

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 _____

2. NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 3102 MS 37-3 TULSA, OK 74101 (918) 561-6678

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At Surface 790' FSL & 1850' FEL
At top production interval reported below : SAME At total depth: SAME

RECEIVED
OCT 26 1996
OIL & GAS DIV.
DIST. 3

7. UNIT AGREEMENT NAME

ROSA UNIT

8. FARM OR LEASE NAME, WELL NO.

#159

9. API WELL NO.

30-039-25583

10. FIELD AND POOL, OR WILDCAT

BASIN DAKOTA #71599

11. SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA

SW SE SEC 19-31N-5W

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR
PARISH
RIO ARRIBA

13. STATE

NEW MEXICO

15. DATE
SPUDDED
07/26/96

16. DATE T.D.
REACHED
08/07/96

17. DATE COMPLETED
(READY TO PRODUCE)
09/24/96

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

6327' GR

19. ELEVATION CASINGHEAD

20. TOTAL DEPTH, MD & TVD

8096'

21. PLUG, BACK T.D., MD & TVD

80791'

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)*

BLANCO MT 5413-5985 BASIN DAKOTA 7880-8055

26. TYPE ELECTRIC AND OTHER LOGS RUN

ISE/GR CDL/CNL IND/GR & CDL/SNL

25. WAS DIRECTIONAL SURVEY MADE

YES

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" - J-55	40.5#	342'	14-3/4"	285 SX - SURFACE	
7-5/8" - K-55	26.4#	3662'	9-7/8"	805 SX - SURFACE	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
6-3/4"	5 1/2	8096'	440 SX		1 1/2	795' 5013'	

30. TUBING RECORD

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

7880, 85, 90, 95, 7914, 19, 24, 29, 50, 56, 65, 98, 8010, 13, 21; AND
8042', 8046', and 8055'

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

DEPTH
INTERVAL
(MD)

AMOUNT AND KIND OF MATERIAL USED

7880' - 8021'

90,300# of 20/40 sand in 505 bbls of 35# CMHPG gel

8042' - 8055'

Below Bridgeplug

33. PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SHUT IN)	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF	WATER - BBL.	GAS-OIL RATIO
10/09/96	3hr	3/4"			87		
FLOW TUBING PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL.	GAS - MCF	WATER - BBL.	OIL GRAVITY-API (CORR.)
44					694		

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

TESTED WITNESSED BY
CHIK CHALEY

35. LIST OF ATTACHMENTS: LOG, 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 Larsen Kimbly TITLE SR. OFFICE ASSISTANT

DATE October 16, 1996

ACCEPTED FOR RECORD

OCT 22 1996

NMCOO

FARMINGTON DISTRICT OFFICE

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 ALAMQ	2464'	2578'					
KIRTLAND	2578'	2894'					
FRUITLAND	2894'	3200'					
PICTURED CLIFFS	3200'	3494'					
LEWIS	3494'	5398'					
CLIFF HOUSE	5398'	5440'					
MENEFEE	5440'	5649'					
POINT LOOKOUT	5649'	5771'					
MANCOS	5771'	6426'					
GALLUP	6426'	7700'					
GREENHORN	7700'	7752'					
GANGEROS	7752'	7862'					
DAKOTA	7862'	N/A					

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

6. IF INDIAN, ALLOTTEE OR

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

7. UNIT AGREEMENT NAME

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

ROSA UNIT

2. NAME OF OPERATOR

8. FARM OR LEASE NAME, WELL NO.
#159

WILLIAMS PRODUCTION COMPANY

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 3102 MS 37-3 TULSA, OK 74101 (918) 561-6678

9. API WELL NO.
30-039-25583

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

At Surface 790' FSL & 1850' FEL

At top production interval reported below : SAME At total depth: SAME

10. FIELD AND POOL, OR WILDCAT
BLANCO MV 72319

11. SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
☐ SW SE SEC 19-31N-5W

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR
PARISH

13. STATE

RIO ARriba

NEW MEXICO

15. DATE
SPUDDED
07/26/96

16. DATE T.D.
REACHED
08/07/96

17. DATE COMPLETED
(READY TO PRODUCE)
09/24/96

18. ELEVATIONS (DK, RKB, RT, GR, ETC.)*
6327' GR

19. ELEVATION CASINGHEAD

20. TOTAL DEPTH, MD & TVD
8096'

21. PLUG, BACK T.D., MD & TVD

8074' 8074

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):*
BLANCO MV 5413/ - 5985

25. WAS DIRECTIONAL SURVEY MADE
YES

26. TYPE ELECTRIC AND OTHER LOGS RUN
ISE/GR CDL/CNL IND/GR & CDL/SNL

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" - J-55	40.5#	342'	14-3/4"	285 SX - SURFACE	
7-5/8" - K-55	26.4#	3662'	9-7/8"	805 SX - SURFACE	

29. LINER RECORD

30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
6-3/4"	5 1/2	8096''	440 sx		1-1/4"	5746 5915	

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

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

DEPTH INTERVAL
(MD)

AMOUNT AND KIND OF MATERIAL USED

5413' - 5638'

82,000# of 20/40 sand in 1683 bbls of slick water

5650' - 5985'

82,220# of 20/40 sand in 1890 bbls of slick water

5413', 5415', 5418', 5420', 5432', 5453', 5455', 5457', 5459', 5461', 5463', 5465', 5474', 5485',
5487', 5489', 5491', 5493', 5495', 5497', 5499', 5512', 5514', 5516', 5524', 5529', 5539', 5543',
5557', 5559', 5561', 5563', 5565', 5567', 5569', 5571', 5582', 5584', 5608', 5624', 5626', and
5638'.
5650', 5652', 5654', 5656', 5658', 5660', 5662', 5664', 5666', 5668', 5670', 5679', 5681', 5683',
5685', 5687', 5689', 5691', 5693', 5695', 5697', 5699', 5701', 5703', 5705', 5707', 5711', 5713',
5716', 5718', 5720', 5722', 5724', 5727', 5738', 5740', 5742', 5746', 5748', 5750', 5752', 5754',
5756', 5767', 5769', 5779', 5789', 5805', 5826', 5840', 5857', 5860', 5863', 5887', 5889', 5891',
5902', 5904', 5912', 5915', 5949', 5964', and 5985'. Total of 105 holes

33. PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SHUT IN)	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF	WATER - BBL.	GAS-OIL RATIO
10/12/96	3hr	3/4"			241		
FLOW TUBING PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL.	GAS - MCF	WATER - BBL.	OIL GRAVITY-API (CORR.)
140					1930		

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

TESTED 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 Garrett Kimbrell

TITLE SR. OFFICE ASSISTANT

DATE October 16, 1996

ACCEPTED FOR RECORD

OCT 22 1996

FARMINGTON DISTRICT OFFICE

BY 4-11-96

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	
OJO ALAMO KIRTLAND FRUITLAND PICTURED CLIFFS LEWIS CLIFF HOUSE MENEFE POINT LOOKOUT MANCOS GALLUP GREENHORN GANGEROS DAKOTA	2464' 2578' 2894' 3200' 3494' 5398' 5440' 5649' 5771' 6426' 7700' 7752' 7862'	2578' 2894' 3200' 3494' 5398' 5440' 5649' 5771' 6426' 7700' 7752' 7862' N/A				TRUE VERTICAL DEPTH	

WELLBORE DIAGRAM

ROSA UNIT #159

MV/DK

Location: 790' FSL, 1850' FEL
SW/4 SE/4 Section 19, T31N, R5W
Rio Arriba Co., NM

Elevation = 6327' GR
KB = 14'

TOPS	DEPTH
OJO ALAMO	2464'
KIRTLAND	2578'
FRUITLAND	2894'
PICTURED CLIFFS	3200'
LEWIS	3494'
CLIFF HOUSE	5398'
MENEFEE	5440'
POINT LOOKOUT	5649'
MANCOS	5771'
GALLUP	6426'
GREENHORN	7700'
GRANEROS	7752'
DAKOTA	7862'

STIMULATION

Cliff House/Menefee: 5413' - 5638'

82,000# of 20/40 sand in 1683 BBL's of slick water.

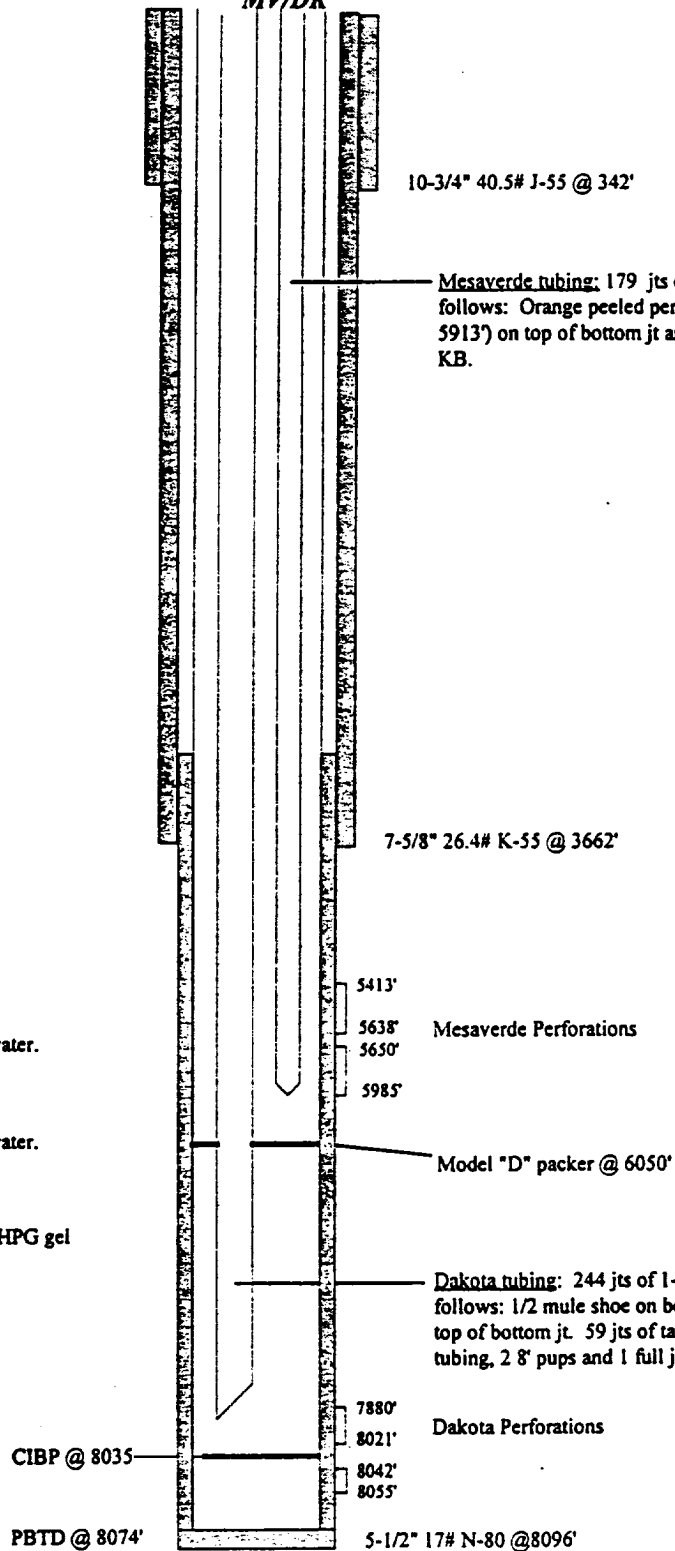
Point Lookout: 5650 - 5985'

82,220# of 20/40 sand in 1890 BBL's of slick water.

Dakota: 7880' - 8021'

90,300# of 20/40 sand in 505 BBL's of 35# CMHPG gel

X-Linked w/ Zirconium in a 60 quality foam.



HOLE SIZE	CASING	CEMENT	VOLUME	TOP OF CMT
14-3/4"	10-3/4" 40.5#	285 sx	336 cu.ft.	SURFACE
9-7/8"	7-5/8" 26.4#	805 sx	1548 cu.ft.	SURFACE
6-3/4"	5-1/2" 17#	440 sx	614 cu.ft.	2950' (CBL)