

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

JUN 01 2011

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 Field Office TO DRILL" for permit for such proposals

5 Lease Designation and Serial No
NMSF-078773

6 If Indian, Allottee or Tribe Name
N/A

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)
660' FSL & 540' FEL SEC 33 31N 5W

7 If Unit or CA, Agreement Designation
Rosa

8 Well Name and No
Rosa Unit #077C

9 API Well No
30-039-29982

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

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 Multiple Zone Completion

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 authority to drill this as a Mesa Verde/Dakota dual as per attached plat and operations plan

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

* APD expires 10/31/2011

14 I hereby certify that the foregoing is true and correct

Signed

Larry Higgins

Title Drilling Supv

Date 6/1/11

(This space for Federal or State office use)

Approved by

Troy L Salyers

Title

PE

Date 6/7/11

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

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

*API Number 30-039-29982		*Pool Code 72319 / 71599		*Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
*Property Code 17033		*Property Name ROSA UNIT			*Well Number 77C
*OGRID No 120782		*Operator Name WILLIAMS PRODUCTION COMPANY			*Elevation 6504'

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
P	33	31N	5W		660	SOUTH	540	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 - (S/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No
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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

16	5286.60'	5280.00'	5280.00'	5280.00'	33	LEASE SF-078773	LAT: 36.85069°N LONG: 107.35990°W DATUM: NAD1927 LAT: 36.85070°N LONG: 107.36050°W DATUM: NAD1983	540'	660'	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 <i>Caray Higgins</i> 6-1-11 Signature Date <i>Caray Higgins</i> 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 Revisions: MAY 20, 2011 Survey Date: OCTOBER 5, 2005 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: 3/15/2011 **FIELD:** Basin DK/ BlancoMV
WELL NAME: Rosa Unit #77C **SURFACE:** BLM
BH LOCATION: SESE Sec 33-31N-5W **MINERALS:** BLM
Rio Arriba, NM
ELEVATION: 6,504' GR **LEASE #** SF-078773
MEASURED DEPTH: 8,258'

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

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

Name	TVD	Name	TVD
Ojo Alamo	2,603	Point Lookout	5,768
Kirtland	2,763	Mancos	6,058
Fruitland	3,108	Gallup	7,073
Pictured Cliffs	3,373	Greenhorn	7,798
Lewis	3,618	Graneros	7,853
Cliff House	5,493	Dakota	7,958
Menefee	5,538	Morrison	8,208
		TD	8,258

B. **MUD LOGGING PROGRAM:** Mudlogger on location from intermediate csg to TD. Mud logger to pick TD.

C. **LOGGING PROGRAM:** HRI/Temp/SDL/DSN from intermediate casing to TD

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:** Clear water with benex to 7" casing point. Convert to a LSND mud to log and run pipe. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses. Use air w/Air Hammer from 7" csg to TD.

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	12 1/4	300	9 5/8	36	K-55
Intermediate	8 3/4	3,848	7	23	K-55
Longstring	6 1/4	8,258	4 1/2	11 6	P-110

B. FLOAT EQUIPMENT:

1. SURFACE CASING 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
2. INTERMEDIATE CASING: 7" 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)

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 1500psi
2. INTERMEDIATE: Lead - 550 sx (1498 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 = 1615 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface. WOC 12 hours
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.

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 6000 psi max, 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. Stimulate Point Lookout with approximately 40,000# 20/40 Ottawa sand in slick water.
4. Isolate Point Lookout with a RBP
5. Perforate the Menefee/Cliff House as determined from the open hole logs
6. Stimulate with approximately 40,000# 20/40 Ottawa sand in slick water
7. 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


Gary Sizemore
Sr. Drilling Engineer

DRILLING CONDITIONS OF APPROVAL

Operator: Williams Production
Lease No.: NMSF-078773
Well Name: Rosa Unit #77C
Well Location: Sec.33, T31N, R5W; 660' FSL & 540' FEL

Refer to Onshore Order 2 III.

- 1) Pressure test the surface casing to a minimum of 600 psi for 30 minutes.
- 2) Pressure test the intermediate casing to a minimum of 1500 psi for 30 minutes



After hour contact: Troy Salyers 505-360-9815