

In Lieu of
Form 3163-4
(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

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: 1225' FNL & 695' FEL

At top production interval reported below:

At total depth: 779' FNL & 938' FWL

5. LEASE DESIGNATION AND LEASE NO.
SF-078765

6. IE INDIAN, ALLOTTEE OR

7. UNIT AGREEMENT NAME

ROSA UNIT

8. FARM OR LEASE NAME, WELL NO.

ROSA UNIT #181A

9. API WELL NO.

30-039-26312

10. FIELD AND POOL, OR WILDCAT
BLANCO MV

11. SEC., T.R.M., OR BLOCK AND
SURVEY OR AREA
A - SE/4 SE/4 SEC 10-31N-6W

12. COUNTY OR

RIO ARriba

13. STATE

NEW MEXICO

15. DATE
SPUDDED
07/30/2000

16. DATE T.D.
REACHED
08/13/2000

17. DATE COMPLETED (READY TO PRODUCE)
09/08/2000

14. PERMIT NO.

DATE ISSUED

18. ELEVATIONS (OK, RKB, RT, GR, ETC.)*
6267' GR

19. ELEVATION CASINGHEAD

20. TOTAL DEPTH, MD & TVD
6833' MD

21. PLUG, BACK T.D., MD & TVD
6750' MD

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 5966' - 6558'

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
9-5/8" K-55	36#	511'	12-1/4"	275 SX - SURFACE	
7" K-55	20#	4280'	8-3/4"	685 SX - SURFACE	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	4113'	6833'	285 SX		2-3/8"	6562'	

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

CH/Manefee: 5966', 83', 86', 6013', 16', 20', 23', 26', 28', 32', 6105', 07', 31', 33', 35', 41', 47', 50', 52', 65', 67 and 69'. Total of 22 (0.38") holes
Point Lookout: 6195', 97', 6230', 46', 92', 95', 97', 6305', 07', 11', 15', 19', 22', 27', 29', 35', 39', 42', 44', 51', 54', 57', 59', 64', 66', 70', 77', 81', 85', 6401', 03', 17', 59', 77', 80', 82', 6510', 14', 35' and 58'. Total of 40 (0.38") holes

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

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

5966' - 6169'

80,000# 20/40 Sand in 1955 BBIs slick water

6195' - 6558'

80,000# 20/40 Sand in 1982 BBIs slick water

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
9/19/00	3 hr	3/4"			381		
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
230	810				3,044		

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

TEST WITNESSED BY: CHIK CHARLEY

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

Mary Row

TITLE Production Analyst

DATE October 4, 2000

ACCEPTED FOR RECORD

OCT 20 2000

FARMINGTON FIELD OFFICE
BY [Signature]

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
FRUITLAND	3437'	3724'					
PICTURED CLIFFS	3724'	4120'					
LEWIS	4120'	6010'					
CLIFF HOUSE	6010'	6056'					
MENEFEE	6056'	6288'					
POINT LOOKOUT	6288'						

**ROSA UNIT #181A
BLANCO MESAVERDE**

Surface Location:

1225' FNL and 695' FEL
NE/4 NE/4 Sec 15(A), T31N, R6W
Rio Arriba, NM

Bottom Hole Location:

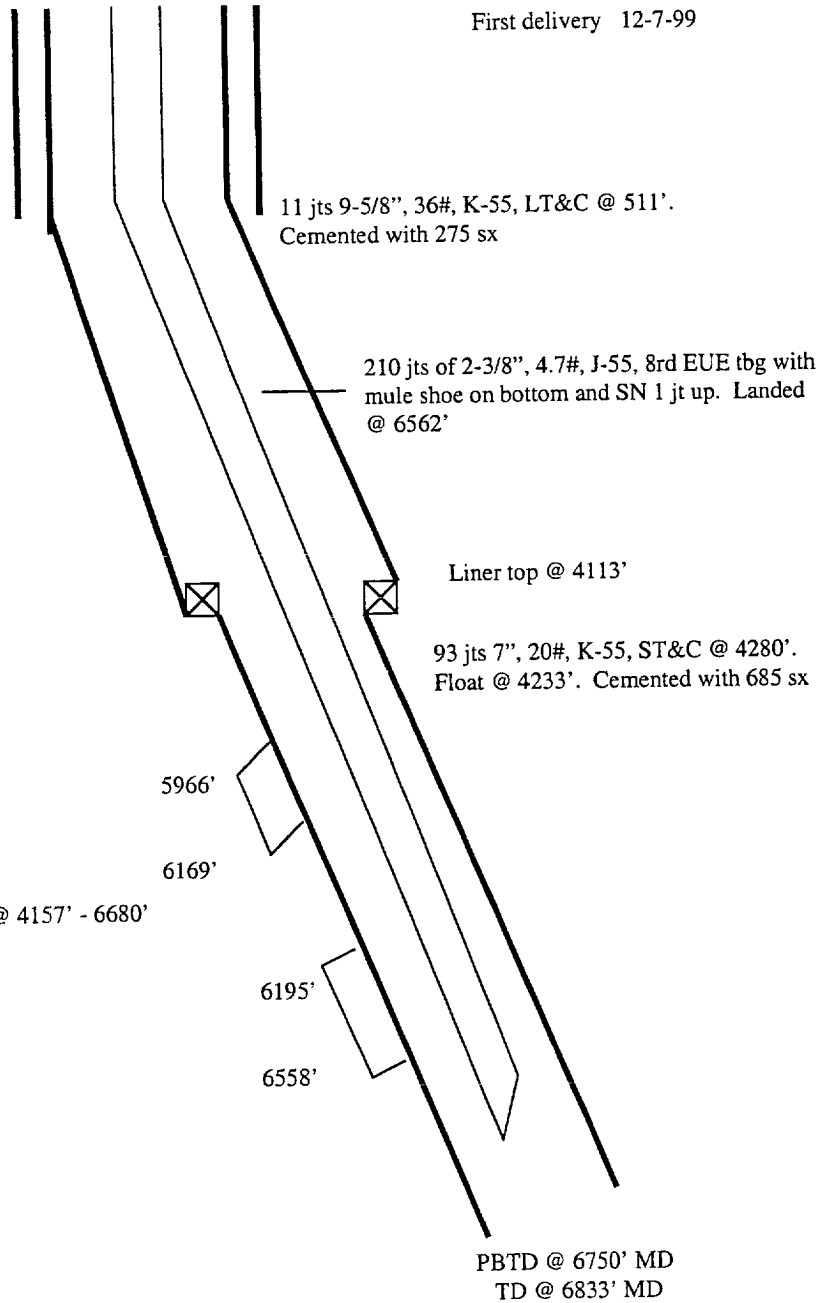
779' FNL and 958' FWL
SE/4 SE/4 Sec 10(P), 31N, 6W
Rio Arriba, NM

Elevation: 6267' GR

Spud 10-20-99

First delivery 12-7-99

Top	MD Depth
Pictured Cliffs	3724'
Lewis	4120'
Cliffhouse Ss.	6010'
Menefee	6056'
Point Lookout	6288'



Stimulation:

CH/Menefee: Frac with 80,000#
20/40 sand in 1955 bbl s slick water.
Total 22 (0.38") holes

Point Lookout: Frac with 80,000#
20/40 sand in 1982 bbls slick water.
Total 40 (0.38") holes

Hole Size	Casing	Cement	Volume	Top of Cmt
12-1/4"	36# K-55	275 sx	382 cu. ft.	Surface
8-3/4"	20# K-55	685 sx	1436 cu. ft.	Surface
6-1/4"	10.5# K-55	285 sx	413 cu. ft.	4113'

Customer : Williams Production Company

Well : Rosa #181A

Rig : Bearcat #2

Field : Mesa Verde

Legal : Sec. 15 – T31N – R06W

County : Rio Arriba

State : New Mexico

Calculation Method :

Magnetic Declination Applied :

Vertical Section Direction :

Minimum Curvature

11.302° East

352.534° Azimuth

Note : See attached SSDS Certified Survey Worksheet for all survey information as recorded in the field.

I, Craig Davis, having personal knowledge of all the facts, hereby certify that the above listed Directional Survey is true and correct as determined from all available Sperry-Sun Drilling Services records.

Craig E Davis

Directional Drilling Coordinator

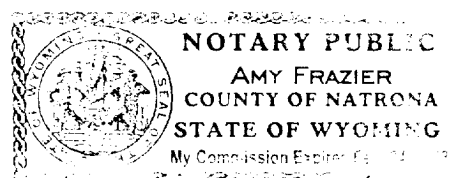
On this 18th day of Oct, 2000, before me personally appeared Craig Davis to me known as the person described in and who executed the same as his/her free act and deed.

Amy Frazier

Notary Public in and for the County of Natrona, State of Wyoming

2.24.03

My Commission Expires



Williams Production Company

200 OCT 19 AM 11:35
070 1111111111111111

**New Mexico
Rio Arriba County
Sec. 15-T31N-R06W
Rosa #181A - MWD Survey**

SURVEY REPORT

22 August, 2000

sperry-sun
DRILLING SERVICES
A Halliburton Company

Survey Ref: svy3247

Sperry-Sun Drilling Services

Survey Report for Rosa #181A - MWD Survey

Williams Production Company
New Mexico

Rio Arriba County
Sec. 15-T31N-R06W

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00	0.00
522.00	0.000	0.000	522.00	0.00 N	0.00 E	0.00	0.00
531.00	2.800	4.311	531.00	0.22 N	0.02 E	0.21	31.11
561.00	2.200	342.611	560.97	1.50 N	0.10 W	1.50	3.70
591.00	3.400	351.511	590.93	2.93 N	0.40 W	2.96	4.24
622.00	4.500	353.211	621.86	5.05 N	0.68 W	5.09	3.57
652.00	6.000	353.111	651.73	7.77 N	1.01 W	7.84	5.00
683.00	7.400	350.111	682.52	11.35 N	1.55 W	11.45	4.65
713.00	8.700	349.811	712.22	15.48 N	2.28 W	15.65	4.34
743.00	9.800	348.611	741.83	20.22 N	3.19 W	20.46	3.72
774.00	11.100	348.211	772.32	25.73 N	4.32 W	26.08	4.20
804.00	12.500	349.111	801.68	31.74 N	5.52 W	32.20	4.71
834.00	13.600	350.811	830.91	38.41 N	6.70 W	38.97	3.88
864.00	14.800	353.111	859.99	45.70 N	7.72 W	46.32	4.42
885.00	15.700	353.611	880.25	51.19 N	8.36 W	51.85	4.33
916.00	16.800	355.311	910.01	59.82 N	9.19 W	60.51	3.87
947.00	18.300	355.811	939.57	69.14 N	9.91 W	69.84	4.86
978.00	19.500	356.511	968.90	79.16 N	10.58 W	79.86	3.94
1010.00	20.500	355.011	998.97	90.07 N	11.40 W	90.78	3.51
1041.00	21.500	354.711	1027.91	101.13 N	12.39 W	101.88	3.24
1071.00	22.600	354.411	1055.71	112.35 N	13.46 W	113.13	3.69
1101.00	23.600	352.811	1083.31	124.04 N	14.77 W	124.90	3.94
1133.00	24.600	352.611	1112.52	137.00 N	16.43 W	137.96	3.14
1165.00	25.800	351.711	1141.47	150.50 N	18.29 W	151.59	3.94
1196.00	27.100	350.811	1169.23	164.15 N	20.39 W	165.39	4.39
1227.00	28.500	350.811	1196.65	178.42 N	22.70 W	179.85	4.52
1257.00	29.900	351.211	1222.83	192.87 N	24.99 W	194.48	4.71
1289.00	31.200	351.911	1250.39	208.96 N	27.37 W	210.74	4.21
1321.00	32.700	352.111	1277.54	225.73 N	29.73 W	227.68	4.70
1352.00	33.800	352.011	1303.47	242.57 N	32.07 W	244.67	3.55
1382.00	34.800	352.011	1328.25	259.31 N	34.42 W	261.58	3.33
1413.00	36.600	352.411	1353.42	277.23 N	36.87 W	279.67	5.86
1443.00	37.800	352.111	1377.32	295.20 N	39.32 W	297.80	4.05
1474.00	39.200	351.511	1401.58	314.30 N	42.07 W	317.10	4.67
1505.00	40.600	351.211	1425.36	333.96 N	45.05 W	336.98	4.56
1537.00	41.900	351.011	1449.42	354.81 N	48.32 W	358.08	4.08
1599.00	44.400	351.511	1494.65	396.71 N	54.75 W	400.47	4.07
1692.00	45.700	351.911	1560.35	461.84 N	64.24 W	466.29	1.43
1786.00	45.400	351.511	1626.18	528.24 N	73.91 W	533.39	0.44
1877.00	46.700	351.911	1689.33	593.07 N	83.36 W	598.90	1.46

Continued...

Sperry-Sun Drilling Services

Survey Report for Rosa #181A - MWD Survey

Williams Production Company
New Mexico

Rio Arriba County
Sec. 15-T31N-R06W

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
1969.00	46.100	351.711	1752.78	659.02 N	92.85 W	665.52	0.67
2060.00	45.900	350.711	1815.99	723.71 N	102.85 W	730.97	0.82
2153.00	46.500	353.311	1880.37	790.17 N	112.17 W	798.08	2.12
2246.00	46.500	353.611	1944.39	857.19 N	119.85 W	865.53	0.23
2340.00	46.000	353.311	2009.39	924.65 N	127.58 W	933.41	0.58
2431.00	45.400	353.811	2072.94	989.37 N	134.89 W	998.52	0.77
2553.00	46.100	352.111	2158.08	1076.09 N	145.61 W	1085.89	1.15
2647.00	45.400	351.911	2223.67	1142.77 N	154.96 W	1153.22	0.76
2740.00	44.200	351.211	2289.66	1207.59 N	164.58 W	1218.75	1.40
2832.00	45.900	351.211	2354.65	1271.93 N	174.52 W	1283.85	1.85
2923.00	46.000	350.911	2417.92	1336.54 N	184.69 W	1349.24	0.26
3017.00	45.900	351.411	2483.28	1403.30 N	195.07 W	1416.79	0.40
3080.00	44.300	351.711	2527.75	1447.44 N	201.62 W	1461.41	2.56
3143.00	41.600	352.211	2573.86	1489.94 N	207.63 W	1504.33	4.32
3203.00	39.300	352.811	2619.51	1528.53 N	212.71 W	1543.26	3.89
3263.00	37.100	352.211	2666.66	1565.31 N	217.54 W	1580.36	3.72
3325.00	34.400	353.111	2716.97	1601.24 N	222.17 W	1616.58	4.44
3388.00	32.000	352.611	2769.69	1635.46 N	226.46 W	1651.07	3.83
3478.00	30.500	354.011	2846.63	1681.83 N	231.91 W	1697.74	1.85
3571.00	27.100	351.511	2928.12	1726.27 N	237.50 W	1742.53	3.88
3665.00	25.400	351.411	3012.42	1767.38 N	243.67 W	1784.10	1.81
3729.00	26.400	352.611	3069.99	1795.06 N	247.55 W	1812.05	1.76
3822.00	27.700	352.611	3152.82	1837.00 N	252.99 W	1854.34	1.40
3916.00	25.900	350.311	3236.72	1878.91 N	259.26 W	1896.71	2.21
4009.00	23.900	348.611	3321.07	1917.40 N	266.40 W	1935.82	2.28
4102.00	19.700	349.611	3407.40	1951.31 N	272.95 W	1970.30	4.53
4223.00	13.700	347.111	3523.24	1985.37 N	279.83 W	2004.98	4.99
4275.00	11.500	347.111	3573.99	1996.42 N	282.36 W	2016.28	4.23
4359.00	8.250	345.611	3656.73	2010.43 N	285.72 W	2030.61	3.88
4677.00	13.750	347.611	3968.77	2069.48 N	299.51 W	2091.00	1.73
4997.00	11.000	25.611	4281.81	2134.27 N	294.47 W	2154.49	2.63
5278.00	6.000	61.611	4559.81	2165.47 N	269.93 W	2182.04	2.52
5785.00	3.750	120.611	5065.23	2169.63 N	232.32 W	2181.02	1.02
6833.00	3.250	173.611	6111.52	2122.64 N	199.51 W	2129.99	0.30

All data is in feet unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to Mean Sea Level. Northings and Eastings are relative to Well Head.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Well Head and calculated along an Azimuth of 352.145° (True).

Based upon Minimum Curvature type calculations, at a Measured Depth of 6833.00ft.,
The Bottom Hole Displacement is 2132.00ft., in the Direction of 354.630° (True).