

**FILE NOTATIONS**

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

Checked by Chief .....  
Approval Letter .....  
Disapproval Letter .....

*WP*  
5-22-73

**COMPLETION DATA:**

Date Well Completed *7-10-73* .....

Location Inspected .....

OW..... WW..... TA.....

Bond released

GW..... OS..... PA.....

State or Fee Land .....

**LOGS FILED**

Driller's Log..... ✓

Electric Logs (No.) .....

E..... I..... Dual I Lat..... GR-N..... Micro.....

BHC Sonic CR..... Lat..... MI-L..... Sonic.....

CBLog..... 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  
 Union Oil Company of California

3. ADDRESS OF OPERATOR  
 P. O. Box 2620 - Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface 2124' FEL & 2353' FNL (SW NE)  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 10 miles northeast of Aneth

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 2124'

16. NO. OF ACRES IN LEASE  
 1282.4

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 80

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 1200'

19. PROPOSED DEPTH  
 5450' ✓

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4822' GL

22. APPROX. DATE WORK WILL START\*  
 6-15-73

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 17-1/2"      | 13-3/8"        | 48#             | 150' ✓        | 200 sacks          |
| 12-1/4"      | 8-5/8"         | 24#             | 1500' ✓       | 825 sacks          |
| 7-7/8"       | 5-1/2"         | 15.5#           | 5450'         | 300 sacks          |

Union Oil Company of California proposes to:

Drill a 17-1/2" hole to 150'. Run and cement 13-3/8" casing. Drill a 12-1/4" hole to 1500'. Run and cement 8-5/8" casing. Drill a 7-7/8" hole to T.D. DST and cores at discretion of wellsite geologist. Run logs. If production indicated, run and cement 5-1/2" casing. Complete in the Ismay formation using 2-7/8" tubing. ✓

BOP will be installed and tested before drilling out casing shoe. Preventer will be given a daily operational test and the test logged. ✓

Union Oil Company of California is requesting an exception to Rule No. C-3 on account of topography; Union Oil Company and its partners own an oil and gas lease within a radius of 660' from the location. Location cleared with Cleon Feight, Utah Oil and Gas Conservation Commission on 5-14-73. ✓

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.

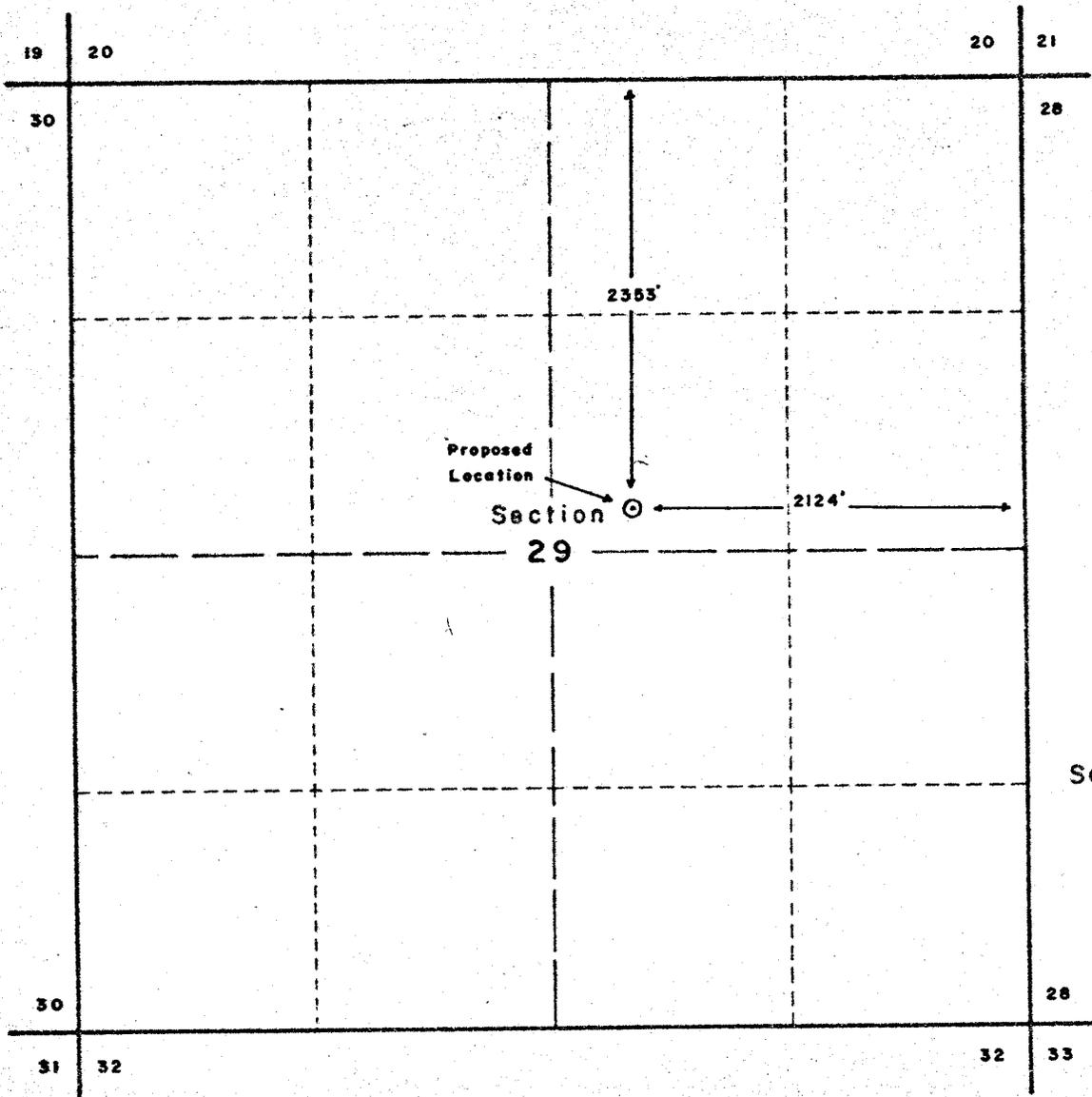
24. SIGNED R. G. Ladd, Jr. TITLE District Drilling Supt. DATE 5-16-73

(This space for Federal or State office use)

PERMIT NO. 43-037-30110 APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



**WELL LOCATION: UNION OIL COMPANY NO. 29 C-2 SOUTH ISMAY**

Located 2353 feet South of the North line and 2124 feet West of the East line of Section 29, Township 40 South, Range 26 East, Salt Lake Base and Meridian, San Juan County, Utah

Existing ground elevation determined at 4822 feet based on adjoining wells.

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

*Frederick H. Reed*

FREDERICK H. REED  
Registered Land Surveyor  
Reg. No. 2689



|   |                                      |
|---|--------------------------------------|
| <b>UNION OIL COMPANY</b><br>Durango, Colorado         |                                      |
| <b>WELL LOCATION PLAT</b>                             |                                      |
| Sec. 29, T. 40 S., R. 26 E.,<br>San Juan County, Utah |                                      |
| CLARK-REED & ASSOC.<br>Durango, Colorado              | DATE: May 10, 1973<br>FILE NO: 73042 |

May 22, 1973

Union Oil Company of California  
Box 2620  
Casper, Wyoming 82601

Re: Well No. Navajo #29-C2  
Sec. 29, T. 40 S, R. 26 E,  
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued under Cause No. 54, dated May 9, 1961.

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

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation relative to filing said forms will be greatly appreciated.

The API number assigned to this well is 43-037-30110.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT  
DIRECTOR

CBF:sd  
cc: U.S. Geological Survey

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*  
(Other instructions on re-verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-2055-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Navajo

9. WELL NO.

29-C2

10. FIELD AND POOL, OR WILDCAT

South Ismay

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

Sec. 29, T.40S., R.26E.

12. COUNTY OR PARISH

San Juan

13. STATE  
Utah

1.

OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Union Oil Company of California

3. ADDRESS OF OPERATOR

P. O. Box 2620 - Casper, Wyoming 82601

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

2124' FEL & 2353' FNL (SW NE)

14. PERMIT NO.

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

4822' GL

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)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

Supplementary Well History

(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.)\*

Spudded 12-1/4" hole at 9:30 p.m. on 6-11-73.

Reamed 12-1/4" hole to 17-1/2" hole. Ran and cemented 10 joints (292') 13-3/8", 54.50#, J-55, 8rd, ST&C, used casing at 302' with 350 sacks regular cement with 2% Calcium Chloride and 1/4# flocele/sack cement, mixed at 15.5#/gallon. Cement circulated O.K. Bumped plug with 750#, O.K. C.I.P. and job complete at 5:30 a.m. on 6-14-73. W.O.C.

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

SIGNED

*R. G. Ladd, Jr.*  
R. G. Ladd, Jr.

TITLE

District Drilling Supt.

DATE

6-14-73

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-2055-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

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8. FARM OR LEASE NAME

Navajo

9. WELL NO.

29-C2

10. FIELD AND POOL, OR WILDCAT

South Ismay

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

Sec. 29, T.40S., R.26E.

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

1.

OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Union Oil Company of California

3. ADDRESS OF OPERATOR

P. O. Box 2620 - Casper, Wyoming 82601

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

2124' FEL & 2353' FNL (SW NE)

14. PERMIT NO.

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

4822' GL

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) Supplementary Well History

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.)\*

Drilled to 1557' T.D.

Ran and cemented 44 joints (1545') 8-5/8", 32 & 24#, J-55, 8RD, ST&C, used casing at 1557' with 300 sacks class "A" cement with 12% gel mixed at 12.6#/gal. followed by 150 sacks class "A" cement with 15# salt per sack cement, mixed at 15.2#/gal. Displaced with water, holding 80# back pressure on return line with full returns and no cement to surface. Bumped plug with 1000# pressure. O.K. Bled pressure on back side to zero with well flowing 1" stream of water from 13-3/8" X 8-5/8" annulus. Pumped 100 sacks class "A" cement with 12% gel mixed at 12.6#/gal down annulus at 1 bpm at 80 psi and flushed with 2 bbls. water. FPDP 80#. CIP and J.C. at 1:00 p.m. 6-20-73. W.O.C. Drilling. Incomplete.

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

SIGNED

*R. G. Ladd, Jr.*  
R. G. Ladd, Jr.

TITLE

District Drilling Supt.

DATE

6-22-73

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-2055-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo

9. WELL NO.

29-C2

10. FIELD AND POOL, OR WILDCAT

South Ismay

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

Sec. 29, T.40S., R.26E.

14. PERMIT NO.

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

4822' GL

12. COUNTY OR PARISH

San Juan

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)

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.)\*

5507' T.D.

Propose to plug and abandon subject well as follows:

- Plug #1: 65 sx at 5500-5300'
- Plug #2: 50 sx at 4500-4350'
- Plug #3: 65 sx at 3900-3700'
- Plug #4: 65 sx at 2700-2500'
- Plug #5: 50 sx at 1650-1500'
- Plug #6: 7 sx at 20' to surface.

Lay down all D.P. & D.C. Cut casing off 3' below ground level. Install dry hole marker.

Above procedure approved verbally by P. T. McGrath, District Engineer, U.S.G.S., Farmington, New Mexico, on July 9, 1973.

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

SIGNED

*R. G. Ladd, Jr.*  
R. G. Ladd, Jr.

TITLE

District Drilling Supt.

DATE

7-10-73

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-2055-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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29-C2

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South Ismay

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA

Sec. 29, T.40S.R.26E.

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

**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

2. NAME OF OPERATOR

Union Oil Company of California

3. ADDRESS OF OPERATOR

P. O. Box 2620 - Casper, Wyoming 82601

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

At surface

2124' FEL & 2353' FNL (SW NE)

14. PERMIT NO.

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

4822' GL

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)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

Supplementary Well History

(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.)\*

Drilled to 5507' T.D.

Dresser Atlas ran Dual Induction Log and Densilog with CDN.

DST #1: 5468-5507'. Opened tool with very weak blow continued throughout 15-minute initial preflow. Shut in 30 minutes, opened tool with very weak air blow and continued throughout 45-minute flow period. Shut in 90 minutes. Pulled out with tools and recovered 90' drilling mud with odor of gas, no oil.

I Hy 2937.5#; IPF (15) 35.3# to 44.1#; ISIP (30) 594.8#; IFP 61.6#; FFP 70.5#; FSIP (90) 1229#; F Hy 2911.6#; Temp. 125°

DST #2: 5408-5507'. (Upper and Lower Ismay). Opened tool with very weak air blow and continued throughout 15-minute initial preflow. Shut in 30 mins, opened tool with very weak blow decreasing to practically no blow at end of 60-minute flow period. Shut tool in 150 minutes. Pulled out of hole and recovered 90' drilling mud with slight gas odor.

I Hy 2916#; IPFP 22 to 26#; ISIP (30) 1255#; IFP 26#; FFP (60) 48#; FSIP (150) 1908#; F Hy 2873#. BHT 124°.

Ran D.P. open ended to 5500'.

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

SIGNED

*R. G. Ladd, Jr.*

R. G. Ladd, Jr.

TITLE District Drilling Supt.

DATE 7-10-73

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-2055-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

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Navajo

9. WELL NO.

29-C2

10. FIELD AND POOL, OR WILDCAT

South Ismay

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

Sec. 29, T.40S., R.26E.

12. COUNTY OR PARISH | 13. STATE

San Juan

Utah

1.

OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Union Oil Company of California

3. ADDRESS OF OPERATOR

P. O. Box 2620 - Casper, Wyoming 82601

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

2124' FEL & 2353' FNL (SW NE)

14. PERMIT NO.

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

4822' GL

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)

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.)\*

5507' T.D.

Plugged and abandoned subject well as follows:

- Plug #1: 65 sx at 5500-5300'
- Plug #2: 50 sx at 4500-4350'
- Plug #3: 65 sx at 3900-3700'
- Plug #4: 65 sx at 2700-2500'
- Plug #5: 50 sx at 1650-1500'
- Plug #6: 7 sx at 20' to surface.

Laid down all D.P. & D.C. Cut casing off 3' below ground level. Installed dry hole marker. Released rig at 2:00 p.m. 7-10-73.

Well plugged and abandoned 7-10-73.

Above procedure approved verbally by P. T. McGrath, District Engineer, U.S.G.S., Farmington, New Mexico, on July 9, 1973.

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

SIGNED

*R. G. Ladd, Jr.*

R. G. Ladd, Jr.

TITLE

District Drilling Supt.

DATE

7-11-73

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

Form approved  
Budget Bureau No. 42-R355.5.

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  
Union Oil Company of California

3. ADDRESS OF OPERATOR  
P. O. Box 2620 - Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 2124' FEL & 2353' FNL (SW NE)  
At top prod. interval reported below  
At total depth

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NO.  
14-20-603-2055-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Navajo

9. WELL NO.  
29-C2

10. FIELD AND POOL, OR WILDCAT  
South Ismay

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 29, T.40S., R.26E.

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

15. DATE SPUNDED 6-11-73 16. DATE T.D. REACHED 7-7-73 17. DATE COMPL. (Ready to prod.) P & A 7-10-73 18. ELEVATIONS (DF, REB, RT, GR, ETC.)\* 4822' GL 19. ELEV. CASINGHEAD - -

20. TOTAL DEPTH, MD & TVD 5,507' 21. PLUG, BACK T.D., MD & TVD - - 22. IF MULTIPLE COMPL., HOW MANY\* N.A. 23. INTERVALS DRILLED BY - - ROTARY TOOLS 0 - TD CABLE TOOLS - -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* NONE 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction Log, Densilog w/CDN 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 |
|-------------|-----------------|----------------|-----------|---|---------------|
| 13-3/8"     | 54.50#          | 302'           | 17-1/2"   | 350 sx reg cmt                                | - -           |
| 8-5/8"      | 32 & 24#        | 1,557'         | 12-1/4"   | 300 sx class "A" cmt +<br>150 sacks class "A" | - -           |

29. LINER RECORD 30. TUBING RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|------|----------------|-----------------|
| - -  | - - -    | - - -       | - - -         | - - -       | - -  | - - -          | - - -           |

31. PERFORATION RECORD (Interval, size and number) NONE 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| 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) |
|-----------------------|--|------------------------------------|
| - - - -               | - - - - -  | N.A.                               |

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO |
|--------------|--------------|------------|-------------------------|----------|----------|------------|---------------|
| NONE         | - -          | - -        | - - - - -               | - -      | - -      | - -        | - - -         |

| 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.) N.A. TEST WITNESSED BY - -

35. LIST OF ATTACHMENTS

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

SIGNED R. G. Ladd, Jr. TITLE District Drilling Supt. DATE 7-16-73

\*(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 separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (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:** "Sack's 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.)

Blowout Preventers tested daily in accordance with Union Oil Company Policy and reported by Drilling Contractor Plugged as follows: 65 sx cmt at 5500-5300'; 50 sx cmt at 4500-4350'; 65 sx cmt at 3900-3700'; 65 sx cmt at 2700-2500'; 50 sx cmt at 1650-1500'; 7 sx cmt at 20' to surface. Laid down all D.P. & D.C. Cut csg off 3' below ground level. Installed Dry Hole Marker. Well P. & A. 7-10-73.\*

| FORMATION  | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC.   | NAME        | MEAS. DEPTH | TRUE VERT. DEPTH |
|--|-----|--------|---|-------------|-------------|------------------|
| 37. SUMMARY OF POROUS ZONES.<br>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 |     |        |   |             |             |                  |
|  |     |        | DST #1: 5468-5507'. Opened tool w/very weak blow cont. throughout 15-min initial preflow, shut in 30 mins, opened tool with very weak air blow and cont throughout 45 min flow period. S.I. 90 mins. Pulled out w/tools and rec'd. 90' drlg mud w/odor of gas, no oil. I Hy 2937.5#; IPF (15) 35.3# to 44.1#; ISIP (30) 594.8#; IFP 61.6#; FFP 70.5#; FSIP (90) 1229#; F Hy 2911.6#. Temp. 125°                     | Morrison    | Surface     |                  |
|  |     |        | DST #2: 5408-5507'. (Upper & Lower Ismay) Op tool w/very wk air blow and cont thru- out 15-min initial preflow, S.I. 30 mins, op tool w/very wk blow decr to practically no blow at end of 60-min flow period. Shut tool in 150 mins. Pulled out of hole & rec'd. 90' drlg mud with slight gas odor. I Hy 2916'; IPFP 22 to 26#; ISIP (30) 1255 lbs; IFP 26#; FFP (60) 48#; FSIP (150) 1908#; F Hy 2873#; BHT 124°. | Summerville | 680'        |                  |
|  |     |        |   | Entrada     | 715'        |                  |
|  |     |        |   | Carmel      | 852'        |                  |
|  |     |        |   | Navajo      | 878'        |                  |
|  |     |        |   | Kayenta     | 1,132'      |                  |
|  |     |        |   | Wingate     | 1,202'      |                  |
|  |     |        |   | Chinle      | 1,510'      |                  |
|  |     |        |   | Cutler      | 2,610'      |                  |
|  |     |        |   | Hermosa     | 4,463'      |                  |
|  |     |        |   | Ismay       | 5,382'      |                  |
| 38. GEOLOGIC MARKERS   |     |        |   |             |             |                  |

P.W.D.

JUL 18 1973

PMB  
PE

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

REPORT OF WATER ENCOUNTERED DURING DRILLING  
\*\*\*\*\*

Well Name and Number Navajo No. 29-C2  
Operator Union Oil Company of California  
Address P. O. Box 2620 - Casper, Wyoming 82601  
Contractor Willard Pease Drilling Company  
Address P. O. Box 548 - Grand Junction, Colorado 81501  
Location SW 1/4, NE 1/4, Sec. 29, T. 40 ~~XX~~, R. 26 E., San Juan County.  
S. ~~XX~~

Water Sands:

|   | <u>Depth:</u> |                    |  | <u>Volume:</u>                      |                         | <u>Quality:</u> |
|---|---------------|--------------------|--|-------------------------------------|-------------------------|-----------------|
|   | <u>From -</u> | <u>To -</u>        |  | <u>Flow Rate or Head -</u>          | <u>Fresh or Salty -</u> |                 |
| 1.                                      | 425-680'      | (Bluff)            | @ 523' - slight water flow   | @ 710' - increased to 1-1/4" stream |                         | Unknown         |
| 2.                                      | 715-852'      | (Entrada)          |  |                                     |                         | "               |
| 3.                                      | 878-1132'     | (Navajo)           | @ 1185 - well flowing 2-1/2" stream of water ✓                     |                                     |                         | "               |
| 4.                                      | 1202-1510'    | (Wingate)          | @ 1557' - 4" water flow ✓  |                                     |                         | "               |
| 5.                                      | 3910-3940'    | (SS within Cutler) | During trip at 4116' - slight water influx cut mud weight from 9.5 |                                     |                         | "               |
| (Continue on Reverse Side if Necessary) |               |                    |  |                                     |                         |                 |
|   |               |                    |  | to 9.3 lbs/gal ✓                    |                         |                 |

| <u>Formation Tops:</u> | Morrison    | Surface | Wingate | 1,202  |
|------------------------|-------------|---------|---------|--------|
|                        | Summerville | 680'    | Chinle  | 1,510' |
|                        | Entrada     | 715'    | Cutler  | 2,610' |
|                        | Carmel      | 852'    | Hermosa | 4,463' |
|                        | Navajo      | 878'    | Ismay   | 5,382' |
|                        | Kayenta     | 1,132'  |         |        |

- NOTE: (a) Upon diminishing supply of 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 this form)  
(c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.

Union Oil and Gas L. on: Central Region

Union Oil Company of California  
Post Office Box 2620, Casper, Wyoming 82601  
Telephone (307) 234-1563

*gfb*



July 26, 1973

State of Utah  
Department of Natural Resources  
Division of Oil & Gas Conservation  
1588 West North Temple  
Salt Lake City, Utah 84116

Attn: Mr. Cleon B. Feight  
Director

Re: Navajo No. 29-C2  
Sec. 29, T. 40 S., R. 26 E.  
San Juan County, Utah

Gentlemen:

As requested by your letter of May 22, 1973, we are enclosing in quadruplicate your Form OGC-8-X, Report of Water Encountered During Drilling, which has been completed for subject well.

Yours very truly,

UNION OIL COMPANY OF CALIFORNIA

A handwritten signature in cursive script, appearing to read "R. G. Ladd, Jr.".

R. G. Ladd, Jr.  
District Drilling Superintendent

RGL:pd

Encls.

August 2, 1973

Union Oil Company of California  
Box 2620  
Casper, Wyoming 82601

Re: Well No. Navajo 29-C2  
Sec. 29, T. 40 S, R. 26 E,  
San Juan County, Utah

Gentlemen:

*This letter is to advise you that the electric and/or radioactivity logs for the above referred to well are due and have not as yet been filed with this Division.*

*If electric and/or radioactivity logs were not run, please make a statement to that effect in order to keep our records accurate and complete.*

*Thank you for your prompt attention to the above.*

*Very truly yours,*

DIVISION OF OIL & GAS CONSERVATION

SCHEREE DeROSE  
SUPERVISING STENOGRAPHER

Union Oil and Gas L... n: Northern Region

Union Oil Company of California  
P.O. Box 3372, Durango, Colorado 81301  
Telephone (303) 247-4300



August 14, 1973

Ms. Scheree DeRose  
State of Utah  
Depart. of Natural Resources  
Division of Oil & Gas Conservation  
1588 West North Temple  
Salt Lake City, Utah 84116

Re: Union Navajo 29-C2

Dear Ms. DeRose:

Enclosed are the logs on the Navajo 29-C2. After the logs were run an additional 10' was drilled with no logs being run.

If any other data is missing, please let us know.

Very truly yours,

A handwritten signature in cursive script that reads "C. F. Johnson".

C. F. Johnson  
District Geologist

CFJ:bc