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Form 3160-5  
(February 2005)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

AUG 05 2010

FORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007Farmington Field Office  
Bureau of Land Management  
Lease Serial No.  
NMSF 078768**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.****SUBMIT IN TRIPLICATE** – Other instructions on page 2.

## 1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other SWD

## 2. Name of Operator

Williams Production Company, LLC

## 3a. Address

PO Box 640 Aztec, NM 87410

## 3b. Phone No (include area code)

505-634-4208

## 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2460' FNL &amp; 2095' FWL, sec 25, T31N, R5W

## 6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No  
Rosa Unit8. Well Name and No.  
Rosa Unit SWD #2

## 9. API Well No.

30-039-30812

10. Field and Pool or Exploratory Area  
Entrada11. Country or Parish, State  
Rio Arriba

## 12 CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

## TYPE OF SUBMISSION

## TYPE OF ACTION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment  
Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other  
Casing Change

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Williams Production requests authorization to change the casing design on this well from the 4 string design permitted to a 3 string design, consisting of 13-3/8", 68#, K-55, ST&C or buttress surface casing set at 500', 9-5/8", 40#, K-55, ST&C intermediate casing set at 3751' and 7", 26#, N-80, LT&C production casing set at 9386', as shown on the attached drawing. This drawing also shows the revised cement procedures.

Due to depth to ground water this well will be drilled with a closed-loop mud system instead of the conventional system with reserve pit as permitted

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

## 14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Larry Higgins

Title Permit Supervisor

RCVD AUG 24 '10  
OIL CONS. DIV.

DIST. 3

Signature

Date 8/5/2010

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

## Approved by

Troy L. Solvers

Title Petroleum Eng.

Date 8/20/2010

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

Office

FFO

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

(Instructions on page 2)

NMOCD

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# Rosa Unit SWD # 2

2460' FNL 2095' FWL

Sec 25 T31N R5W

GL 6,447'

**Surface:** 17-1/2" re-tip tricone bit, water with gel sweeps to **500'** Casing 13-3/8" 68# K-55 ST&C or Buttress Thread @ **500'** Cement 10 bbl FW spacer, Slurry 440 sx (~~436 ft3~~) Premium Plus Type III + 2% Cal-Seal 60 + 1/4 #/sk Poly-E-Flake + 0.3% Versaset + 2% Econolite + 6% Salt (13.5 lb/gal, 1 800 ft3/sk) WOC 12 hours  $V_T = 792 \text{ ft}^3$

**Intermediate:** 12-1/4" TCI bit, LSLD/EZ-MUD fluid system to **3,751'** Casing 9-5/8" 40# K-55 ST&C @ **3,751'** Cement 20 bbl FW spacer, Lead - 770 sx (2102 cu ft) of "EXTENDACEM" + 5 #/sk pheno-seal + 5% Cal-Seal 60 + 0.5% D-AIR 3000 (Yield = 2.73 cu ft/sk, Weight = 11.5 #/gal) Tail - 100 sx (118 cu ft) of Premium cement + 0.125 #/sk Poly-E-Flake, (Yield = 1.18 cu ft/sk, Weight = 15.6 #/gal) Total volume = 2220 cu ft

**Production:** 8-3/4" AIR / LSLD/EZ-MUD fluid system to **9,386'** Casing 7" 26# N-80 LT&C @ **9,386'** Cement 10 bbl Gelled Water spacer Lead - 455 sx (974 ft3) "FracSeal" + 0.2% Versaset + 0.15% Halad-766 + 3% Foamer 760 w/ 48013 scf Nitrogen (Yield = 2.14 ft3/sk, Weight = 9.2 #/gal) Tail Cement 140 sx (196 ft3) of "FRACCEM" + 0.8% Halad-9 + 0.1% CFR-3 + 5 #/sk Gilsonite + 0.125 #/sk Poly-E-Flake + 0.1% HR-5 + 0.3% D-AIR 3000 (Yield = 1.40 ft3/sk, Weight = 13.1 #/gal) Displace cement at a minimum of 8 BPM Total volume = 1170 ft3

<u>Formation</u>	<u>Depth</u>
San Jose Fm	Surface
Nacimiento Fm	1381
Ojo Alamo Ss	2651
Kirtland Sh	2781
Fruitland Fm	3096
Pictured Cliffs Ss	3276
Lewis Sh	3596
Cliff House Ss Trans	5211
Cliff House Ss	5511
Menefee Fm	5556
Point Lookout Ss	5731
Mancos Sh	6021
Gallup Ss	7086
Greenhorn Ls	7806
Graneros Sh	7856
Dakota Ss	8001
Morrison Fm	8251
Bluff Ss	8751
Summerville Fm	8921
Todilto Ls	8996
Entrada Ss	9036
Chinle Fm	9311
<u>Total Depth</u>	<u>9386</u>

3 1/2" 9 3/8" N 80 Tbg  
Cplng OD 4.5 4.18 in

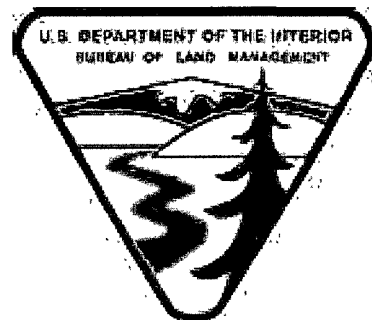
PACKER

TD 9,386 FT

## ***DRILLING CONDITIONS OF APPROVAL***

**Operator:** Williams Production Company  
**Lease No.:** NMSF-078768  
**Well Name:** Rosa Unit SWD #2  
**Well Location:** Sec.25, T31N, R5W; 2460' FNL & 2095' FWL

- 1)** Run a minimum of 3 centralizers on the surface casing.
- 2)** Pressure test the surface casing to a minimum of 600 psi for 30 minutes, no more than a 10% bleed off is allowed.
- 3)** Pressure test each string below the surface casing to a minimum of 1500 psi or .22psi/ft whichever is greater, for 30 minutes. No more than a 10% bleed off is allowed.
- 4)** Minimum TOC behind the production string will be 100 ft inside the intermediate casing. Submit the CBL results to this office.



After hour contact: Troy Salyers 505-360-9815