

In Lieu of
Form 3160
(June 1990)

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

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.

SUBMIT IN TRIPPLICATE

RECEIVED

MAY 12 2010

Bureau of Land Management
Fort Worth Field Office

RECEIVED

MAY 27 2010

WPX

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

TYPE OF SUBMISSION	TYPE OF ACTION
☒ Notice of Intent	Abandonment
☐ Subsequent Report	Recompletion
☐ Final Abandonment	Plugging Back
	Casing Repair
	Altering Casing
	☒ Other <u>Name Change, Formation Change</u>
	<u>Spacing Unit change</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 Recombination 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 authorization to: 1) change the name of this well from the Rosa Unit #398A to the Rosa Unit #602; 2) change the formation from the Fruitland Basin Coal to the Blanco Mesaverde, Basin Mancos and Basin Dakota; 3) change the spacing from W/2 to N/2. See attached C-102 and operations plan.

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

RCVD JUN 23 '10
OIL CONS. DIV.

DIST. 3

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 Tony L. Solvers

Title

Petroleum Engineer

Date 5/15/2010

Conditions of approval, if any:

OPERATOR

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.

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 30-039-309W	Pool Code 97232 / 72319 / 71599	Pool Name BASIN MANCOS / BLANCO MESAVERT / BASIN DAKOTA
Property Code 17033	Property Name ROSA UNIT	Well Number 602
GRID No. 120782	Operator Name WILLIAMS PRODUCTION COMPANY	Elevation 7028'

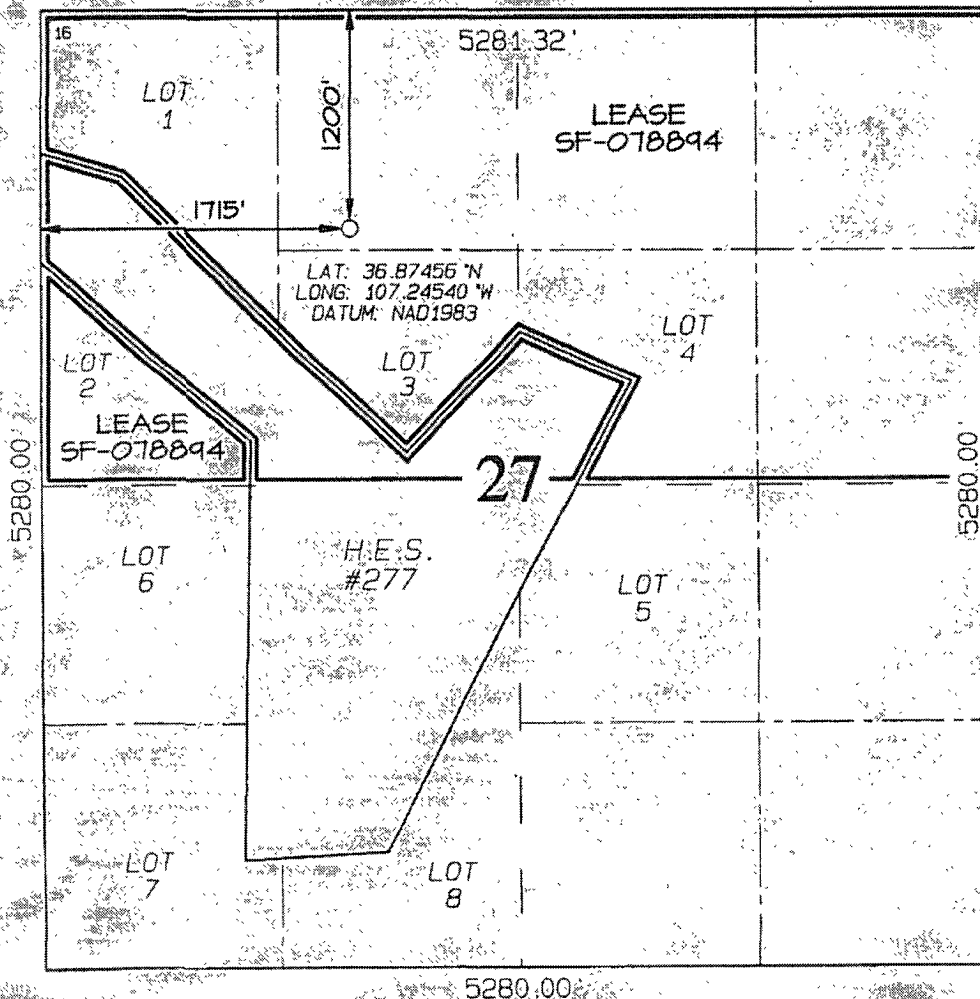
10 Surface Location

UL or lot no. C	Section 27	Township 31N	Range 4W	Lot Idn	Feet from the 1200	North/South line NORTH	Feet from the 1715	East/West line WEST	County RIO ARriba
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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
Dedicated Acres 320.00 Acres - N/2					Joint or Infill	Consolidation Code	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



17 OPERATOR CERTIFICATION

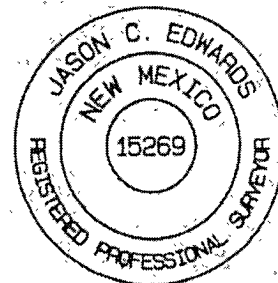
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this 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.

Signature: Larry Higgins Date: 5-24-10
Printed Name: LARRY HIGGINS

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 under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: MAY 19, 2008
Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 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/Blanco/MV
WELL NAME: Rosa Unit #602 **SURFACE:** USFS
BH LOCATION: NENW Sec 27-31N-4W **MINERALS:** Federal
Rio Arriba, NM
ELEVATION: 7,028' GR **LEASE #** SF-078894
MEASURED DEPTH: 8,927'

I. I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	Depth	Name	Depth
Ojo Alamo	3,397	Point Lookout	6,322
Kirtland	3,512	Mancos	6,597
Fruitland	3,597	Gallup	7,667
Pictured Cliffs	3,897	Greenhorn	8,382
Lewis	4,217	Graneros	8,432
Cliff House	6,132	Dakota	8,567
Menefee	6,182	Morrison	8,827
		TD	8,927

- 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. LOGGING PROGRAM:** ACR/GR/CN/WAVE/SDL from surface casing to intermediate casing. ACR/GR/CN/WAVE/SDL from intermediate casing to TD
- D. 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 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 +/- 8,927 ft. (MD).
- 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 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	32.55	K-55
Intermediate	9 7/8	4,372	7 5/8	26.4	K-55
Longstring	6 3/4	8,927	4 1/2	11.6	P-110

B. FLOAT EQUIPMENT:

- SURFACE CASING:** 10-3/4" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
- 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., 2,300 ft., 2,000 ft., 1,500 ft., and 1,000 ft. (NTL-FRA 90-1).
- PRODUCTION LINER / CASING:** 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)

- SURFACE:** Slurry: 290sx (521 cu.ft.) of "Type III" + 2% Cal-Seal 60 + 1/4 # 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.
- INTERMEDIATE:** 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 (117.8 cu.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.
- 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. total volume (853) ft³. WOC 12 hours. Casing will be tested at completion.

IV. IV COMPLETION**A. CBL**

- 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

- 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 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. Production Tubing: 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 Engineer