

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. **8920005870**

SI--078764

6. IF INDIAN, ALLOTTEE OR

7. UNIT AGREEMENT NAME
ROSA UNIT (008480)

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

9. API WELL NO.
30-039-25410

10. FIELD AND POOL, OR WILDCAT
BLANCO MESAVERDE 72319

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

12. COUNTY OR
PARISH
RIO ARRIBA

13. STATE
NEW MEXICO

19. ELEVATION CASINGHEAD
6548'

22. IF
MULTICOMP., HOW
MANY **PC/MV**

23. INTERVALS
DRILLED BY
----->

ROTARY TOOLS
X

CABLE TOOLS

25. WAS DIRECTIONAL SURVEY MADE
YES

27. WAS WELL CORRECTED
NO

28. CASING REPORT (Report all strings set in well)

29. LINER RECORD

30. TUBING RECORD

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

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

33. PRODUCTION

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

35. LIST OF ATTACHMENTS:

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 **July 22, 1994**

ACCEPTED FOR RECORD

JUL 26 1994

FARMINGTON DISTRICT OFFICE

NMOOD

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR

NORTHWEST PIPELINE CORPORATION

3. ADDRESS AND TELEPHONE NO.

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

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

14. PERMIT
NO.

DATE ISSUED

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

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)*
MESAVERDE - 5516' TO 5998'

26. TYPE ELECTRIC AND OTHER LOGS RUN
CASED HOLE: GR/CCL/CBL OPEN HOLE: IND/GR/CDL/CNL MD

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
9-5/8" K-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'	235 SX (407 cu.ft.)		1-1/2" 2.9#	5917'	4000'

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

STAGE 1: 5765', 68', 71', 75', 79', 83', 87', 91', 5800', 04', 08', 12', 16', 30', 38', 53', 57', 61', 65', 74', 78', 82', 86', 5900', 03', 06', 14', 17', 49', 57', 62', 78', 92', 98'.
TOTAL OF 34 .36" DIA HOLES.
STAGE 2: 5516', 18', 20', 22', 53', 79', 81', 83', 85', 93', 95', 97', 99', 5601', 20', 42', 44', 46', 48', 56', 79', 5708', 22', 32', 40'. TOTAL OF 25 .36" DIA HOLES.

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

DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
5765'	5998'	120,000# 82,362 GAL	20/40 SAND
5516'	5740'	45,800# 36,163 GAL	20/40 SAND

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 07/21/94	HOURS TESTED 3	CHOKE SIZE 3/4"	PROD'N FOR TEST PERIOD----->	OIL - BBL. 0	GAS - MCF 267	WATER - BBL. 0	GAS-OIL RATIO N/A
FLOW TUBING PRESS 175#	CASING PRESSURE N/A	CALCULATED 24-HOUR RATE----->		OIL - BBL. 0	GAS - MCF 2,317	WATER - BBL. N/A	OIL GRAVITY-API (CORR.)

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

TO BE SOLD

TEST WITNESSED BY
C. CHARLEY

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 **July 22, 1994**

ACCEPTED FOR RECORD

JUL 26 1994

FARMINGTON DISTRICT OFFICE

NMOOD

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*(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.

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>						
0J0 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'					

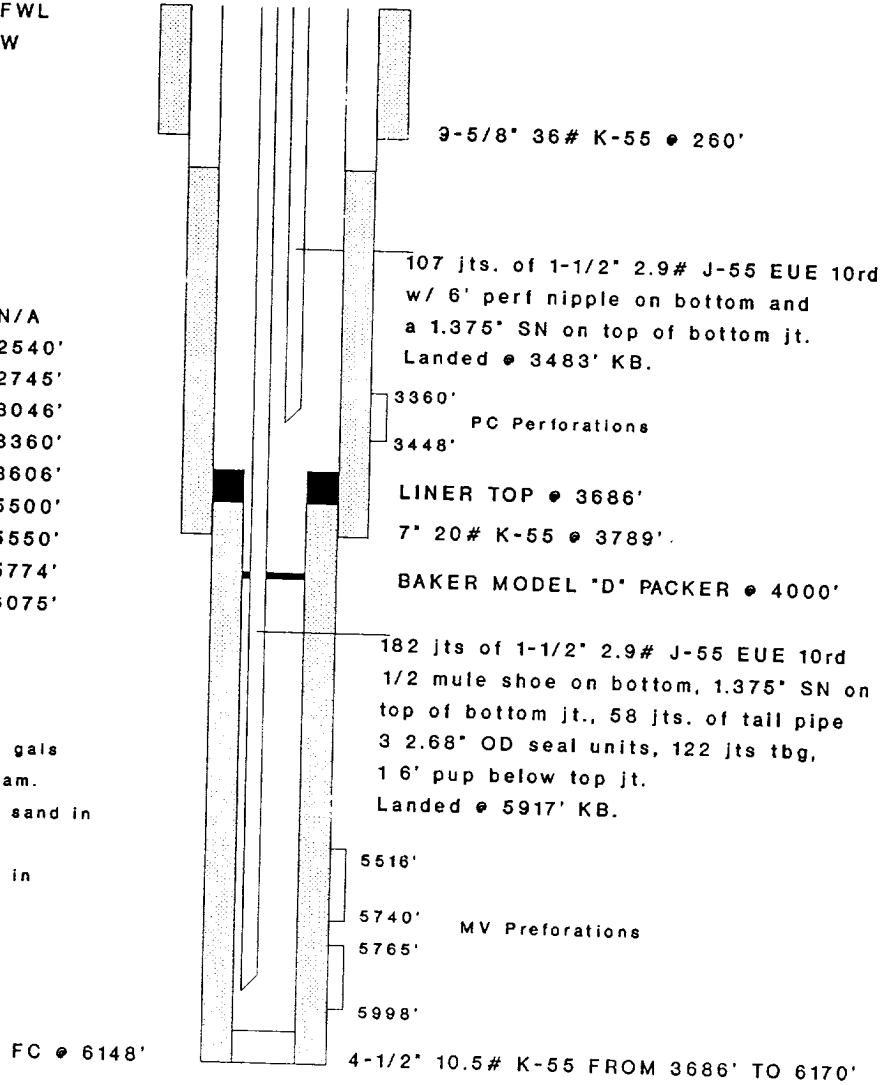
WELLBORE DIAGRAM ROSA UNIT #137 PC/MV

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.



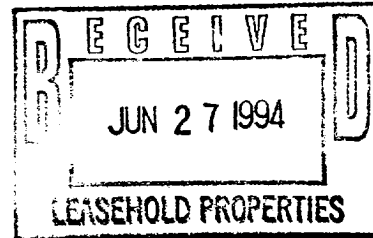
HOLE SIZE	CASING	CEMENT	VOLUME	TOP OF CMT
12-1/4"	9-5/8" 36#	135 SX	161 CU.FT.	SURFACE
8-3/4"	7" 20#	535 SX	1013 CU.FT.	600' (SURV)
6-1/4"	4-1/2" 10.5#	235 SX	407 CU.FT.	LINER TOP

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:

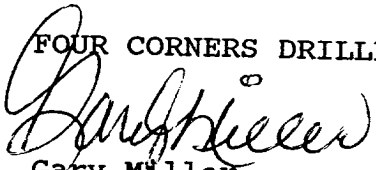
Below is the deviation report for your Rosa 137 Well.

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
PAGE 2

Sincerely,

FOUR CORNERS DRILLING COMPANY



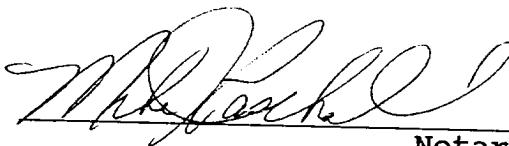
Gary Miller
Drilling Superintendent

GM/tdd

Acknowledgement

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

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)