

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

7. UNIT AGREEMENT NAME

ROSA UNIT

8. FARM OR LEASE NAME, WELL NO.

ROSA UNIT #181

9. API WELL NO.

30-039-26463

10. FIELD AND POOL, OR WILDCAT
BLANCO MV

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

SE/4 NE/4 SEC 10-31N-6W

12. COUNTY OR

RIO ARriba

13. STATE

NEW MEXICO

19. ELEVATION CASINGHEAD

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) 519-6254

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

At Surface: 2445' FSL & 1415' FWL

At top production interval reported below:

At total depth: 1763' FNL & 760' FEL

15. DATE

SPUDDED
08/15/2000

16. DATE T.D.

REACHED
08/25/2000

17. DATE COMPLETED (READY TO PRODUCE)

09/15/2000

14. PERMIT NO.

DATE ISSUED

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

6261' GR

20. TOTAL DEPTH, MD & TVD
6896' MD

21. PLUG, BACK T.D., MD & TVD
6800' 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 5576' - 6738'

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#	520'	12-1/4"	255 SX - SURFACE	
7" K-55	20#	4812'	8-3/4"	820 SX - SURFACE	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	4648'	6896'	280 SX		2-3/8"	6698'	

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

CH/Menefee: 5576', 78', 5840', 43', 5906', 08', 22', 24', 50', 65', 6055', 58', 6100', 37', 39', 58', 73', 77', 79', 95', 98', 6201', 05', 08', 12', 14', 17', 19', 23', 26', 93', 95', 97', 6307', 10' and 6313'. Total of 36 (0.38") holes
Point Lookout: 6410', 12', 15', 19', 22', 26', 29', 32', 36', 39', 42', 44', 53', 56', 63', 66', 70', 74', 77', 82', 86', 90', 94', 97', 6506', 09', 11', 23', 84', 6602', 05', 32', 37', 40', 60', 68', 78', 6710' and 38'. Total of 39 (0.38") holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5576'- 6313'	80,000# 20/40 Sand in 1964 BBIs slick water
6410'- 6738'	80,000# 20/40 Sand in 1974 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
9/21/00	3 hr	3/4"			398		
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
240	910				3,188		

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

Tracy Ross

TITLE Production Analyst

DATE October 6, 2000

ACCEPTED FOR RECORD

OCT 16 2000

FARMINGTON FIELD OFFICE
BY [Signature]

NMOCB

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
						TRUE VERTICAL DEPTH
FRUITLAND	3456'	3788'				
PICTURED CLIFFS	3788'	4164'				
LEWIS	4164'	6125'				
CLIFF HOUSE	6125'	6166'				
MENEFEE	6166'	6406'				
POINT LOOKOUT	6406'					

Customer : Williams Production Company

Well : Rosa #181

Rig : Bear Cat #2

Field : Mesa Verde

Legal : Sec. 11-T31N-R06W

County : Rio Arriba

State : New Mexico

Calculation Method :

Magnetic Declination Applied :

Vertical Section Direction :

Minimum Curvature

11.30° East

294.001° Azimuth

2000 OCT -4 AM 9:27

070 PRODUCTION, 11.1

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 Davis James R. Davidson P. E.
Directional Drilling Coordinator

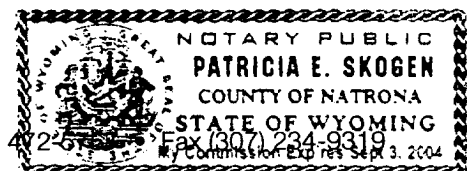
On this 2ND day of OCTOBER, 2000, before me personally appeared James R. Davidson to me known as the person described in and who executed the same as his/her free act and deed.

Patricia E. Skogen
Notary Public in and for the County of Natrona, State of Wyoming

SEPT. 3, 2004
My Commission Expires

7197 West Derrick Drive • Casper, Wyoming 82604 • (307) 472-5777

A Halliburton Company



**Bureau of Land Management – New Mexico
Farmington District Office
1235 LaPlata Highway
Suite A
Farmington, New Mexico
87401**

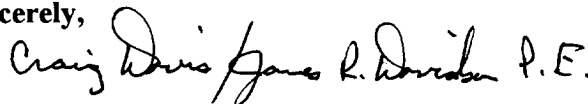
For the attention of : Jim Lavoto

Dear Sir,

Please find enclosed two (2) copies of our certified survey results on the well described below.

Customer : Williams Production Company
Well : Rosa #181
Rig : Bear Cat #2
Field : Mesa Verde
Legal : Sec. 11-T31N-R06W
County : Rio Arriba
State : New Mexico

Please feel free to call upon me at any time should you have any questions regarding the enclosed information.

Sincerely,


**Craig Davis
Directional Drilling Coordinator
7197 W. Derrick Drive
Casper, Wyoming 82604
(307) 472-5757**

For the attention of : Jim Lovato

Dear Sir,

Please find enclosed one (2) copies of our certified survey results on the well described below.

Customer : Williams Production Company

Well : Rosa #181

Rig : Bear Cat #2

Field : Mesa Verde

Legal : Sec. 11-T31N-R06W

County : Rio Arriba

State : New Mexico

Please feel free to call upon me at any time should you have any questions regarding the enclosed information.

Sincerely,

A handwritten signature in black ink that reads "Craig Davis" followed by "R. Davidson P.E." in a cursive script.

Craig Davis
Directional Drilling Coordinator

Section 1

Contents: Survey Data

Sperry-Sun Drilling Services

Survey Report for Rosa #181 - MWD Survey

Your Ref: Richard Oaks

Williams Production Company
Mesa Verde Field

Rio Arriba Co., NM
Sec. 11-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	
553.00	2.200	63.200	552.86	4.79 N	9.48 E	-6.71	0.40
583.00	2.100	88.900	582.84	5.06 N	10.54 E	-7.57	3.20
613.00	1.800	55.300	612.83	5.34 N	11.48 E	-8.31	3.88
643.00	1.700	34.600	642.81	5.97 N	12.12 E	-8.64	2.12
673.00	0.600	306.400	672.81	6.43 N	12.24 E	-8.57	5.95
704.00	2.600	304.300	703.79	6.92 N	11.53 E	-7.72	6.45
733.00	3.300	285.600	732.76	7.52 N	10.18 E	-6.25	4.07
764.00	5.800	300.800	763.66	8.56 N	7.98 E	-3.81	8.89
794.00	7.100	293.700	793.47	10.08 N	4.98 E	-0.45	5.08
825.00	8.600	290.000	824.18	11.64 N	1.05 E	3.78	5.10
855.00	9.600	275.400	853.80	12.65 N	3.55 W	8.39	8.36
886.00	10.500	275.100	884.33	13.14 N	8.94 W	13.51	2.91
948.00	14.400	278.600	944.86	14.80 N	22.20 W	26.29	6.40
978.00	15.100	281.400	973.87	16.13 N	29.71 W	33.70	3.33
1010.00	16.100	282.500	1004.69	17.91 N	38.13 W	42.12	3.26
1041.00	18.000	283.700	1034.33	19.98 N	46.98 W	51.05	6.23
1071.00	18.400	285.100	1062.83	22.31 N	56.06 W	60.28	1.98
1101.00	20.100	286.900	1091.15	25.04 N	65.56 W	70.08	6.00
1132.00	21.300	290.600	1120.15	28.57 N	75.93 W	80.99	5.72
1163.00	22.100	292.000	1148.95	32.73 N	86.61 W	92.43	3.07
1194.00	22.800	291.200	1177.60	37.09 N	97.61 W	104.26	2.46
1225.00	24.200	292.000	1206.03	41.64 N	109.11 W	116.61	4.63
1257.00	25.200	292.800	1235.10	46.74 N	121.47 W	129.98	3.29
1297.00	25.300	294.200	1271.28	53.54 N	137.11 W	147.04	1.51
1328.00	26.400	296.000	1299.18	59.28 N	149.35 W	160.55	4.36
1359.00	26.600	293.900	1326.92	65.11 N	161.89 W	174.38	3.09
1391.00	27.600	294.100	1355.41	71.04 N	175.21 W	188.96	3.14
1422.00	28.100	294.100	1382.82	76.96 N	188.43 W	203.44	1.61
1452.00	29.000	294.800	1409.17	82.89 N	201.48 W	217.78	3.20
1481.00	29.900	294.200	1434.42	88.80 N	214.45 W	232.03	3.27
1511.00	30.700	294.400	1460.32	95.03 N	228.25 W	247.17	2.69
1542.00	31.600	294.400	1486.85	101.66 N	242.85 W	263.20	2.90
1573.00	32.200	294.200	1513.17	108.40 N	257.78 W	279.58	1.97
1605.00	33.900	295.100	1539.99	115.68 N	273.64 W	297.03	5.53
1636.00	34.800	295.200	1565.59	123.11 N	289.47 W	314.52	2.91
1666.00	35.900	295.100	1590.05	130.49 N	305.19 W	331.88	3.67
1696.00	36.500	294.600	1614.26	137.94 N	321.26 W	349.59	2.23
1727.00	37.400	294.200	1639.04	145.63 N	338.23 W	368.23	3.01
1757.00	38.500	294.100	1662.69	153.18 N	355.07 W	386.67	3.67

Continued...

Sperry-Sun Drilling Services

Survey Report for Rosa #181 - MWD Survey

Your Ref: Richard Oaks

Williams Production Company
Mesa Verde Field

Rio Arriba Co., NM
Sec. 11-T31N-R06W

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
1787.00	39.600	293.700	1685.99	160.84 N	372.35 W	405.57	3.76
1818.00	40.200	294.100	1709.77	168.89 N	390.53 W	425.46	2.11
1850.00	41.500	294.800	1733.98	177.56 N	409.58 W	446.39	4.31
1881.00	42.400	294.600	1757.03	186.22 N	428.41 W	467.11	2.94
1912.00	43.300	295.600	1779.76	195.16 N	447.50 W	488.19	3.64
1964.00	44.500	295.600	1817.23	210.74 N	480.01 W	524.23	2.31
2024.00	45.900	295.800	1859.51	229.20 N	518.37 W	566.78	2.35
2087.00	47.700	296.000	1902.63	249.26 N	559.68 W	612.68	2.87
2149.00	48.200	295.100	1944.16	269.12 N	601.22 W	658.70	1.35
2210.00	48.300	294.800	1984.78	288.32 N	642.48 W	704.21	0.40
2274.00	49.000	294.900	2027.06	308.51 N	686.08 W	752.24	1.10
2336.00	48.200	294.900	2068.06	328.09 N	728.26 W	798.74	1.29
2399.00	46.400	294.400	2110.78	347.40 N	770.34 W	845.04	2.92
2461.00	46.600	294.200	2153.46	365.91 N	811.33 W	890.01	0.40
2553.00	46.900	293.500	2216.50	393.00 N	872.61 W	957.02	0.64
2616.00	46.700	293.400	2259.62	411.28 N	914.75 W	1002.94	0.34
2710.00	47.400	293.700	2323.67	438.77 N	977.82 W	1071.74	0.78
2804.00	46.200	294.100	2388.02	466.53 N	1040.47 W	1140.27	1.31
2899.00	47.400	293.700	2453.05	494.58 N	1103.78 W	1209.52	1.30
2991.00	46.300	295.600	2515.97	522.56 N	1164.78 W	1276.62	1.92
3084.00	45.700	294.800	2580.57	551.05 N	1225.31 W	1343.51	0.89
3178.00	47.500	295.300	2645.16	579.97 N	1287.18 W	1411.79	1.95
3271.00	46.100	295.500	2708.82	609.04 N	1348.42 W	1479.56	1.51
3364.00	46.900	294.400	2772.84	637.50 N	1409.58 W	1547.01	1.21
3455.00	47.500	293.700	2834.66	664.70 N	1470.55 W	1613.78	0.87
3550.00	46.100	294.100	2899.70	692.76 N	1533.87 W	1683.03	1.51
3613.00	46.500	294.400	2943.22	711.47 N	1575.40 W	1728.57	0.72
3644.00	46.300	294.600	2964.60	720.77 N	1595.82 W	1751.02	0.80
3704.00	46.000	293.800	3006.17	738.51 N	1635.29 W	1794.29	1.08
3767.00	43.300	293.000	3050.98	756.10 N	1675.92 W	1838.56	4.38
3828.00	42.100	294.600	3095.81	772.79 N	1713.76 W	1879.92	2.65
3921.00	37.400	293.500	3167.29	797.04 N	1768.04 W	1939.37	5.11
4013.00	33.000	292.700	3242.45	817.86 N	1816.80 W	1992.38	4.81
4134.00	29.200	294.600	3346.05	842.87 N	1874.06 W	2054.86	3.24
4228.00	26.900	292.100	3429.00	860.42 N	1914.62 W	2099.05	2.75
4321.00	25.800	294.600	3512.34	876.76 N	1952.51 W	2140.32	1.68
4416.00	22.800	296.200	3598.91	893.50 N	1987.83 W	2179.39	3.23
4509.00	18.800	295.100	3685.84	907.82 N	2017.58 W	2212.40	4.32
4600.00	14.800	296.700	3772.93	919.26 N	2041.25 W	2238.68	4.42
4692.00	12.600	297.800	3862.31	929.22 N	2060.63 W	2260.43	2.41

Continued...

Sperry-Sun Drilling Services

Survey Report for Rosa #181 - MWD Survey

Your Ref: Richard Oaks

Williams Production Company
Mesa Verde Field

Rio Arriba Co., NM
Sec. 11-T31N-R06W

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
4764.00	11.200	300.000	3932.76	936.38 N	2073.63 W	2275.22	2.04
4812.00	11.200	302.000	3979.85	941.18 N	2081.62 W	2284.47	0.81
4892.00	10.750	311.000	4058.39	950.20 N	2093.85 W	2299.30	2.21
5209.00	9.750	304.000	4370.34	984.61 N	2138.41 W	2354.01	0.50
5528.00	5.000	341.000	4686.77	1012.88 N	2165.36 W	2390.13	2.03
6164.00	2.000	351.000	5321.51	1050.06 N	2176.12 W	2415.09	0.48
6834.00	1.500	16.000	5991.21	1070.04 N	2175.54 W	2422.68	0.13
6896.00	1.500	16.000	6053.19	1071.60 N	2175.09 W	2422.90	0.00

All data is in feet unless otherwise stated. Directions and coordinates are relative to True North. Vertical depths are relative to Well Head. 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 294.001° (True).

Based upon Minimum Curvature type calculations, at a Measured Depth of 6896.00ft., The Bottom Hole Displacement is 2424.73ft., in the Direction of 296.228° (True).

Comments

Measured Depth (ft)	Station Coordinates			Comment
	TVD (ft)	Northings (ft)	Eastings (ft)	
4812.00	3979.85	941.18 N	2081.62 W	Extrapolated Survey To The Bit.
6896.00	6053.19	1071.60 N	2175.09 W	Extrapolated Survey To The Bit.