

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

5. LEASE DESIGNATION AND
LEASE NO. **SF-078764**

6. IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐

OTHER

b. TYPE OF COMPLETION:
NEW WELL ☒ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

7. UNIT AGREEMENT NAME
ROSA UNIT (008480)

2. NAME OF OPERATOR

NORTHWEST PIPELINE CORPORATION

8. FARM OR LEASE NAME, WELL NO.
ROSA UNIT #137

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 58900 MS 2M3 SALT LAKE CITY, UTAH 84158-0900 (801) 584-6981

9. API WELL NO.
30-039-25410

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

1321' FSL & 820' FWL

At Surface

At top production interval reported below

At total depth

10. FIELD AND POOL, OR WILDCAT
PICTURED CLIFFS 96175

11. SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
SW/4 SW/4 SEC. 31, T31N R5W

RECEIVED
JUL 28 1994

OIL
DIST. 3

12. COUNTY OR
PARISH
RIO ARriba

13. STATE
NEW MEXICO

15. DATE
SPUDDED
06/04/94

16. DATE T.D.
REACHED
06/12/94

17. DATE COMPLETED
(READY TO PRODUCE)
07/09/94

18. ELEVATIONS (DK, RKB,
RT, GR, ETC.) *
6548' GR

19. ELEVATION CASINGHEAD
6548'

20. TOTAL DEPTH, MD & TVD
6170'

21. PLUG, BACK T.D., MD & TVD
6148'

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 3360' TO 3448'

25. WAS DIRECTIONAL SURVEY MADE
YES

26. TYPE ELECTRIC AND OTHER LOGS RUN

CASED HOLE: GR/CCL/CBL OPEN HOLE: IND/GR/COL/CNL MD

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 CEMENTED
9-5/8" 5-55	36#	260'	12-1/4"	135 SX	161 cu.ft.	SURFACE	
7" K-55	20#	3789'	8-3/4"	535 SX	1013 cu.ft.	600' (SURV)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2" K-55	3686'	6170'	275 SX (405 cu.ft.)		1-1/2" 2.9#	5917'	4000'

31. PERFORMANCE RECORD (Interval, size, and number)

**PICTURED CLIFFS - 3360' TO 3372', 3400' TO 3416', 3426' TO 3430', 3444 TO 3446',
TOTAL 38 .36" DIA HOLES**

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
3360'	3448'	100,000# 14,742 GALS	20/40 SAND

33. PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SHUT IN)	
		FLOWING				SHUT IN	
DATE OF TEST 07/21/94	HOURS TESTED 3	CHOKE SIZE 3/4"	PROD'N FOR TEST PERIOD-----	OIL - BBL. 0	GAS - MCF 207	WATER - BBL. 0	GAS-OIL RATIO N/A
FLOW TUBING PRESS 124#	CASING PRESSURE 604#	CALCULATED 24-HOUR RATE-----		OIL - BBL. 0	GAS - MCF 1650	WATER - BBL. N/A	OIL GRAVITY- API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TO BE SOLD

TEST WITNESSED BY
ROSS GALLEGOS

35. LIST OF ATTACHMENTS:

LOGS, SUMMARY OF POROUS ZONES, DEVIATION REPORT, WELLBORE DIAGRAM & SITE DIAGRAM

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED **KATHY BARNEY**

SR. OFFICE ASSISTANT

DATE **JUL 22, 1994**

ACCEPTED FOR RECORD

*(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

BY **Sum**

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>	<u>SURFACE</u>						
OJO ALAMO	2540'	2745'					
KIRTLAND	2745'	3046'					
FRUITLAND	3046'	3360'					
PICTURED CLIFFS	3360'	3606'					
LEWIS	3606'	5500'					
CLIFF HOUSE	5500'	5550'					
MENEFEE	5550'	5774'					
POINT LOOKOUT	5774'	6075'					
MANCOS	6075'	N/A					
TD	6170'						

WELLBORE DIAGRAM

ROSA UNIT #137 PC/MV

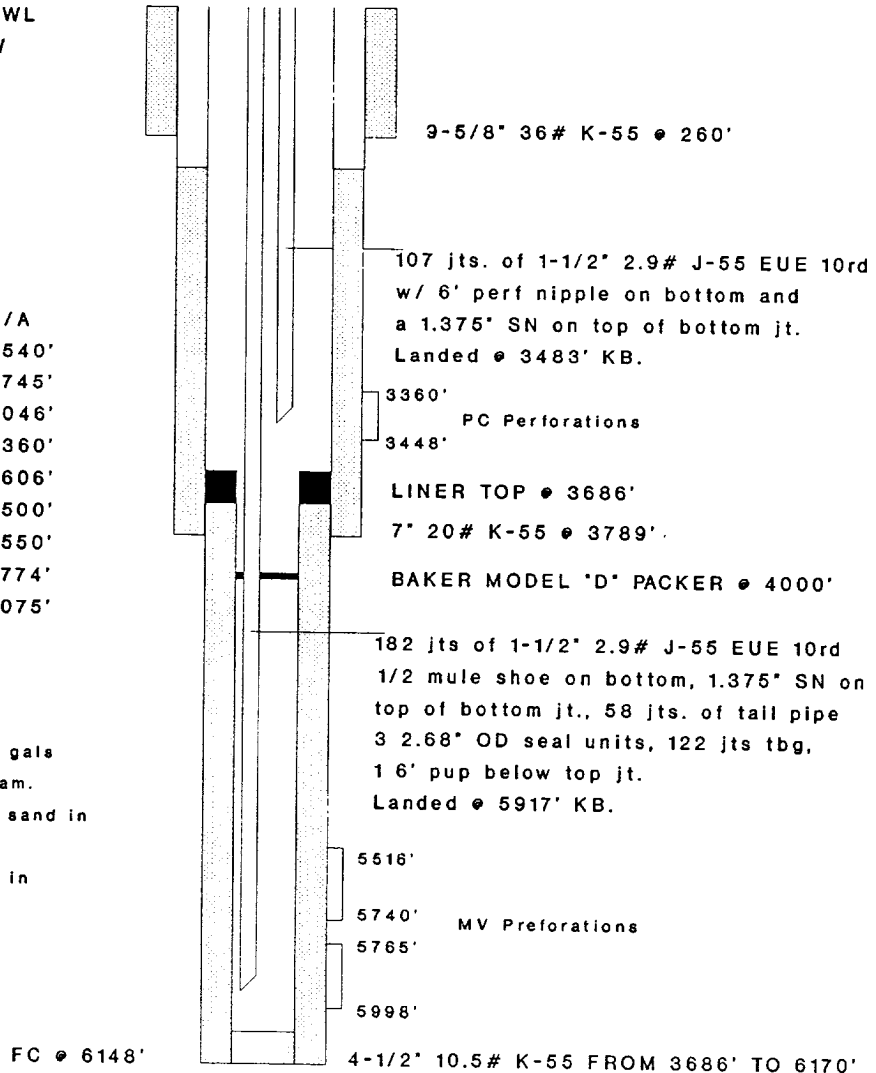
LOCATION: 1321'FSL, 820'FWL
 LOT 3, SEC. 31, T31N, R5W
 RIO ARRIBA, Co., NM
 ELEVATION: 6548' GR
 KB: 12'

TOPS:

NACIMIENTO	N/A
OJO ALAMO	2540'
KIRTLAND	2745'
FRUITLAND	3046'
PICTURED CLIFFS	3360'
LEWIS	3606'
CLIFF HOUSE	5500'
MENEFEE	5550'
POINT LOOKOUT	5774'
MANCOS	6075'

STIMULATION:

PC: 100,000# 20/40, 14,742 gals
 X-link gel and 70 quality foam.
 MV: Stg 1 - 120,000# 20/40 sand in
 82,362 gals of slick water.
 Stg 2 - 45,800# 20/40 sand in
 36,183 gals of slick water.



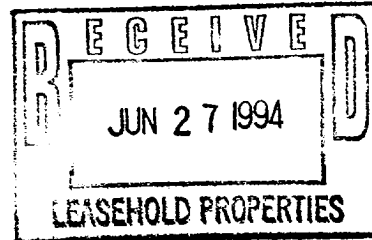
HOLE SIZE	CASING	CEMENT	VOLUME	TOP OF CMT
12-1/4"	9-5/8" 36#	135 SX	161 CU.FT.	SURFACE
8-3/4"	7" 20#	535 SX	1013 CU.FT.	600' (SURV)
6-1/4"	4-1/2" 10.5#	235 SX	407 CU.FT.	LINER TOP

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

Handwritten signature



June 21, 1994

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

RE: Deviation report on the Rosa 137,
Section 31, Township 31 N, Range 5 W
Rio Arriba County, New Mexico

Gentlemen:

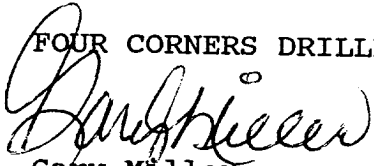
Below is the deviation report for your Rosa 137 Well.

122'	1°
241'	$\frac{1}{2}$ °
490'	1 $\frac{1}{4}$ °
759'	$\frac{3}{4}$ °
1258'	1 $\frac{1}{2}$ °
1676'	1 $\frac{1}{2}$ °
1970'	1 $\frac{1}{4}$ °
2507'	$\frac{3}{4}$ °
2997'	$\frac{3}{4}$ °
3509'	1°
3781'	$\frac{1}{2}$ °
4058'	$\frac{3}{4}$ °
4560'	3°
4622'	3°
4684'	2 $\frac{1}{2}$ °
4809'	3°
4901'	2 $\frac{1}{2}$ °
5025'	2 $\frac{3}{4}$ °
5142'	2 $\frac{3}{4}$ °
5310'	2 $\frac{1}{2}$ °
5451'	2 $\frac{1}{4}$ °
5625'	2 $\frac{3}{4}$ °
5782'	2 $\frac{3}{4}$ °
5970'	2 $\frac{1}{2}$ °
6136'	2 $\frac{3}{4}$ °

June 21, 1994
Rosa Unit 137
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Sincerely,

FOUR CORNERS DRILLING COMPANY



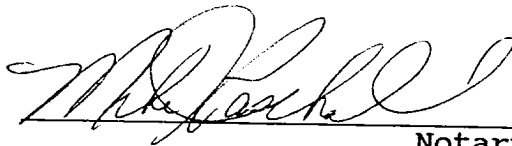
Gary Miller
Drilling Superintendent

GM/tdd

Acknowledgement

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

The foregoing instrument was acknowledge before me this 21st day
of June, 1994, by Gary Miller.



Notary Public

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