



BHL 819' N, 1778' W, Sec 20, T31N, R 5W

NOTARY PUBLIC
PATRICIA E. SKOGEN
COUNTY OF NATRONA
STATE OF WYOMING
My Commission Expires Sept. 3, 2004

sperry-sun
DRILLING SERVICES

**New Mexico Oil Conservation
Oil & Gas Division
1000 Rio Brazos Road
Aztec, New Mexico
87410**

For the attention of : Frank Chavez

Dear Sir,

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

Customer : Williams Production Company

Well : Rosa #85A

Rig : Aztec Well Service #124

Field : Mesa Verde

Legal : Sec. 20-T31N-R05W

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 :

Dear Sir,

Please find enclosed one (1) copy of our certified survey results on the well described below.

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Sincerely,

Craig Davis / James R. Dondan P.E.

Craig Davis
Directional Drilling Coordinator

Section 1

Survey Data

Contents: Final Well Survey submitted as the official certified survey.

Sperry-Sun Drilling Services

Survey Report for Rosa #85A - MWD Survey

Your Ref: Richard Oaks

Williams Production Company
Mesa Verde Field

Rio Arriba Co., NM
Rosa #85A

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	
348.00	0.600	55.700	347.99	1.03 N	1.51 E	-1.38	0.17
379.00	1.200	199.400	378.99	0.81 N	1.53 E	-1.43	5.55
409.00	0.800	301.200	408.99	0.62 N	1.25 E	-1.17	5.24
439.00	1.600	299.500	438.98	0.94 N	0.70 E	-0.59	2.67
469.00	2.800	264.200	468.96	1.07 N	0.39 W	0.51	5.86
500.00	4.300	266.200	499.90	0.92 N	2.30 W	2.39	4.85
530.00	5.700	273.400	529.79	0.93 N	4.91 W	4.99	5.11
560.00	5.700	277.000	559.64	1.20 N	7.88 W	7.96	1.19
590.00	7.100	275.400	589.45	1.56 N	11.20 W	11.31	4.70
620.00	7.600	280.200	619.20	2.08 N	15.00 W	15.14	2.64
650.00	9.000	281.900	648.89	2.92 N	19.25 W	19.46	4.74
681.00	9.500	281.400	679.49	3.92 N	24.13 W	24.42	1.63
711.00	10.300	278.400	709.04	4.81 N	29.21 W	29.57	3.17
742.00	11.000	277.700	739.50	5.61 N	34.88 W	35.30	2.30
772.00	12.200	277.500	768.89	6.40 N	40.86 W	41.33	4.00
802.00	12.600	279.600	798.19	7.36 N	47.23 W	47.76	2.01
833.00	14.200	279.800	828.35	8.57 N	54.31 W	54.94	5.16
863.00	15.200	276.000	857.36	9.61 N	61.85 W	62.54	4.63
893.00	15.800	276.000	886.27	10.45 N	69.82 W	70.56	2.00
923.00	16.500	277.900	915.09	11.46 N	78.10 W	78.90	2.92
954.00	17.600	276.500	944.73	12.60 N	87.12 W	87.99	3.79
988.00	18.400	276.500	977.06	13.79 N	97.56 W	98.50	2.35
1018.00	19.200	275.400	1005.46	14.79 N	107.18 W	108.17	2.92
1110.00	22.300	276.600	1091.48	18.22 N	139.58 W	140.75	3.40
1204.00	23.000	274.700	1178.24	21.77 N	175.60 W	176.94	1.08
1298.00	23.100	274.500	1264.73	24.72 N	212.29 W	213.73	0.14
1391.00	22.900	275.100	1350.34	27.76 N	248.50 W	250.04	0.33
1484.00	23.300	276.200	1435.88	31.36 N	284.81 W	286.53	0.63
1573.00	23.500	277.200	1517.56	35.48 N	319.91 W	321.87	0.50
1666.00	24.100	277.500	1602.65	40.29 N	357.13 W	359.40	0.66
1757.00	23.400	276.800	1685.95	44.85 N	393.50 W	396.04	0.83
1853.00	23.600	273.300	1773.99	48.21 N	431.61 W	434.29	1.47
1947.00	23.600	277.400	1860.13	51.72 N	469.06 W	471.90	1.75
2039.00	23.300	276.500	1944.53	56.15 N	505.40 W	508.51	0.51
2132.00	23.500	276.300	2029.88	60.27 N	542.11 W	545.44	0.23
2224.00	23.900	276.800	2114.13	64.49 N	578.84 W	582.42	0.49
2317.00	25.000	280.000	2198.79	70.13 N	616.91 W	620.88	1.85
2410.00	24.700	276.500	2283.18	75.75 N	655.57 W	659.93	1.61
2504.00	24.000	278.900	2368.82	80.93 N	693.97 W	698.67	1.29

Continued...

Sperry-Sun Drilling Services

Survey Report for Rosa #85A - MWD Survey

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Williams Production Company
Mesa Verde Field

Rio Arriba Co., NM
Rosa #85A

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
2598.00	23.500	278.100	2454.86	86.52 N	731.41 W	736.51	0.63
2693.00	23.600	277.000	2541.95	91.51 N	769.04 W	774.46	0.47
2786.00	23.400	278.200	2627.24	96.41 N	805.79 W	811.53	0.56
2879.00	23.500	274.000	2712.56	100.34 N	842.57 W	848.52	1.80
2973.00	23.500	271.900	2798.77	102.27 N	880.00 W	885.92	0.89
3035.00	22.800	271.200	2855.77	102.93 N	904.36 W	910.20	1.21
3128.00	23.700	272.300	2941.22	104.06 N	941.05 W	946.78	1.07
3223.00	24.200	276.500	3028.05	107.03 N	979.48 W	985.29	1.87
3315.00	24.300	275.100	3111.93	110.85 N	1017.07 W	1023.07	0.63
3409.00	24.200	276.100	3197.64	114.61 N	1055.49 W	1061.67	0.45
3503.00	23.900	277.400	3283.48	119.11 N	1093.53 W	1099.98	0.65
3597.00	23.000	278.900	3369.71	124.41 N	1130.56 W	1137.37	1.15
3689.00	23.300	280.500	3454.30	130.50 N	1166.21 W	1173.48	0.76
3783.00	24.300	277.900	3540.31	136.55 N	1203.65 W	1211.37	1.54
3874.00	23.500	277.700	3623.51	141.56 N	1240.17 W	1248.23	0.88
3968.00	25.100	275.600	3709.18	146.01 N	1278.59 W	1286.90	1.93
4061.00	23.100	276.600	3794.07	150.03 N	1316.35 W	1324.87	2.19
4154.00	20.900	277.000	3880.29	154.15 N	1350.94 W	1359.71	2.37
4248.00	19.700	278.600	3968.45	158.57 N	1383.25 W	1392.31	1.41
4341.00	17.700	281.800	4056.54	163.80 N	1412.59 W	1422.06	2.42
4436.00	16.200	280.400	4147.41	169.15 N	1439.76 W	1449.66	1.64
4530.00	16.300	295.100	4237.70	177.11 N	1464.62 W	1475.27	4.37
4624.00	15.700	297.700	4328.05	188.62 N	1487.82 W	1499.64	0.99
4754.00	18.000	309.000	4452.50	209.45 N	1519.02 W	1533.03	3.07
4975.00	19.500	318.000	4661.81	258.36 N	1570.25 W	1589.55	1.47
5101.00	18.250	319.000	4781.03	288.88 N	1597.27 W	1619.89	1.02
5353.00	9.500	324.000	5025.45	335.58 N	1635.45 W	1663.20	3.50
5859.00	1.250	6.000	5528.87	374.92 N	1659.47 W	1691.57	1.70
6638.00	2.250	189.000	6307.72	368.27 N	1660.97 W	1692.30	0.45
6702.00	2.250	189.000	6371.67	365.78 N	1661.36 W	1692.41	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 NE corner of Sec. 20.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Well Head and calculated along an Azimuth of 276.604° (True).

Based upon Minimum Curvature type calculations, at a Measured Depth of 6702.00ft.,
The Bottom Hole Displacement is 1701.16ft., in the Direction of 282.417° (True).