

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

WILLIAMS PRODUCTION COMPANY 120782

3. Address and Telephone No. c/o Walsh Engr. & Prod. Corp.

7415 E. Main Farmington, New Mexico 87402 (505) 327-4892

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

890' FSL & 920' FEL
Section 12, T31N, R6W

5. Lease Designation and Serial No.

SF-078767

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Rosa Unit #30 (17033)

9. API Well No.

30-039-25570

10. Field and Pool, or Exploratory Area

Blanco MV/Basin DK 71599

11. County or Parish, State

Rio Arriba

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other

- ☒ 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 proposes to drill this well as a Mesa Verde - Dakota Dual well according to the attached drilling program. The well location, access road, and all other aspects of the original APD will remain the same.

New casing program is as follows:

Hole Size	Casing Size	WT & Grade	Depth	Cement
13 3/4"	10 3/4"	32.75# H-40	300'	240 cu.ft. C1 "B"
9 7/8"	7 5/8"	26.4 # K-55	3790'	1276 cu.ft. 65/35 Poz & 268 cu.ft. C1 "B"
6 3/4"	5 1/2"	17.0 # N-80	8277'	462 cu.ft. 50/50 Poz & 150 cu.ft. C1 "H"

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

Signed Paul C. Thompson

Title Paul C. Thompson, Agent

Date 5/24/96

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

APPROVED

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.

*See Instruction on Reverse Side

DISTRICT MANAGER

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102

Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

RECEIVED
MAY 30 PM 12:52
SANTA FE, NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-25570	Pool Code 71599	Pool Name Basin Dakota
Property Code 17033	Property Name Rosa Unit	Well Number 30
OGRID No. 120782	Operator Name Williams Production Co.	Elevation 6490'

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
0	12	31 N	6 W		890	South	920	East	R.A.

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

Dedicated Acres 271.40	Joint or Infill N	Consolidation Code U	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 <p>RECEIVED JUN 13 1995 OIL CON. DIV. DIST. 8</p>	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Paul C. Thompson Signature Paul C. Thompson, Agent Printed Name President Walsh Engr. & Prod. Corp. Title 2/20/96 Date
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. 11/20/95 Date of Survey Signature and Seal of Professional Surveyor: Certificate Number	

District IV
PO Box 2008, Santa Fe, NM 87504-2008

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

88
96 MAY 30 PM 12:52

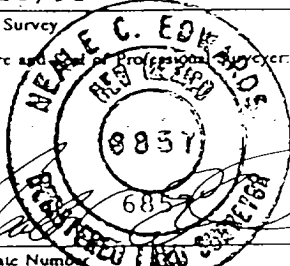
019 17 ~~DECLASSIFICATION PLAT~~ BIRMINGHAM, NM

' API Number 30-039-25570	' Pool Code 72319	' Pool Name Blanco Mesa Verde
' Property Code 17033	' Property Name Rosa Unit	' Well Number 30
' OGRID No. 120782	' Operator Name Williams Production Co.	' Elevation 6490'

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
O	12	31 N	6 W		890	South	920	East	R.A.

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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" Dedicated Acres	" Joint or Infill	" Consolidation Code	" Order No.
271.40	N	U	

16	2640.00'	1320.00'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief <u>Paul C. Thompson</u> Signature Paul C. Thompson, Agent Printed Name President Walsh Engr. & Prod. Corp. Title 2/20/96 Date
		512.82'	
	12	2 5280.00'	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. 11/20/95 Date of Survey Signature and Seal of Professional Surveyor 
2640.00'	1320.00'	4 920' 890'	Certificate Number

518.76

WILLIAMS PRODUCTION COMPANY
OPERATIONS PLAN

DATE: 2/1/96 (revised 3/8/96)

<u>WELLNAME:</u>	ROSA UNIT #30	<u>FIELD:</u>	Blanco MV/ Basin DK
<u>LOCATION:</u>	SW/4 SE/4 Sec. 12, T31N, R6W San Juan Co., NM	<u>SURFACE:</u>	BLM
<u>ELEVATION:</u>	6490' GR	<u>MINERALS:</u>	Federal
<u>TOTAL DEPTH:</u>	8277'	<u>LEASE #</u>	SF-078767

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS:

Ojo Alamo	2567'	Point Lookout	5807'
Kirtland	2702'	Mancos	5962'
Fruitland	3107'	Gallup	6587'
Pictured Cliffs	3337'	Greenhorn	7857'
Lewis	3637'	Graneros	7917'
Cliff House	5542'	Dakota	8027'
Menefee	5592'	Total Depth	8277'

B. LOGGING PROGRAM: IND/GR, CDL/SNL. Log the Dakota from 8277' to 300' above the top of the Greenhorn and the Mesa Verde from 6000' to 300' above the Cliff House.

C. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Gauge well @ 6000' and before TOH for logs @ 8277'. Record all gauges in Tour book and on morning reports.

II. DRILLING

A. MUD PROGRAM: Included in footage bid.

B. BOP TESTING: While drill pipe is in use, the pipe rams will be tested not less than once each day. The blind rams will be tested once each trip. 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>HOLE SIZE</u>	<u>DEPTH</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	13-3/4"	300'	10-3/4"	32.75# H-40
Intermediate	9-7/8"	3790'	7-5/8"	26.4# K-55
Production	6-3/4"	8277'	5-1/2"	17.0# N-80

B. FLOAT EQUIPMENT:

1. **SURFACE CASING:** 10-3/4" notched regular pattern guide shoe.
2. **INTERMEDIATE CASING:** 7-5/8" cement nose guide shoe with a self- fill insert float. Place float one(1) joint above the shoe and five(5) centralizers, spaced every other joint, starting with the float collar. Place turbulent centralizers, at 120' intervals, starting at 2567' to the surface. Total centralizers: 5 regular and 19 turbulent.
3. **PRODUCTION CASING:** 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' joint. Place 20' marker joint on top of 10th joint and one above 5542'.

C. CEMENTING:

1. **SURFACE:** Use 200 sx (240cu.ft.) of class "B" with 3% CaCl₂ and 1/4# of cello-flake/sk (Yield = 1.19 cu.ft./sk, Weight = 15.6 #/gal.). Use 100% excess to circulate the surface. WOC 12 hours. Test to 1500#.
2. **INTERMEDIATE:** Lead - 615 sx (1276 cu.ft.) of class "B" 65/35 poz with 8% gel and 1/4# cello-flake/sk (Yield = 2.1 cu.ft./sk, Weight = 12.1 #/gal.). Tail - 225 sx (268 cu.ft.) of class "B" , 1/4# cello-flake/sk and 2% CaCl₂ (Yield = 1.20 cu.ft./sk, Weight = 15.6#/gal.). Use 100% excess in Lead and 75% in tail to circulate to surface. Total volume = 1544 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated. Test to 1500#.
3. **PRODUCTION CASING:** Use 340 sx (462 cu.ft.) of class "B" 50/50 poz with 4% gel, 6-1/4# fine gilsonite/sk and 0.5% CF-14 (Yield = 1.35 cu.ft./sk, Weight = 13.4 #/gal.). Tail 100sx (150 cu.ft) of class "H" with 35% silica flour, 1/4# cello-flake/sk, 1.8% FL-62 and 0.2% A-2 (Yield = 1.50 cf/sk, Weight 15.9 #/gal). Displace cement at a minimum of 10 BPM. Use 60% excess in lead and tail to circulate 100' into intermediate casing. Total volume = 612 cu ft. WOC 12 hours. Run a temperature survey after 8 hours to determine TOC behind 5-1/2" casing.

IV COMPLETION

A. CBL

1. Run Cement Bond Log across all intervals to be perforated and find Top of Cement behind all casing strings.

B. PRESSURE TEST

1. Pressure test 7-5/8 to 3300# & 5-1/2" casing to 6000# for 15 minutes.

C. STIMULATION

1. Stimulate Dakota with approximately 100,000# of 20/40 sand in x-link foam.
2. Isolate Dakota with a RBP..
3. Stimulate Point Lookout with approximately 100,000# of 20/40 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 80,000# of 20/40 sand in slick water.
7. Test each zone before removing bridge plugs.

D. RUNNING TUBING

1. Dakota: Run 1-1/2", 2.9#, J-55 EUE tubing with 1/2 mule shoe on bottom, SN with pump-out plug on top of adeem joint and 5 Seal Units. Land tubing approximately 100' below top Dakota perf.

1. Mesa Verde: Run 1-1/4", 2.3#, J-55, IJ tubing with a bull plugged perforated nipple on bottom and a SN with pump-out plug on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforation.

Lance A. Hobbs
Engineer, Production & Drilling

file:#30opp

ROSA UNIT PORE PRESSURES				
FORMATION	DEPTH	FRAC GRADIENT	PORE PRESSURE	RESERVOIR PRESS
FRUITLAND	2950	0.69	1578	1400
PICTURED CLIFFS	3200	0.65	1520	1400
CLIFF HOUSE	5200	0.50	1300	1200
MENEFEE	5350	0.50	1338	1200
POINT LOOKOUT	5650	0.48	1201	1200
GALLUP	6800	0.55	2210	2000
DAKOTA	7850	0.65	3729	2600
Based on : $F = 1/3(1+2P_f/D)$ $P_f = (3F-1)D/2$ <div>Where: F = Frac Gradient</div> <div>Pf = Pore Pressure</div> <div>D = Depth</div>				