DESILTER: Hours On				U. Flow:	O. Flow:	SURVEYS								
ADDITIVES:												GENERAL:					
												Weather		Water			
												Temp.		H. Left on Spool			
Drilling Line Record	Size	Make	Serial No.	No. Lines	Trips	Ten Miles	Total Miles	Slip	Feet or Cut	At Miles	Date Slip or Cut	Next Slip	Fl. Left on Spool				
B.O.P.	Tested	Elapsed Time	Pressure	Packing & Seal Inspected Date	Crown, Gate Chkd.	Fuel on Hand 12.01 a.m.		gals.						PAN			
Prod. Rate					Big Valve Chkd.	Fuel Rec'd Today (add)		gals.						KB. USED			
Blind Pams.					Small Valve Chkd.	TOTAL		gals.		TO				PLUG DOWN			
					Fire Equip. Chkd.	Fuel on Hand 11.59 a.m. (educt)		gals.		PLUS							
TOTAL PING ON BIT					Ball-Operated	Hrs.	FUEL USED		gals.		CEMENT RETURNS - (YES/NO)						

REMARKS		TIME		
		START	STOP	INTV
Dig up Tangston House		12:00	8:50	8
FIRES		DRILLER'S SIGNATURE		
Dig up Tangston House		8:50	4:00	8
FIRES		DRILLER'S SIGNATURE		
Dig up Tangston House		4:00	12:00	8
FIRES		DRILLER'S SIGNATURE		
JTS		CSG	RENTAL EQUIPMENT ON HAND	
SAX		CEM	TRANSFER #	
A.M.		DAYS FROM SPUD.		TOTAL COMPANY TIME
P.M.				TOTAL CONTRACTOR'S TIME
EQUIPMENT CHANGES		Approved by Operator's Representative		
		Approved by Toolpusher		

EMPLOYEE IS REQUIRED TO SIGN PERSONALLY AT THE COMPLETION OF EACH SHIFT. IF INJURY HAS RECEIVED SIGN AT BOTTOM OF SHEET ONLY.					
TOUR ① MIDNIGHT - 8 P.M.					Mrs.
Driller	<i>Fritz Tabor</i>				7
Derrick	<i>Albert Fushak</i>				8
Motor	<i>Kirk Kintner</i>				8
Floor	<i>Brian Drake</i>				8
Floor					
Floor					
INJURIES - COMPLETE BELOW					
TOUR ② 8 A.M. - 4 P.M.					Mrs.
Driller	<i>Dennis Hunter</i>				8
Derrick	<i>Gail Bonner</i>				8
Motor	<i>Larry Kim</i>				8
Floor	<i>Alden Branstad</i>				8
Floor					
Floor	<i>H. J. Barrett</i>				8
Other					
INJURIES - COMPLETE BELOW					
TOUR ③ 4 P.M. - MIDNIGHT					Mrs.
Driller	<i>Towell Eekline</i>				8
Derrick	<i>Wm. H. P. Oski</i>				8
Motor	<i>Harold Green</i>				8
Floor	<i>Randy Lamore</i>				8
Floor					
Floor					
INJURIES - COMPLETE BELOW					
Position		<u>Sig</u>	Signature		H
Toolpushers Approval		<i>F. Metherell</i>			
		SAFETY TALKS			
Given By:					
Subject:					
MRS.					

COM 40125

COM 401

COMMONWEALTH DRILLING

DAILY DRILLING LOG
DIRECTIONS TO
WELL

RIG NO.

LOCATION

L.S.D.

T.M.P.

H.C.E.

W.

DATE

MAY 22

1971

DATE

COM-1-1-P

MAILING
POINTSHIPPING
POINTMILES
MOVEDROAD
CONDITIONSDAYS FROM
SPUD

From	To	Wt. on Bottom	Wt. Drill Pipe (1000 lbs.)	Strands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Dr. up on Kelly			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corred	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
12 in. 2 g. 1/2 in. 4 g. 1/2 in. 6 g. 1/2 in. 12 in. 2 g. 1/2 in. 4 g. 1/2 in. 6 g. 1/2 in. 12 in. 2 g. 1/2 in. 4 g. 1/2 in. 6 g. 1/2 in. Next Oil Change																	
WEIGHT																	
VISCOSITY																	
GEL																	
W.L. F.C. pH. DESILTER: Hours Op: U. Flow: O. Flow: SURVEYS At Feet (log scale)																	
ADDITIVES: GENERAL:																	
Drilling Line Record																	
From	To	Wt. on Bottom	Wt. Drill Pipe (1000 lbs.)	Strands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Dr. up on Kelly			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corred	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
8 a.m. 10 a.m. 12 noon 2 p.m. 4 a.m. 10 a.m. 12 noon 2 p.m. 8 a.m. 10 a.m. 12 noon 2 p.m. Next Oil Change																	
WEIGHT																	
VISCOSITY																	
GEL																	
W.L. F.C. pH. DESILTER: Hours Op: U. Flow: O. Flow: SURVEYS At Feet (log scale)																	
ADDITIVES: GENERAL:																	
Drilling Line Record																	
From	To	Wt. on Bottom	Wt. Drill Pipe (1000 lbs.)	Strands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Dr. up on Kelly			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corred	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
4 p.m. 6 p.m. 8 p.m. 10 p.m. 4 p.m. 6 p.m. 8 p.m. 10 p.m. 4 p.m. 6 p.m. 8 p.m. 10 p.m. Next Oil Change																	
WEIGHT																	
VISCOSITY																	
GEL																	
W.L. F.C. pH. DESILTER: Hours Op: U. Flow: O. Flow: SURVEYS At Feet (log scale)																	
ADDITIVES: GENERAL:																	
Drilling Line Record																	
From	To	Wt. on Bottom	Wt. Drill Pipe (1000 lbs.)	Strands	Singles	DRILL COLLARS	No.	O.D.	I.D.	Length	Air Wt.	Sub. Wt.	C.B. Ft.	Dr. up on Kelly			
No.	Size	Type	Jets/W.C.	Serial No.	Wgt.	R.P.M.	Drilled or Corred	Hrs.	Reamed	Hrs.	Pump No.	Pump Pressure	S.P.M.	Table Torque	T.	B.	G.
4 p.m. 6 p.m. 8 p.m. 10 p.m. 4 p.m. 6 p.m. 8 p.m. 10 p.m. 4 p.m. 6 p.m. 8 p.m. 10 p.m. Next Oil Change																	
WEIGHT																	
VISCOSITY																	
GEL																	
W.L. F.C. pH. DESILTER: Hours Op: U. Flow: O. Flow: SURVEYS At Feet (log scale)																	
ADDITIVES: GENERAL:																	
Drilling Line Record																	

B.O.P.	Turned	Elapsed Time	Pressure	Packing & Seal	Inspecting Date	Crown & Motor	Ch'd.	Fuel on Hand 12:01 a.m.	gals.	RENTAL EQUIPMENT ON HAND	TRANSFER #
Hydral						Re Savers	Ch'd.	Fuel Rec'd Today (add)	gals.		
Pack Ram.						Kelly Cocks	Ch'd.	Fuel on hand 11:59 p.m. (deduct)	gals.		
Blind Ram.						Fire Pump	Ch'd.	FUEL USED	gals.		
TOGETHER ON P-11 #											
FUEL USED											
CEMENT RETURNS - (YES/NO)											
EQUIPMENT CHANGES											
APPROVED BY OPERATOR'S REPRESENTATIVE											
APPROVED BY TOOLPUSHER											

REMARKS

TIME

MOVE RIG & CAMP.

8:00 8:00

4 MEN SWAPING 60 TRUCKS
FOR 8 HRS. 0 TRUCKS

FIRES

DRILLER'S SIGNATURE

MOVE CAMP & RIG
RIG UP CAMP.

8:00 4:00 8:00

FIRES

DRILLER'S SIGNATURE

RIG UP CAMP

400 800

ONE MAN SWAPING 60
FOR 8 HRS. 0 TRUCKS.

FIRES

DRILLER'S SIGNATURE

EMPLOYEE IS REQUIRED TO SIGN PERSONALLY AT THE COMPLETION OF EACH SHIFT IF INJURY WAS RECEIVED SIGN AT BOTTOM OF SHEET ONLY.

TOUR ① MIDNIGHT - 8 A.M.

Hrs.

Driller Eric Dufrenoy 16

Derrick Albert Patschke 16

Motor Keith Kinsman 16

Floor Brian Janske 16

Floor J. J. Barrett 16

Floor

Floor

INJURIES - COMPLETE BELOW

TOUR ② 8 A.M. - 4 P.M.

Hrs.

Driller

Derrick

Motor

Floor

Floor

Floor

Other

INJURIES - COMPLETE BELOW

TOUR ③ 4 P.M. - MIDNIGHT

Hrs.

Driller Lowell Kinsman 12

Derrick Scott Kinsman 12

Motor Kenneth Green 14

Floor Randy Passmore 12

Floor

Floor

INJURIES - COMPLETE BELOW

Position Signature Hrs.

Toolpushers Approval

SAFETY TALKS

Given By:

Subject:

COM 40123

CUSTOMER'S COPY

COM 40123

DAILY DRILLING LOG
DIRECTIONS TO
WELL

RIG NO. 34C LOCATION CON RES. SIGNAL K.L. F.B. LSD. 073 SEC. _____ TWP. _____ RGE. _____ W. _____ DATE March 21 1971 DATE March 21/71 CDM-1-1-F
MAILING POINT _____ SHIPPING POINT _____ MILES MOVED _____ ROAD CONDITIONS _____ DAYS FROM SPW _____ RIG = 34C

[illegible]

COM40122

CUSTOMER'S COPY

COM 40