Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED MAY 7.4 2009

FORM APPROVED OMB No. 1004-0137

Expires. July 31, 2010 5 Lease Serial No. NMSF- 078769

SUNDRY NOTICES AND REPORTS ON WELLS

SUNDRY N	OTICES AND REPO	RTS ON WELLS	Manna	6 If Indian, Allottec	or Tribe Name
abandoned well.	orm tor proposais to Use Form 3160-3 (AF	RTS ON MELLS drill or tome enter a PD) for such proposa	n'allegeme Isd Office	nt	
	IN TRIPLICATE – Other in			7 If Unit of CA/Agr	cement, Name and/or No
1 Type of Well				ROSA UNIT 8 Well Name and N	0
Oil Well Gas W				ROSA UNIT #189	
2. Name of Operator WILLIAMS PRODUCTION CO., LLC				9 API Well No. 30-039-30186	
3a. Address P O BOX 640 AZTEC, NM 87410	l l	b Phone No. <i>(include area co</i> 505) 634-4208		 Field and Pool or BLANCO MV/BAS 	-
4 Location of Well <i>(Footage, Sec., T.,I</i> 1455 FNL & 1780 FEL Sec 21, T31N, R5W	R,M, or Survey Description)			II. Country or Parish RIO ARRIBA, NEV	•
o 12 CHEC	K THE APPROPRIATE BOX	(ES) TO INDICATE NATUR	E OF NOTICI	E, REPORT OR OTI	HER DATA
TYPE OF SUBMISSION		ТУ	PE OF ACTION	ON	
Notice of Intent	Acidize Alter Casing	Deepon Fracture Treat	Produc	ction (Start/Resume)	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair	New Construction	Recon	•	Other
Final Abandonment Notice	Change Plans Convert to Injection	☐ Plug and Abandon☐ Plug Back	· ·	rarıly Abandon Disposal	
Due to a change of plan, Williams Pr	oduction intends to drill this	as a vertical well. See attch	ned C-102 an	d operations plan.	
·					RCVD MAY 19'09
					OIL CONS. DIV. DIST. 3
	•			DITIONS OF to previously issue	
14 I hereby certify that the foregoing is tru	e and correct Name (Printed/I	yped)			
Larry Higgins		Title Drilling C	ОМ		
Signature Comment	Augain	Date 05/14/20	009		
	THIS SPACE FO	OR FEDERAL OR ST	ATE OFFI	CE USE	***************************************
Approved by					
Troy L Salvers Conditions of approval, if any, are attached	Ammonal of the material	Title Pel	troleum	Engineer	Date SIISlavoa
that the applicant holds legal or equitable title		warrant or certify	•	•	

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, ficutious or fraudulent statements or representations as to any matter within its jurisdiction

entitle the applicant to conduct operations thereon

FFO

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

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe. NM 87505

District II 1301 W Grand Avenue, Artesia, NM 88210

Revised October 12, 2005 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

District III 1000 Rio Brazos Rd, Aztec, NM 87410

Mumbaa

Form C-102

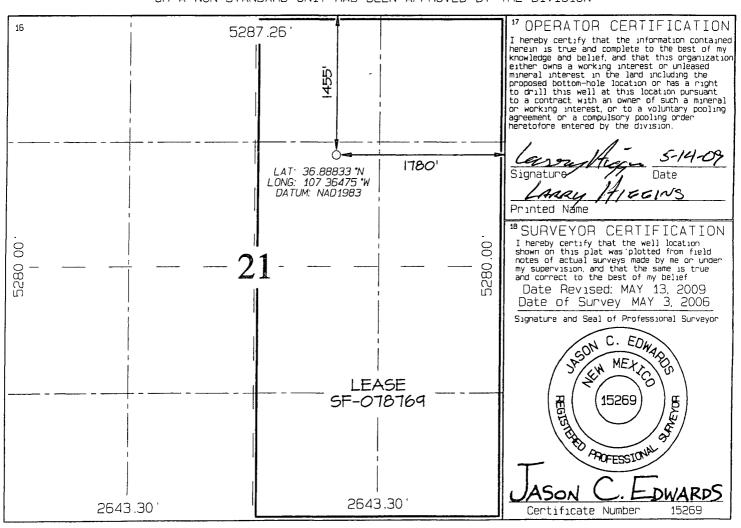
1220 S. St. Francis Dr., Santa Fe, NM B7505

X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API NUI	nber	Pool Code Pool Name						-	
30-039-3	30186	97232	97232 / 72319 / 71599 BASIN MANCOS / BLANCO MESAVERDE / BASIN DAKOTA						
*Property	Code		⁵ Property Name						
1703	3		ROSA UNIT						
'OGRID I	V O.		*Operator Name						Elevation
12078	12		WILLIAMS PRODUCTION COMPANY						6589
. 10 Surface Location									
UL or lot no	Sect ion	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	21	31N	5W		1455	NORTH	1780	EAST	RIO ARRIBA
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
¹² Dedicated Acres 320.0 Acres - (E/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





WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

5/14/2009

FIELD:

Basin DK/Basin MN/BlancoMV

WELL NAME:

Rosa #189

SURFACE:

USFS

BH LOCATION:

SWNE Sec 21-31N-5W

MINERALS:

Federal

ELEVATION:

6,589' GR

Rio Arriba, NM

LEASE#

SF-078769

MEASURED DEPTH: 8,443'

I. I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	MD	Name	MD
Ojo Alamo	2,758	Point Lookout	5,918
Kirtland	2,868	Mancos	6,228
Fruitland	3,238	Gallup	7,228
Pictured Cliffs	3,453	Greenhorn	7,943
Lewis	3,753	Graneros	7,998
Cliff House	5,678	Dakota	8,138
Menefee	5,723	Morrison	8,363
		TD	8,443

- B. MUD LOGGING PROGRAM: Mudlogger on location from intermediate csg to TD. Mud logger to pick TD.
- C. <u>LOGGING PROGRAM:</u> HRI/Temp from surface casing to TD. SDL\DSN\DSEN\TEMP over zones of interest.
- **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. Use Air, Air Hammer and 6-3/4 in. Flat btm. bit to drill-out of 7-5/8 in. csg. and to TD well at +/- 8,443 ft. (MD). If Mesaverde is wet do not attempt to make hole dry, notify engineering and prepare for mud drilling. Run TOTCO Survey at TD.
- 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.

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	40.5	K-55
Intermediate	9 7/8	3,928	7 5/8	26.4	K-55
Longstring	6 3/4	8,443	5 1/2	17	N-80

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> 5-1/2" 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)

520 Ft³

- 1. <u>SURFACE</u>: Slurry: <u>290sx</u> (341-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 1500psi.
- 2. INTERMEDIATE: Lead 525 sx (1430 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.). NO EXCESS PUMP AS WRITTEN SHOULD CIRCULATE TO SURFACE Total volume = 1498 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface Test csg. 1500 psi. 30min Total Volume = 1550 Pt3
- 3. PRODUCTION CASING: 10 bbl Gelled Water spacer. Cement: 325 sx (454 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. NO EXCESS SHOULD COVER 150 FEET INTO 7" CASING Total volume (342) ft³. WOC 12 hours.

454Ft3

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 5-1/2" casing to 6000 psi max, hold at 1500 psi for 30 minutes.

Rosa #189 MVDK Ops Plan

C. STIMULATION

- 1. Stimulate Dakota with approximately 10,000# of LiteProp 108™ 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 117,000# 40/70 white sand and 7500# 100 mesh white sand
- 5. Stimulate Point Lookout with approximately 9300# of 14/30 LiteProp™ in slick water.
- 6. Isolate Point Lookout with a RBP.
- 7. Perforate the Menefec/Cliff House as determined from the open hole logs.
- 8. Stimulate with approximately 9300# of 14/30 LiteProp™ in slick water.
- 9. 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 Point Lookout perforation

Gary Sizemore

Sr. Drilling Engineer