

In Lieu of  
Form 3160  
(June 1990)

UNITED STATES  
DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 27 2008

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  
TO DRILL" for permit for such proposals

Bureau of Land Management  
Farmington Field Office  
Use "APPLICATION

Lease Designation and Serial No.  
NMSF-078763

6 If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

1. Type of Well  
Oil Well Gas Well ☒ Other

8. Well Name and No.  
359A

2. Name of Operator  
WILLIAMS PRODUCTION COMPANY, LLC

9. API Well No.  
30-039-29939

3. Address and Telephone No  
PO BOX 640, AZTEC, NM 87410 (505) 634-4200

10 Field and Pool, or Exploratory Area  
Basin Fruitland Coal

4. Location of Well (Footage, Sec , T , R., M., or Survey Description)  
465' FSL & 360' FWL SEC 3, T31N, R5W SHL  
900' FSL & 760' FEL SEC 4, T31N, R5W BHL

11 County or Parish, State  
Rio Arriba, NM

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

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent  
  
Subsequent Report  
  
Final Abandonment

Abandonment  
Recompletion  
Plugging Back  
Casing Repair  
Altering Casing  
☒ Other - Tubing/Cavitation

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 Recompletion 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 completed this well as an open hole completion. We now intend to move a work over rig on location and run tubing. As soon as a cavitation rig is available we will move back on location to cavitate and run production liner. Please see attached procedure.

- Please provide "as built" directional survey.

RCVD AUG 29 '08  
OIL CONS. DIV.  
DIST. 3

CONDITIONS OF APPROVAL  
Adhere to previously issued stipulations.

14 I hereby certify that the foregoing is true and correct

Signed Larry Higgins  
Larry Higgins

Title Drilling COM

Date August 27, 2008

(This space for Federal or State office use)

Approved by [Signature]

Title Refr. Eng.

Date 8/28/08

Conditions of approval, if any

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.

NMOCD



Exploration & Production  
**Cavitation Procedure**

<b><u>Well Name:</u></b>	Rosa Unit #359A	<b><u>DATE:</u></b>	8/27/2008
<b><u>Location Surface:</u></b>	465 FSL, 360' FWL Sec 3-- T31N -- R05W Rio Arriba County, NM	<b><u>Field:</u></b>	Basin Fruitland Coal
<b><u>Location Btm Hole:</u></b>	939' FSL, 843' FEL Sec 4-- T31N -- R05W Rio Arriba County, NM	<b><u>API Number:</u></b>	30-039-29939
<b><u>Elevation:</u></b>	6548' GR	<b><u>Surface:</u></b>	USFS
<b><u>Driller KB:</u></b>	14.5' AGL	<b><u>Minerals:</u></b>	Fed/NMSF-078763
<b><u>Driller TD:</u></b>	3490'	<b><u>AFE Number:</u></b>	WT 6973
<b><u>Drill Rig/Cnsltn:</u></b>	AWS #781/Cockrell&Arnold	<b><u>Amount:</u></b>	\$1,167,043
<b><u>Drill Spud/Fin:</u></b>	7/20/08-7/30/08	<b><u>DO&amp;URT:</u></b>	\$553,642
<b><u>DO&amp;UR Rig/Cnsltn:</u></b>	AWS #204/Higgins	<b><u>OGRE ID:</u></b>	\$133,626
<b><u>DO&amp;UR St/Fin:</u></b>	8/16/08-8/24/08	<b><u>Oracle ID:</u></b>	4342
<b><u>DO &amp;UR TD:</u></b>	3725'	<b><u>METER NO:</u></b>	62170465
<b><u>1<sup>st</sup> Delivered:</u></b>	8/25/08	<b><u>Prod Team Lead:</u></b>	83067
<b><u>Evaluation Logs:</u></b>	Mud Log	<b><u>Prod Tech:</u></b>	Mark Lepich
		<b><u>Inv Rtg Code:</u></b>	Dustin McElreath
			NXEKK334711

**Casing Record:**

TYPE	SIZE	WT	GRADE	THRD	SET AT	OH SIZE	TOC
Surface	9 5/8	36	K-55	LT&C	335	12 1/4	surface
Intermediate	7	23	K-55	LT&C	3,482	8 3/4	surface
Liner	None						
Prod Tubing	None						

**Formation Tops:**

Ojo Alamo	N/A	Fruitland	N/A
Kirtland	N/A	Picture Cliffs	N/A
		TD	3,725

## **Rosa Unit #359A Well Cavitation Procedure**

**WORK OBJECTIVE:** Install production tubing immediately then return later and cavitate and install Beam Pumping Unit System.

**Current Status:** The well was drilled out, under reamed and put on production without cavitation being done. Production tubing was not run because it was planned to move in a cavitation rig immediately after first delivering the well. It was decided to move the cav rig to a different well and return to this one at a later date. Since that date is uncertain and the well is capable of producing, production tubing will be run immediately and cavitation will be performed later.

**Pre-Job Planning:** Notify BLM 24 hrs prior to moving in. Contact Mark Lepich, CBM team lead to discuss job scope and logistics. Confirm all surface facilities are secure prior to MIRU. Review liner and tubular requirements with John Keating.

**Safety Reminders:** Safe operations are very important at all Williams Production Company properties and facilities. To further this goal, the wellsite supervisor or rig tool pusher at the location shall request tailgate safety meetings prior to initiation of work and also prior to any critical operations. All company, contract, and service personnel present at the location shall attend these tailgate safety meetings. All parties shall review proposed upcoming steps, procedures, and potentially hazardous situations. Occurrence of these meetings shall be recorded in the Daily Report.

Hold daily safety meetings to discuss job scope and emergency response plans. If the procedure changes or critical tasks are involved revisit safety concerns before continuing work.

Smoking is not allowed except in areas designated by the wellsite supervisor or rig toolpusher. Hard hats and steel toed shoes will be worn on location. Personnel arriving on location shall check in with the wellsite supervisor or rig toolpusher.

**EH&S Reminders:** Fill out daily pit inspection report and email with Daily Completion Well Report.

**Pre-Job Planning and Notes:** Notify Mark Lepich, Team Leader a minimum of 48 hours prior to commencing any work and after job is completed.

Lock-out and tag-out surface facilities per Williams E&P Safety Policy and Procedures.

Ensure that rectifier for cathodic protection is turned off before any work is performed. Notify cathodic protection personnel after job is complete so cathodic protection can be re-activated.

Notify BLM 24 hours prior to moving in. Check rig anchors prior to moving on location. Confirm that the reserve pit is ready.

## **Rosa Unit #359A Well Cavitation Procedure**

### **Tubing installation procedure**

1. MIRU service unit and air package.
2. Kill well as necessary.
3. ND wellhead and NU BOP.
4. PU ½ Mule Shoe, pump-out check, and F Nipple (run F nipple one joint up), and 2 7/8" 6.5# J-55 EUE tubing and run in hole. Set Mule shoe near bottom of 7" casing at 3482'.
5. Land tubing, ND BOP, and NU Wellhead.
6. Rig down service unit and return to production.

### **Cavitation Procedure**

7. MIRU service unit and air package.
8. Kill well as necessary.
9. ND wellhead and NU BOP, HCR Valve ("Cav" package) and choke manifolds. Perform BOP test as per SOP (function test pipe ram and blind ram).
10. TOOH w/ 2 7/8 tubing.
11. PU 6-1/4" bit on 2-7/8" DP and DCs and TIH. Clean out to original TD.
12. PUH into 7" and start natural/pressure buildup surges as the well dictates. Repeat process and discuss with engineer for specific process going forward.
13. Conduct flow rate test at regular intervals and just prior to running liner. Record in daily report.
14. PU 5-1/2" liner on 2-7/8" DP. RIH with liner and LA set shoe, rotate down if necessary. Land at TD with ~100' of overlap in 7" csg. TOOH w/ DP and LD.
15. MIRU perforating crew. Hold safety meeting. Perforate 4 spf over intervals specified by Engineer. Use Hollow Steel Carrier with 11 gram charge for a .53 hole.
16. Run production tubing, pump and rods according to procedure to be provided by production engineer.
17. RDMO. Notify CBM team.