

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN  
DUPLICATE

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

(See other instructions on  
reverse side)  
RECEIVED  
BLM

5. LEASE DESIGNATION AND LEASE NO.  
SF-078766

6. IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

50 DEC 11 PM 2:18

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

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

070 FARMINGTON, NM

7. UNIT AGREEMENT NAME  
ROSA UNIT

2. NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

8. FARM OR LEASE NAME, WELL NO  
ROSA UNIT #160A

3. ADDRESS AND TELEPHONE NO

P.O. BOX 3102 MS 37-2 TULSA, OK 74101 (918) 561-5201

9. API WELL NO  
30-039-25818

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

At Surface 1175' FSL & 1450' FWL

At top production interval reported below : At total depth:

10. FIELD AND POOL, OR WILDCAT  
BLANCO MV

11. SECTION, T.R.M. OR BLOCK AND  
SURVEY OR AREA  
SE/4 SW/4 SEC 25-31N-6W

12. COUNTY OR  
RIO ARRIBA  
13. STATE  
NEW MEXICO

19. ELEVATION CASINGHEAD

15. DATE  
SPUDDED  
9-10-1998

16. DATE T.D.  
REACHED  
9-16-1998

17. DATE COMPLETED (READY TO PRODUCE)  
11-13-1998

14. PERMIT NO.  
DATE ISSUED  
6438'GR

20. TOTAL DEPTH, MD & TVD  
6120'

21. PLUG, BACK T.D., MD & TVD  
6095'

22. IF MULTICOMP.,  
HOW MANY

23. INTERVALS  
DRILLED BY

ROTARY TOOLS  
X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*

BLANCO MV 4582' - 5906'

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

IES/GR and CNL/CDL

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 |
|-------------------|----------------|----------------|-----------|---------------------------------|---------------|
| 9-5/8" K-55       | 36#            | 290'           | 12-1/4"   | 150 SX - SURFACE                |               |
| 7" K-55           | 20#            | 3681'          | 8-3/4"    | 660 SX - SURFACE                |               |

29. LINER RECORD

| SIZE   | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE   | DEPTH SET (MD) | PACKER SET (MD) |
|--------|----------|-------------|---------------|-------------|--------|----------------|-----------------|
| 4-1/2" | 3472'    | 6120'       | 310 sx        |             | 2-3/8" | 5927'          |                 |

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

CH/Menefee: 4582', 86', 90', 94', 98', 4602', 06', 46', 50', 54', 58', 4709', 11', 5156', 60', 5266', 5392', 95', 98', 5401', 04', 06', 30', 33', 36', 39', 42', 62', 65', 68', 71', 74', 77', 80', 5535' and 40'. Total of 36 holes.

Pt Lookout: 5633', 36', 39', 42', 45', 48', 51', 54', 57', 60', 63', 77', 80', 84', 87', 90', 93', 96', 99', 5702', 05', 08', 11', 14', 17', 22', 25', 32', 34', 50', 53', 56', 72', 74', 76', 96', 5854', 57', 74', 76', 87', 93' and 5906'. Total of 44 holes

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED            |
|---------------------|---------------------------------------------|
| 4582' - 5540'       | 80,000# 20/40 Sand in 2190 BBIs slick water |
| 5633' - 5906'       | 68,000# 20/40 Sand in 2100 BBIs slick water |

33. PRODUCTION

| DATE OF FIRST PRODUCTION |                 | PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)<br>Flowing |                        |            |           | WELL STATUS (PRODUCING OR SHUT IN)<br>SHUT IN |                      |
|--------------------------|-----------------|---------------------------------------------------------------------------------|------------------------|------------|-----------|-----------------------------------------------|----------------------|
| DATE OF TEST             | TESTED          | CHOKE SIZE                                                                      | PROD'N FOR TEST PERIOD | OIL - BBL. | GAS - MCF | WATER - BBL.                                  | GAS-OIL RATIO        |
| 11-28-1998               | 3 HRS           |                                                                                 |                        |            | 564       |                                               |                      |
| FLOW TBG PRESS           | CASING PRESSURE | CALCULATED 24-HOUR RATE                                                         |                        | OIL - BBL. | GAS - MCF | WATER - BBL.                                  | OIL GRAVITY-API (COR |
| 341#                     | 824#            |                                                                                 |                        |            | 4514      |                                               |                      |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TO BE SOLD

TEST WITNESSED BY: CHIK CHALEY

35. LIST OF ATTACHMENTS: SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

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

SIGNED Susan Griguhn

*Sgriguhn*

TITLE Drilling Clerk

DATE November 30, 1998

DEC 07 1998

FARMINGTON DISTRICT OFFICE

NMOCD

| 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            |                     |  |  |
|                                                                                                                                                                                                                                                |       |        |                            |  |      | MEASURED DEPTH | TRUE VERTICAL DEPTH |  |  |
| OJO ALAMO                                                                                                                                                                                                                                      | 2422' | 3004'  |                            |  |      |                |                     |  |  |
| FRUITLAND                                                                                                                                                                                                                                      | 3004' | 3200'  |                            |  |      |                |                     |  |  |
| PICTURED CLIFFS                                                                                                                                                                                                                                | 3200' | 5372'  |                            |  |      |                |                     |  |  |
| CLIFF HOUSE                                                                                                                                                                                                                                    | 5372' | 5443'  |                            |  |      |                |                     |  |  |
| MENESEE                                                                                                                                                                                                                                        | 5443' | 5632'  |                            |  |      |                |                     |  |  |
| POINT LOOKOUT                                                                                                                                                                                                                                  | 5632' | 5900'  |                            |  |      |                |                     |  |  |
| MANCOS                                                                                                                                                                                                                                         | 5900' |        |                            |  |      |                |                     |  |  |

# ROSA UNIT #160A BLANCO MESAVERDE

Location: 1175' FSL, 1450' FWL  
SE 1/4 Section 25, T31N, R6W  
Rio Arriba Co., NM

Elevation: 6438' GR  
KB = 12'

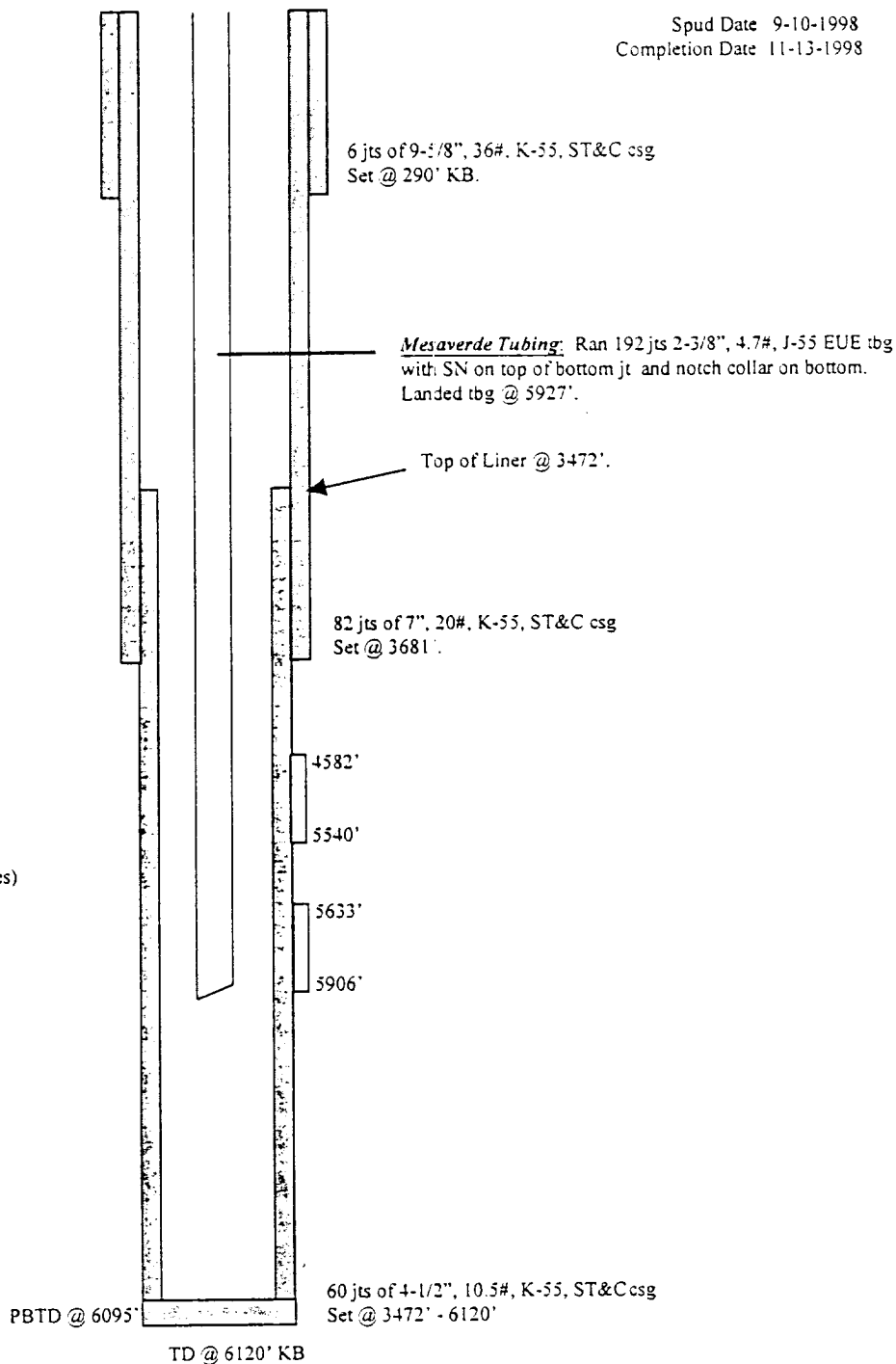
Spud Date 9-10-1998  
Completion Date 11-13-1998

| <i>Tops</i>     | <i>Depth</i> |
|-----------------|--------------|
| Ojo Alamo       | 2422'        |
| Kirtland        | 2600'        |
| Fruitland       | 3004'        |
| Pictured Cliffs | 3200'        |
| Cliff House     | 5372'        |
| Menefee         | 5443'        |
| Point Lookout   | 5632'        |
| Mancos          | 5900'        |

## STIMULATION

Cliff House/Menefee 4582' - 5540' (36, 0.38" holes)  
80,000# of 20/40 sand in 2190BBI's slick water.

Point Lookout 5633' - 5906' (44, 0.38" holes)  
68,000# of 20/40 sand in 2100BBI's slick water.



| HOLE SIZE | CASING   | CEMENT  | CMT TOP     |
|-----------|----------|---------|-------------|
| 12 - 1/4" | 9 - 5/8" | 150 s x | SURFACE     |
| 8 - 3/4"  | 7"       | 660 s x | SURFACE     |
| 6 - 1/4"  | 4 - 1/2" | 310 s x | 5786' (CBL) |