

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

R &amp; G Drilling Co.

## 3. ADDRESS OF OPERATOR c/o Walsh Engineering &amp; Prod. Corp.

PO Box 254, Farmington, NM 87401

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

990' FSL, 800' FWL

At proposed prod. zone

Same

## 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 drg. unit line, if any)

800'

## 16. NO. OF ACRES IN LEASE

320 ac.

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160 ac.

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

1500'

## 19. PROPOSED DEPTH

1960

## 20. ROTARY OR CABLE TOOLS

Rotary

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

5781' GR

## 22. APPROX. DATE WORK WILL START\*

3-1-78

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 12-1/4       | 8-5/8          | 24.0            | 200'          | 150 SXS            |
| 7-7/8        | 4-1/2          | 10.50           | 1960'         | 150 SXS            |

It is proposed to drill this well using drilling mud as a circulating medium. All possible intervals in the Pictured Cliffs formation will be completed.

Estimated Formation Tops

|            |       |                 |       |
|------------|-------|-----------------|-------|
| Ojo Alamo  | 470'  | Pictured Cliffs | 1760' |
| Farmington | 580'  | Lewis           | 1910' |
| Fruitland  | 1210' |                 |       |

The SW/4 Sec. 14-T29N-R12W, 160 acres, is dedicated to this well.

The gas from this well is dedicated to a gas purchaser.

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

Ewell N. Walsh, P.E.

(This space for Federal or State office use)

President Walsh Engineering &amp;

TITLE Production Corporation DATE Jan. 31, 1978

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

FEB 1 1978

\*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-112  
Superseding O-111  
Effective 1-1-77

All distances must be from the outer boundaries of the Section.

|   |                      |                        |                        |                           |  |                       |  |  |
|---|----------------------|------------------------|------------------------|---------------------------|--|-----------------------|--|--|
| Operator<br><b>R &amp; G Drilling Company</b> |                      |                        | Lease<br><b>Hardie</b> |                           |  | Well No.<br><b>68</b> |  |  |
| Unit Letter<br><b>M</b>                       | Section<br><b>14</b> | Township<br><b>29N</b> | Range<br><b>12W</b>    | County<br><b>San Juan</b> |  |                       |  |  |

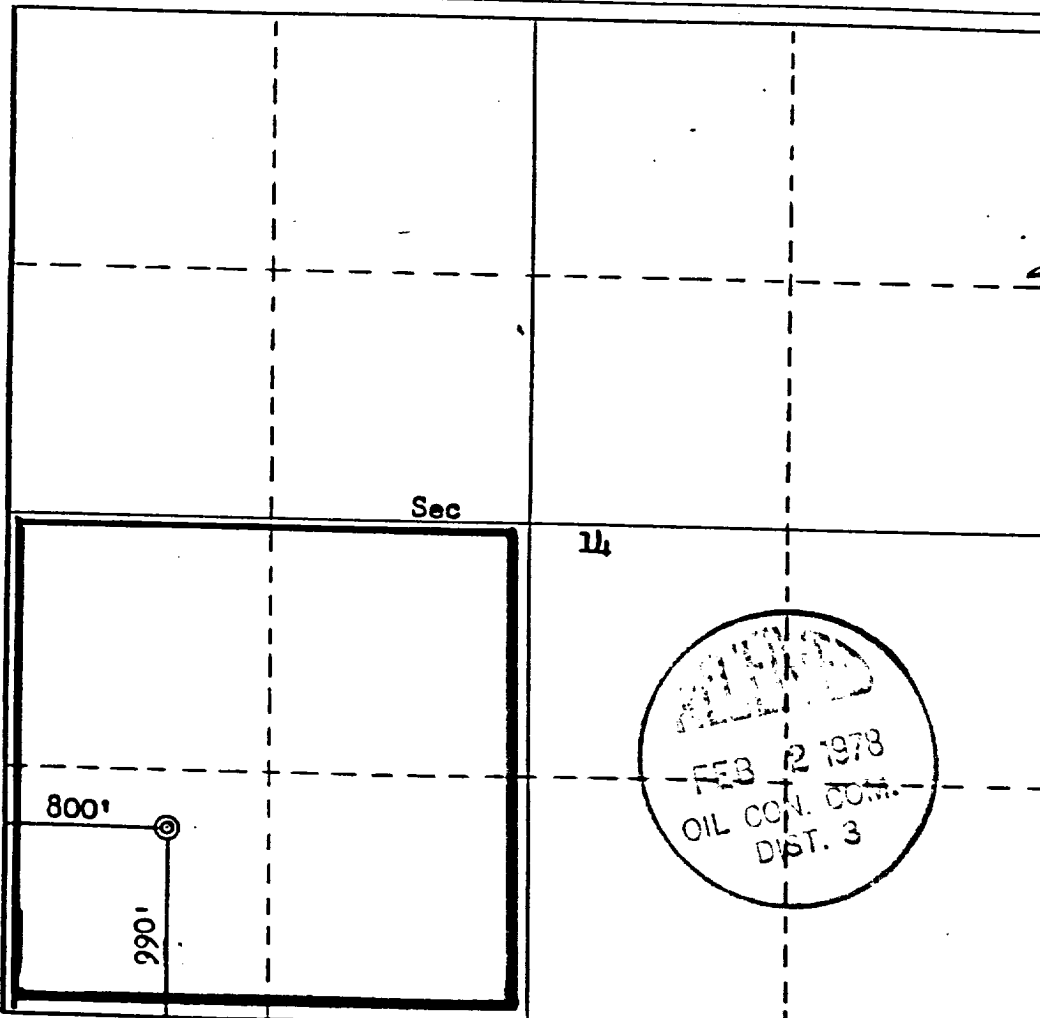
|  |  |   |  |                             |  |                                  |  |       |  |
|--|--|---|--|-----------------------------|--|----------------------------------|--|-------|--|
| Actual Footage Location of Well:<br><b>990</b> |  | feet from the <b>South</b>                    |  | line and <b>800</b>         |  | feet from the <b>West</b>        |  | line  |  |
| Ground Level Elev.<br><b>5731</b>              |  | Producing Formation<br><b>Pictured Cliffs</b> |  | Pool<br><b>Fulcher Kutz</b> |  | Dedicated Acreage:<br><b>160</b> |  | Acres |  |

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  
For: **R&G Drilling Co.**

**Ewell N. Walsh, P.E.**  
Position  
**President**  
Company **Walsh Engineering & Production Corp.**

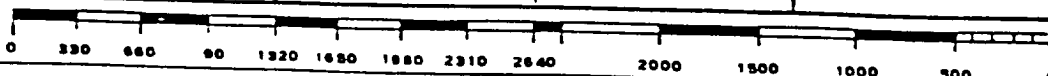
Date  
**Jan. 31, 1978**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**January 30, 1978**  
Registered Professional Engineer and/or Land Surveyor

**Fred B. Kerr Jr.**  
Certificate No.

**3950**



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SF-077710

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hardie

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Fulcher Kutz P.C.

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

Sec. 14-T29N-R12W

N.M.P.M.

12. COUNTY OR PARISH

San Juan

13. STATE

N.M.

## 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 ☐ GAS ☒ OTHER ☐  
WELL WELL

2. NAME OF OPERATOR

R &amp; G Drilling Company

3. ADDRESS OF OPERATOR

c/o Walsh Engineering, Box 254, Farmington, NM

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

990' FSL, 800' FWL

14. PERMIT NO.

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

5781'GR, 5791'KB, 5792' DF

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 perti-  
nent to this work.) \*

5-19-78 Spud well

5-19-78 T. D. 168'

Ran 4 jts. 8-5/8", 24.0 lb, K-55 casing (157.00')  
set at 168.001 with 150 sacks Class "B" cement  
with 3% Calcium Chloride and 6 1/4 lb. Flocele per  
sack. Cement circulated. Test with 500 psig.  
Test O.K.

5-23-78 T.D. 1982'

Ran 49 jts., 4 1/2", 10.50 lb, K-55 casing (1967.15')  
set at 1978.15' with 150 sacks 65/35 Pozmix (12% Gel)  
With 6 1/4 lbs. Gilsonite per sack followed by 150  
sacks 50/50 Pozmix with 6 1/4 lbs. Gilsonite per sack.  
Cement circulated.

RECEIVED

JUN 08 1978

For: R &amp; G Drilling Company

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

SIGNED

Ewell N. Walsh, P.E.

TITLE

President, Walsh Engr.  
& Production Corp.

DATE 6-6-78

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

# FRAC TREATMENT

Stage No. 1

Date 7-6-78

Operator R & G Drilling Company Lease and Well Hardie # 68

Correlation Log Type GR-Collar From 1934 to 500'

Temporary Bridge Plug Type None Set At \_\_\_\_\_

Perforations 1782-1796 1 per foot, 1800-1808 2 per foot  
1-2 per foot type 3 1/2" Glass Strip Jets

Pad 3580 gallons. Additives 2% KCl, 2 lbs.  
FR-20 per 1000 gallons.

Water 56,120 gallons. Additives 2% KCl, 2 lbs.  
FR-20 per 1000 gallons. 1 gallon Howco Suds  
per 1000 gallons last 30,000 gallons.

Sand 55,000 lbs. Size 20/40

Flush 1700 gallons. Additives 2% KCl, 2 lbs.  
FR-20 per 1000 gallon. 1 gallon Howco Suds  
per 1000 gallons.

Breakdown 2200 psig

Ave. Treating Pressure 1600 psig

Max. Treating Pressure 2000 psig

Ave. Injecton Rate 43 BPM

Hydraulic Horsepower 1686 HHP

Instantaneous SIP 600 psig

5 Minute SIP 550 psig

10 Minute SIP 500 psig

15 Minute SIP 440 psig

Ball Drops: 10 Balls at 30,000 gallons 600 psig  
increa  
\_\_\_\_\_ Balls at \_\_\_\_\_ gallons \_\_\_\_\_ psig  
increa  
\_\_\_\_\_ Balls at \_\_\_\_\_ gallons \_\_\_\_\_ psig  
increa

Remarks: 8000 gallons water in 1 tank.

**Walsh** ENGINEERING & PRODUCTION CORP.

(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

Form approved.  
Budget Bureau No. 42-B1424.  
6. LEASE DESIGNATION AND SERIAL NO.

SF-077710

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hardie

9. WELL NO.

68

10. FIELD AND POOL, OR WILDCAT

Fulcher Kutz P.C.

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

Sec. 14-T29N-R12W

N. M. P. M.

12. COUNTY OR PARISH 13. STATE

San Juan N. M.

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

R & G Drilling Company

3. ADDRESS OF OPERATOR

c/o Walsh Engineering, Box 254, Farmington, N.M. 87401

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

990'FSL, 800'FWL

14. PERMIT NO.

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

5781'GR, 5791'KB, 5792'DF

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 perti-  
nent to this work.)\*

7-6-78 See attached for Fracture Treatment.

JUL 23 1978

RECEIVED

JUL 14 1978

U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

FOR: R & G Drilling Company

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

SIGNED

Ewell N. Walsh, P. E.

TITLE & Production Corp.

DATE 7-12-78

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

RECEIVED

JUL 13 1978

\*See Instructions on Reverse Side

U. S. GEOLOGICAL SURVEY

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-65

|   |              |                                 |                          |                                     |                           |                                       |                  |
|---|--------------|---------------------------------|--------------------------|-------------------------------------|---------------------------|---------------------------------------|------------------|
| Type Test<br><input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |              |                                 |                          | Test Date<br>7-26-78                |                           |                                       |                  |
| Company<br>R & G Drilling Company   |              |                                 |                          | Connection<br>Waiting on pipeline   |                           |                                       |                  |
| Pool<br>Fulcher Kutz P.C.   |              |                                 |                          | Formation<br>Pictured Cliffs        |                           | Unit                                  |                  |
| Completion Date<br>7-7-78   |              | Total Depth<br>1982             |                          | Plug Back TD<br>1934                |                           | Elevation<br>5,792'KB                 |                  |
| Farm or Lease Name<br>Hardie  |              | Well No.<br>68                  |                          |                                     |                           |                                       |                  |
| Csg. Size<br>4.500  | Wt.<br>10.50 | d<br>4.052                      | Set At<br>1978           | Perforations:<br>From 1782 To 1808  |                           |                                       |                  |
| Tbg. Size<br>1.660  | Wt.<br>2.40  | d<br>1.380                      | Set At<br>1764           | Perforations:<br>From Open To Ended |                           |                                       |                  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple<br>Single   |              |                                 |                          | Packer Set At<br>None               |                           | County<br>San Juan                    |                  |
| Producing Thru<br>Tubing  |              | Reservoir Temp. °F<br>91 @ 1982 |                          | Mean Annual Temp. °F<br>60          |                           | Baro. Press. - P <sub>a</sub><br>12.0 |                  |
| State<br>New Mexico   |              |                                 |                          |                                     |                           |                                       |                  |
| L<br>1764   | H<br>1764    | Gg<br>0.60                      | % CO <sub>2</sub><br>--- | % N <sub>2</sub><br>---             | % H <sub>2</sub> S<br>--- | Prover<br>---                         | Meter Run<br>--- |
| Taps<br>---   |              |                                 |                          |                                     |                           |                                       |                  |

| FLOW DATA |                  |   |              |                 |          |       | TUBING DATA     |          | CASING DATA     |          | Duration of Flow |
|-----------|------------------|---|--------------|-----------------|----------|-------|-----------------|----------|-----------------|----------|------------------|
| NO.       | Prover Line Size | X | Orifice Size | Press. p.s.i.g. | Diff. hw | Temp. | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F |                  |
| SI        |                  |   |              |                 |          |       | 455             |          | 465             |          | 8 days           |
| 1.        | 3/4" T.H.C.      |   |              |                 |          |       | 30              |          | 250             |          | 3 hrs.           |
| 2.        |                  |   |              |                 |          |       |                 |          |                 |          |                  |
| 3.        |                  |   |              |                 |          |       |                 |          |                 |          |                  |
| 4.        |                  |   |              |                 |          |       |                 |          |                 |          |                  |
| 5.        |                  |   |              |                 |          |       |                 |          |                 |          |                  |

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                       |                   |                             |                      |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------|-----------------------------|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P <sub>m</sub> | Flow Temp. Factor Ft. | Gravity Factor Fg | Super Compress. Factor, Fpv | Rate of Flow Q, Mcfd |
| 1                         | 12.3650               |                  | 42                      | 1.0000                | 1.0000            | 1.0000                      | 519                  |
| 2.                        |                       |                  |                         |                       |                   |                             |                      |
| 3.                        |                       |                  |                         |                       |                   |                             |                      |
| 4.                        |                       |                  |                         |                       |                   |                             |                      |
| 5.                        |                       |                  |                         |                       |                   |                             |                      |

|     |                |          |                |   |  |
|-----|----------------|----------|----------------|---|--|
| NO. | P <sub>t</sub> | Temp. °R | T <sub>r</sub> | Z | Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.      |
| 1.  |                |          |                |   | A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. |
| 2.  |                |          |                |   | Specific Gravity Separator Gas _____ XXXXXXXXXX  |
| 3.  |                |          |                |   | Specific Gravity Flowing Fluid _____ XXXXX       |
| 4.  |                |          |                |   | Critical Pressure _____ P.S.I.A. _____ P.S.I.A.  |
| 5.  |                |          |                |   | Critical Temperature _____ R _____ R             |

|                    |                                     |                |   |
|--------------------|-------------------------------------|----------------|---|
| P <sub>c</sub> 477 | P <sub>c</sub> <sup>2</sup> 227,529 |                |   |
| NO.                | P <sub>t</sub> <sup>2</sup>         | P <sub>w</sub> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
| 1                  |                                     | 262            | 68,644  |
| 2                  |                                     |                |   |
| 3                  |                                     |                |   |
| 4                  |                                     |                |   |
| 5                  |                                     |                |   |

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.4320$$

$$AOF = 704 \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 704$$

$$(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3569$$

|                    |     |               |                |          |      |
|--------------------|-----|---------------|----------------|----------|------|
| Absolute Open Flow | 704 | Mcfd @ 15.025 | Angle of Slope | Slope, n | 0.85 |
| Remarks:           |     |               |                |          |      |

|                         |                              |                                  |             |
|-------------------------|------------------------------|----------------------------------|-------------|
| Approved By Commission: | Conducted By:<br>Dolin Moore | Calculated By:<br>Ewell N. Walsh | Checked By: |
|-------------------------|------------------------------|----------------------------------|-------------|

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355A

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

|   |  |  |  |                                  |                                    |   |             |  |  |               |  |                                  |  |                 |  |
|---|--|--|--|----------------------------------|------------------------------------|---|-------------|--|--|---------------|--|----------------------------------|--|-----------------|--|
| 1a. TYPE OF WELL:   |  | OIL WELL <input type="checkbox"/>                                    | GAS WELL <input checked="" type="checkbox"/> | DRY <input type="checkbox"/>     | Other _____                        |   |             |  |  |               |  |                                  |  |                 |  |
| b. TYPE OF COMPLETION:  |  | NEW WELL <input checked="" type="checkbox"/>                         | WORK OVER <input type="checkbox"/>           | DEEP-EN <input type="checkbox"/> | PLUG BACK <input type="checkbox"/> | DIFF. RESER. <input type="checkbox"/>             | Other _____ |  |  |               |  |                                  |  |                 |  |
| 2. NAME OF OPERATOR   |  |  |  |                                  |                                    | R & G Drilling Company                            |             |  |  |               |  |                                  |  |                 |  |
| 3. ADDRESS OF OPERATOR  |  |  |  |                                  |                                    | 87401   |             |  |  |               |  |                                  |  |                 |  |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*                                      |  |  |  |                                  |                                    | Care of Walsh Engineering P.O. Box 254 Farmington |             |  |  |               |  |                                  |  |                 |  |
| At surface  |  |  |  |                                  |                                    | 990' FSL, 800' FWL                                |             |  |  |               |  |                                  |  |                 |  |
| At top prod. interval reported below  |  |  |  |                                  |                                    | Same  |             |  |  |               |  |                                  |  |                 |  |
| At total depth  |  |  |  |                                  |                                    | Same  |             |  |  |               |  |                                  |  |                 |  |
| 14. PERMIT NO.  |  |  |  |                                  |                                    | DATE ISSUED                                       |             |  |  |               |  |                                  |  |                 |  |
| 15. DATE SPUDDED  |  |  |  |                                  |                                    | 5-19-78   |             |  |  |               |  |                                  |  |                 |  |
| 16. DATE T.D. REACHED   |  |  |  |                                  |                                    | 5-22-78   |             |  |  |               |  |                                  |  |                 |  |
| 17. DATE COMPL. (Ready to prod.)  |  |  |  |                                  |                                    |   |             |  |  |               |  |                                  |  |                 |  |
| 18. ELEVATIONS (DF, REB, RT, GR, ETC.)*   |  |  |  |                                  |                                    | 5791' DF, 5792' KB                                |             |  |  |               |  |                                  |  |                 |  |
| 19. ELEV. CASINGHEAD  |  |  |  |                                  |                                    | 5781' GR  |             |  |  |               |  |                                  |  |                 |  |
| 20. TOTAL DEPTH, MD & TVD   |  |  |  |                                  |                                    | 1982  |             |  |  |               |  |                                  |  |                 |  |
| 21. PLUG, BACK T.D., MD & TVD   |  |  |  |                                  |                                    | 1934  |             |  |  |               |  |                                  |  |                 |  |
| 22. IF MULTIPLE COMPL., HOW MANY*   |  |  |  |                                  |                                    |   |             |  |  |               |  |                                  |  |                 |  |
| 23. INTERVALS DRILLED BY  |  |  |  |                                  |                                    | X   |             |  |  |               |  |                                  |  |                 |  |
| 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*   |  |  |  |                                  |                                    | 1782' - 1808' Pictured Cliffs                     |             |  |  |               |  |                                  |  |                 |  |
| 25. WAS DIRECTIONAL SURVEY MADE   |  |  |  |                                  |                                    | No  |             |  |  |               |  |                                  |  |                 |  |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN  |  |  |  |                                  |                                    | IES & CNL-FDC                                     |             |  |  |               |  |                                  |  |                 |  |
| 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 |  |                                  |  |                 |  |
| 8-5/8   |  | 24.0   |  | 168                              |                                    | 12-1/4  |             | 150 Sacks                                      |  | None          |  |                                  |  |                 |  |
| 4-1/2   |  | 10.50  |  | 1978                             |                                    | 7-7/8   |             | 300 Sacks                                      |  | None          |  |                                  |  |                 |  |
| 29. LINER RECORD  |  |  |  |                                  |                                    |   |             | 30. TUBING RECORD                              |  |               |  |                                  |  |                 |  |
| SIZE  |  | TOP (MD)   |  | BOTTOM (MD)*                     |                                    | SACKS CEMENT*                                     |             | SCREEN (MD)                                    |  | SIZE          |  | DEPTH SET (MD)                   |  | PACKER SET (MD) |  |
| None  |  |  |  |                                  |                                    |   |             |  |  | 1-1/4         |  | 1764                             |  | None            |  |
| 31. PERFORATION RECORD (Interval, size and number)  |  |  |  |                                  |                                    |   |             | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. |  |               |  |                                  |  |                 |  |
| 1782'-1796' - 1 per foot  |  |  |  |                                  |                                    |   |             | DEPTH INTERVAL (MD)                            |  |               |  | AMOUNT AND KIND OF MATERIAL USED |  |                 |  |
| 1800'-1808' - 2 per foot  |  |  |  |                                  |                                    |   |             | 1782-1808                                      |  |               |  | 56,120 gal. water                |  |                 |  |
|   |  |  |  |                                  |                                    |   |             |  |  |               |  | 55,000 lbs. sand                 |  |                 |  |
| 33. PRODUCTION  |  |  |  |                                  |                                    |   |             |  |  |               |  |                                  |  |                 |  |
| DATE FIRST PRODUCTION   |  | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) |  |                                  |                                    |   |             | WELL STATUS (Producing or shut-in)             |  |               |  |                                  |  |                 |  |
| Waiting on Pipeline   |  | Flowing  |  |                                  |                                    |   |             | Shut In  |  |               |  |                                  |  |                 |  |
| DATE OF TEST  |  | HOURS TESTED   |  | CHOKE SIZE                       |                                    | PROD'N. FOR TEST PERIOD                           |             | OIL—BSL  |  | GAS—MCF.      |  | WATER—BSL                        |  | GAS-OIL RATIO   |  |
| 7-26-78   |  | 3 hrs  |  | 3/4"                             |                                    |   |             | 3/4"   |  | 519           |  |                                  |  |                 |  |
| FLOW. TUBING PRESS.   |  | CASING PRESSURE  |  | CALCULATED 24-HOUR RATE          |                                    | OIL—BSL   |             | GAS—MCF.                                       |  | WATER—BSL     |  | OIL GRAVITY—API (CORR.)          |  |                 |  |
| 30  |  | 250  |  |                                  |                                    | CAOF  |             | 704  |  |               |  |                                  |  |                 |  |
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  |  |  |  |                                  |                                    |   |             |  |  |               |  |                                  |  |                 |  |
| Vented  |  |  |  |                                  |                                    |   |             | SIPT-455psig.                                  |  |               |  | C-465 psig                       |  |                 |  |
| 35. LIST OF ATTACHMENTS   |  |  |  |                                  |                                    |   |             |  |  |               |  |                                  |  |                 |  |
| For: R & G Drilling Company   |  |  |  |                                  |                                    |   |             |  |  |               |  |                                  |  |                 |  |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records |  |  |  |                                  |                                    |   |             |  |  |               |  |                                  |  |                 |  |
| SIGNED <u>Ewell N. Walsh, P.E.</u>  |  |  |  |                                  |                                    |   |             | TITLE <u>&amp; Production Corp.</u>            |  |               |  | DATE <u>8-18-78</u>              |  |                 |  |

\*(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 identifying for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sack 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.)

## 37. SUMMARY OF FORMER ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORRELATE INTERVALS: AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

| FORMATION |  | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. |
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