

FILE NOTATIONS

Entered in NID File ✓
Location Map Pinned ✓
Card Indexed ✓

Checked by Chief
Approval Letter 12-19-76
Disapproval Letter

Paul
12-19-76

COMPLETION DATA:

Date Well Completed
W..... WW..... TA.....
JW..... OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log.....
Electric Logs (No.)
E..... I..... Dual I Lat..... GR-N..... Micro.....
MHC Sonic GR..... Lat..... Mi-L..... Sonic.....
CCLog..... CCLog..... Others.....

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

B. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
SUN OIL COMPANY

3. ADDRESS OF OPERATOR
P. O. BOX 1798, DENVER, COLORADO 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface **1280' SNL, 660' WEL SEC 8 (SE NE)**
 At proposed prod. zone **SAME**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
20 MILES SOUTH OF ESCALANTE, UTAH

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
660'

16. NO. OF ACRES IN LEASE
2400

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
8700'

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6710' GR

22. APPROX. DATE WORK WELL START*
10/20/70

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26	24	Galvert Pipe	40'	25 sac
13-3/4	8-5/8	28# & 24#	3000'	650 sac
7-7/8	5-1/2	17# & 15.5#	8700'	450 sac

PROGRAM:

1. Set conductor at 40'
2. Drill to approximately 3000', run and cement surface pipe w/2-1/16" tubing parasite string. Install BOP and test casing to 1000' per 15 min (BOP equipment will be checked daily).
3. Drill to approximately 8700'. Run IR, Density & Sonic Logs. Run drill stem tests as required.

Certified Location Plats are attached.
 There are no plans for directional drilling of this well.
 All indications of fresh water will be reported.
 Three copies of the Designation of Operator are attached.
 Attached are three copies of Southland Royalty Company's Nationwide Oil & Gas Bond.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED John Healy TITLE Production Engineer DATE October 15, 1970

(This space for Federal or State office use)
 PERMIT NO. 13-025-36007 APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

*Mr. Harry J. Jones
District Chief, Denver*

October 19, 1970

Sun Oil Company
Box 1798
Denver, Colorado 80201

Re: Well No. Lyons Federal #1
Sec. 8, T. 38 S, R. 3 E,
Kane County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well on said unorthodox location is hereby granted in accordance with Rule C-3(e). However, this approval is conditional upon a surveyor's plat being furnished this office.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL-Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

This approval terminates within 90 days if the well has not been spudded-in within said period.

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation with regard to completing this form will be greatly appreciated.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd
cc: U.S. Geological Survey

11-22-70
Received
Surveyor's
Plat with
collected
postage
Well
at the office
SO

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
SUN OIL COMPANY

3. ADDRESS OF OPERATOR

4. LOCATION OF WELL (Report location, lease, and in accordance with any State requirements.)
 At surface

1920' SNL, 660' WEL SEC 8 (SE NE)
 At proposed prod. zone
Corrected report

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest 4th unit line, if any)
660'

16. NO. OF ACRES IN LEASE
2400

17. NO. OF ACRES ASSIGNED TO THIS WELL
60

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH
8700

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6710' GR

22. APPROX. DATE WORK WELL START*
10/20/70

28. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26	24	Calvert Pipe	40'	25 sac
13-3/4	8-5/8	28# & 24#	3000'	600 sac
7-7/8	5-1/2	17# & 15.5#	8700'	400 sac

PROGRAM:

1. Set Conductor at 40'
2. Drill to approximately 3000', run and cement surface pipe w/2-1/4" tubing Parasite String. Install BOP and test casing to 1000 psi for 15 min (BOP equipment will be checked daily).
3. Drill to approximately 8700'. Run IR, Density & Sonic Logs. Run drill stem tests as required.

Attached are three copies of Southland Royalty Company's Nationwide Oil & Gas Bond. Certified Location Plats are attached. There are no plans for directional drilling of this well. All indications of fresh water will be reported. Three copies of the Designation of Operator are attached.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Production Engineer DATE October 19, 1970

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

MEMORANDUM

Subject REVISED NOTICE OF INTENTION TO DRILL

Date 10-19-70

From William G. Blackhall

to USGS & State of Utah

Enclosed is a revised copy of Intention to Drill on the Lyons-Federal #1 which changes the footage figures to correspond with the plat. It seems that I had transposed the figures.

Need letter

COMPANY SUN OIL COMPANY

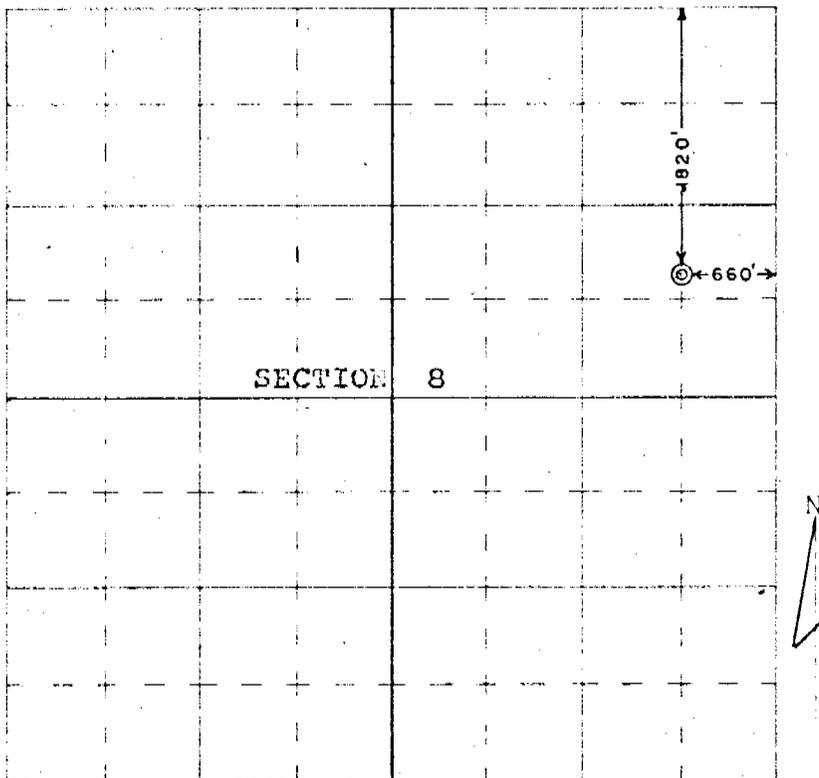
Well Name & No. Lyons-Federal No. 1 Lease No. _____

Location 1820 feet from the North Line and 660 feet from the East Line

Section SE NE

Sec. 8, T. 38S, R. 3E S.L.M., Kane County, Utah

Ground Elevation 6710' ungraded



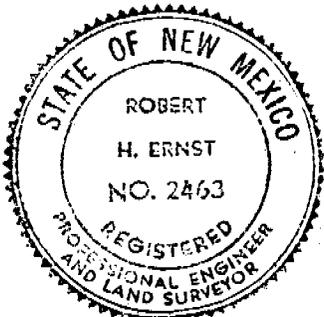
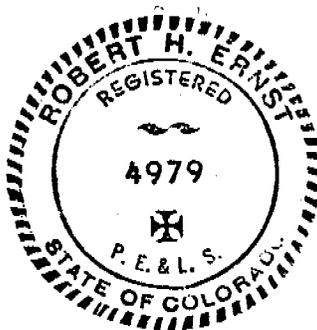
Scale -- 4 inches equals 1 mile

Surveyed 15 September, 19 70

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Ernst Engineering Co.
Durango, Colorado 81301

Registered Professional
Engineer and Land Surveyor.
Robert H. Ernst
Colorado PE & LS 4979
New Mexico PE & LS 2463



Branch of Oil and Gas Operations
8416 Federal Building
Salt Lake City, Utah, 84111

October 22, 1970

Sun Oil Company
P.O. Box 1798
Denver, Colorado 80201

Re: Application for Permit to Drill
Well No. 1 Lyons-Federal
SE~~1/4~~ sec. 8, T38S, R3E, S1M
Kane County, Utah
U 8238-A

Gentlemen:

Enclosed herewith are all three copies of your application dated October 15, 1970. Our records show the lease number on which the well is to be drilled to be U 8238-A rather than U 8238, so we took the liberty of changing your application dated October 19 to show the A postscript on the lease number.

The location at which you propose drilling is located in an area which has been classified as valuable for coal. Nearby work indicates probable future coal mining. The coal bearing formation is the Straight Cliffs. The top of the Straight Cliffs is either at or near the surface and it should be about 1000' thick. Therefore, in addition to the normal conditions of approval attached to the application the following requirements must be met:

1. Surface casing: The surface casing should be cemented from 1200' to the surface. Due to the possibility of lost circulation in this area, we suggest a diversion collar be placed in the casing string so that cement can be circulated from 1200' to the surface in addition to the 600 sacks you originally proposed.
2. IE, Density and Sonic logs should be run in the well from the surface casing setting depth to the bottom of the conductor pipe before the surface casing is run. Please be sure one of the logs includes a hole caliper.
3. Samples should be taken at 5' intervals from surface to 1200' and described.

4. Most importantly the surface location of the well should be tied to an established, found corner, and a directional survey run in the well from the surface to at least 1200' so that the precise subsurface location of the well bore may be determined in the future.

If you have any questions, please feel free to contact me.

Sincerely yours,



Gerald R. Daniels

cc: Casper
BMC - Salt Lake City
BMO - Salt Lake City
File ✓
✓Utah Division of Oil & Gas Conservation

GRD:ld

PAB
FI

2

Branch of Oil and Gas Operations
8416 Federal Building
Salt Lake City, Utah 84111

October 27, 1970

Mr. John Hastings
Sun Oil Company
P. O. Box 1798
Denver, Colorado 80201

Re: Well No. 1 Lyons-Federal
SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, T. 38 S., R. 3 E.
Kane County, Utah
Utah 8238-A

Dear Mr. Hastings:

This is to confirm the agreement reached by telephone on October 26, 1970, regarding the conditions of approval contained in my letter of October 22, 1970, attached to your copy of the Application for Permit to Drill the referenced well.

Regarding condition No. 1 - Surface Casing: It will be acceptable if you drill the well by setting the surface casing in the best possible place at or near the proposed setting depth of 3000' for the 8 5/8" casing to be cemented with 600 sacks of cement. If the test is a dry hole or failure, an attempt will be made to pull the 8 5/8" from about 1000 feet with the various coal stringers, as determined from the logs, to be protected with cement. If the well is productive, an attempt will be made to perforate the 8 5/8" and protect the various coal stringers by circulating cement. This alternative method is developed to protect actual found coal stringers as determined by the logs rather than to attempt to circulate cement from 1200' to the surface which would very likely be unsuccessful. If the surface casing is removed and cement spotted in the open hole, it will be necessary to tag the plugs. If cement is circulated through casing perforations, either a bond log or a temperature log should be used to verify the location of the cement.

Condition No. 2 will be satisfied if you run the Electrical-Density-Caliper log which is available to you in the area.

Condition 4: I understand you will send the field notes taken for the surface location and provide a directional survey for the upper 1200' of the well.

Sincerely,

(ORIG. SGD.) G. R. DANIELS

✓ Utah Div. of O&G Conservation
cc: Casper
BMC, SLC
BMO, SLC

Gerald R. Daniels
District Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-3238-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER Drilling well

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Sun Oil Company

8. FARM OR LEASE NAME

Lyons-Federal

3. ADDRESS OF OPERATOR
P. O. Box 1798, Denver, Colorado 80201

9. WELL NO.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

10. FIELD AND POOL, OR WILDCAT

Wildcat

1820' SNL, 660' WEL, Sec. 8 (SE NE)

11. SEC., T., R., M., OR BLE, AND SURVEY OR AREA

Section 8-38S-3E

14. PERMIT NO.

--

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

6710' Ground

12. COUNTY OR PARISH

Kane

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Report of Surveys

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*
Ran 40' of 22" conductor casing cemented with 80 sacks. Ran 2722' of 8-5/8" casing with 2-1/16" parasite string attached to 2659', used 500 sacks common with 3% gel and 100 sacks common. TOTCO survey results:

	Dev.	Depth	Max. Drift (ft)
	1/4	80	0.35
	1/4	170	0.39
1		381	3.68
1	1/4	469	1.92
	3/4	558	1.17
	1/2	651	0.81
	1/2	778	1.11
	3/4	997	2.87
	3/4	1092	1.24
	1/2	1156	0.56
1		1281	2.18
			16.28

Sun Oil will not run a directional survey unless otherwise advised.

18. I hereby certify that the foregoing is true and correct

SIGNED

J. B. Hastings
J. B. Hastings

TITLE

District Engineer

DATE

11-25-70

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

PLUGGING PROGRAMS

NAME OF COMPANY: Sun Oil Co.

WELL NAME: Hynds Federal #1

Sec. 8 Township 37S Range 3E County Kan

Verbal Approval Was Given to Plug the Above Mentioned Well in the Following Manner:

Type Mudaj's - 3760'
Chule - 5760'
Shinarump - 6326'
Muskopi - 7130'
White Run - 7340'
Mowcap - 7465'
Cremino - 7765'
Cedar Mesa - 8136'

T.D. 8290'
8 5/8" casing at 2722' with
600
parasite string at 2659'

Plug

4700 - 4300
6300 - 6200
4800 - 4700

fresh water

50 sacks pumped down parasite string
15 sacks at sugar

Commercial Coal in Dakota - behind sugar pipe.

Date Approved: 12-2-70

Signed: Scheu

(taken from USGS)

FORM OGC-8-X

FILE IN QUADRUPLICATE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Lyons-Federal No. 1
Operator Sun Oil Company Address Denver, Colorado Phone 266-2181
Contractor Loffland Brothers Co. Address Midland Savings Bldg. Phone 255-2079
Denver, Colorado
Location SE 1/4 NE 1/4 Sec. 8 T. 38S R. 3 E Kane County, Utah
S **

Water Sands:

From	Depth	To	Volume		Quality
			Flow Rate	or Head	
1.	None encountered				
2.					
3.					
4.					
5.					

(Continue on reverse side if necessary)

Formation Tops:

Dakota	1958	Chinle	5760	Totoweap	7465
Winsor	2110	Shinarump	6326	Coconino	7765
Carmel	2520	Moenkopi	6460	Organ Rock	7798
Navajo	3760	Kaibab	7176	Cedar Mesa	8136

Remarks:

- NOTE:
- (a) Upon diminishing supply forms, please inform this office.
 - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See Back of form).
 - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R3555.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
Sun Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 1798, Denver, Colorado 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **1820' SML, 660' WEL Section 8 (SE NE)**

At top prod. interval reported below

At total depth
same

14. PERMIT NO. _____ DATE ISSUED _____

5. LEASE DESIGNATION AND SERIAL NO.
U-8238-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-

7. UNIT AGREEMENT NAME
-

8. FARM OR LEASE NAME
Lycan-Federal

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 8-385-3E

12. COUNTY OR PARISH
Kane

13. STATE
Utah

15. DATE SPUNDED **10-27-70** 16. DATE T.D. REACHED **12-1-70** 17. DATE COMPL. **12-3-70** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **6710 Ground** 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD **8290** 21. PLUG, BACK T.D., MD & TVD - 22. IF MULTIPLE COMPL., HOW MANY* - 23. INTERVALS DRILLED BY **0-8290** ROTARY TOOLS **0-8290** CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None **Sonic-Gamma Ray; Proximity Log-Microlog; Neutron Porosity Log; Dual Induction-Laterolog;**

25. WAS DIRECTIONAL SURVEY MADE
yes No

26. TYPE ELECTRIC AND OTHER LOGS RUN
Compensated Formation Density Log

27. WAS WELL CORED
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
22"	Calvert Pipe	40	26"	80 sacks	None
8-5/8"	28#, 24#	2722	13-3/4"	600 sacks	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS
Well History attached. Logs will be submitted by Schlumberger

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED *John B. Hastings* TITLE **Dist. Petr. Engr.** DATE **12-15-70**

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

DEC 21 1970

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES						
			<p>DST #1 6339-6435 3/4 x 1/4" chks, open 1/2 hr, S.I. 1 hr, open 1 hr, S.I. 1 hr, open 1 hr, S.I. 3 hrs, good blow thruout rec. 558' rat hole mud, 270' mud cut wtr, 3438' fresh wtr, 1350 Chl, BHPT 931/1808/1888, BHPI 2127/1888/1914, MW 2260/2154 BH Temp. 116 deg. F., chamber rec. 2500 cc fresh wtr, zero press, zero gas.</p> <p>DST #2 7135-7152 3/4 x 1/4" chk open 2 hrs wk blo, MWP-0, rec 640' mud cut wtr, 2429' Chl, IMWP/30 min/1957, BHPT/2 hrs/81-296, FBHP/2 hrs/1823, MW 2629, max. temp. 120 d. F., chamber rec 2400' cc fresh wtr.</p> <p>DST #3 7298-7330 3/4 x 1/4" chk open 4 hrs good blo MWP-0, rec 774' mud cut wtr, 3150 Chl, IMWP/15 min/2092, BHPT/106/426, FBHP/1 hr/1987, MW 2646, max temp. 120 deg F., Chamber rec 2100 cc fresh wtr.</p> <p>DST #4 8136-8152, 3/4 x 1/4" chk, MWP-0. open 1 1/4 hrs, no blow, rec. 60' mud, H.S. IMWP/1 hr/2305, BHPT-27/53, FBHP/1 hr/2226.</p>	<p>Dakota Winsor Carnal Navajo Chinle Shinarump Moenkopi Kaibab Toroweap Cocomino Organ Rock Cedar Mesa</p>	<p>1958 2110 2520 3760 5760 6326 6460 7176 7465 7765 7798 8136</p>	
38. GEOLOGIC MARKERS						

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

PI
000

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. U-6238-A	
2. NAME OF OPERATOR Sun Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -	
3. ADDRESS OF OPERATOR P.O. Box 1798, Denver, Colorado 80201		7. UNIT AGREEMENT NAME -	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1920' SWL, 660' WEL Section 8 (SE NE)		8. FARM OR LEASE NAME Lyons-Federal	
14. PERMIT NO. -		9. WELL NO. 1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6710 Ground		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 8-38E-3E	
		12. COUNTY OR PARISH Kane	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(Other) _____

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Plan to set the following cement plugs:

- 30 sack plug from 7400-7300'
- 30 sack plug from 6300-6200'
- 30 sack plug from 4800-4700'
- 50 sack plug from - down parasite string 2650-2500
- 15 sack plug at surface

Verbal permission to plug was obtained from Mr. Gerald Daniel.

18. I hereby certify that the foregoing is true and correct

SIGNED J. B. Hastings TITLE Dist. Engr. DATE 12-16-70
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

WELL DATA

Location: 1820' NL & 660' EL, Section 8, T38S - R3E. Kane Co., Utah.

Elevations: 6710' Gr. 6723' KB.

Interest Companies: Sun Oil, Phillips Petroleum, Southland Royalty.

Contractors: Loffland Brothers, Farmington, N. M. Rig 232.
Tiny Pickett, Tool Pusher.

Geologist: Harold H. Brown, Farmington, New Mexico.

Drilling Engineers: Henry Thomas, Sun Oil Company.
Harold Elledge, Consultant, Flint Engineering,
Billings, Montana.

Mud Logger: Underwood Logging, Farmington, New Mexico.

Mud Company: Don Linder, Mud man, Milchem, Farmington, New Mexico.

Cementing & Testing: Halliburton, Farmington, New Mexico.

Logging: Schlumberger, Farmington, New Mexico. Tom Oren, Engineer.

Casings: 13 3/4" @ 40' with 80 sacks.
8 5/8" @ 2722' with 500 sacks. 2 1/16" parasite string at 2659'.

Soud Date: 10/27/70.

Date Drilling Completed: 11/30/70.

Total Depth: Driller - 8290'. Logger - 8285'.

Cores: None

Drill Stem Tests: Three during drilling. One straddle Packer.

After setting 40 feet of Conductor pipe, a 13 3/4" hole was drilled to 2722' using six bits. Mud consisting of chem gel and crude oil from the Upper Valley field was used to drill to the casing point. After setting the casing and parasite string, a 7 7/8" hole was drilled to total depth using sixteen 7 7/8" bits. The mud was continually aerated with the parasite string to avoid lost circulation, mainly encountered in the Navajo sandstone in this area. Crude oil was continually added to the mud to keep it light weight until shortly before reaching the Timpoweap member. Before drilling into the Timpoweap only a trace of oil was reported in the mud. As high as 10% oil was reported in the mud during periods when oil was being added. During trips and after testing water would break in from the Navajo allowing oil lost to the formation to reenter and contaminate samples. An opinion on legitimate formation shows or contaminated samples is noted under Objective Formation Descriptions. The oil in the contaminated samples is a

light brown and has a dull yellow fluorescence similar to the crude. It gives a good cut similar to the crude though most of the cuts were considered to be poor. Future well site geologists should take note of these observations. The natural occurring oil in the formation is dark brown to black and has a dull yellow fluorescence and gives a good cut.

TESTING

Three Drill Stem Tests were taken during drilling operations and one was taken after total depth was reached. The results of testing are found on pages at the end of the report.

LOGGING

Schlumberger ran five logs as follows: Dual Induction - Laterolog, total depth to 2722'. Compensated Formation Density Log - Total depth to 2722' with the Gamma Ray run through the casing to 1450'. Borehole Compensated Sonic Log - Gamma Ray - Total depth to 6200'. Proximity Log - Microlog - Total depth to 6200'. Sidewall Neutron Porosity Log - Total depth to 6200'. The logging engineer, Tom Oren, made calculations for various zones of interest. These calculations are shown on a separate page at the end of the report.

The consulting geologist was on location during drilling of the section down to 2722' in order to pick a casing point, and from 5000' to total depth. Two sample logs were plotted for these intervals and are attached to the report. The logs have a description of the cuttings and also show drilling time. A microscope and ultra violet light were used to examine samples.

A mud logging unit was on location from 5316' to total depth and a log prepared by the logger has been provided to all interest owners. A sample of the fumes from a container of Upper Valley crude was run by the logger. About forty units was recorded on the hot wire but nothing was recorded on the chromatograph.

COMPLETION

Plugging orders were received on 12/2/70 and plugs were set as follows on 12/3/70: 30 sack plugs at 7400 - 7300', 6300 - 6200', 4800' - 4700'. The hole was blown down with the parasite string. Fifty sacks were pumped down the parasite string and displaced into the 8 5/8" casing. A plug was set at the top with 15 sacks and a marker was installed.

BIT RECORD AND DEVIATIONS

See attached page for Bit Record and Deviations. Six 13 3/4" bits were used and sixteen 7 7/8" bits were used.

OBJECTIVE FORMATION DESCRIPTIONS

Shinarump formation - The Shinarump ranges from 6326' to 6460' and is essentially a sandstone interbedded with thin grey shales. The sandstones are white to grey, very fine to coarse grained, angular, friable, with mica and pyrite and a white clay matrix between grains. The grains increase in size from top to bottom. Oil shows were noted from top to bottom and where porosity was good the samples could be classified as saturated. Since oil was being used in the mud through this formation the samples are believed to have been contaminated and no formation oil was present. A drill stem test was taken, DST No. 1, from 6339' - 6435' from which 4266 feet of fluid was recovered - 558' of mud, 270' HWCM and 3438' fresh water.

Timpoweap member - This member ranges from 7130' to 7176'. The top ten feet of samples is distinguished by a light green-grey shale with decimated pyrite and a light brown and white, dense, hard dolomite with decimated pyrite. Immediately below, for a thickness of about twelve feet, is a limestone, grey, oolitic, with dark brown oil spots breaking out between the oolites. The oil had a dull yellow fluorescence and gave a good streaming cut. For the remainder of the thickness, along with oolitic limestone, was a cream and light brown limestone, dense to very finely crystalline, sandy, glauconitic, poor to fair intercrystalline porosity, with some light brown staining, good fluorescence and poor cut. Some fracturing was observed with black oil. Oil had not been added to the mud for some few hundred feet above the Timpoweap and only a trace was reported. These samples are believed to have contained only formation oil and were not contaminated. DST No. 2, from 7135' - 7152', recovered 624 feet of mud cut fresh water. Oil probably has been present in this zone in quantity but has moved out.

Kaibab formation - This formation consists of cherty limestones and dolomites. The top twenty feet consists of a dolomitic limestone, pink, cream, dense, hard, with white chert. From 7195 feet to 7210 feet is a light grey to pink, cherty dolomite and from 7210 feet to 7225 feet most of the samples were white chert with some light grey dolomite. From 7225 feet to 7275 feet the section consisted of dolomite, light grey, dense to very finely crystalline, sandy, glauconitic with white chert and occasional traces of dead oil along fractures. From 7275 feet to 7310 feet it changed to a limestone, white, very finely crystalline, with chert and glauconite, and with poor to fair intercrystalline porosity. Some bright yellow fluorescence was observed and a very poor cut was obtained. At the base, from 7310 feet to 7340 feet, is a dolomite, light grey, finely crystalline (sucrosic), with some fair intercrystalline porosity, some bright yellow fluorescence and poor to fair cut. Since the logging unit recorded about twenty five units of gas on the hot wire and since this interval corresponded with a major producing interval at the Upper Valley field, it was decided to test. DST NO. 3, 7298 feet to 7330 feet - recovered 774 feet of mud cut water, with a slight oil odor. The shows in the Kaibab samples consisted of fluorescence that gave a cut. No free oil was observed as noted in the Timpoweap. It is questionable if these shows are from contamination or are indicating a flushed zone. The Kaibab ranges from 7176 feet to 7340 feet.

White Rim - This formation ranges from 7340 feet to 7465 feet and consists of interbedded sandstones and dolomites. No shows were observed. The sandstones were clear, white, tan, fine grained, angular to rounded, and ranged from tight to friable, but had a calcareous matrix that probably reduced permeability. The dolomites were white, tan, pink, dense, sandy.

Toroweap formation - The Toroweap ranges from 7465 feet to 7765 feet and consists of interbedded sandstones, anhydrite and dolomites. Most of the sandstone is confined to the upper 155 feet, down to 7620 feet, with some tan limestones and very finely crystalline anhydrite occurring near the middle. The sandstone begins as white in color but changes to red in about thirty five feet. The sandstones are white, red, tan, fine to medium grained, angular to rounded, tight to poor porosity. A show was seen in the samples from 7365 feet to 7575 feet in a sandstone grey, fine grained, subrounded, with poor porosity and dark brown oil spots. Since the show appeared to be in thin, fairly tight sandstones and also appeared to be water wet it was decided to view the logs for definition. The logs show two thin zones at 7552 feet to 7554 feet and 7570 feet to 7574 feet with 7 % porosity and 65% water saturation. The intervals were not considered for a test, in view of this information.

From 7620 feet to 7725 feet most of the section is dolomite, anhydrite and a few thin sandstones. Staining and spots of dark brown oil are scattered throughout this interval in the dolomites and some sandstones had similar shows. In the upper portion the dolomites are tan, brown, dense and sandy. Near the lower portion it becomes dark brown, dense to very finely crystalline and from 7695 feet to 7715 feet the samples had a good oil odor. Since the dolomites were tight and the shows appeared to be in thin zones it was decided to examine the logs for zones of interest. No significant porosity intervals appear on the logs and a test was not recommended. The shows in the Toroweap are believed to be from the formation and not from contamination.

The remainder of the Toroweap, from 7725 to 7765 feet, consists of grey shale and grey siltstone. Some dolomite had a trace of show.

Coconino sandstone - This formation was logged from 7765 feet to 7798 feet. It consists of shale, siltstone, dolomite and some sandstone near the base. The sandstone is white, fine grained, angular with scattered, coarse, rounded grains. No shows were observed.

Organ Rock formation - The formation ranges from 7798 feet to 8136 feet and consists almost entirely of orange shales and siltstones. The dolomite logged from 7815 feet to 7940 feet may be caving. No shows were observed in this formation.

Cedar Mesa formation - The top of this formation was picked at 8136 feet, the first porosity encountered. Sandstones typical of the Cedar Mesa were logged as high as 8070 - 8075 feet and the top could probably be called that high. The Cedar Mesa from 8136 feet to 8290 feet consisted of sandstone, white, fine grained, angular to subrounded with white clay matrix with green, lavender, purple shale in the interval 8165 to 8205 feet. From 8136 feet to 8164 feet a porous and permeable sandstone was encountered that had live, dark brown oil in the upper fifteen feet.

A black soft asphalt occurred immediately above this sandstone in fractures and probably in a grey shale and siltstone. The asphalt had no fluorescence or cut. After running logs it was decided to test the upper part of the sandstone from 8136 feet to 8152 feet. DST No. 4 recovered ninety feet of mud with no shows of oil or gas. From the porous and permeable appearance of this sandstone and the amount of porosity shown on the logs this test interval should have given up fluid. The tester declared that the test was good and the measurements of the tail pipe were correct to open the interval from 8136 feet to 8152 feet.

LOG FORMATION TOPS

Wahweap - Straight Cliffs - Surface
Tropic - 1480'
Dakota - 1958'
Winsor - 2110'
Carmel - 2520'
Navajo - 3760'
Chinle - 5760'
Shinarump - 6326'

Moenkopi - 6460'
Timpoweap - 7130'
Kaibab - 7176'
White Rim - 7340'
Toroweap - 7465'
Coconino - 7765'
Organ Rock - 7798'
Cedar Mesa - 8136'

CONCLUSIONS

All significant shows with porosity were tested. Except for DST No. 4 the recoveries reflected what the sample appearance indicated - though live oil was present water would be the dominant fluid. It was expected that water would be recovered from DST No. 4.

Harold H. Brown
Harold H. Brown

DRILL STEM TESTS

DST No. 1. 6339' - 6435'. Slid tool to bottom.

Ist Open - 30 minutes. Strong blow in two minutes, continued throughout.
Ist Shut In - 60 minutes.
2nd Open - 60 minutes. Strong blow in two minutes, continued throughout.
2nd Shut In - 60 minutes.
3rd Open - 60 minutes. Opened with strong blow in six minutes. Decreased slightly at end.
2nd Shut In - 180 minutes.
Recovered 558 feet of drilling mud, 270 feet of highly water cut mud, 3438 feet of fresh water. Total 4266 feet of fluid. BHT - 116 degrees.

<u>Pressures</u>	<u>Top Chart(6320')</u>	<u>Bottom Chart(6431')</u>
IHH	2313	2260
Ist Open	1037-1250	851 - 931
Ist Shut In	2127	2127
2nd Open	1329-1728	1356 - 1808
2nd Shut In	1835	1888
3rd Open	1755-1835	1808 - 1888
3rd Shut In	1861	1914
FHH	2074	2154

DST No. 2. 7135' - 7152'.

Ist Open - 15 minutes. Tool open with weak blow ($\frac{1}{4}$ " from top of water) increasing to 1" blow in 15 minutes.
Ist Shut In - 30 minutes.
2nd Open - Open with a very weak blow ($\frac{1}{8}$ "), increasing to $\frac{1}{2}$ " in 15 minutes, $1\frac{1}{2}$ " in 30 minutes, 2" in 45 minutes, 3" in 75 minutes, 4" in 100 minutes, 3" in 110 minutes, 3" in 120 minutes. Tool Open 120".
2nd Shut In - 120 minutes.
Recovered 624 feet of mud cut fresh water. No oil or gas. BHT 120 degrees.

<u>Pressures</u>	<u>Top Chart</u>	<u>Bottom Chart</u>
IHH	2607	2629
Ist Open	27-53	27-54
Ist Shut In	1941	1951
2nd Open	53-267	81-296
2nd Shut In	1809	1823
FHH	2609	2629

Sample Chamber Recovery - 2400 cc water. Cl 3600 ppm.

DRILL STEM TESTS CONTINUED

DST No. 3. 7298' - 7330'.

Ist Open - 15 minutes. Tool opened with weak blow ($\frac{1}{2}$ " from top of water) and remained throughout.

Ist Shut In - 15 minutes.

2nd Open - 240 minutes. Tool opened with weak blow, increased to good for remainder of test.

2nd Shut In - 120 minutes.

Recovered 774 feet of mud cut water - had oil odor. BHT - 120 degrees.

<u>Pressures</u>	<u>Top Chart</u>	<u>Bottom Chart</u>
IHH	3177	3273
Ist Open	53 - 80	80 - 106
Ist Shut In	2067	2096
2nd Open	80 - 400	106 - 426
2nd Shut In	1962	1987
FHH	2596	2646

Sample Chamber Recovery - 2100 cc Water. Cl 3150 ppm.

DST No. 4. 8136' - 8152' (Straddle Packer Test).

Ist Open - 20 minutes. No blow.

Ist Shut In - 1 hour.

2nd Open - $1\frac{1}{2}$ hours. No blow.

2nd Shut In - 1 hour.

Recovered 60 feet of mud. Good test reported by tester.

<u>Pressures</u>	<u>Top Chart (8100')</u>	<u>Middle Chart (8142')</u>
IHH	2939	3040.7
Ist Open	26.7 - 26.7	53.2 - 53.2
Ist Shut In	2305.5	2303.3
2nd Open	26.7 - 53.3	53.2 - 53.2
2nd Shut In	2226.1	2224.2
FHH	2939	3040.7

BIT RECORD

<u>BIT NO</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>DEPTH IN</u>	<u>DEPTH OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>
1	13 3/4	Reed	YT3A	0	575	575	16
2	"	"	"	575	1166	591	17
3	"	Hughes	OSC	1166	1511	345	9 1/4
4	"	Reed	YT3A	1511	1973	462	10
5	"	Hughes	OSC	1973	2493	520	16 1/4
6	"	Reed	YSI	2493	2722	229	6 3/4

1	7 7/8	Sec	S4TG	2722	3188	459	12 1/4
2	"	"	"	3188	3450	262	11 1/4
3	"	"	M4NG	3450	3606	156	11
4	"	Hughes	J-44	3606	5045	1439	69 3/4
5	"	Sec	M4NG	5045	5203	158	7 3/4
6	"	"	"	5203	5316	113	6 1/4
7	"	"	S-88	5316	6178	862	56
8	"	Reed	SC55	6178	6944	766	76
9	"	Smith	JS5	6944	7330	386	45 1/2
10	"	Sec	H7SG	7330	7437	107	10 3/4
11	"	"	M-88	7437	7698	251	36 1/4
12	"	Reed	SCH	7698	7854	156	32 1/4
13	"	"	YHG	7854	7944	90	16 1/4
14	"	Sec	H7SG	7944	8045	101	19
15	"	"	M88	8045	8190	155	32 1/4
16	"	HTC	WD7	8190	8290	100	8 1/4

DEVIATIONS

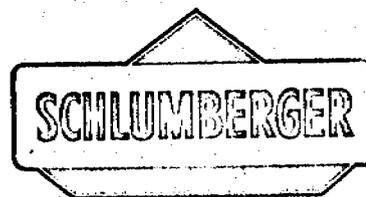
1/4 - 80'	1/2 - 2634'	2 1/2 - 4803'	3/4 - 7293'
1/4 - 170'	0 - 2797'	2 1/2 - 4898'	0 - 7419'
1 - 381'	1/2 - 2985'	3 - 4991'	1/2 - 7665'
3/4 - 558'	3/4 - 3173'	2 1/2 - 5119'	1/2 - 7818'
1/2 - 651'	1 3/4 - 3326'	2 1/2 - 5240'	1 - 7918'
1/2 - 778'	1 1/2 - 3421'	1 3/4 - 5371'	3 - 8160'
3/4 - 997'	1 1/4 - 3517'	2 - 5497'	
3/4 - 1092'	1 - 3612'	1 1/2 - 5623'	
1/2 - 1152'	1 - 3707'	1 3/4 - 5748'	
1 - 1281'	1 - 3798'	1 1/2 - 5874'	
1/2 - 1408'	1 1/4 - 3894'	1 - 6032'	
1/2 - 1471'	2 1/2 - 4080'	3/4 - 6155'	
1/2 - 1691'	2 1/4 - 4178'	1/2 - 6281'	
3/4 - 1879'	2 1/2 - 4278'	1 1/4 - 6407'	
1/2 - 1973'	2 - 4367'	3/4 - 6506'	
1/2 - 2132'	2 - 4461'	3/4 - 6633'	
1/2 - 2358	2 - 4584'	1/2 - 6885'	
1/4 - 2471'	3 - 4710'	1 1/4 - 7135'	

STAT	DEPTH	IC DEEP	P MED	R LL	R 16	GR	NEUT	HI	ΔT	DBULK				Rw	SW	REMARKS	
	8136-40	75								2.5				2.5	9	60	
	8140-42	55								2.47				"	11	60	
	8142-44	48								2.43				"	13½	52	
	8148-52	45								2.48				"	10	70	
	8152-55	42								2.44				"	12½	57	
	8155-62	35								2.48				"	10	80	
	8192-97	45								2.48				"	10	70	
	7114-78	45								2.47				"	11	65	
	7784-89	150								2.60				"	3	100	
	7552-54	126							58	2.63				"	7	65	
	7570-72	180							57	2.62				"	7	55	
	7427-42	33								2.47				"	11	75	
	7347-59	25								2.48				"	14	70	
	7150-70	90								2.68				"	8	59	
	7125-40	25												"	7	60	
	6352-60	30												"	14	62	
	6360-68	25												"	13	75	
	6368-84	25												"	14	68	

Rm..... @°F Formation.....

Rw..... @°F Vm..... DG.....

Company Sun Oil Company
 Lease Lyon's Federal #1
 Location Sec 8 TS 385 Rnge 3E



"The above interpretations represent our best judgement, and we are happy to give them to you. Nevertheless, since all interpretations are based on inferences from electrical and other measurements, we cannot and do not guarantee their accuracy or correctness, and we shall not be liable or responsible, except in the case of willful negligence on our part, for any loss, costs, damages or expenses that may be incurred or sustained from such interpretations."

Tom Owen
 Schlumberger Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424

LEASE INFORMATION AND SERIAL NO.

U-8238-A

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Dry Hole		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Sun Oil Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P.O. Box 1798, Denver, Colorado 80201		8. FARM OR LEASE NAME Lyons-Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1820' SNL, 660' WEL Sec. 8 (SE NE)		9. WELL NO. 1	
14. PERMIT NO. -		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6710 Grd.	
		12. COUNTY OR PARISH Kane	13. STATE Utah
		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 8-38S-3E	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Set the following cement plugs:

- 30 sack plug from 7400-7300
- 30 sack plug from 6300-6200
- 30 sack plug from 4800-4700
- 50 sack plug from - down parasite string 2650-2500
- 15 sack plug at surface

Location has been cleaned up and is ready for inspection.

18. I hereby certify that the foregoing is true and correct

SIGNED J.B. Hastings

TITLE Dist. Engr.

DATE 7-15-71

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

