

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other
instructions on
reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER _____				7. UNIT AGREEMENT NAME ROSA UNIT (008480)	
b. TYPE OF COMPLETION: NEW WELL ☒ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF.RESVR. ☐ OTHER _____				8. FARM OR LEASE NAME, WELL NO. ROSA UNIT #140	
2. NAME OF OPERATOR NORTHWEST PIPELINE CORPORATION				9. API WELL NO. 30-039-25435	
3. ADDRESS AND TELEPHONE NO. P.O. BOX 58900 MS 2M3 SALT LAKE CITY, UTAH 84158-0900 (801) 584-6981				10. FIELD AND POOL, OR WILDCAT ROSA PICTURED CLIFFS 96175	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements). 1861' FSL & 1705' FWL At Surface At top production interval reported below At total depth				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SE/4 SW/4 SEC. 22, T31N R6W	
14. PERMIT NO.		DATE ISSUED		12. COUNTY OR PARISH RIO ARRIBA	
13. STATE NEW MEXICO		15. DATE SPUDDED 07/11/94		16. DATE T.D. REACHED 07/17/94	
17. DATE COMPLETED (READY TO PRODUCE) 08/06/94		18. ELEVATIONS (DK, RKB, RT, GR, ETC.)* 6246' GR		19. ELEVATION CASINGHEAD 6246'	
20. TOTAL DEPTH, MD & TVD 3555'		21. PLUG, BACK T.D., MD & TVD 3504'		22. IF MULTICOMP., HOW MANY PC/MV	
23. INTERVALS DRILLED BY ----->		ROTARY TOOLS X		CABLE TOOLS	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* PICTURED CLIFFS 3109' TO 3171'				25. WAS DIRECTIONAL SURVEY MADE YES	
26. TYPE ELECTRIC AND OTHER LOGS RUN CASED HOLE: GR/CCL/CBL OPEN HOLE: IND/GR/CDL/CNL				27. WAS WELL CORED NO	

28. CASING REPORT (Report all strings set in well)							
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD			AMOUNT PULLED
8-5/8" K-55	24#	226'	12-1/4"	140 SX	167 cu.ft.	SURFACE	
4-1/2" K-55	10.5#	3526'	6-3/4"	520 SX	981 cu.ft.	SURFACE	
29. LINER RECORD							
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					1-1/2" 2.9#	3153'	N/A
31. PERFORMANCE RECORD (Interval, size, and number) PICTURED CLIFFS - 3109' TO 3123', 3132' TO 3171'. TOTAL 55 .36" DIA HOLES				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
3109'				3123'			
				102,400# 20/40 SAND			
				13,692 GALS 30# X-LINK IN 70 QUALITY FOAM			

33. PRODUCTION							
DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) FLOWING				WELL STATUS (PRODUCING OR SHUT IN) SHUT IN	
DATE OF TEST 08/27/94	HOURS TESTED 3	CHOKE SIZE 3/4"	PROD'N FOR TEST PERIOD----->	OIL - BBL. 0	GAS - MCF 150	WATER - BBL. 0	GAS-OIL RATIO N/A
FLOW TUBING PRESS 89#	CASING PRESSURE 723#	CALCULATED 24-HOUR RATE----->		OIL - BBL. 0	GAS - MCF 1200	WATER - BBL. N/A	OIL GRAVITY- API (CORR.)
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD						TEST WITNESSED BY CHIK CHARLEY	

35. LIST OF ATTACHMENTS: LOGS, SUMMARY OF POROUS ZONES, DEVIATION REPORT & WELLBORE DIAGRAM.	
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records SIGNED <u>KATHY BARNEY</u> SR. OFFICE ASSISTANT DATE <u>August 29, 1994</u>	

*(See Instructions and Spaces for Additional Data on Reverse Side)

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.

FARMINGTON DISTRICT OFFICE

37. SUMMARY OF POROUS ZONES: (show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
<u>NACIMIENTO</u>							
0JO ALAMO	2287'	2399'					
KIRTLAND	2399'	2838'					
FRUITLAND	2838'	3110'					
PICTURED CLIFFS	3110'	3419'					
LEWIS	3419'	N/A					
TD							

WELLBORE DIAGRAM

ROSA UNIT #140 PC

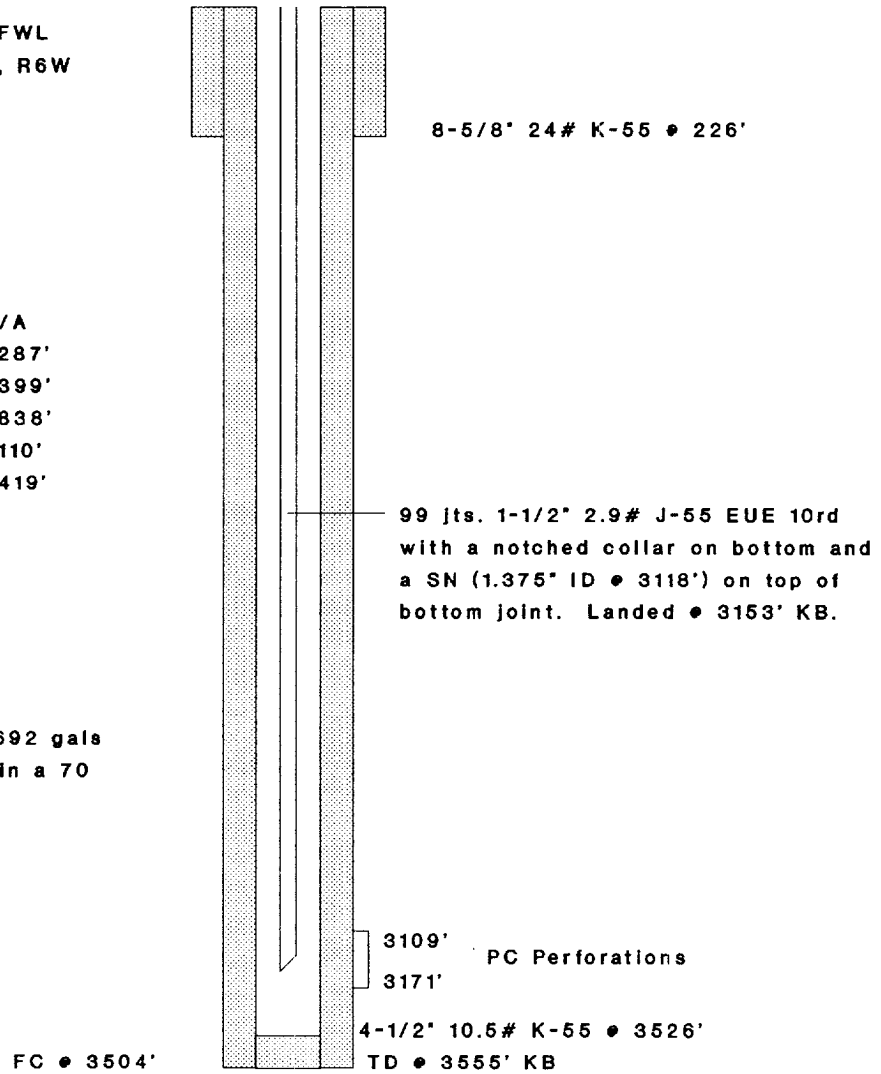
LOCATION: 1861'FSL, 1705'FWL
NE/4 SW/4 SEC. 22, T31N, R6W
RIO ARRIBA CO., NM
ELEVATION: 6246' GR
KB = 12'

TOPS:

NACIMIENTO	N/A
OJO ALAMO	2287'
KIRTLAND	2399'
FRUITLAND	2838'
PICTURED CLIFFS	3110'
LEWIS	3419'

STIMULATION:

3109' to 3171':
102,400# 20/40 sand, 13,692 gals
of 30# Borate X-Link gel in a 70
quality foam.

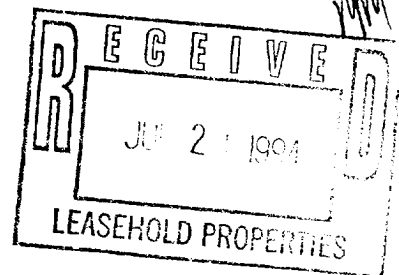


HOLE SIZE	CASING	CEMENT	VOLUME	TOP OF CMT
12-1/4"	8-5/8" 24#	140 SX	167 CU.FT.	SURFACE
6-3/4"	4-1/2" 10.5#	520 SX	981 CU.FT.	SURFACE

FOUR CORNERS DRILLING CO.

P. O. BOX 1067
5651 U.S. HWY. 64
FARMINGTON, NEW MEXICO 87499

TELEPHONE: (505) 326-3371
FAX: (505) 326-3370



July 18, 1994

Williams Production Company
Mr. Mark McAllister
295 Chipeta Way
Salt Lake City, UT 84108

RE: Deviation report on the Rosa Unit 140,
Section 22, Township 31 N, Range 6 W
Rio Arriba County, New Mexico

Gentlemen:

Below is the deviation report for your Rosa Unit 140 Well.

120'	$\frac{1}{4}^{\circ}$
225'	$\frac{1}{2}^{\circ}$
485'	1°
724'	$\frac{1}{2}^{\circ}$
1225'	$\frac{3}{4}^{\circ}$
1724'	$\frac{1}{4}^{\circ}$
2223'	1°
2728'	$\frac{3}{4}^{\circ}$
3228'	1°

Sincerely,

FOUR CORNERS DRILLING COMPANY

A handwritten signature in cursive script, appearing to read "Gary Miller".

Gary Miller
Drilling Superintendent

GM/tdd

July 18, 1994
Rosa Unit 140
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Acknowledgement

State of New Mexico)
) s.s.
County of San Juan)

The foregoing instrument was acknowledge before me this 18th day of July, 1994, by Gary Miller.

Mike Harkin Notar

Notary Public

My Commission Expires : 8-27-94
(seal)