(September 2001)

Form 3160-3

# RCVD FEB28'07

FORM APPROVED 3 OMB No. 1004-0136 Expires January 31, 2004

5. Lease Serial No.

7.

NMSF-078767

### **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT	O DRILL OR R	EENTER	A11 /·	L. If Indian, Allottee of	Tibe Name
la. Type of Work: DRILL REENTER			7. If Unit or CA Agreement, Name and No.		
on the second se			Rosa Unit		
lb. Type of Well: Oil Well  Gas Well  Other	⊠ Si	ngle Zone 🔲 Mu	ltiple Zone	8. Lease Name and Well 1	No.
2. Name of Operator  Williams Production Company 11 C				9. API Well No.	RA184
3a. Address	3b. Phone No	. (include area code)		10. Field and Pool, or Exp	loratory
P.O. Box 640 Aztec, NM 87410	(505)	634-4208		Blanco Mesaverde	*
4. Location of Well (Report location clearly and in accordance				11. Sec., T., R., M., or Bl	
At surface 1565' FNL & 835' FWL	,	,			·
At proposed prod. zone 1565' FNL & 330' FWL				ESection 8, 31N, 5V	j
4. Distance in miles and direction from nearest town or post of	fice*			12. County or Parish	13. State
approximately 34 miles northeast of Blanco, New Me	exico			Rio Arriba	NINA
15. Distance from proposed* location to nearest property or lease line, ft.		Acres in lease	17. Spacin	RIO Arriba NM acing Unit dedicated to this well	
(Also to nearest drig. unit line, if any)	2.51	3.040	320	0.0 – (W/2)	
8. Distance from proposed location*	19. Propose			M/BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft.	1				
applied for, on this lease, it.	6,10	3'	UT0	)847	
1. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	imate date work wil	i start*	23. Estimated duration	
6,298' GR	April	April 1, 2007		1 month	
	24. Atta	chments			
he following, completed in accordance with the requirements o	f Onshore Oil and Gas	Order No.1, shall be	attached to this	form:	
Well plat certified by a registered surveyor.     A Drilling Plan.     A Surface Use Plan (if the location is on National Forest SUPO shall be filed with the appropriate Forest Service Countries.		Item 20 above 5. Operator certi	e). fication. te specific info	s unless covered by an exis	
5. Signature	Name	(Printed/Typed)		Da	tė
and the	ì	• • •			7-31-07
Title	<del></del>	Larry Higgins		<u></u>	<del></del>
_					
Approved by (Signature)	Name	(Printed/Typed)	<del></del>	Da	ite 7 27.1
Title AFM	Offic	e Fy	70	· · · · · · · · · · · · · · · · · · ·	
Application approval does not warrant or certify that the applications thereon.  Conditions of approval, if any, are attached.	nt holds legal or equita	ble title to those right	s in the subject	lease which would entitle th	e applicant to conduc
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 States any false, fictitious or fraudulent statements or representat	, make it a crime for a ions as to any matter w	ny person knowingly ithin its jurisdiction.	and willfully to	o make to any department or	agency of the Unite
(Instructions on reverse)					
Williams Exploration and Production Company, LLC, prop the attached drilling and surface use plans.	oses to develop the	Blanco Mesaverde	formation at t	he above described locati	on in accordance v

The well pad surface is under jurisdiction of the BLM, Farmington Field Office.

This location has been archaeologically surveyed by La Plata Archaeological Consultants. Copies of their report have been submitted directly to the BLM and NMGF.

No access road is needed, as this is a twinned location. A pipeline tie of 237.4 feet would be required for this location. The pipeline would be located on Public lands.

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

NOTIFY AZTEG OOD 2.4h. S. IN TIME TO WITNESS CSq and Cenews.

#



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

OIL CONSERVATION DIVISION PO Box 2088 707 45 Santa Fe, NM 87504-2088

AM 31 AM 7: | Fee Lease - 3 Copies

RECTIVILS AMENDED REPORT RCVD FEB28'07

OIL CONS. DIV.

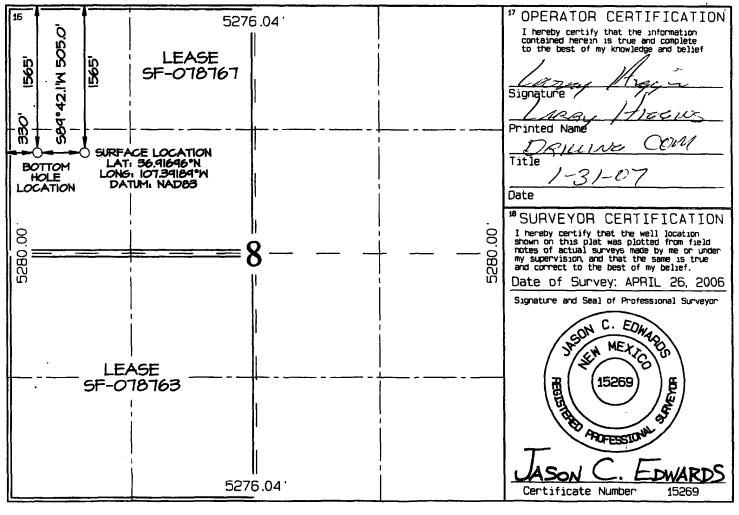
DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-30184	*Pool Code 72319	°Pool Name, BLANCO MESAVE	RDE
Property Code 17033	"Property Name ROSA UNIT		°Well Number 808
'OGRID №. 120782	• • • • • • • • • • • • • • • • • • • •	or Name UCTION COMPANY	*Elevation 6298

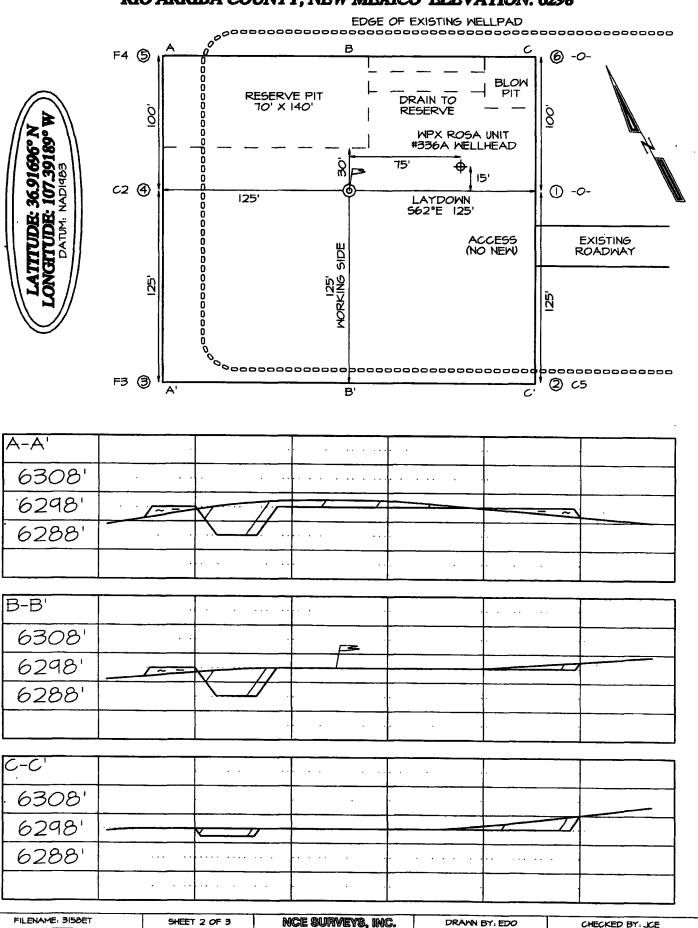
<sup>10</sup> Surface Location Feet from the UL or lot no. Sect ion Township Range Lot Idn North/South line Feet from the East/West line RIO Ε 8 **5W** 1565 NORTH 835 WEST 31N ARRIBA 11 Bottom From Surface Hole Location Different UL or lot no. Sect ion Lot Idn Feet from the North/South line et from the East/West line RIO **5W** 8 31N 1565 NORTH 330 WEST: Ε ARRIBA 12 Dedicated Acres <sup>55</sup>Order No. <sup>13</sup> Joint or Infill <sup>14</sup> Consolidation Code 320.0 Acres - (W/2)

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



Submit 3 Copies To Appropriate District	State of New Mex	rico		Form C-103
Office District I	Energy, Minerals and Natural Resources			May 27, 2004
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.	011
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION		30-039-30 5. Indicate Type of Le	OSO EEDEDAL V
District III	1220 South St. Francis Dr.		STATE	FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 875	505	6. State Oil & Gas Lea	
1220 S. St. Francis Dr., Santa Fe, NM 87505	34.0		NMSF-078767	
SUNDRY NOTI	CES AND REPORTS ON WELLS		7. Lease Name or Uni	Agreement Name
	SALS TO DRILL OR TO DEEPEN OR PLUG CATION FOR PERMIT" (FORM C-101) FOR		Rosa	
PROPOSALS.)	ATION FOR FERMIT (FORM C-101) FOR	CSUCH	8. Well Number	, and the second
	Gas Well 🛛 Other		80B	
2. Name of Operator	Production Company, LLC		9. OGRID Number <b>1207</b>	182
3. Address of Operator	Toduction Company, LLC		10. Pool name or Wild	
	Box 640, Aztec, NM		Blanco Mesaverde	
4. Well Location: Surface				
· ·	feet from the N line	and 835	feet from the <b>W</b>	line
	nship 31N Range 05W NM		unty Rio Arriba	
	11. Elevation (Show whether DR,			
	6,298'	GR		
Pit or Below-grade Tank Application 🗵 o			200 %	500 5
	oundwater_>100 ft_Distance from neares	_	_	st surface water_>500 ft]
Pit Liner Thickness: 12 mi	Below-Grade Tank: Volume	bbls: Constr	uction Material	
12. Check A	Appropriate Box to Indicate Na	ture of Notice,	Report or Other Dat	a .
NOTICE OF IN	TENTION TO:	SHR	SEQUENT REPOR	RT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	•	ERING CASING
TEMPORARILY ABANDON				
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	JOB 🔲	
OTHER:	П	OTHER:		п
	leted operations. (Clearly state all po		give pertinent dates, in	cluding estimated date
	ork). SEE RULE 1103. For Multiple			
or recompletion.				·
Drilling/Completion pit to be less	ed approximately 50 to 75 feet fro	om well boad. Di	t multi uso drilling and	completion to evoid
	t will be considered out of service			
	ce with NMOCD guidelines and V			sonou dotod,
•	<b>G</b>	•		•
I hereby certify that the information grade tank has been/will be constructed or	above is true and complete to the be- closed according to NMOCD guidelines			
,				
SIGNATURE Com	MigginTITLE_		DATE	31-07
Type or print name Larry Higgi	ns E-mail address: larry.higg	ins@williams.co	om Telephone No. 50	5-634-4208
For State Use Only				
1	//h ====	MANY PIN & CAC II	NCBELLUB UILL WE -	77 2/20/20
Conditions of Approval (if any)	TITLE_	TOTE UR. & UAS I	DA	TE \( \sigma \) \( \lambda \) \( \lambda \)
APPROVED BY:  Conditions of Approval (if any): If  the O  unless	the time betweend	rilling and a	completion of	Thervell except
the o	CD time limit, Pitmust	thetlused	in compliance	, with rule 50
unless	an extension requeste	L.	•	
	<i>,</i>			

# WILLIAMS PRODUCTION COMPANY ROSA UNIT #80B 1565' FNL & 835' FWL, SECTION 8, T31N, R5W, NMPM RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6298'



CHECKED BY: JCE



# WILLIAMS PRODUCTION COMPANY

# **Operations Plan**

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

**DATE:** 

1/16/2007

FIELD:

Blanco MV

**WELL NAME:** 

Rosa #80B

**SURFACE:** 

**FED** 

**BH LOCATION:** 

SWNW Sec 8-31N-5W

Rio Arriba, NM

**MINERALS:** 

**FED** 

**SURF LOCATION:** 

SWNW Sec 8-31N-5W

**ELEVATION:** 

6,298' GR

LEASE#

SF-078767

**MEASURED DEPTH: 6,103** 

**GEOLOGY:** 

Surface formation - San Jose

# A. FORMATION TOPS: (KB)

Name	TVD	MD	Name	<b>TVD</b> 5,347	<b>MD</b> 5,392
Ojo Alamo	2,397	2,428	Cliff House		
Kirtland	2,502	2,535	Menefee	5,392	5,437
Fruitland	2,912	2,953	Point Lookout	5,582	5,627
Picture Cliffs	3,117	3,161	Mancos	5,902	5,947
Lewis	3,407	3,452	TD	6,057	6,103

- B. MUD LOGGING PROGRAM: none
- C. LOGGING PROGRAM: Cased Hole logs only
- 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 in. 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	3,645	7	20 K-55
Liner	6 1/4	3,545 6,103	4 1/2	10.5 J-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.
- 2. <u>INTERMEDIATE CASING:</u> 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. <u>PRODUCTION CASING:</u> 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.

#### IV. CEMENTING:

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

- 1. <u>SURFACE</u>: Slurry: <u>150sx</u> (205 cu.ft.) of "Type III" + 2% CaCl<sub>2</sub> + ¼ # of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
- 2. <u>INTERMEDIATE:</u> Lead 460 sx (956) cu.ft.) of "Premium Light" with 8% gel, 1% CaCl<sub>2</sub> and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail 50 sx (70cu.ft.) of "Type III" with 1/4# cello-flake/sk (Yield = 1.4 cu.ft./sk, Weight = 14.5#/gal.). Use 100% excess in Lead Slurry to circulate to surface. No excess in Tail Slurry. Total volume = 1,026 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.
- 3. PRODUCTION LINER: 10 bbl Gelled Water spacer. Cement: 155 sx (327 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ¼ #/sk cello flake and 4% Phenoseal. (Yield = 2.15 ft³/sk, Weight = 12.3 #/gal.). Displace cement at a minimum of 8 BPM. The 20% excess in lead and tail should cover 100 ft into intermediate casing. Total volume 327 ft³. WOC 12 hours

# V. 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. Perforate the Point Lookout as determined from the open hole logs.
- 2. Stimulate with approximately 9,300# of 14/30 LiteProp<sup>TM</sup> sand in slick water.
- 3. Isolate Point Lookout with a CIBP.
- Perforate the Menefee/Cliff House as determined from the open hole logs.
   Stimulate with approximately 9,300# of 14/30 LiteProp<sup>TM</sup> sand in slick water.
- 6. Test each zone before removing bridge plugs.

# D. RUNNING TUBING

1. Mesa Verde: 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.

Rosa #080B Dir Ops Plan.doc

# Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

# Exhibit #1 Typical BOP setup

