TYPE OF SUBMISSION X Notice of Intent Subsequent Report Final Abandonment		TYPE C Abandonment Recompletion	F ACTIO	ON Change of Plans
<u> </u>	, , , , , , , , , , , , , , , , , , ,	TE BOX(s) TO INDICATE NATURE OF NOTICE, REPO	ORT, OR	OTHER DATA
4. <u>.</u>	4. Location of Well (Footage, Sec., T., R., M, or Survey Description) Surface: 1475' FNL & 1220' FEL Sec. 31, T31N, R4W		11 .	County or Parish, State Rio Arriba, NM
3.	3. Address and Telephone No PO BOX 640 Aztec, NM 87410-0640			Field and Pool, or Exploratory Area Blanco MV/Basin MC/Basin DK
2.	2. Name of Operator WILLIAMS PRODUCTION COMPANY			API Well No 30-039 -99393 30916
1.	Typc of Well Oil Well X Gas Well Other	Bureau of Land Managemen	8. t	Well Name and No. Rosa Unit #601
SUBMIT IN TRIPLICATE MAY 12 2010			7	If Unit or CA, Agreement Designation Rosa
TO DRILL" for permit for such proposals			6.	If Indian, Allottee or Tribe Name N/A
Do not	SUNDRY NOTICE AND use this form for proposals to drill or to deepen o	5.	Lease Designation and Serial No. NMSF-078777	
Form 3160 DEPARTME		ED STATES ENT OF INTERIOR AND MANAGEMENT		FORM APPROVED Budget Bureau No 1004-0135 Expires March 31, 1993 -

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 authorization to: 1) change the name of this well from the Rosa Unit #399 to the Rosa Unit #601; 2) change the formation from the Frutland Basin Coal to the Blanco Mesaverde, Basin Mancos and Basin Dakota; 3) change the spacing from E/2 to N/2. See attached C-102 and operations plan.

OIL COMS. DIV.

DIST. 3

CONDITIONS OF APPROVAL Adhere to previously issued stipulations.

	Adnere to previously issued supulations.		
Basin JC cancelled 5/24/10			
14. I hereby certify that the foregoing is true and correct Signed Larry Higgins	Title Permit Supervisor Date 05/12/10		
(This space for Federal or State office use) Approved by Troy L Salvers Conditions of approval, if any.	Title Petroleum Engineer Date 5/24/2010 NMOCD A State		

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

State of New Mexico Energy, Minerals & Natural Resources Department

District II 1301 W. Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Rd, Aztec, NM 87410

31

31N

4W

'API Number

H

District IV 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

EAST

AMENDED REPORT

ARRÍBA

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-029-30503	0-029-30503 97232 / 72319 / 71599 BASIN MANCOS / BLANCO MESAVERDE / BASIN DAK					
30-039-30503 Property Code . 17033	*Property Name ROSA UNIT			*Well Number 601		
70GRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY			*Elevation 6963		
¹⁰ Surface Location						
UL or lot no Section	Township Range Lot Idn	Feet from the North/South line		/West line County		

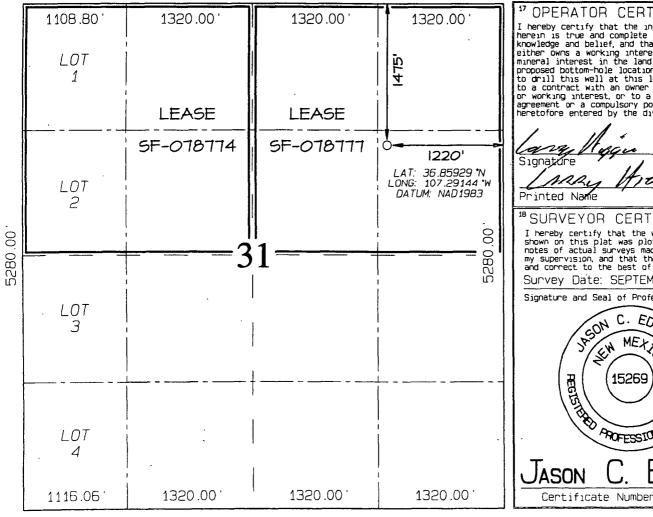
NORTH

1220

¹¹ Bottom Hole From Surface Location Ιf Different UL or lot no. Sect ion Township Range Lot Idn Feet from the North/South line Feet from the County East/West line RCVD MAY 16'10 33 Joint or Infill UIL CUNS. DIV. 12 Dedicated Acres 14 Consolidation Code ³⁵ Order No 307.31 Acres - (N/2)DIST. 3

1475

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



" OPERATOR CERTIFICATION 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. Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or und my supervision, and that the same is true and correct to the best of my belief Survey Date: SEPTEMBER 17, 2008 Signature and Seal of Professional Surveyor SON C. EDWARDS SEM MEXICO SAME POFESSIONAL

DWARDS

15269



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 #601

Rio Arriba, NM

SURFACE:

USFS

BH LOCATION:

SENE Sec 31-31N-4W

MINERALS:

Federal

ELEVATION:

6,963' GR

LEASE#

SF-078777

MEASURED DEPTH:

8,862

I. I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	Depth	Name	Depth
Ojo Alamo	3,162	Point Lookout	6,242
Kirtland	3,292	Mancos	6,532
Fruitand	3,607	Gallup	7,597
Pictured Cliffs	3,787	Greenhom	8,317
Lewis	4,107	Graneros	8,367
Cliff House	6,022	Dakota	8,512
Menefee	6,067	Morrison	8,762
		TD	8,862

- **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 surfacé casing to intermediate casing. ACRt/GR/CN/WAVE/SDL from intermediate casing to TD
- **D.** <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 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. Drill out of 7-5/8" casing with 6-3/4" PDC to top of Graneros. POOH to pick up 813 type PDC bit to Graneros, Greenhorn, Dakota and to TD at +/- 8,862 ft. (MD).
- 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 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	14 3/4	300	10 3/4	32.75	K-55
Intermediate	9 7/8	4,262	7 5/8	26.4	K-55
Longstring	6 3/4	8,862	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. INTERMEDIATE CASING: 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 + ½ # 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 550 sx (1498 cu.ft.) of "EXTENDACEM" + 5 #/sk pheno-seal + 5% Cal-Seal 60 (Yield = 2.723 cu.ft./sk, Weight = 11.5 #/gal.). Tail 100 sx (117.8cu.ft.) of Premium cement + 0.125 #/sk Poly-E-Flake, (Yield = 1.178 cu.ft./sk, Weight = 15.6#/gal.). Total volume = 1615 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface. WOC 12 hours. Test casing to 1500psi for 30 minutes.
- 3. PRODUCTION CASING: 10 bbl Gelled Water spacer. Cement: 610 sx (853 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 (853) ft³. WOC 12 hours. Casing will be tested at completion.

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

Rosa #601 MCMVDK Ops Plan

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 approximately 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
Drilling Enginee