W. T.	9			
In Lieu Form 3 (June 1	160 DEPARTME	ED STATES ENT OF INTERIOR AND MANAGEMENT		FORM APPROVED Budget Bureau No 1004-0135 Expires March 31, 1993
Do no	SUNDRY NOTICE AND at use this form for proposals to drill or to deepen o	5	Lease Designation and Serial No SF-078888	
	TO DRILL" for perm	6	If Indian, Allottee or Tribe Name N/A	
	SUBMIT IN T	RIPLICATE MAY 12 2010	7	If Unit or CA, Agreement Designation Rosa  NMN/M/S-F/JX
1.	Type of Well Oil Well X Gas Well Other	Bureau of Land Managem Farmingion Field Office	<b>lei i</b> 8 3	Well Name and No Rosa Unit #600
2.	Name of Operator WILLIAMS PRODUCTION COMPANY	Famugues	9.	API Well No. 30-039-29783
3.	Address and Telephone No PO BOX 640 Aztec, NM 87410-0640	10	Field and Pool, or Exploratory Area Blanco MV/Basin MC/Basin DK	
4.	Location of Well (Footage, Sec., T., R, M., or Surface: 2320' FNL & 2600' FWL	11	County or Parish, State Rio Arriba, NM	
	CHECK APPROPRIA	TE BOX(s) TO INDICATE NATURE OF NOTICE, R	EPORT, OR	OTHER DATA
	TYPE OF SUBMISSION	ТҮР	E OF ACTI	ON
M	X Notice of Intent  Subsequent Report	Abandonment Recompletion Plugging Back		Change of Plans New Construction Non-Routine Fracturing

1

Subsequent Report

Final Abandonment

Conditions of approval, if any

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 )\*

X Other <u>name change - formation change -</u> Spacing change - extension - BHL

Non-Routine Fracturing

Conversion to Injection

(Note: Report results of multiple completion on Well Completion or Recompletion Report and

Water Shut-Off

Dispose Water

Log form.)

Plugging Back

Casing Repair

Altering Casing

Williams Production Company, LLC hereby requests authorization to: 1) change the name of this well from the Rosa Unit #369 to the Rosa Unit #600; 2) change the formation from the Frutland Basin Coal to the Blanco Mesaverde, Basin Mancos and Basin Dakota; 3) change the spacing from W/2 to N/2; 4) request a short term extension of 120 days. This has been discussed with the USFS. The current APD expires 5-23-10. 5) Change the bottom hole location. Williams will now drill this as a vertical well from the present surface location. Williams has built the location and will drill this well in the current drilling season. See attached C-102 and operations plan.

RCVD JUN 3'10 CONDITIONS OF APPRO Adhere to previously issued stipulations. Title Permit Supervisor (This space for Federal or State office use) Approved by Toy Title

District I 1625 N French Dr., Hobbs, NM 88240

District II

District IV

State of New Mexico

Energy, Minerals & Natural Resources Department

1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

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

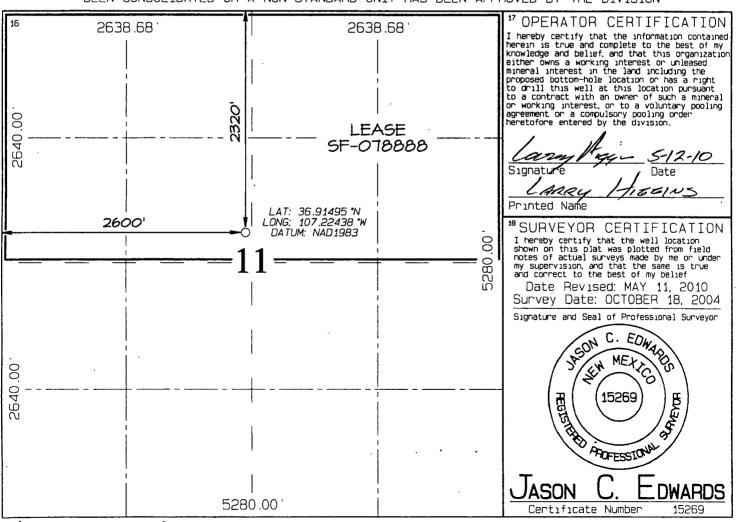
# WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	²Pool Code	'Pool Name	
30-039-29783	97232 / 72319 / 71599	BASIN MANCOS / BLANCO MESAVERDE	/ BASIN DAKOTA
¹Property Code	5	⁵Well Number	
17033	F	600	
'OGRID No.	*(	Operator Name	*Elevation
120782	WILLIAMS F	PRODUCTION COMPANY	7018 ·

# 10 Surface Location

					Jul Tucc	LOCULTON.			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	11	31N	4W		2320	NORTH	2600	WEST	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
12 Dedicated Acres			<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>25</sup> Order No	•			
320.0 Acres - N/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



Standard location per S. H. 6-4-10



# **WILLIAMS PRODUCTION COMPANY**

# Operations Plan

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

DATE:

5/6/2010

FIELD:

Basin DK/ Basin MC/BlancoMV

**WELL NAME:** 

Rosa Unit #600

Rio Arriba, NM

SURFACE:

USFS

**BH LOCATION:** 

SENW Sec 11-31N-4W

**MINERALS:** 

Federal

**ELEVATION:** 

7,018' GR

LEASE #

SF-078888

**MEASURED DEPTH:** 

9,057

I. I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	Depth	Name	Depth	
Ojo Alamo	3,367	Point Lookout	6,432	
Kirtland	3,502	Mancos	6,757	
Fruitand	3,722	Gallup	7,757	
Pictured Cliffs	3,982	Greenhom	8,487	
Lewis	4,377	Graneros	8,537	
Cliff House	6,232	Dakota	8,642	
Menefee	6,282	Morrison	8,957	
		TD	9,057	

- **B.** MUD LOGGING PROGRAM: Mudlogger on location from surface csg to TD. Mud logger to pick TD. Weatherford Portable X-Ray Diffraction and Source Rock Analysis from intermediate csg to TD.
- C. <u>LOGGING PROGRAM</u>: ACRt/GR/CN/WAVE/SDL from surface casing to intermediate casing. ACRt/GR/CN/WAVE/SDL from intermediate casing to TD
- **D.** <u>FULL DIAMETER CORING:</u> 3" diameter core will be cut between intermediate csg point and TD through intervals of interest as identified by open hole logs and other analyses.
- **E.** <u>NATURAL GAUGES:</u> Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

## II. DRILLING

- A. MUD PROGRAM: Use Water + Gel/Polymer sweeps to drill Surface hole. Convert to a LSLD EZ-MUD system mud (+/-50 Vis.) to drill 12-1/4 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. Drill out of 9-5/8" casing with 7-7/8" PDC to top of first coring interval. POOH to pick up wireline retrievable coring assembly and drill to TD at +/- 9,057 ft (MD) while cutting core over intervals of interest.
- B. <u>BOP TESTING</u>: 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

## Rosa #600 MVMCDK Ops Plan

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	17 1/2	500	13 3/8	68	K-55
Intermediate	12 1/4	4,527	9 5/8	36	HCK-55
Longstring	7 7/8	9,057	4 1/2	11.6	P-110

#### 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 (4) joints of Surface Casing.
- 2. <u>INTERMEDIATE CASING:</u> 7-5/8" 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 LINER / 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.

#### C. CEMENTING:

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

- 1. <u>SURFACE</u>: Slurry: <u>290sx</u> (521 cu.ft.) of "Type III" + 2% Cal-Seal 60 + ¼ # of poly-e-flake/sk + 0.3% Versaset + 2% Econolite + 6% Salt (Yield = 1.796 cu.ft./sk, Weight = 13.5 #/gal.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 600psi. for 30 minutes
- 2. <u>INTERMEDIATE</u>: Lead 875 <u>sx</u> (2383 cu.ft.) of "EXTENDACEM" + 5 #/sk pheno-seal + 5% Cal-Seal 60 (Yield = 2.723 cu.ft./sk, Weight = 11.5 #/gal.). Tail <u>100 sx</u> (117.8cu.ft.) of Premium cement + 0.125 #/sk Poly-E-Flake, (Yield = 1.178 cu.ft./sk, Weight = 15.6#/gal.). Total volume = 2,501 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface. WOC 12 hours. Test to 1500psi. for 30 minutes.
- 3. PRODUCTION CASING: 10 bbl Gelled Water spacer. Cement: 1155 sx (1614 ft³) of "FRACCEM" + 0.8% Halad-9 + 0.1% CFR-3 + 5 #/sk Gilsonite + 0.125 #/sk Poly-E-Flake + 0.15% HR-800. (Yield =1.398 ft³/sk, Weight = 13.1 #/gal.). Displace cement at a minimum of 8 BPM. otal volume (1614) ft³. WOC 12 hours. Casing will be tested at completion.

# IV. IV COMPLETION

# A. <u>CBL</u>

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 test 4-1/2" casing to 1500 psi for 30 minutes.

# C. STIMULATION

- 1. Stimulate Dakota with approximately 5000# 100 mesh sand and 120,000# Ottawa Sand in slick water.
- 2. Isolate Dakota with a RBP.
- 3. Perforate Mancos as determined from the open hole logs
- 4. Stimulate Mancos with 3 stages of approximates 5000# 100 mesh sand and 150,000# 40/70 Ottawa sand
- 5. Isolate Mancos with RBP
- 6. Stimulate Point Lookout with approximately 40,000# 20/40 Ottawa sand in slick water.
- 7. Isolate Point Lookout with a RBP.
- 8. Perforate the Menefee/Cliff House as determined from the open hole logs.
- 9. Stimulate with approximately 40,000# 20/40 Ottawa sand in slick water.
- 10. Test each zone before removing bridge plugs.

# D. RUNNING TUBING

1. <u>Production Tubing:</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 Dakota perforation

Brian Alleman