

# RECEIVED

JUN 28 2010

In Lieu of  
Form 3160  
(June 1990)

UNITED STATES  
DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No 1004-0135  
Expires March 31, 1993

Bureau of Land Management  
Farmington Field Office

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir Use "APPLICATION TO DRILL" for permit for such proposals

Lease Designation and Serial No.  
NMSF-078894

6 If Indian, Allottee or Tribe Name  
N/A

7 If Unit or CA, Agreement Designation  
Rosa

8 Well Name and No.  
Rosa Unit #602

9 API Well No.  
30-039-30914

10 Field and Pool, or Exploratory Area  
Blanco MV/Basin MC/Basin DK

11 County or Parish, State  
Rio Arriba, NM

SUBMIT IN TRIPLICATE

1. Type of Well  
Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator  
WILLIAMS PRODUCTION COMPANY

3. Address and Telephone No.  
PO BOX 640 Aztec, NM 87410-0640

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Surface: 1200' FNL & 1715' FWL  
Sec. 27, T31N, R4W

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment

Abandonment  
Recompletion  
Plugging Back  
Casing Repair  
Altering Casing  
☒ Other Intermediate cement change

Change of Plans  
New Construction  
Non-Routine Fracturing  
Water Shut-Off  
Conversion to Injection  
Dispose Water

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

13 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.)\*

Williams intends to change the cement design slightly on the 7-5/8" intermediate casing on this well as per attached drilling plan. This change was given verbal approval by Troy Salyers (BLM) and Steve Hayden (NMOCD) on 6-22-10.

RCVD JUL 12 '10

OIL CONS. DIV.

DIST. 3

14 I hereby certify that the foregoing is true and correct

Signed

Larry Higgins

Title Permit Supervisor

Date 06/23/10

(This space for Federal or State office use)

Approved by

Troy L. Salyers

Title

PE

Date

7/7/2010

Conditions of approval, if any.

Title 18 U S C Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

NMOCD

**RECEIVED****JUN 23 2010****Bureau of Land Management  
Farmington Field Office****WILLIAMS PRODUCTION COMPANY****Drilling Plan***(Note: This procedure will be adjusted on site based upon actual conditions)*

**DATE:** 5/27/2010 **FIELD:** Basin DK/ Basin MC/BlancoMV  
**WELL NAME:** Rosa Unit #602 **SURFACE:** USFS  
**SURF. LOCATION:** NENW Sec 27-31N-4W **MINERALS:** Federal  
Rio Arriba, NM  
**ELEVATION:** 7,028' GR **LEASE #** SF-078894  
**MEASURED DEPTH:** 8,927'

**I. GEOLOGY:** Surface formation - San Jose**A. FORMATION TOPS:** ( KB)

| Name            | Depth | Name          | Depth |
|-----------------|-------|---------------|-------|
| Ojo Alamo       | 3,397 | Point Lookout | 6,322 |
| Kirtland        | 3,512 | Mancos        | 6,597 |
| Fruitland       | 3,597 | Gallup        | 7,667 |
| Pictured Cliffs | 3,897 | Greenhorn     | 8,382 |
| Lewis           | 4,217 | Graneros      | 8,432 |
| Cliff House     | 6,132 | Dakota        | 8,567 |
| Menefee         | 6,182 | Morrison      | 8,827 |
|                 |       | TD            | 8,927 |

- B. MUD LOGGING PROGRAM:** Mudlogger on location from surface csg. to TD. Mud logger to pick TD. Weatherford Portable X-Ray Diffraction and Source Rock Analysis from Top of Mancos to TD.
- C. LOGGING PROGRAM:** See attached Geologic Prognosis.
- D. NATURAL GAUGES:** Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

**II. DRILLING**

- A. MUD PROGRAM:** Use Water + Gel/Polymer sweeps to drill Surface hole. Convert to a LSLD - EZ-MUD system mud (+/-50 Vis.) to drill 9-7/8 in. Intermediate Hole. Increase vis to +/-60 to run Casing. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses. Drill out of 7-5/8" casing with 6-3/4" Tri-Cone or (PDC with Motor) to top of Graneros. POOH to pick up Tri-Cone or (PDC bit with Motor) and TD at +/- 8,927 ft. (MD).
- B. BOP TESTING:** While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the BOPE will be tested to **250 psi (Low) for 5 minutes** and **1500 psi (High) for 10 minutes**. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. **All tests and inspections will be recorded in the tour book as to time and results.**

### III. MATERIALS

#### A. CASING PROGRAM:

| <u>CASING TYPE</u> | <u>OH SIZE (IN)</u> | <u>DEPTH (MD) (FT)</u> | <u>CASING SIZE (IN)</u> | <u>WEIGHT(LB)</u> | <u>GRADE</u> | <u>CONN</u> |
|--------------------|---------------------|------------------------|-------------------------|-------------------|--------------|-------------|
| Surface            | 14 3/4              | 300                    | 10 3/4                  | 40.5              | K-55         | STC         |
| Intermediate       | 9 7/8               | 4,372                  | 7 5/8                   | 26.4              | K-55         | LTC         |
| Longstring         | 6 3/4               | 8,927                  | 4 1/2                   | 11.6              | P-110        | LTC         |

#### FLOAT EQUIPMENT:

1. SURFACE CASING: 10-3/4" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
2. INTERMEDIATE CASING: 7-5/8" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) Turbulent centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. (NTL-FRA 90-1).
3. PRODUCTION LINER / CASING: 4-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place marker joint above 5,400'. Place centralizers as needed across selected production intervals.

#### B. CEMENTING:

*(Note: Volumes may be adjusted onsite due to actual conditions)*

1. SURFACE: Slurry: 290sx (522 cu.ft.) of "Type III" + 2% Cal-Seal 60 + ¼ # of poly-e-flake/sk + 0.3% Versaset + 2% Econolite + 6% Salt (Yield = 1.8 cu.ft./sk, Weight = 13.5 #/gal.). The +200% excess should circulate cement to the surface. WOC 12 hours. Test csg to 600psi for 30 minutes.
2. INTERMEDIATE: Lead - 810 sx (2179 cu.ft.) of "EXTENDACEM" + 5 #/sk Gilsonite+ 5% Cal-Seal 60 + 0.5%D-AIR 3000 (Yield = 2.69 cu.ft./sk, Weight = 11.5 #/gal.). Tail - 100 sx (118cu.ft.) of Premium cement + 3 #/sk Gilsonite, (Yield = 1.18 cu.ft./sk, Weight = 15.6#/gal.). Total volume = 2297 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface. WOC 12 hours. Test casing to 1500psi for 30 minutes.
3. PRODUCTION CASING: 20 bbl Gelled Water spacer. Cement: 615 sx (861 ft<sup>3</sup>) of "FRACCEM" + 0.8% Halad-9 + 0.1% CFR-3 + 5 #/sk Gilsonite + 0.125 #/sk Poly-E-Flake + 0.3% D-Air-3000. (Yield = 1.40 ft<sup>3</sup>/sk, Weight = 13.1 #/gal.) Displace @ 8 BPM. Total Volume = 861 cu-ft. WOC 12 hours. Casing will be tested at completion.