

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APR 13 2010

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

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-078890

6 If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
Rosa

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

8. Well Name and No.
Rosa Unit #630

2 Name of Operator
WILLIAMS PRODUCTION COMPANY

9. API Well No
30-039-29508

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

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

4. Location of Well (Footage, Sec., T, R, M, or Survey Description)
2480' FNL & 2230' FEL
Sec 7, T31N, R4W

11. County or Parish, State
Rio Arriba, NM

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

TYPE OF SUBMISSION

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

TYPE OF ACTION

Abandonment
Recompletion
Plugging Back
Casing Repair
Altering Casing
☒ Other Formation Change

And Bottom Hole 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 Production Company, LLC hereby requests authorization to change this well from a directional well to a vertical well, from existing surface location, and add the Mesaverde formation to the completion as per attached C-102 and operation plan. Williams set surface casing during the 2009 drilling season and now plans to return to drill to TD and complete.

RCVD APR 20 '10

OIL CONS. DIV.
DIST. 3

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

14 I hereby certify that the foregoing is true and correct

Signed

Larry Higgins

Title Permit Supv

Date 04/13/10

(This space for Federal or State office use)

Approved by

TL Salyers

Title

PE

Date

4/13/10

Conditions of approval, if any

NMOCD

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-29508	² Pool Code 97232 / 72319 / 71599	³ Pool Name BASIN MANCOS / BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 17033	⁵ Property Name ROSA UNIT	⁶ Well Number 630
⁷ GRID No 120782	⁸ Operator Name WILLIAMS PRODUCTION COMPANY	⁹ Elevation 6461'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	7	31N	4W		2480	NORTH	2230	EAST	RIO ARriba

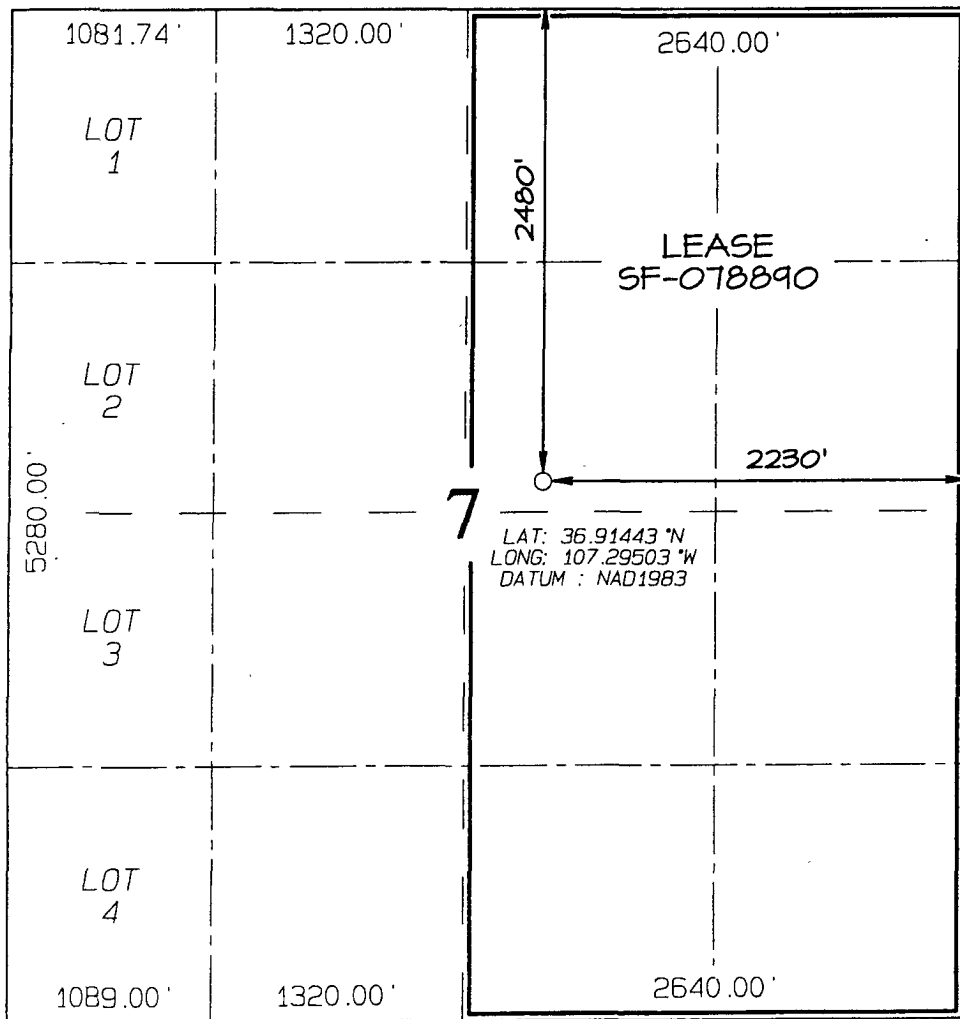
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 320.0 Acres - (E/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13200-A For NSL
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

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¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Larry Higgins 4-13-10
Signature Date
LARRY HIGGINS
Printed Name

¹⁸ SURVEYOR CERTIFICATION

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 belief

Date of Survey: JULY 22, 2004

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269



WILLIAMS PRODUCTION COMPANY

Operations Plan

(Note: This procedure will be adjusted on site based upon actual conditions)

DATE: 4/12/2010 **FIELD:** Basin DK/ Basin MC/BlancoMV
WELL NAME: Rosa Unit #630 **SURFACE:** USFS
BH LOCATION: SWNE Sec 7-31N-4W **MINERALS:** Federal
Rio Arriba, NM ✓
ELEVATION: 6,461' GR **LEASE #** SF-078890
MEASURED DEPTH: 8,415'

I. **I. GEOLOGY:** Surface formation - San Jose

A. **FORMATION TOPS:** (KB)

Name	Depth	Name	Depth
Ojo Alamo	2,580	Point Lookout	5,760
Kirtland	2,760	Mancos	6,095
Fruitland	3,130	Gallup	7,140
Pictured Cliffs	3,310	Greenhorn	7,860
Lewis	3,650	Graneros	7,915
Cliff House	5,570	Dakota	8,040
Menefee	5,620	Morrison	8,315
		TD	8,415 ✓

- 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 intermediate csg to TD.
- C. **LOGGING PROGRAM:** ACRT/GR/CN/WAVE/SDL from surface casing to intermediate casing. ACRT/GR/CN/WAVE/SDL from intermediate casing to TD
- D. **SIDEWALL CORING:** Rotary sidewall cores over intervals of interest in Mancos and Dakota. Approximately 60 total samples will be taken ✓
- E. **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" PDC to top of Graneros. POOH to pick up 813 type PDC bit to Graneros, Greenhorn, Dakota and to TD at +/- 8,415 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:

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	14 3/4	300	10 3/4	32.75	K-55
Intermediate	9 7/8	3,810	7 5/8	26.4	K-55
Longstring	6 3/4	8,415	4 1/2	11.6	P-110

B. 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.

C. CEMENTING:

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

*** Set at 354' on 9/12/2009**

1. SURFACE: Slurry: 290sx (521 cu.ft.) of "Type III" + 2% Cal-Seal 60 + 1/4 # of poly-e-flake/sk + 0.3% Versaset + 2% Econolite + 6% Salt (Yield = 1.796 cu.ft./sk, Weight = 13.5 #/gal.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 600psi. for 30 minutes.
2. INTERMEDIATE: Lead - 525 sx (1430 cu.ft.) of "EXTENDACEM" + 5 #/sk pheno-seal + 5% Cal-Seal 60 (Yield = 2.723 cu.ft./sk, Weight = 11.5 #/gal.). Tail - 100 sx (117.8cu.ft.) of Premium cement + 0.125 #/sk Poly-E-Flake, (Yield = 1.178 cu.ft./sk, Weight = 15.6#/gal.). Total volume = 1548 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface. WOC 12 hours. Test csg to 1500psi. for 30 minutes.
3. PRODUCTION CASING: 10 bbl Gelled Water spacer. Cement: 610 sx (853 ft³) of "FRACCEM" + 0.8% Halad-9 + 0.1% CFR-3 + 5 #/sk Gilsonite + 0.125 #/sk Poly-E-Flake + 0.15% HR-800. (Yield = 1.398 ft³/sk, Weight = 13.1 #/gal.). Displace cement at a minimum of 8 BPM. Total volume (853) ft³. WOC 12 hours. Casing will be tested to 1500 psi for 30 minutes at completion.

IV. IV COMPLETION

A. CBL

1. Run Cement Bond Log across all intervals to be perforated and find Top of Cement behind all casing strings if cement not circulated to surface. ✓

B. PRESSURE TEST


1. Pressure test 4-1/2" casing to 1500 psi, hold at 1500 psi for 30 minutes. ✓

C. STIMULATION

1. Stimulate Dakota with approximately 5000# 100 mesh sand and 120,000# Ottawa Sand in slick water.
2. Isolate Dakota with a RBP.
3. Perforate Mancos as determined from the open hole logs
4. Stimulate Mancos with 3 stages of approximates 5000# 100 mesh sand and 150,000# 40/70 Ottawa sand
5. Isolate Mancos with RBP
6. Stimulate Point Lookout with approximately 40,000# 20/40 Ottawa sand in slick water.
7. Isolate Point Lookout with a RBP.
8. Perforate the Menefee/Cliff House as determined from the open hole logs.
9. Stimulate with approximately 40,000# 20/40 Ottawa sand in slick water.
10. Test each zone before removing bridge plugs.

D. RUNNING TUBING

1. Production Tubing: Run 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforation


for Brian Alteman
Drilling Engineer