

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

1000 BRAZOS RD.
AZTEC, NM 87410

Form C-103

Revised 1-1-89

Submit 3 copies to
Appropriate District Office

DISTRICT 1
P O Box 1980, Hobbs, NM 88240
DISTRICT 2
P O Drawer DD, Artesia, NM 88210
DISTRICT 3
1000 Rio Brazos Rd., Aztec, NM 87410

WELL API NO.	30-039-24361
5. Indicate Type of Lease	STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.	E-289-41

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)		7. Lease Name or Unit Agreement Name ROSA UNIT	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		8. Well No. 239	
2. Name of Operator WILLIAMS PRODUCTION COMPANY		9. Pool Name or Wildcat BASIN FRUITLAND COAL	
3. Address of Operator P O BOX 3102, TULSA, OK 74101			
4. Well Location Unit Letter <u>N</u> : <u>835</u> Feet From The <u>SOUTH</u> Line and <u>2510</u> Feet From The <u>WEST</u> Line Section <u>2</u> Township <u>31N</u> Range <u>6W</u> NMPM <u>RIO ARRIBA</u> COUNTY			
		10. Elevation (Show whether DF, RKB, RT, GR, etc.) 6346' GR	
CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPINIONS <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <u>Fracture Stimulate Perforation</u> <input checked="" type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>
12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. Williams Production Company plans to fracture stimulate this Fruitland Coal well as per the attached procedure. The well was originally perforated without stimulation. <div style="text-align: right;">RECEIVED FEB - 2 1998 OIL CON. DIV. DIST. 3</div>			
I hereby certify that the information above is true and complete to the best of my knowledge and belief.			
SIGNATURE <u>Susan Griguhn</u>		TITLE <u>CLERK</u>	DATE <u>January 28, 1998</u>
TYPE OR PRINT NAME <u>SUSAN GRIGUHN</u>		TELEPHONE NO. <u>(918) 561-6254</u>	
(This space for State Use) APPROVED BY <u>Johnny Robinson</u> CONDITIONS OF APPROVAL, IF ANY: <u>Final Extension 331-98</u>		DEPUTY OIL & GAS INSPECTOR, DIST. #2 TITLE _____ DATE <u>FEB - 2 1998</u>	

1/27/98

WILLIAMS PRODUCTION COMPANY
COMPLETION PROGNOSIS
ROSA 239

Purpose: To complete the Fruitland Coal zone.

1. Notify BLM 24 hours prior to moving in.
Check rig anchors and repair as necessary.
Spot and fill 2- 400 bbl tanks with 1% fresh KCl water. Do not filter water unless necessary. Filter water to 25 microns if necessary. One tank will be gelled.
Set flow back tank and dig pit if needed. **Fence and line any pits dug.**
2. MIRUSU. Nipple up BOP, blooie line, working valves and 2" relief line. Test BOP.
3. TIH w/ tubing and 3-7/8" bit and clean out to PBTB @ 3146'. TOH.
4. TIH with 4-1/2" Packer on tubing. Set at 2800' and pressure test entire casing to 3300 psi and hold for 15 minutes. TOH.
5. Breakdown and balloff with acid was done 10/23/97.
CBL-CCL ran 1991 prior to perforating. OK
Confirm perfed intervals?
6. Rig up pump trucks and fracture stimulate the Fruitland Coal with 80,000# 20/40 Arizona sand using a 70 quality foam (TRANSFOAM). Initial injection rate of 40 BPM rate down casing as follows.
CONFIRM ALL VOLUMES ON LOCATION

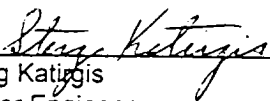
<u>STAGE</u>	<u>FLUID (gals)</u>	<u>DOWNHOLE FOAM (gals)</u>	<u>SAND (lbs)</u>
Pad	3,000 gals	10,000 gals	-
1.0 ppg	3,000 gals	10,000 gals	10,000#
1.5 ppg	3,000 gals	10,000 gals	15,000#
2.0 ppg	3,000 gals	10,000 gals	25,000#
3.0 ppg	3,000 gals	10,000 gals	30,000#
Flush	(4,966 gals)	-	
	19,966 gals	50,000 gals	80,000 #

Maximum injection rate = 40 BPM or greater at maximum STP =3300 psi.
All frac fluid to contain 20 PPT of Guar Gel, 1 PPT of Breaker, 5 GPT Foaming Agent
SI well in for minimum of 3 hours to allow gel to break. Record ISDP and 15 minute shut in pressure if not on vacuum.

Flow back initially through 1/4" choke. Then gradually open as pressure drops.

7. TIH with bit on tubing and clean out to PBTB @ 3146'. Obtain pitot gauge when possible.

8. When clean, TIH w/ 2-3/8", 4.7#, J-55, 8rd, EUE tubing w/ notched collar on bottom and SN 1 joint up. Land tubing at 3083'. Pump out plug if used and reverse circulate clean. Obtain pitot tube gauge.
9. ND BOP and NU wellhead. Shut well in for buildup.
10. Cleanup location and release rig.



Sterg Katigis
Senior Engineer

PERTINENT DATA SHEET

WELLNAME: Rosa #239

FIELD: Basin Fruitland Coal

LOCATION: 835'FSL, 2510'FWL, Sec 2, T31N, R6W

ELEVATION: 62300 GL TD: 3189'
KB: 12' PBTD: 3146'

COUNTY: Rio Arriba

STATE: New Mexico

DATE COMPLETED: 5/29/91

CASING TYPE	CASING SIZE	HOLE SIZE	WEIGHT & GRADE	DEPTH	CEMENT	TOP
Surface	9-5/8"	12-1/4"	36.00#, K-55	522'	400 sx	surface
Intermediate Casing	7"	8-3/4"	20#, K-55	3030'	640 sx	surface
Production Liner	4-1/2"	6-1/4"	10.5#, K-55	2844'-3189'	55 sx	2844'

TUBING EQUIPMENT 98 jts, 2-3/8", 4.7#, J-55, 8 rd, landed @ 3083'. SN one jt off bottom. 10/97

WELLHEAD: Casing Head: 9-5/8" X 11" 3000#

Tubing Head 7-1/16" 3000#

FORMATION TOPS:

Ojo Alamo	2400'
Kirtland	2495'
Fruitland	2930'

LOGGING RECORD: GR-CDL-CNL-Hi RES COAL LOG

PERFORATIONS: 3044'-3053', 3075'-3078', 3081'-3090 92 - 0.38" holes, 4 JS PF

STIMULATION: initially circulated and ran sweeps for 2 days. Then ran liner and cemented.

WORK OVER HISTORY 10/23/97 Broke down and balloff perfs with acid.

SGK 1/26/98

ROSA UNIT #239

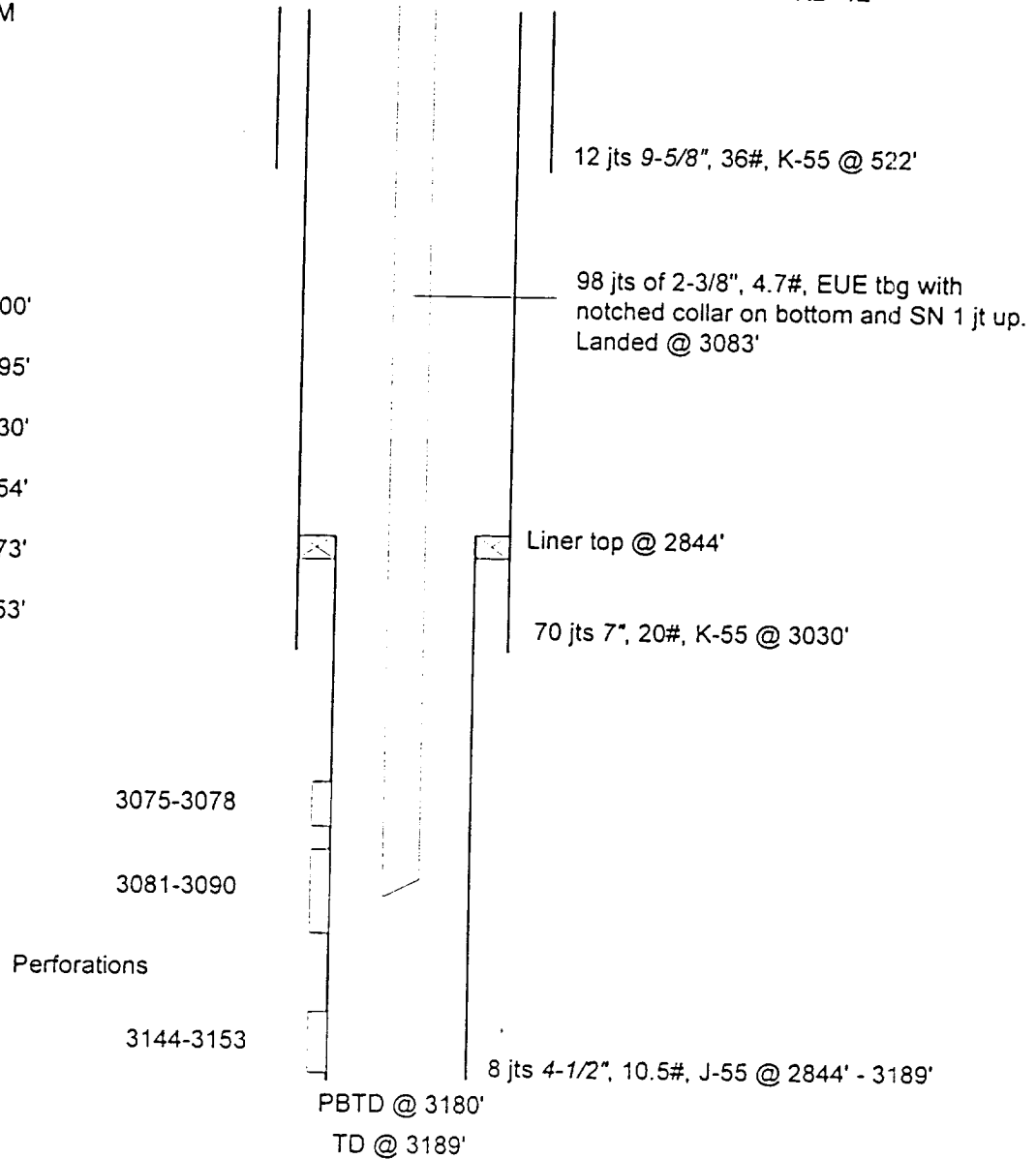
BASIN FRUITLAND COAL

835' FSL 2510' FWL
SE/4 SW/4 SEC 2N T31N R6W
Ria Arriba Co, NM

Elevation: 6230' GR
KB 12'

Drilled in 1990

Ojo Alamo 2400'
Kirtland 2495'
Fruitland 2930'
Pictured Cliffs 3154'
Top of Coal 3073'
Bottom of Coal 3153'



HOLE SIZE	CASING	CEMENT	TOP OF CMT
12-1/4"	9-5/8" 36#	400 sx	SURFACE
8-3/4"	7" 20#	640 sx	SURFACE
6-1/4"	5-1/2" 15.5#	55 sx	2844'