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(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
AUG 10 1994
OIL CON. DIV.
DIST. 3

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

5. LEASE DESIGNATION AND
LEASE NO. **SF-078771**

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 #5A	
2. NAME OF OPERATOR NORTHWEST PIPELINE CORPORATION		9. API WELL NO. 30-039-25407	
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 PICTURED CLIFFS 96175	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* 845' FSL & 1131' FEL At Surface At top production interval reported below At total depth		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SE/4 SE/4 SEC. 26, T31N R6W	
14. PERMIT NO.		DATE ISSUED	
12. COUNTY OR PARISH RIO ARRIBA		13. STATE NEW MEXICO	
15. DATE SPUDDED 06/13/94	16. DATE T.D. REACHED 06/20/94	17. DATE COMPLETED (READY TO PRODUCE) 07/23/94	18. ELEVATIONS (DK, RKB, RT, GR, ETC.)* 6425' GR
19. ELEVATION CASINGHEAD 6425'		20. TOTAL DEPTH, MD & TVD 6065'	
21. PLUG, BACK T.D., MD & TVD 6041'		22. IF MULTICOMP., HOW MANY PC/MV	23. INTERVALS DRILLED BY -----
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* PICTURED CLIFFS 3250' TO 3344'		25. WAS ☒ DIRECTIONAL SURVEY MADE	
26. TYPE ELECTRIC AND OTHER LOGS RUN CASED HOLE: GR/CCL/CBL OPEN HOLE: IND/GR/CDL/CNL MD		27. WAS ☒ WELL CORED	
28. CASING REPORT (Report all strings set in well)			
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
9-5/8" K-55	36#	267'	12-1/4"
7" K-55	20#	3740'	8-3/4"
TOP OF CEMENT, CEMENTING RECORD		AMOUNT PULLED	
135 SX 161 cu.ft. SURFACE		600' (SURV)	
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
4-1/2" K-55	3617'	6065'	230 SX (398 cu.ft.)
30. TUBING RECORD		PACKER SET (MD)	
1-1/2" 2.9# 3340'		4000'	
31. PERFORMANCE RECORD (Interval, size, and number) PICTURED CLIFFS - 3250' TO 3270', 3298' TO 3326', 3332' TO 3338', 3342 TO 3344', TOTAL 60 .36" DIA HOLES		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
3250' 3344'		123,800# 15,078 GALS 20/40 SAND	
33. PRODUCTION			
DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) FLOWING	
DATE OF TEST 08/03/94		HOURS TESTED 3	
CHOKE SIZE 3/4"		PROD'N FOR TEST PERIOD-----	
OIL - BBL. 0		GAS - MCF 387	
WATER - BBL. 0		GAS-OIL RATIO N/A	
FLOW TUBING PRESS 238#		CASING PRESSURE 1052#	
CALCULATED 24-HOUR RATE-----		OIL - BBL. 0	
GAS - MCF 3095		WATER - BBL. N/A	
OIL GRAVITY- API (CORR.)		TEST WITNESSED BY CHIK CHARLEY	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD			
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 KATHY BARNEY TITLE SR. OFFICE ASSISTANT DATE August 8, 1994

*(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		TRUE VERTICAL DEPTH
					NAME	MEASURED DEPTH	
<u>NACIMIENTO</u>							
OJO ALAMO	2482'	2600'					
KIRTLAND	2600'	3032'					
FRUITLAND	3032'	3246'					
PICTURED CLIFFS	3246'	3640'					
LEWIS	3640'	5431'					
CLIFF HOUSE	5431'	5466'					
MENELEE	5466'	5650'					
POINT LOOKOUT	5650'	5907'					
MANCOS	5907'	N/A					
TD	6065'						

WELLBORE DIAGRAM ROSA UNIT #5A PC/MV

LOCATION: 845'FSL, 1131'FEL
SE/4 SE/4 SEC. 26, T31N, R6W
RIO ARRIBA, Co., NM
ELEVATION: 6425' GR
KB: 12'

TOPS:

NACIMIENTO	N/A
OJO ALAMO	2482'
KIRTLAND	2600'
FRUITLAND	3032'
PICTURED CLIFFS	3246'
LEWIS	3640'
CLIFF HOUSE	5431'
MENEFEE	5466'
POINT LOOKOUT	5650'
MANCOS	5907'

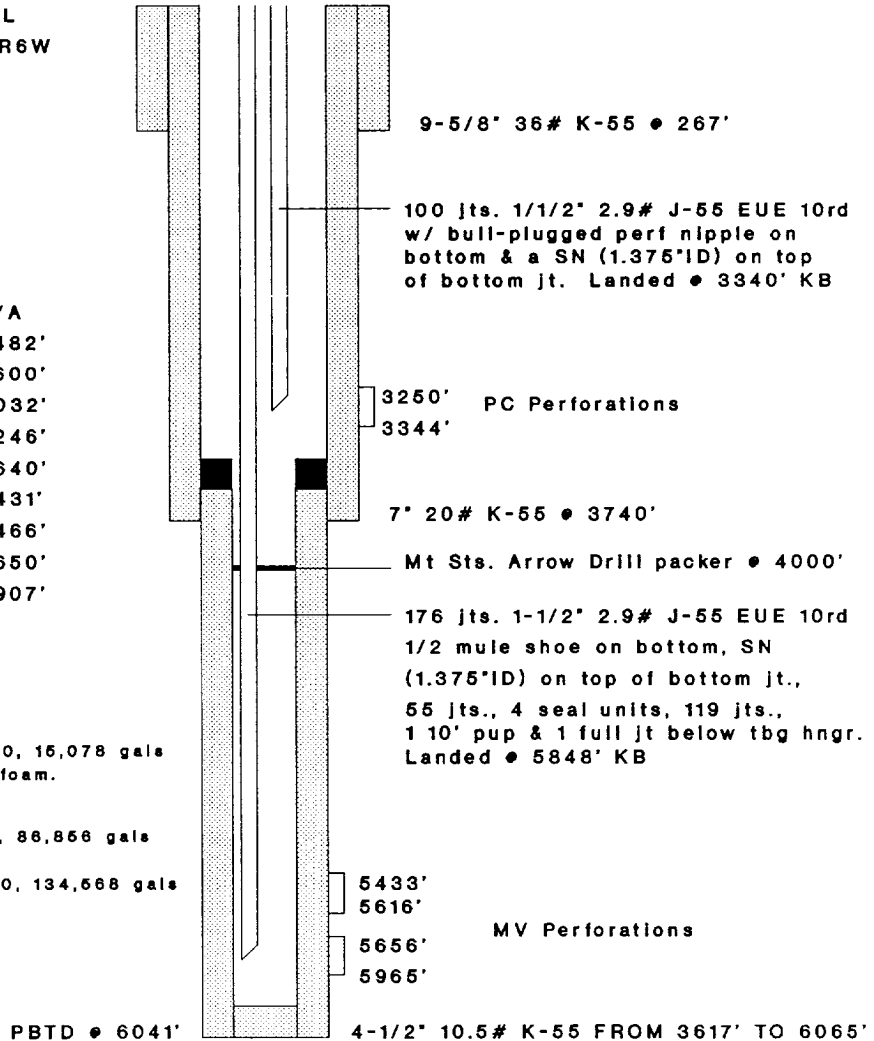
STIMULATION:

Pictured Cliffs

3250'- 3344': 123,800# 20/40, 15,078 gals
30# X-Link gel in a 70 qual foam.

Mesa Verde

5433'- 5616': 81,400# 20/40, 86,866 gals
of slick water.
5656'- 5965': 136,000# 20/40, 134,568 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#	525 SX	992 CU.FT.	600' (SURV)
6-1/4"	4-1/2" 10.5#	230 SX	398 CU.FT.	LINER TOP