

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-078765

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 _____

2. NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

3. ADDRESS AND TELEPHONE NO.
P.O. BOX 3102 MS 37-2 TULSA, OK 74101 (918) 573-6254

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At Surface: 485' FSL & 1125' FEL
At top production interval reported below :
At total depth:

7. UNIT AGREEMENT NAME
ROSA UNIT

8. FARM OR LEASE NAME, WELL NO.
ROSA UNIT #12B

9. API WELL NO.
30-039-26555

10. FIELD AND POOL, OR WILDCAT
BASIN DK

11. SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
SE/4 SE/4 SEC 15-31N-6W

12. COUNTY OR
RIO ARriba

13. STATE
NEW MEXICO

15. DATE
SPUDDED
09/30/2001

16. DATE T.D.
REACHED
10/09/2001

17. DATE COMPLETED (READY TO PRODUCE)
11/30/2001

14. PERMIT NO.

DATE ISSUED

18. ELEVATIONS (DK, RKB, RT, GR, ETC.)*
6144' GR

19. ELEVATION CASINGHEAD

20. TOTAL DEPTH, MD & TVD
7845' MD

21. PLUG, BACK T.D., MD & TVD
7820' MD

22. IF MULTICOMP.,
HOW MANY
2

23. INTERVALS
DRILLED BY

ROTARY TOOLS
X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
BASIN DK 7678' - 7734'

25. WAS DIRECTIONAL SURVEY MADE
YES

26. TYPE ELECTRIC AND OTHER LOGS RUN
IND/GR & DEN/NEU/TEMP

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
10-3/4" K-55	40#	518'	14-3/4"	450 SX - SURFACE	
7-5/8" K-55	26.4#	3482'	9-7/8"	675 SX - SURFACE	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
5-1/2"	0'	7845'	300 SX		2-1/16"	7749'	5800'

30. TUBING RECORD

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

Dakota: 7678', 80', 82', 84', 86', 88', 90', 7726', 28', 30', 32' and 34'. Total of 12 (0.38") holes

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

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

7678' - 7734'

50,000# 20/40 Acfrac SB Excel resin coated proppant

33. PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) Flowing				WELL STATUS (PRODUCING OR SI) SI waiting on pipeline	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
12/18/01	3 hr	3/4"			97		
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
50	910				774		

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

TEST WITNESSED BY: LARRY HIGGINS

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 Nancy Ross TITLE Production Analyst DATE December 21, 2001

DECEMBER 21 2001

DEC 27 2001

ARMINGTON FIELD

38. GEOLOGIC MARKERS

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):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
PICTURED CLIFFS	2973'	3374'					
LEWIS	3374'	5159'					
CLIFFHOUSE	5159'	5205'					
MENEFEE	5205'	5454'					
POINT LOOKOUT	5454'	5960'					
MANCOS	5960'	7648'					
DAKOTA	7648'						

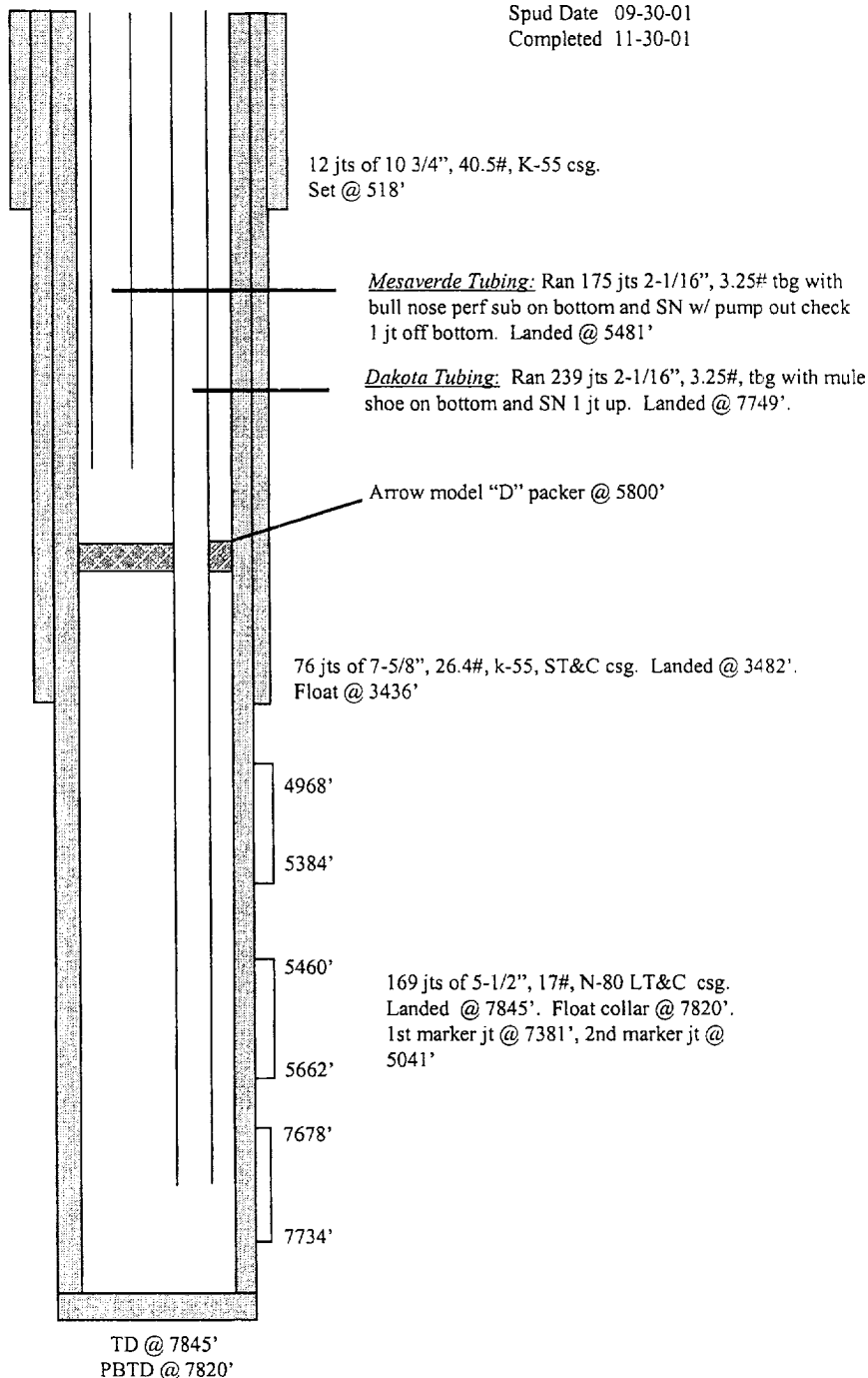
ROSA UNIT #12B **BLANCO MV/BASIN DK**

Location: 485' FSL, 1125' FEL
 SE/4 SE/4 Section 15(P), T31N, R6W
 Rio Arriba Co., NM

Elevation: 6144' GR

Spud Date 09-30-01
 Completed 11-30-01

<i>Tops</i>	<i>Depth</i>
Kirtland	2292'
Pictured Cliffs	2973'
Cliff House	5159'
Point Lookout	5454'
Mancos	5960'
Dakota	7648'



CliffHouse/Menefee 4968' - 5384' (26, 0.38" holes)
 87,000# of 20/40 sand in 1957 BBI's slick water.

Point Lookout 5460' - 5662' (22, 0.38" holes)
 80,000# of 20/40 sand in 1857 BBI's slick water.

Dakota 7678' - 7734' (12, 0.38" holes)
 50,000# of 20/40 Acfrac SB Excel resin coated proppant
 carried in 60Q Spectre G foam in 767 BBI's slick water

169 jts of 5-1/2", 17#, N-80 LT&C csg.
 Landed @ 7845'. Float collar @ 7820'.
 1st marker jt @ 7381', 2nd marker jt @ 5041'

HOLE SIZE	CASING	CEMENT	VOLUME	CMT TOP
14 3/4"	10 3/4"	450 sx	635 cu.ft.	460'
9 7/8"	7 5/8"	675 sx	1285 cu.ft.	3420'
6 3/4"	5 1/2"	320 sx	667 cu.ft.	7789'