FORM 3160-3 (December 1990)

# LIMITED STATES

SUBMIT IN TRIPLICATE\* (Other instructions on Form approved.

Bud	Bureau	No.	100	04-0136

CHILDSIA		reverse si	
TMENT OF THI	E INTERIOR		5. LEASE DESIGNATION AND SERIAL NO.
		er er er er er er er er	SF- 078763
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME
R PERMIT TO D	RILL, DEEPEN,	OR PLUG BACK	
.[X] DEEPEN	· 🗖		7. UNIT AGREEMENT NAME
_	_		Rosa Unit
_			8. FARM OR LEASE NAME, WELL NO.
S X OTHER	SINGLE		PLE X 41B
		<u> </u>	9. API WELL NO.
oduction Company	LLC		30-039-27014
y and the state of		,	10. FIELD AND POOL OR WILDCAT
15 E. Main St., Farm	nington, NM 87402	(505) 327-4892	Blanco Mesa Verde/DK
on clearly and in accordance wi	th any State requirements.*)		11. SEC., T., R., M., OR BLK.
d 1210' FEL 🛮 🦯	ENE	$\mathcal{L}_{\bullet}$	AND SURVEY OR AREA
	1		Sec. 6, T31N, R5W
FROM NEAREST TOWN OR PO of Blanco, NM	OST OFFICE*		12. COUNTY OR PARISH Rio Arriba NM
	1 1		17. NO. OF ACRES ASSIGNED TO THIS WELL  320 367.96
	19. PROPOSED DEPTH	560' (measure dep	th) Rotary or cable tools
L, etc.)			22. APPROX DATE WORK WILL START*  May 30, 2002
PROPOSED CA	SING AND CEMENTIN	NG PROGRAM	
SIZE OF CASING	WEIGHT/FOOT	SETTING DEPT	
		1	~323 cu.ft. Type III w/ 2% CaCl <sub>2</sub>
7-5/8"	26.4#	+/- 4342'	~1368 cu.ft.65/35 poz & ~497 cu.ft.Ty
5-1/2"	17.0#	+/- 8560'	~469 cu.ft.Prem. Lite HS w/ additives
	ATMENT OF THE AU OF LAND MAIN OR PERMIT TO DEPENDENCE OF COMPANY, ALL STREET OF CONTROL OF THE AUTOMOTER OF	OTHER SINGLE ZONE  SINGLE ZONE  Oduction Company, LLC  On clearly and in accordance with any State requirements.*)  of 1210' FEL SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	TIMENT OF THE INTERIOR  EAU OF LAND MANAGEMENT  OR PERMIT TO DRILL, DEEPEN, OR PLUG BACK  SINGLE ZONE  SINGLE ZONE  Oduction Company, LLC  SISTEMATION OF SINGLE ZONE  SINGLE ZONE  SINGLE ZONE  SINGLE ZONE  MULTIN ZO  ODUCTION Company, LLC  SISTEMATING St., Farmington, NM 87402 (505) 327-4892  OON clearly and in accordance with any State requirements.*)  d 1210' FEL  SINGLE ZONE  SISTEMATION OF SINGLE  SINGLE ZONE  MULTIN ZO  ON 87402 (505) 327-4892  OON CLEARLY SW  FROM NEAREST TOWN OR POST OFFICE* OF Blanco, NM  ION TO NEAREST PROPERTY ION TO NEAREST WELL. OF OR ON THIS LEASE, FT.  SIZE OF CASING  PROPOSED CASING AND CEMENTING PROGRAM  SIZE OF CASING WEIGHT/FOOT SETTING DEPTING 10-3/4"  10-3/4"  10-3/4"  10-3/4"  10-3/4"  10-3/4"  10-3/4"  10-3/4"  10-4342'

and Rosa 171C. The well will be accessed by utilizing an existing road that runs NE/NE of section 6, NW/NW, NE/NW of section 5 all of 31N, R5W and the SE/SW of section 32, 32N, 5W where it joins the main "Rosa Road".

TITLE John C. Thompson, Agent Date	5/19/02
APPROVAL DATE	tions thereon
or equitable true to mose rights in the subject lease which would endue the applicant to conduct opera-	mons mereon.
	JUN 27
	APPROVAL DATE  or equitable title to those rights in the subject lease which would entitle the applicant to conduct opera

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.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED INCLINENAL REQUIREMENTS. HOLD C104 FOR

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeals resusant 43 CFR 3165.4

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

Form C-102 Revised February 21, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

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

AMENDED REPORT

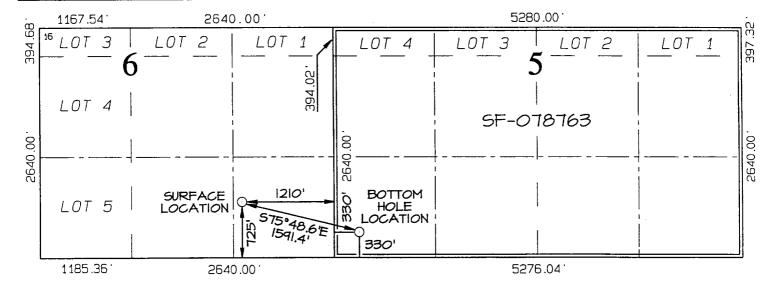
15269

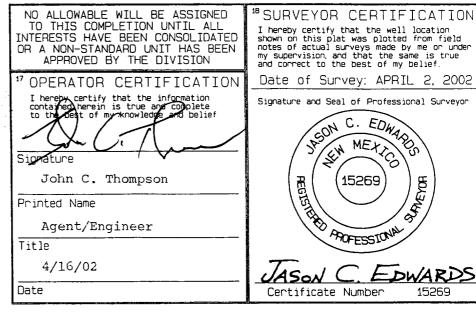
# WELL LOCATION AND ACREAGE DEDICATION PLAT

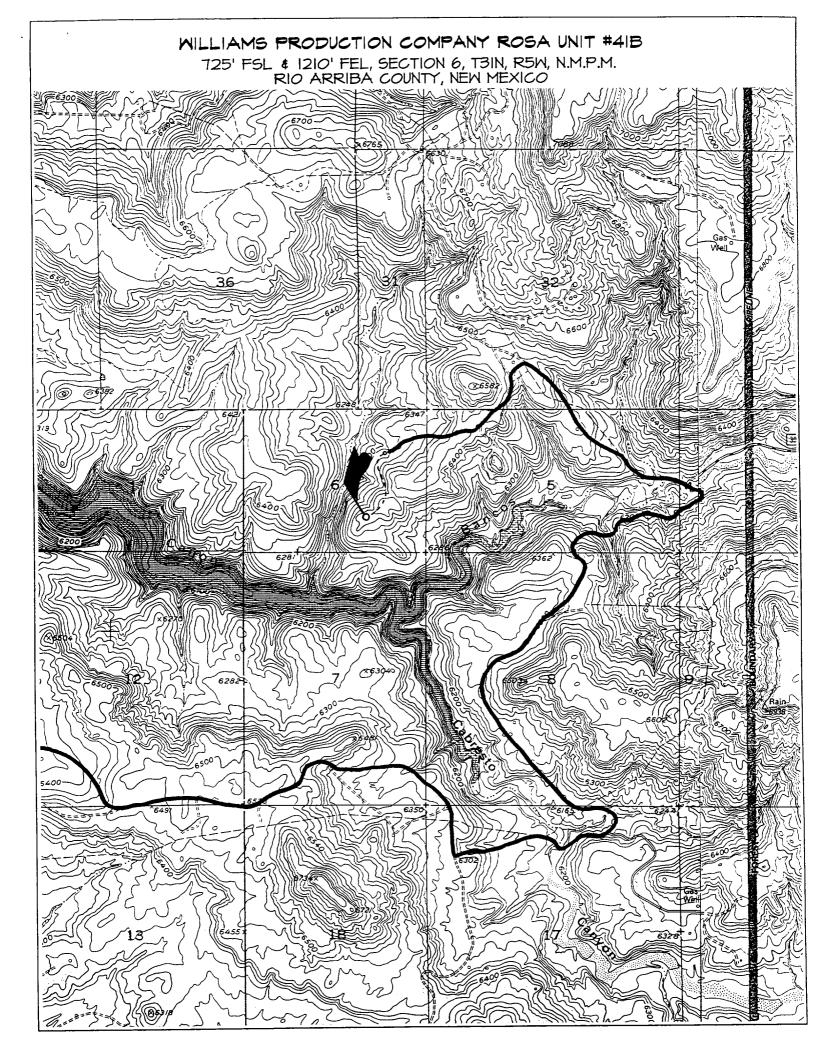
'API Number	*Pool Code	³Pool Name				
30-039-27014	72319 \ 71599	BLANCO MESAVERDE \ BASIN DAKOTA				
¹Property Code	<sup>5</sup> Property Name					
17033	ROSA UNIT					
'OGRID No.	<b>"</b> Opi	érator Name	*Elevation			
120782	WILLIAMS PRODUCTION COMPANY					

<sup>10</sup> Surface Location

301 1466 206461011									
UL or lot no.	Sect ion	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	6	31N	5W		725	SOUTH	1210	EAST	RIO ARRIBA
<sup>11</sup> 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
М	5	31N	5W		330	SOUTH	330	WEST	RIO ARRIBA
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.									
367.96 Acres – Entire Section									









# **WILLIAMS PRODUCTION COMPANY**

# **OPERATIONS PLAN**

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

**DATE:** 4/24/2002

WELL NAME: Rosa Unit 41B FIELD: Basin DK/ Blanco MV

SURFACE LOCATION: SE/4 Sec. 6- T31N-R5W SURFACE: BLM

Rio Arriba, NM

ELEVATION: 6416' GR MINERALS: Fed

**LEASE #** SF-078763

MEASURED DEPTH: 8560'

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

<u>MD</u>
360'
7400'
3120'
3180'
3310'
8 <b>5</b> 60'
2

- B. <u>LOGGING PROGRAM:</u> DIL from TD to the Intermediate Casing Shoe. DEN/Neutron/GR (selected intervals by on-site Geologist). *Subject to change as wellbore conditions dictate.*
- C. <u>NATURAL GAUGES</u>: Gauge any noticeable increases in gas flow. Guage well @ 5800' and before TOH for logs @ 7954'. Record all gauges in Tour book and on morning reports.

# II. DRILLING

- A. <u>MUD PROGRAM:</u> Clear water with benex to 7" casing point. LSND 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 will be function tested not less than once each day. 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.

C. <u>BIT PROGRAM:</u> Use Hammer bit from Intermediate to just above the Greenhorn formation. Replace Hammer bit with Tricone bit to drill through the Dakota formation

#### III. MATERIALS

#### A. CASING PROGRAM:

CASING TYPE	<b>HOLE SIZE</b>	<u>DEPTH</u>	<b>CASING SIZE</b>	WT. & GRADE
Surface	14-3/4"	+/- 250'	10-3/4"	40.5# K-55
Intermediate	9-7/8"	+/-4342'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/- 8560'	5-1/2"	17.0# N-80

# **B. FLOAT EQUIPMENT:**

- 1. <u>SURFACE CASING:</u> 10-3/4" notched regular pattern guide shoe. Run (1) Standard centralizer on each of the bottom (3) Joints.
- 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 1500' to the surface. Total centralizers (5 regular and 13 turbulent).
- 3. PRODUCTION CASING: 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place 20' marker joint on top of 10 th joint and one above 5100'.

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

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

- 1. SURFACE: Use 230sx (323cu.ft.) of class "Type III" with 2% CaCl2 and 1/4# of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). 125% excess to circulate the surface. WOC 12 hours. Test to 1500#.
- INTERMEDIATE: Lead: 655sx (1368cu.ft.) of class "Premium Lite" 65/35, Type III/Poz with 8% gel and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail: 360sx (497cu.ft.) of class "Type III" with 1/4# cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5#/gal.). 100% excess in lead and tail to circulate to surface. Total volume = 1865 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated.
- 3. PRODUCTION CASING: 30 sks Scavenger of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl + .25 #/sk Celloflake + 4% Phenoseal + .2% R3. (Weight = 11 #/gal.). Cement Slurry: 235 sx (469ft³) of Premium Light HS + 1% FL-52 + .3% CD-32 + 2% KCl .25 #/sk Celloflake + 4% Phenoseal + .2% R3. (Yield = 2.02 ft³/sk, Weight = 12.5 #/gal.). Displace cement at a minimum of 8 BPM. Use 30% excess in calculation to raise cement 100' into intermediate casing. Total volume 469ft³. WOC 12 hours.

#### **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 5-1/2" casing to 3300# for 15 minutes.

# C. STIMULATION

- 1. Stimulate Dakota with approximately 70,000# of 20/40 sand in x-link foam.
- 2. Isolate Dakota with a RBP.
- 3. Stimulate Point Lookout with approximately 80,000# 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. <u>Dakota</u>: Run 2-1/16", 3.25#, J-55, IJ tubing with 1/2 mule shoe on bottom and a SN w/ pump out plug on top of bottom joint. Will run a production packcker with 5 seal units to isolate Dakota from Mesaverde formation. Land tubing approximately 100' below top Dakota perf.
- 2. <u>Mesa Verde:</u> Run 2-1/16", 2.9#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforations.

John C. Thompson

Engineer