In Lieu of
Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1.	Type of Well ☐ Oil Well ■ *Gas Well* ☐ Other	5.	Lease Designation and Serial No. SF-078766
		6.	If Indian, Allottee or Tribe Name
		7.	If Unit or CA, Agreement Designation ROSA UNIT
2.	Name of Operator WILLIAMS PRODUCTION COMPANY	8.	Well Name and No. ROSA UNIT #115
		9.	API Well No. 30-039-23483
3.	Address and Telephone No. PO BOX 3102 MS 37-4, TULSA, OK 74101 (918) 588-4592	10.	Field and Pool, or Exploratory Area BASIN DK / ~~UNDES~~ GALLUP
4.	Location of Well (Footage, Sec., T., R., M., or Survey Description) 1510' FNL & 1050' FEL, SE/4 NE/4 SEC 22~~8~~-31N-6W	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*	☐ Abandonment ☐ Recompletion ☐ Plugging Back ☐ Casing Repair ☐ Altering Casing ■ *Other REFRAC UPPER DAKOTA*	☐ 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.)
☐ Subsequent Report		
☐ Final Abandonment		

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 proposes to refrac the upper Dakota formation as per the attached procedure.

RECEIVED
BLM
97 MAR -3 PM 3:00
070 FARMINGTON, NM

RECEIVED
MAR - 7 1997
OIL CON. DIV.
DIST. 3

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

Signed Susan Grigsby SUSAN GRIGUHN Title CLERK Date February 21, 1997

(This space for Federal or State office use)

Approved by /S/ Duane W. Spencer Title _____ Date MAR - 5 1997

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.

*See Instruction on Reverse Side

NMOCD

4-25-96

WILLIAMS PRODUCTION COMPANY
REPAIR/RECOMPLETION PROGNOSIS
ROSA 115

Purpose: Attempt to return this well to production by (1) isolating the lower Dakota perfs to eliminate water (2) acidizing the upper perfs if scale is present and (3) by refracturing the upper Dakota.

1. Check rig anchors and repair as necessary.
   Spot and fill 3 - 400 bbl tanks with 1% KCl water. Filter water if necessary. Filter water to 25 microns.

2. Set flow back tank and dig small pit if needed.

3. MIRUSU. Nipple up BOP, blooie line, working valves and relief line. Test BOP.

4. Release packer. RIH and check for fill. TOH with 2-3/8" tubing. Visually inspect tubing and replace any bad joints. Check for scale buildup on tubing. If it's on the tubing , it's on the perfs.

5. TIH w/ tubing and tapered mill. Clean out to PBTD with gas. TOH.

6. On wireline set CIBP at 7870'.

7. TIH with tubing to ±7860'. May need a packer because of Gallup. Swab well and evaluate. If it produces dry gas, gauge with pitot tube.
   SI overnight for buildup. If satisfactory, land tubing and release rig.

8. If it's dry and no gas spot acid across A & B zones. Set packer and pump acid to perfs. S.I. Swab back, gauge and evaluate. If well is flowing strong land tubing and release rig.

9. If it's still wet, set another CIBP at 7800' and again swab.
   If it's still wet then the entire Dakota is communicated behind pipe. It's time to abandon the Dakota. Notify BLM.
   Set a cement retainer at 7700' and squeeze with Class "G" cement.

10. If the upper Dakota is dry and there's no gas flow spot 150 gals 15% HCl acid across the upper Dakota A perfs. Acid to contain 5 GPT of Iron Control, 3 GPT of Corrosion Inhibitor, 2 GPT of surfactant.

11. S.I. overnight. Blow down next day. TIH to Dakota perfs and swab. May need a packer. Evaluate. If well is making a large volume of gas, gauge it, land pipe and rig down.

12. If the Dakota is still dry with no gas prepare to fracture stimulate. Order out work string of 2-7/8" Buttress thread tubing and handling equipment.

13. TIH with 4-1/2" Packer on rental string of 2-7/8" Buttress thread tubing. Set at 7670'. Cannot pressure test casing or load backside because of Gallup completion..

14. Rig up pump trucks and fracture stimulate the Upper Dakota with 50,000# Ottowa sand using BJ Spectra Frac gelled water. Initial injection rate of 15-20 BPM rate down casing as follows.

STAGE	FLUID (gals)	SLURRY VOLUME (gals)	SAND (lbs)
Pad	5,000 gals	5,000 gals	-
1.0 ppg	5,000 gals	5,208 gals	5,000#
2.0 ppg	5,000 gals	5,460 gals	10,000#
3.0 ppg	5,000 gals	5,670 gals	15,000#
4.0 ppg	5,000 gals	5,922 gals	20,000#
Flush	(2,890 gals)	2,890 gals	-
	27,890 gals	30,156 gals	50,000 #

Maximum injection rate = 20 BPM or greater at maximum STP =6000 psi.
SI well and record ISDP and 15 minute shut in pressure if not on vacuum.

15. Release packer and TOH. TIH with bit on 2-3/8" tubing and clean out to PBTD. Obtain pitot gauge when possible.

16. TIH w/ 2-3/8", 4.7#, J-55, 8rd, EUE tubing w/ notched collar on bottom and SN 1 joint up. Packer at 7240'. Land close to bottom perf. Pump out plug if used. Obtain pitot tube gauge.

17. ND BOP and NU wellhead. Shut well in for buildup.

18. Clean up location and release rig.

Sterg Kafirgis
Senior Engineer

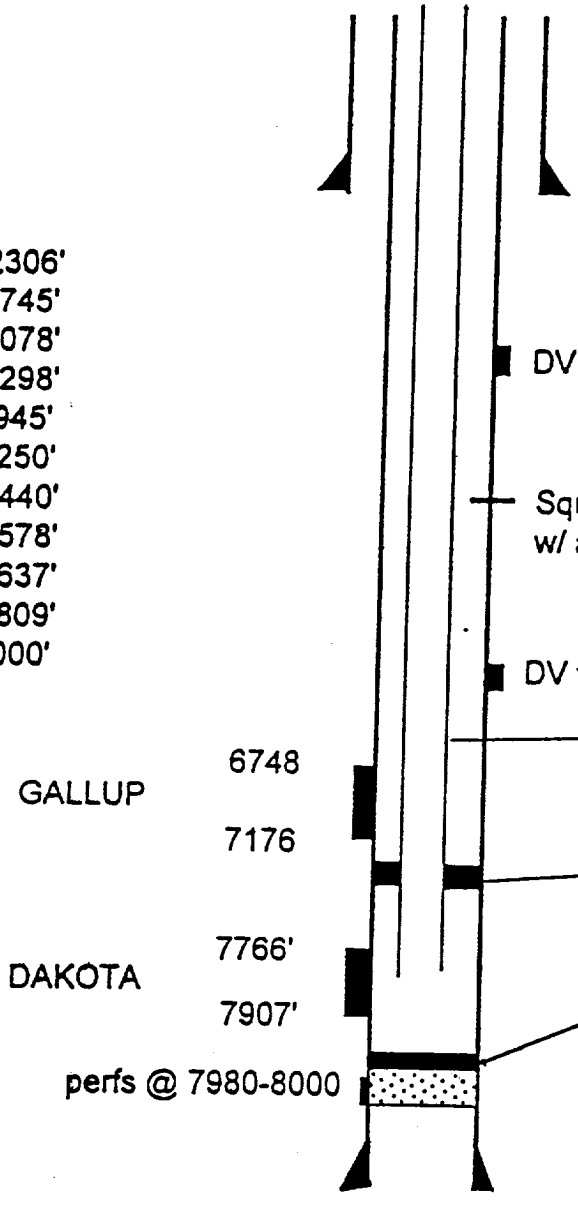
WELLBORE DIAGRAM
ROSA #115

1510' FNL 1050' FEL
22-31N-6W
Rio Arriba Co, NM

Elevation: 6253' GL
KB 13'

TOPS

Ojo Alamo	2306'
Fruitland	2745'
Pictured Cliffs	3078'
Lewis	3298'
Cliff House	4945'
Menefee	5250'
Pt Lookout	5440'
Greenhorn	7578'
Graneros	7637'
Dakota	7809'
Morrison	8000'



13-3/8", 48.0#, H-40 @ 374'
Cmt w/ 413 cf. TOC @ surface
Hole size 17 1/2"

DV tool @ 3508'

Squeezed casing Split @ (4185'-4245')
w/ a total of 1118 cf of cmt

DV tool @ 5622'

242 jts, 2 3/8", 4.7#, J-55 8 rd
EUE @ 7912'

6748
GALLUP
7176

Packer set @ 7240'
Baker Model R-3 Double Grip

7766'
DAKOTA
7907'

Cmt Retainer set at 7968'. Sq w/ 95 ft
Class "H" cmt.

perfs @ 7980-8000

4 1/2" 11.6# N-80 @ 8109'
Cmt 2 stages, 1st w/1317 cf,
2nd w/1202 cf TOC surface
Hole size 7 7/8"

PBTD 8060'

DFS 3-5-96

PERTINENT DATA SHEET

WELLNAME: Rosa #115 FIELD: Basin Dakota

LOCATION: 1510'FNL, 1050'FEL,Sec 22,T31N,R6W ELEVATION: 6253 GL TD: 8109'
KB: 13' PBTD: 8060'

COUNTY: Rio Arriba STATE: New Mexcio

DATE COMPLETED: 10/26/84

CASING TYPE	CASING SIZE	HOLE SIZE	WEIGHT & GRADE	DEPTH	CEMENT	TOP
Surface	13-3/8"	17-1/2"	48.0#, H-40	374'	413cf	surface
Production Casing	4-1/2"	7-7/8"	11.6#, N-80	8109'	2 stage DV tool @ 5622' and 3508' (1st 1317cf, 2nd 1202 cf)	surface

TUBING EQUIPMENT DK: 242 jts 2-3/8", 4.7#, J-55, 8 rd EUE. Landed @ 7912'. Packer set @ 7240'. Baker Model R-3 Double Grip packer.

WELLHEAD: Casing Head -NA Tubing Head - NA
Casing Spool -NA

FORMATION TOPS:

Ojo Alamo	2306'	Menefee	5250'
Kirtland	na	Point Lookout	5440'
Fruitland	2745'	Greenhorn	7578'
Pictured Cliffs	3078'	Graneros	7637'
Lewis	3298	Dakota	7809'
Cliff House	4945'	Morrison	8000'

LOGGING RECORD: Gearhart Comp Density - Neutron, Dual Induction Laterolog.

PERFORATIONS: DK: (2spf) 0.38" holes ,8000'-7980' (squeezed off)
(4spf) 0.38" holes, 7907'-7899', 7888'-7878', 7862'-7845', 7840'-7833', 7830'-7810'.
(4spf) 0.50" holes, 7792'-7766'.
GL: (1 spf) 0.50" holes 7176'-7152', 7136'-7097', 7083'-6957', 6934'-6748'.

STIMULATION: DK: 1st stage frac; 7810'-7907' , 174,000# 20/40 w/ 60# delayed x-link.
2nd stage frac: 7766'-7792', 28,000# 20/40.
GL: 1st stage frac: 6957'-7176', 92,500# 20/40 w/ 50# gel
2nd stage frac: 6748'-6934', 92,500# 20/40 w/ 50# gel

PRODUCTION HISTORY: DK: IP Test: CAOF= 1,770 MCFD. Cumulative = 58 MMCF, avg = 0 MCFD.
GL: IP Test CAOF = 3,060 MCFD. Cumulative = 86 MMCF. Avg = 15 MCFD.

WORK OVER HISTORY: (8/226/84) Squeezed possible csg split @ 4185'-4245' 4 different times w/ 1118 cf.

DFS 3/5/96