RECEIVED

Form 3160-5 (February 2005)

(Instructions on page 2)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Expires. March 31, 2007

	REPORTS ON WELLS		Offigse Senal No.		
Do not use this form for prop abandoned well. Use Form 316			6. If Indian, Allottee	or Tribe Name	
SUBMIT IN TRIPLICAT	E – Other instructions on page 2		7. If Unit of CA/Agr Rosa Unit	reement, Name and	l/or No.
I. Type of Well	-	8. Well Name and No			
Oil Well Gas Well		Rosa Unit COM #60C			
Name of Operator Williams Production Company, LLC			9 API Well No. 30-045-34213		_
a. Address 3b. Phone No (include area code) PO Box 640 Aztec, NM 87410 505-634-4208			10. Field and Pool or Exploratory Area Blanco Mesaverde/Basin Dakota		
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) Sur. 255' FSL & 1870' FEL – BHL 1980' FSL & 1300' FEL, sec 4, T31N, R6W			11. Country or Parish, State San Juan		
	E BOX(ES) TO INDICATE NATUR			DATA	
TYPE OF SUBMISSION	TYP	E OF ACTION	 		
Notice of Intent Acidize Alter Casing	Deepen Fracture Treat	Production (Start	t/Resume)	Water Shut-Off Well Integrity	
Subsequent Report Casing Repair Change Plans	New Construction Plug and Abandon	Recomplete Temporarily Aba	andon	Other Casing change	<u>e</u>
Final Abandonment Notice Convert to Injection 13. Describe Proposed or Completed Operation: Clearl duration thereof. If the proposal is to deepen direct all pertinent markers and zones. Attach the Bond is subsequent reports must be filed within 30 days for the subsequent filed within	tionally or recomplete horizontally, g under which the work will be perform illowing completion of the involved of	ive subsurface located or provide the Beperations. If the ope	ations and measured a Bond No. on file with eration results in a mi	nd true vertical de BLM/BIA. Requir ultiple completion	oths of ed or
Final Abandonment Notice Convert to Injection 13. Describe Proposed or Completed Operation: Clear duration thereof. If the proposal is to deepen direct all pertinent markers and zones. Attach the Bond of the Convert to Injection.	ly state all pertinent details, including tionally or recomplete horizontally, gunder which the work will be perform ollowing completion of the involved cost be filed once testing has been completed and the operator has determined.	estimated starting of ive subsurface locative subsurface locative are provide the Buperations. If the operations, If the operation and that the site is r	ations and measured a Bond No. on file with eration results in a millionment Notices mus ready for final inspec	nd true vertical de BLM/BIA. Requir ultiple completion t be filed only after tion.)	oths of ed or
Final Abandonment Notice Convert to Injection 13. Describe Proposed or Completed Operation: Clearl duration thereof. If the proposal is to deepen direct all pertinent markers and zones. Attach the Bond's subsequent reports must be filed within 30 days for recompletion in a new interval, a Form 3160-4 mm requirements, including reclamation, have been contact to the subsequent of the subs	ly state all pertinent details, including tionally or recomplete horizontally, gunder which the work will be perform ollowing completion of the involved const be filed once testing has been composted and the operator has determined and cementing on this sign and cementing on this BLN ACT OPE AUT	estimated starting of ive subsurface local red or provide the Broperations. If the operations is the operations if the operation of the start well as per attack. The operation of the operation	ations and measured as Bond No. on file with eration results in a midonment Notices must ready for final inspectached drilling particles acceptance (RELIEVE THE LE DETAINING ANY CEQUIRED FOR OIL	nd true vertical dep BLM/BIA. Requir ultiple completion t be filed only after tion.) Jan. OF THIS ESSEE AND DTHER PERATIONS	oths of ed or r all
Final Abandonment Notice	ly state all pertinent details, including tionally or recomplete horizontally, gunder which the work will be perform ollowing completion of the involved cast be filed once testing has been completed and the operator has determined and cementing on this sign and cementing on this open complete and the operator has determined and the operator has determined and cementing on the sign and cementing on the sin	estimated starting of ive subsurface local color provide the Broperations. If the operations is the operations if the operation in the site is repleted. Final Aband inted that the site is rewell as per attained that the site is rewell as per attained that the site is rewell as per attained in the	ations and measured as Bond No. on file with eration results in a midonment Notices must ready for final inspectached drilling particles acceptance (RELIEVE THE LE DETAINING ANY CEQUIRED FOR OIL	nd true vertical dep BLM/BIA. Requir ultiple completion t be filed only after tion.) Jan. OF THIS ESSEE AND OTHER PERATIONS	oths of ed or r all
Final Abandonment Notice Injection 13. Describe Proposed or Completed Operation: Clearly duration thereof. If the proposal is to deepen direct all pertinent markers and zones. Attach the Bond of subsequent reports must be filed within 30 days for recompletion in a new interval, a Form 3160-4 microgramments, including reclamation, have been consulted by the casing described by the casing	ly state all pertinent details, including tionally or recomplete horizontally, gunder which the work will be perform ollowing completion of the involved clist be filed once testing has been composited and the operator has determined and cementing on this sign and cementing on this BLN ACT OPE AUT ON TITLE Perr	estimated starting of ive subsurface located or provide the Beperations. If the operations is the operations if the operation of the start of the st	ations and measured a Bond No. on file with eration results in a midonment Notices must ready for final inspectached drilling particles and the particles of th	nd true vertical dep BLM/BIA. Requir ultiple completion t be filed only after tion.) Jan. OF THIS SSEE AND OTHER PERATIONS	23456785 Profession
Final Abandonment Notice	y state all pertinent details, including tionally or recomplete horizontally, gunder which the work will be perform ollowing completion of the involved class be filed once testing has been completed and the operator has determined and the operator has determined and cementing on this sign and cementing on this open complete and the operator has determined and cementing on the sign and cementing on the sig	estimated starting of the subsurface located or provide the Beperations. If the operations. If the operation is a per attacked to the operation of	ations and measured a Bond No. on file with eration results in a midonment Notices must ready for final inspectached drilling particles and the particles of th	nd true vertical dep BLM/BIA. Requir ultiple completion t be filed only after tion.) Jan. OF THIS SSEE AND OTHER PERATIONS	23456785 Profession
Final Abandonment Notice	y state all pertinent details, including tionally or recomplete horizontally, gunder which the work will be perform ollowing completion of the involved class be filed once testing has been completed and the operator has determined and the operator has determined and cementing on this sign and cementing on this open control on the control of the performance of the performa	estimated starting of ive subsurface local code or provide the Busherstons. If the operations. If the operations. If the operations. If the operations is the subsurface of th	ations and measured a Bond No. on file with eration results in a midonment Notices must ready for final inspectached drilling particles and the particles of th	nd true vertical dep BLM/BIA. Requir ultiple completion t be filed only after tion.) Jan. OF THIS SSEE AND OTHER PERATIONS	oths of ed or



WILLIAMS PRODUCTION COMPANY Drilling Plan

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

DATE:

5/20/2011

FIELD:

Blanco MV/DK

WELL NAME:

Rosa Unit #60-C

Rio Arriba, NM

SURFACE:

BLM

S. LOCATION:

NE/4 SE/4 Sec 4-31N-6W

MINERALS:

BLM

8,246'

8,832

ELEVATION:

6,451 ft. GL

LEASE #

NMSF-078772

MEASURED DEPTH:

8,832 ft. (MD)

API#:

30-045-34213

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

1	TVD	<u>MD</u>		TVD	<u>MD</u>
Ojo Alamo	2,420'	2,839'	Menefee	5,490'	6,076
Kirtland	2,535'	2,999'	Point Lookout	5,730'	6,316'
Fruitland Fmtn	2,960'	3,515'	Mancos sh	6,065	6,651'
Pictured Cliffs	3,240'	3,817'	Gallup	7,055	7,641'
Lewis Sh	3,545'	4,130'	Greenhorn	7,770'	8,356'
Int. Casing	3,715'	4,301'	Graneros	7,810'	8,396'
Cliff House Trans	5,130'	5,716'	Dakota	7,946'	8,532
Cliff House	5,445'	6,031'	Morrison	8,196'	8,782'
· .			5-1/2" Casing	8,245'	8,831'

B. <u>LOGGING PROGRAM</u>: Mud Logger on from Int. Csg. to TD. Mud Logger will pick TD. (See attached Geological Prognosis for OH Logging Program).

Total Depth

C. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING

- A. <u>MUD PROGRAM</u>: 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 +/- 8,832 ft.
- 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 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.

Rosa Unit #60-C Drill Plan Page #2

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	HOLE SIZE	<u>DEPTH</u> (MD)	CASING SIZE	WT. & GRADE
Surface	14-3/4"	+310'	10-3/4"	40.5# K-55 STC
Intermediate (1)	9-7/8"	4,121'	7-5/8"	26.4# K-55 LTC
Intermediate (2)	9-7/8"	4,271'	7-5/8"	26.4# K-55 STC
Intermediate (3)	9-7/8"	4,300'	7-5/8"	26.4# M-95 LTC
Prod. Casing	6-3/4"	+/-8,832'-Surf.	5-1/2"	17# N-80 LTC

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 (3) joints of Surface Casing.
- 2. <u>INTERMEDIATE CASING:</u> 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. <u>PRODUCTION CASING:</u> 5-1/2" whirler type cement nose guide shoe with a float collar on top of bottom joint. Place marker joint above 6,000'. 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% CaCl₂ + ½ # 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. <u>INTERMEDIATE:</u> Lead <u>650sx</u> (1,372 cu.ft.) of Premium Light with 8% gel, 1% CaCl₂, 4% Phenoseal and 1/4# cello-flake/sk (Yield = 2.11 cu.ft./sk, Weight = 12.1 #/gal.). Tail <u>100 sx</u> (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 = 1,512 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: $85s\underline{x}$ (208ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 3 #/sk CSE + 1/4 #/sk cello-flake+ 5 #/sk LCM-1. (Yield = 2.61 cu.ft./sk, Weight = 11.6 #/gal:). Tail: $110 \underline{sx}$ (234 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 3 #/sk CSE, ¼ #/sk cello flake and 5 #/sk LCM-1. (Yield = 2.13 ft³/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 443ft³. WOC 12 hours.

** NOTE: Well must TD in Lot 9 (See Staking Plat).

Gary Sizemore Sr.Staff Drilling Engineer

Error! Objects cannot be created from editing field codes.