FORM 3160-3 (December 1990)

SUBMIT IN TRIPLICATE\* (Other instructions on

Form approved.

Budget Bureau No. 1004-0136

**UNITED STATES** 

reverse side)

Expires December 31, 1991

KIMENI OF IHI KEAU OF LAND MAN	EINTERIOR	MY 10 AT 9:	5. LEASE DESIGNATION AND SERIAL NO.  SF- 078764	
THE REPORT OF THE PROPERTY OF				
OR PERMIT TO DI	RILL, DEEPEN,	OR PLUG BACK	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
LX DEEPEN			7. UNIT AGREEMENT NAME	
•	- <b></b> -		Rosa Unit	
		_	8. FARM OR LEASE NAME, WELL NO.	
AS X OTHER		MULTIP	LE     127 D	
			NE	
oduction Company	IIC		9. API WELL NO.	
company,			3003927002	
415 E. Main St. Farm	ington NM 87402	(505) 227 4902	10. FIELD AND POOL OR WILDCAT	
tion clearly and in accordance with	any State manifements \$)	(303) 327-4892	Blanco Mesaverde	
nd 265' FEL	rany state requirements.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
			1 0	
	•		P Sec. 31, T31N, R5W	
N FROM NEAREST TOWN OR POS	T OFFICE*	· · · · · · · · · · · · · · · · · · ·	12. COUNTY OR PARISH 13. STATE	
E of Blanco, NM			Rio Arriba 13. STATE	
IION TO NEAREST PROPERTY	16. NO. OF ACRES IN LEA	ASE .	17. NO. OF ACRES ASSIGNED TO THIS WELL	
y mas mic, it aliy)	2.	507 30		
ION* TO NEAREST WELL,	19. PROPOSED DEPTH		20. ROTARY OR CABLE TOOLS	
) FOR ON THIS LEASE, FT.		· -		
( etc.)	0.1	(39'	Rotary	
, cic.)			22. APPROX. DATE WORK WILL START*	
PROPOSED CAS	NG AND CEMENTIN	C PDOCDAM	May 30, 2002	
9-5/8"	36.0#	+/- 250'	QUANTITY OF CEMENT ~180 cu.ft. Type III with 2% CaCl 2	
7"	20.0#	+/- 3729'	~885 cu.ft. 65/35 poz & ~235 cu.ft. Type II	
上 /"	$20.0\pi$			
<del>+ ^</del>				
4-1/2"	10.5#	+/- 6159'	~141 cu.ft.50/50 poz & ~199 cu.ft. PL HS	
	CONTROL OF LAND MAN  OR PERMIT TO DI  L X DEEPEN  AS X OTHER  Production Company,  415 E. Main St., Farming  tion clearly and in accordance with and 265' FEL  NEROM NEAREST TOWN OR POST  TE of Blanco, NM  TION TO NEAREST PROPERTY  g. unit line, if any)  TON' TO NEAREST WELL,  D FOR ON THIS LEASE, FT.  R, etc.)  PROPOSED CASING	AS TOTHER SINGLE TOWN OF ACT SIN	OR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  LY DEEPEN  AS Y OTHER SINGLE Y MULTIP ZONE  AS Y Oduction Company, LLC  415 E. Main St., Farmington, NM 87402 (505) 327-4892  tion clearly and in accordance with any State requirements.*)  ad 265' FEL  NFROM NEAREST TOWN OR POST OFFICE*  WE of Blanco, NM  TION TO NEAREST PROPERTY g unit line, if any)  2507.30  ION* TO NEAREST WELL, DEOR ON THIS LEASE, FT.  OFOR ON THIS LEASE, FT.  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF CASING WEIGHT/FOOT SETTING DEPTH	

This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will require  $\sim 1600'$ of new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by an existing road that crosses the SW/SW, NW/SW of section 32, NE/SE, NW/SE, SW/NÉ, SE/NW, SW/NW of section 31 all of 31N, 5W, SE/NE of section 36, T31N, R6W where it joins the main "Rosa Road". This action is subject to technical and

procedural review pursuant to 43 CFR 3165.3 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. and appeal pursuant to 43 CFR 3165.4 If proposal is to drill or deeper directionally, give pertinent days on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any 24. SIGNED ITILE John C. Thompson, Ageni 5/9/02 (This space for Federal or State office use) APPROVAL DATE Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations there CONDITIONS OF APPROVAL, IF AND David J. Mankiewicz 10 Z NUL DATE

\*See Instructions On Reverse Side 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.





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 80x 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 - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-2700	<sup>2</sup> Pool Code 72319	Pool Name  BLANCO MESAVERDE	
'Property Code 17033		°Property Name ROSA UNIT	
'0GRID No. 120782	· · · · · · · · · · · · · · · · · · ·	*Operator Name WILLIAMS PRODUCTION COMPANY	

<sup>10</sup> Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Р 31 31N 5W 660 RIO SOUTH 265 EAST ARRIBA <sup>11</sup> Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the

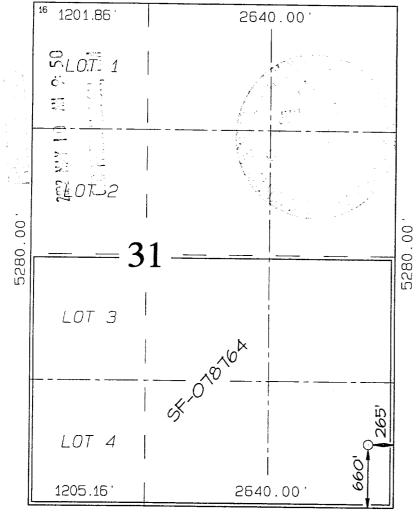
UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County

12 Dedicated Acres

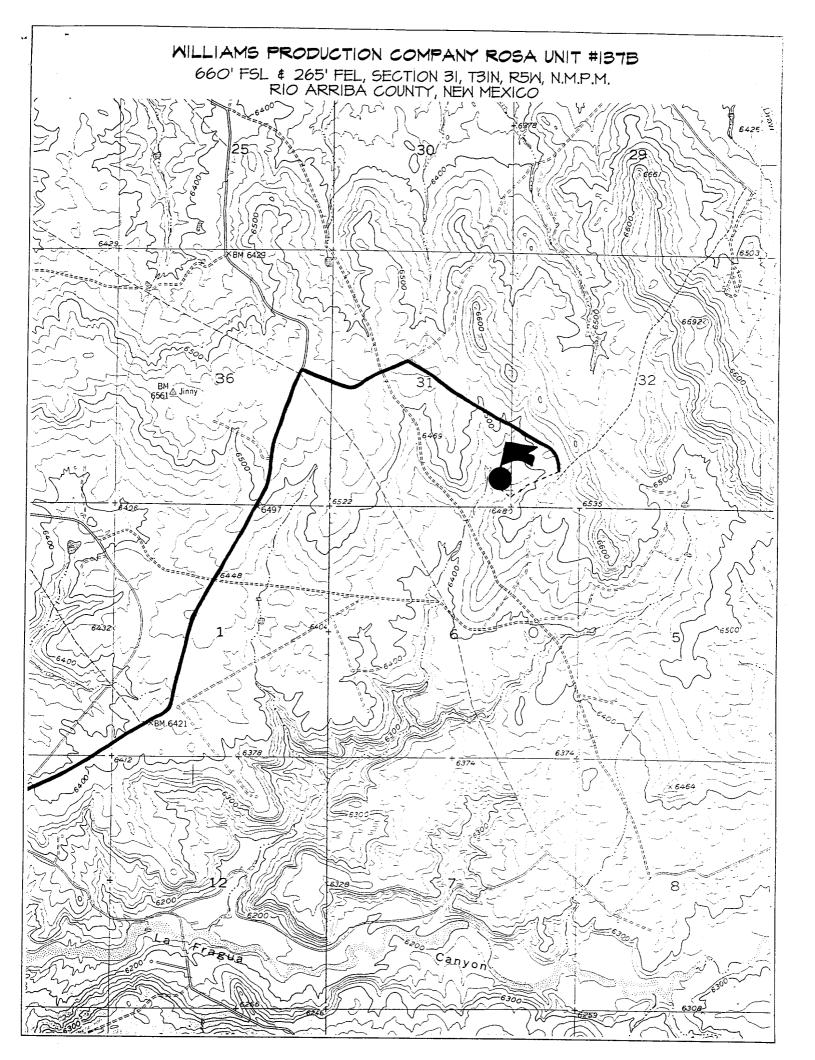
232.99 Acres - (S/2)

13 Joint or Infill Id Consolidation Code Is Order No.

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



17 OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete
to the best of my knowledge and belief
00
Signature
John C. Thompson
Printed Name
Agent/Engineer
Title 4/23/02
Date
<sup>18</sup> 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  Survey Date: FEBRUARY 22, 2002
Signature and Seal of Professional Surveyor
THE SESTON C. EDWARDS TO SERVEYOR TO SESTON TO
Certificate Number 15269





## **WILLIAMS PRODUCTION COMPANY**

#### **Operations Plan**

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

**DATE:** 

4/22/2002

FIELD:

Blanco MV

**WELL NAME:** 

Rosa Unit 137B

Rio Arriba, NM

**SURFACE:** 

**BLM** 

**LOCATION:** 

SE/4 SE/4 Sec 31-31N-5W

**MINERALS:** 

**BLM** 

**ELEVATION:** 

6457' GR

LEASE#

SF-078764

**MEASURED DEPTH:** 

6159'

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

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

	<u>MD</u>		<u>MD</u>
Ojo Alamo	2544'	Cliff House	5429
Kirtland	2684'	Menefee	5464
Fruitland	3049'	Point Lookout	5709
Pictured Cliffs	3254'	Mancos	6014
Lewis	3559'	Total Denth	6159

**LOGGING PROGRAM:** Cased hole logs only (selected intervals by on-site Geologist). *Subject* B. to change as wellbore conditions dictate.

C. 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.
- 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 rams will be tested to 1500 psi. The surface and intermediate casing strings will be pressure tested to 1500 psi in conjunction with the BOP test before drilling out cement. The drum brakes will be inspected and tested each tour. All tests, inspections and SPR's will be recorded in the tour book as to time and results.

#### III. MATERIALS

#### A. CASING PROGRAM:

CASING TYPE	<b>HOLE SIZE</b>	DEPTH (MD)	CASING SIZE	WT. & GRADE
Surface	12-1/4"	250'	9-5/8"	36# K-55
Intermediate	8-3/4"	3729'	7"	20# K-55
Prod. Liner	6-1/4"	3629'-6159'	4-1/2"	10.5# K-55

#### **B. FLOAT EQUIPMENT:**

- 1. <u>SURFACE CASING:</u> 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (3) joints of Surface Casing.
- INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install one Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (4) joints to the surface casing. Total centralizers = (26) regular and (3) turbulent.
- 3. PRODUCTION CASING: 4-1/2" whirler type cement nose guide shoe with a latch collar on top of 20" bottom joint. Place marker joint above 5630'. Place one positive standoff turbolizer every other joint. Total turbolizers is 34.

#### C. <u>CEMENTING</u>:

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

- 1. <u>SURFACE:</u> Slurry: <u>140sx</u> (180 cu.ft.) of "Type III" + 2% CaCl<sub>2</sub> + ½ # of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). The 125% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
- 2. INTERMEDIATE: Lead: 425sx (885 ft³) of "Type III" 65/35 poz + 8% gel + 1% CaCl<sub>2</sub> + ½ # cello-flake/sk (Yield = 2.09 ft³./sk, Weight = 12.1 #/gal.). Tail: 170x (235 ft³) of class "Type III" + 1% CaCl<sub>2</sub> + ½ # cello-flake/sk. (Yield = 1.39 ft³/sk, Weight = 14.5#/gal.). The 100% excess in lead and tail should circulate cement to the surface. Total volume = 1120 ft³. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated to the surface. Test csg. to 1500psi.
- 3. PRODUCTION LINER: Scavenger: 30sx of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl (Weight = 11 #/gal). Lead: 70sx (141 ft³) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl. (Yield = 2.02 cu.ft./sk, Weight = 12.5 #/gal.). Tail: 100 sx (199 ft³) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl + .25 #/sk Celloflake + 4% Phenoseal. (Yield = 2.02 ft³/sk, Weight = 12.5 #/gal.). Displace cement at a minimum of 8 BPM. The 30% excess in lead and tail should cover liner top. Total volume 340ft³. WOC 12 hours.

100' CMT OURLAP

Rosa #137B Operations Plan Page #3

#### **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 is not circulated to surface.

## B. PRESSURE TEST

1. Pressure test 7" & 4-1/2" casing to 3300# for 15 minutes.

### C. STIMULATION

- 1. Stimulate with approximately 80,000# of 20/40 sand in slick water.
- 2. Isolate Point Lookout with a DBP.
- 3. Perforate the Menefee/Cliff House as determined from the open hole logs.
- 4. Stimulate with approximately 80,000# of 20/40 sand in slick water.
- 5. Test each zone before removing bridge plugs.

#### D. RUNNING TUBING

1. <u>Mesa Verde:</u> 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.

John C. Thompson

Engineer

# Williams Production Company, LLC Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

# Typical BOP setup

