

UNITED STATES  
DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
MAY 16 2008  
Bureau of Land Management  
Farmingdale Field Office

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

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION TO DRILL" for permit for such proposals

Lease Designation and Serial No  
NMSF-078765

SUBMIT IN TRIPLICATE		6.	If Indian, Allottee or Tribe Name
		7.	If Unit or CA, Agreement Designation Rosa Unit
1.	Type of Well Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	8.	Well Name and No. Rosa Unit #88C
2.	Name of Operator WILLIAMS PRODUCTION COMPANY	9.	API Well No. 30-045-34458
3.	Address and Telephone No. PO Box 640 Aztec, NM 87410-0640	10.	Field and Pool, or Exploratory Area BLANCO MV/BASIN DK
4.	Location of Well (Footage, Sec., T., R., M., or Survey Description) 1060' FNL & 2230' FEL Sec 8, T31N, R6W NMPM	11.	County or Parish, State San Juan, New Mexico

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	Abandonment
<input checked="" type="checkbox"/> Subsequent Report	Recompletion
	Plugging Back
	Casing Repair
	Altering Casing
<input type="checkbox"/> Final Abandonment	<input checked="" type="checkbox"/> Other <u>Multiple zone completion</u>
	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 Company, LLC. hereby requests authority to drill this as a Mesa Verde/Dakota dual as per attached plat, directional plan and operations plan.

RCVD MAY 22 '08

OIL CONS. DIV.

DIST. 3

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

Signed Larry Higgins  
Larry Higgins

Title Drilling C O M

Date 5-16-08

(This space for Federal or State office use)

Approved by Original Signed: Stephen Mason

Title

Date MAY 20 2008

Conditions of approval, if any

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

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 <b>30-045-34458</b>		*Pool Code 72319 / 71599		*Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
*Property Code 17033		*Property Name ROSA UNIT			*Well Number 88C
*OGRID No 120782		*Operator Name WILLIAMS PRODUCTION COMPANY			*Elevation 6218'

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
B	8	31N	6W		1060	NORTH	2230	EAST	SAN JUAN

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
C	8	31N	6W		330	NORTH	2310	WEST	SAN JUAN

12 Dedicated Acres 320.0 Acres - (W/2)	13 Joint or Infill	14 Consolidation Code	15 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

<p>16</p> <p>2644.62'</p> <p>330'</p> <p>2310'</p> <p>BOTTOM-HOLE LAT: 36.92038°N LONG: 107.48737°W DATUM: NAD1983</p> <p>1041.9' N45°54.0'W</p> <p>1060'</p> <p>2644.62'</p> <p>2230'</p> <p>SURFACE LOCATION LAT: 36.91838°N LONG: 107.48482°W DATUM: NAD1983</p> <p>LEASE SF-078765</p> <p>8</p> <p>5276.04'</p>		<p>17 OPERATOR CERTIFICATION</p> <p>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</p> <p><i>Larry Higgins</i> 5-16-08 Signature Date <i>LARRY HIGGINS</i> Printed Name</p> <p>18 SURVEYOR CERTIFICATION</p> <p>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</p> <p>Date of Survey, MARCH 26, 2007</p> <p>Signature and Seal of Professional Surveyor</p> <p></p> <p><i>JASON C. EDWARDS</i> Certificate Number 15269</p>
---	--	--



**WILLIAMS PRODUCTION COMPANY**  
**Drilling Plan**

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

<b><u>DATE:</u></b>	5/13/2008	<b><u>FIELD:</u></b>	Blanco MV/DK
<b><u>WELL NAME:</u></b>	Rosa Unit #88-C	<b><u>SURFACE:</u></b>	NM G&F
<b><u>S. LOCATION:</u></b>	NE/4 NW/4 Sec 8-31N-6W San Juan, NM	<b><u>MINERALS:</u></b>	BLM
<b><u>ELEVATION:</u></b>	6,218 ft. GL	<b><u>LEASE #</u></b>	NMSF-078765
<b><u>MEASURED DEPTH:</u></b>	8,058 ft. (MD)	<b><u>API#:</u></b>	30-045-34458
<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	2,142'	2,308'	Menefee	5,237'	5,458'
Kirtland	2,262'	2,442'	Point Lookout	5,462'	5,683'
Fruitland Fmtn	2,692'	2,903'	Mancos sh	5,762'	5,983'
Pictured Cliffs	3,002'	3,221'	Gallup	6,797'	7,018'
Lewis Sh	3,322'	3,543'	Greenhorn	7,517'	7,738'
<b>Int. Casing</b>	<b>3,477'</b>	<b>3,698'</b>	Graneros	7,577'	7,798'
Cliff House Trans	4,867'	5,088'	Dakota	7,707'	7,928'
Cliff House	5,192'	5,413'	<b>5-1/2" Casing</b>	<b>7,927'</b>	<b>8,058'</b>
			<b>Total Depth</b>	<b>7,927'</b>	<b>8,058'</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 Vls.) 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"	32.75# K-55
Intermediate	9-7/8"	3,696'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/-8,058'-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: 255sx (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. INTERMEDIATE: Lead - 640sx (1,350 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.). Use **100% excess in Lead Slurry** to circulate to surface. **No excess in Tail Slurry.** Total volume = 1,437 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: 75sx (195ft<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, ¼ #/sk cello flake and 4% Phenoseal (Yield = 2.15 ft<sup>3</sup>/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 429ft<sup>3</sup>. WOC 12 hours.



Gary Sizemore  
Sr. Drilling Engineer



**Weatherford<sup>®</sup>**

## **Drilling Services**

---

## **PROPOSAL**

---



**WILLIAMS PRODUCTION COMPANY  
ROSA UNIT #88-C  
SAN JUAN COUNTY, NEW MEXICO  
WELL FILE: **PLAN 2****

---

Submitted: May 15, 2008

---

**Weatherford International Ltd.**  
P.O. Box 61028  
Midland, Texas 79711 USA  
+1.432.561.8892 Main  
+1.432.561.8895 Fax  
[www.weatherford.com](http://www.weatherford.com)



# ROSA UNIT 88C SAN JUAN COUNTY, NM

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	314.33	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	314.33	400.00	0.00	0.00	0.00	0.00	0.00	
3	1400.00	30.00	314.33	1354.93	178.80	-183.04	3.00	314.33	255.87	
4	2211.92	30.00	314.33	2058.07	462.47	-473.43	0.00	0.00	661.83	
5	3697.82	0.00	314.33	3477.00	728.15	-745.41	2.02	180.00	1042.03	Csg Pt P2
6	8057.82	0.00	314.33	7837.00	728.15	-745.41	0.00	314.33	1042.03	P2

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Rosa Unit 88C	0.00	0.00	2153808.21	2824974.89	36°55'06.168N	107°29'05.352W	N/A

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape	
Csg Pt P2	3477.00	728.15	-745.41	36°55'13.368N	107°29'14.532W	Point	
P2	7837.00	728.15	-745.41	36°55'13.368N	107°29'14.532W	Circle (Radius: 50)	

FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	2142.00	2307.91	Ojo Alamo
2	2262.00	2442.25	Kirtland
3	2692.00	2902.44	Fruitland
4	3002.00	3220.57	Pictured Cliffs
5	3322.00	3542.74	Lewis
6	4867.00	5087.82	Cliff House Trans
7	5192.00	5412.82	Cliff House
8	5237.00	5457.82	Menefee
9	5462.00	5682.82	Point Lookout
10	5762.00	5982.82	Mancos
11	6797.00	7017.82	Gallup Ss.
12	7517.00	7737.82	Greenhorn Ls.
13	7577.00	7797.82	Graneros Sh.
14	7707.00	7927.82	Dakota Ss.

