

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 18 2008

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

Bureau  
Farmington Field

5. Lease Serial No  
NMSF-078764

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE** - Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
WILLIAMS PRODUCTION CO., LLC

3a. Address  
P O BOX 640  
AZTEC, NM 87410

3b. Phone No. (include area code)  
(505) 634-4208

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Surface - 685 FNL & 835 FEL  
BHL - 2310 FNL & 330 FEL Sec 20, T31N, R5W

7. If Unit of CA/Agreement, Name and/or No  
ROSA UNIT

8. Well Name and No  
ROSA UNIT #85C

9. API Well No  
30-039-30220

10. Field and Pool or Exploratory Area  
BLANCO MV/BASIN DK

11. Country or Parish, State  
RIO ARRIBA, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Due to change in plans Williams Production intends to drill this well an a Mesaverde/Dakota dual completion. See attached plat, drilling plan and directional plan.

**NOTIFY AZTEC OGD 24 HRS.  
PRIOR TO CASING & CEMENT**

**CONDITIONS OF APPROVAL**  
Adhere to previously issued stipulations.

RCVD SEP 23 2008  
OIL CONS. DIV.

DIST. 3

Hold C104

for Directional Survey  
and "As Drilled" plat

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)

Larry Higgins

Title Drilling COM

Signature

*Larry Higgins*

Date 09/18/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

*Troy L. Salyers*

Title Petroleum Engineer

Date 9-22-2008

Conditions of approval, if any, are attached. Approval of this notice 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 thereon.

Office

FFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

(Instructions on page 2)

**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		*Pool Code 72319 / 71599		*Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
*Property Code 17033		*Property Name ROSA UNIT			*Well Number 85C
*GRID No 120782		*Operator Name WILLIAMS PRODUCTION COMPANY			*Elevation 6429'

<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
A	20	31N	5W		685	NORTH	835	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
H	20	31N	5W		2310	NORTH	330	EAST	RIO ARriba

<sup>12</sup> Dedicated Acres 320.0 Acres - (N/2)	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No NSL- 5699
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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

<div>16</div> <div>5284.62'</div> <div>LEASE SF-078764</div> <div>5280.00'</div> <div>20</div> <div>5280.00'</div>	<div>SURFACE LOCATION LAT: 36.89040°N LONG: 107.37956°W DATUM: NAD83</div> <div>BOTTOM-HOLE LOCATION LAT: 36.88595°N LONG: 107.37783°W DATUM: NAD83</div> <div>685' 835' 2310' 2640.00' 330'</div> <div>S17°38'09"E 164°48'6"</div>	<div><sup>17</sup> OPERATOR CERTIFICATION</div> <div>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</div> <div><i>Larry Higgins</i> Signature 9-18-06 Date</div> <div>LARRY HIGGINS Printed Name</div> <div><sup>18</sup> SURVEYOR CERTIFICATION</div> <div>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</div> <div>Survey Date: NOVEMBER 20, 2006</div> <div>Signature and Seal of Professional Surveyor</div> <div><div>JASON C. EDWARDS NEW MEXICO 15269 REGISTERED PROFESSIONAL SURVEYOR</div><div>JASON C. EDWARDS Certificate Number 15269</div></div>
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**WILLIAMS PRODUCTION COMPANY**  
**Drilling Plan**

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

<b><u>DATE:</u></b>	9/3/2008	<b><u>FIELD:</u></b>	Blanco MV/DK/ <del>Mancos</del> ✓
<b><u>WELL NAME:</u></b>	Rosa Unit #85-C	<b><u>SURFACE:</u></b>	BLM
<b><u>S. LOCATION:</u></b>	NE/4 NE/4 Sec 20-31N-5W Rio Arriba, NM	<b><u>MINERALS:</u></b>	BLM
<b><u>ELEVATION:</u></b>	6,429 ft. GL	<b><u>LEASE #</u></b>	NMSF-078764
<b><u>MEASURED DEPTH:</u></b>	8,607 ft. (MD)	<b><u>API#:</u></b>	30-039-30220
<b><u>I. GEOLOGY:</u></b>	Surface formation - San Jose		

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

	<b><u>TVD</u></b>	<b><u>MD</u></b>		<b><u>TVD</u></b>	<b><u>MD</u></b>
Ojo Alamo	2,583'	2,991'	Menefee	5,553'	6,062'
Kirtland	2,683'	3,117'	Point Lookout	5,758'	6,267'
Fruitland Fmtn	3,108'	3,601'	Mancos sh	6,068'	6,577'
Pictured Cliffs	3,318'	3,821'	Gallup	7,068'	7,577'
Lewis Sh	3,618'	4,127'	Greenhorn	7,788'	8,297'
Int. Casing	3,793'	4,301'	Graneros	7,843'	8,352'
Cliff House Trans	5,193'	5,701'	Dakota	7,973'	8,482'
Cliff House	5,508'	6,017'	5-1/2" Casing	8,098'	8,607'
			<b>Total Depth</b>	<b>8,098'</b>	<b>8,607' ✓</b>

**B. LOGGING PROGRAM:** Mud Logger on at 100 ft above Gallup Ss to TD M. Logger will pick TD.

**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:** Use a LSND mud (+/-40 Vis.) to drill 9-7/8 in. Intermediate Hole. Increase vis to +/-60 to run Casing. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses. Use air w/Air Hammer w/ 6-3/4 in. bit to drill-out 7-5/8 in. csg. to TD +/- 7,927 ft.

**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 surface and Intermediate casing will be pressure tested to **1500 psi for 30 minutes** after the BOPE 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:


<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH (MD)</u>	<u>CASING SIZE</u>	<u>WT. &amp; GRADE</u>
Surface	14-3/4"	+310'	10-3/4"	<del>40.5#</del> 32.75# K-55
Intermediate	9-7/8"	4,301'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/-8,607'-Surf.	5-1/2"	17# N-80

#### B. FLOAT EQUIPMENT:

1. SURFACE CASING: 10-3/4" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (3) joints of Surface Casing.
2. INTERMEDIATE CASING: 7-5/8" cement nose guide shoe with a self-fill float Collar. Place Float Collar one joint above the shoe. Install (1) Turbulent centralizer on each of the bottom (3) joints. 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). ( Call this in to BLM for approval. If denied, follow what is in the Operations Plan in the Permit package. )
3. PRODUCTION CASING: 5-1/2" whirler type cement nose guide shoe with a float collar on top of bottom joint. Place marker joint above 5,600'. Place one turbolizer every third joint thru Dakota and Mesa Verde intervals. ). ( Call this in to BLM for approval. If denied, follow what is in the Operations Plan in the Permit package. )

#### C. CEMENTING: *Note: Volumes may be adjusted onsite due to actual conditions)*

1. SURFACE: Slurry: 250sx (345 cu.ft.) of "Type III" + 2% CaCl<sub>2</sub> + 1/4 # of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). NO EXCESS PUMP AS WRITTEN SHOULD CIRCULATE TO SURFACE WOC 12 hours. Test csg to 1500psi.
2. INTERMEDIATE: Lead - 610sx (1,287 cu.ft.) of Premium Light with 8% gel, 1% CaCl<sub>2</sub>, 4% Phenoseal and 1/4# cello-flake/sk (Yield = 2.11 cu.ft./sk, Weight = 12.1 #/gal.). Tail - 100 sx (139cu.ft.) of "Type III" with 1/4# cello-flake/sk (Yield = 1.4 cu.ft./sk, Weight = 14.5#/gal.). NO EXCESS IN EITHER SLURRY PUMP AS WRITTEN Total volume = 1,426 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.
3. PRODUCTION CASING: 10 bbl Gelled Water space. Lead: 85sx (222ft<sup>3</sup>) of Premium Light HS + 1% FL-52 + .2% CD-32, 3 #/sk CSE. ( Yield = 2.61 cu.ft./sk, Weight = 11.6 #/gal.). Tail: 110 sx (234 ft<sup>3</sup>) of Premium Light HS + 1% FL-52 + .2% CD-32, 3 #/sk CSE, 1/4 #/sk cello flake and 5 #/sk LCM-1. (Yield = 2.15 ft<sup>3</sup>/sk, Weight = 12.3 #/gal.). Displace cement at a minimum of 8 BPM. NO EXCESS IN EITHER SLURRY PUMP AS WRITTEN. Should cover 100 ft into intermediate casing. Total volume 456ft<sup>3</sup>. WOC 12 hours.

  
for Gary Sizemore  
Sr. Drilling Engineer

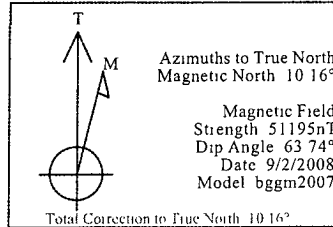
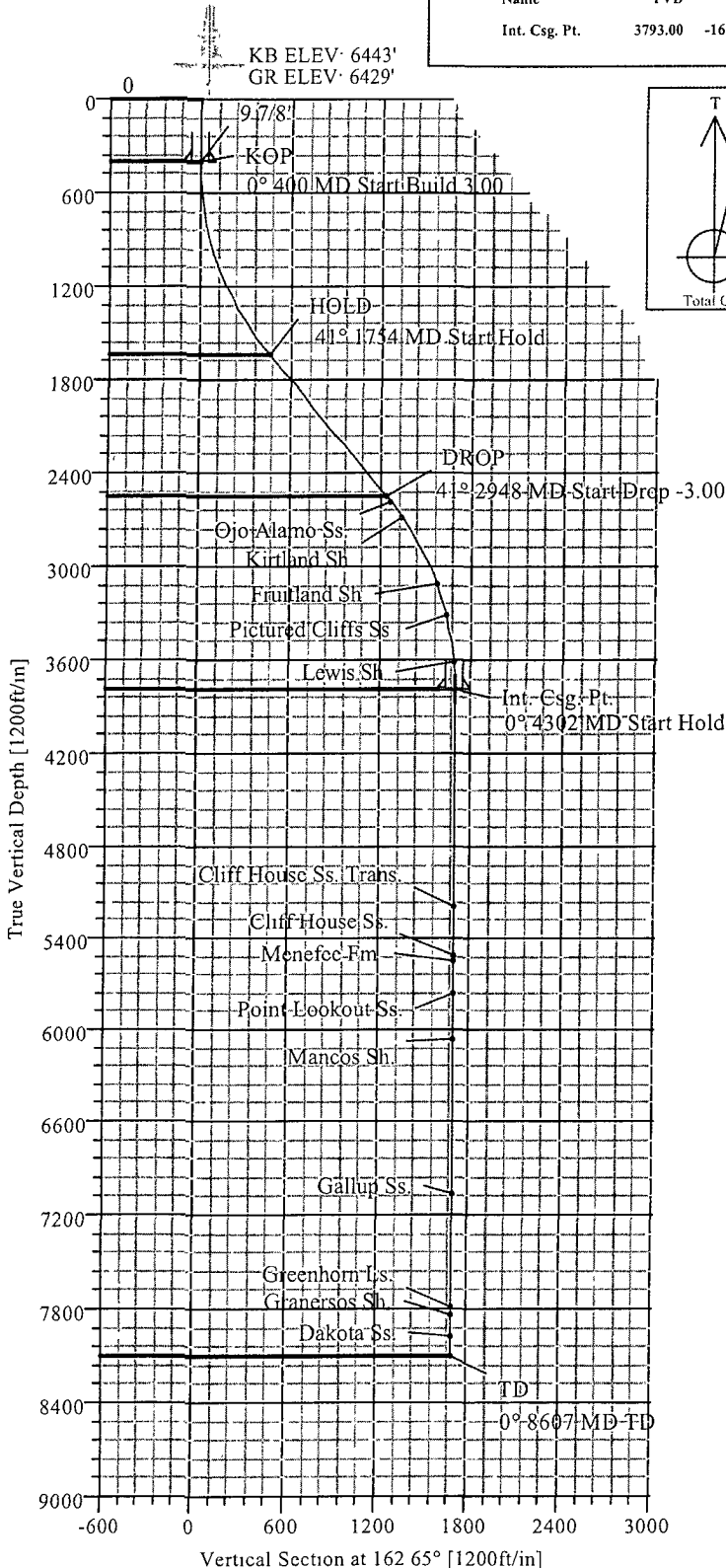


ROSA UNIT #85C  
RIO ARRIBA CO., NEW MEXICO

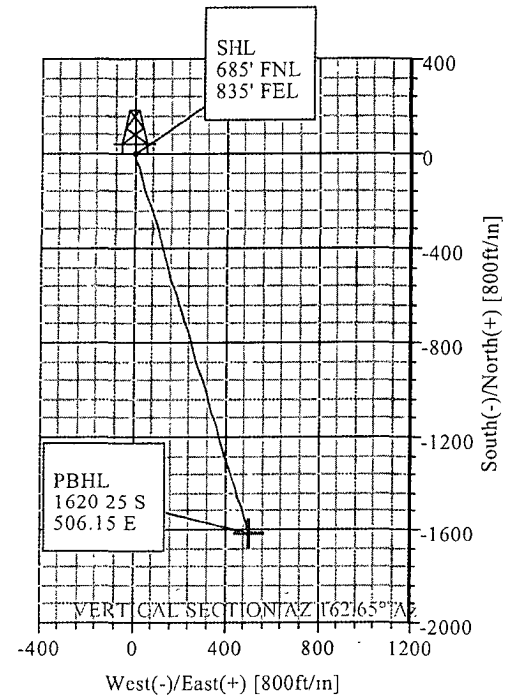
SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
1	0.00	0.00	162.65	0.00	0.00	0.00	0.00	0.00	0.00		
2	400.00	0.00	162.65	400.00	0.00	0.00	0.00	0.00	0.00		
3	1753.77	40.61	162.65	1643.22	-439.12	137.18	3.00	162.65	460.05		
4	2947.99	40.61	162.65	2549.78	-1181.13	368.97	0.00	0.00	1237.42		
5	4301.77	0.00	162.65	3793.00	-1620.25	506.15	3.00	180.00	1697.47	Int. Csg. Pt.	
6	8606.77	0.00	162.65	8028.00	-1620.25	506.15	0.00	162.65	1697.47		

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#85-C	0.00	0.00	2145354.54	1310104.93	36°53'25.440N	107°22'46.420W	N/A

TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Int. Csg. Pt.	3793.00	-1620.25	506.15	2143728.41	1310591.86	36°53'09.420N	107°22'40.190W	Point



FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	2583.00	2991.34	Ojo Alamo Ss.
2	2683.00	3117.28	Kirtland Sh.
3	3108.00	3601.16	Fruitland Sh.
4	3318.00	3821.73	Pictured Cliffs Ss.
5	3618.00	4126.52	Lewis Sh.
6	5193.00	5701.77	Cliff House Ss. Trans.
7	5508.00	6016.77	Cliff House Ss.
8	5553.00	6061.77	Menefee Fm.
9	5758.00	6266.77	Point Lookout Ss.
10	6068.00	6576.77	Mancos Sh.
11	7068.00	7576.77	Gallup Ss.
12	7788.00	8296.77	Greenhorn Ls.
13	7843.00	8351.77	Graneros Ss.
14	7973.00	8481.77	Dakota Ss.



Weatherford

CASING DETAILS				
No.	TVD	MD	Name	Size
1	400.00	400.00	9 7/8"	0.000
2	3793.00	4301.77	Int. Csg. Pt.	0.000

Plan. Plan #1 (#85-C/1)

Created By: Lindsey Maddux Date: 9/2/2008