

Sperry-Sun
DRILLING SERVICES

End of Well Report

Handwritten: 
11-9-07

Rosa Unit #185-B

30-045-32734

Surface 1725/N 2155/W
BIT 1893/S 1931/W

Williams Production Company

RCVD NOV 8 '07
OIL CONS. DIV.
DIST. 3

7/14/2005

"As Drilled" plat attached

Handwritten: 8

HALLIBURTON

9800 W RENO • OKLA CITY, OK 73127
PHONE 405.324.2222 • FAX 405.324.1009

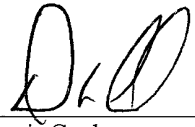
July 18, 2005

Re: Williams Production Co.
Rosa Unit #185-B
Sec. 16-T31N-R06W
Rio Arriba County, New Mexico

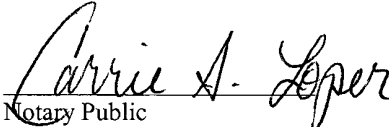
Enclosed please find the original and one copy of the surveys performed on the referenced well by Halliburton/Sperry Drilling Services.

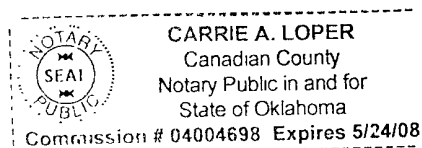
<u>Name & Title of Supervisor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Dennis Cook Field Supervisor	Original	567' – 4,605'	06/13/05 – 06/26/05	MWD
Dennis Cook Field Supervisor	Projection to TD	4,605' – 8,300'		MWD

If any other information is required, please contact the undersigned at the letterhead address and phone number.


Dennis Cook
Field Supervisor

My Commission Expires: 5/24/08


Notary Public





**Williams Production Company
New Mexico
San Juan County
Sec. 16-T31N-R06W
Rosa Unit # 185B - MWD Survey**

Halliburton Sperry-Drilling Survey Report

12 July, 2005

Surface Coordinates: 2147875.28 N, 606478.46 E (36° 54' 07.9914" N, 107° 28' 08.9996" W)
Grid Coordinate System: NAD27 New Mexico State Planes, Western Zone

Surface Coordinates relative to Global Coordinates: 146532.63 N, 179957.54 E (Grid)
Surface Coordinates relative to NE Corner of Sec. 16: 1725.00 S, 2155.00 E (True)
Kelly Bushing Elevation: 6442.00ft above Mean Sea Level
Kelly Bushing Elevation: 17.00ft below Ground Level

Survey Ref: svy9062

HALLIBURTON

Sperry Drilling Services

Survey Report for Sec. 16-T31N-R06W - Rosa Unit # 185B - MWD Survey

Measure Depth (ft)	Incl. Angle (Deg)	Drift Direction (Deg)	True Vertical Depth	Vertical Section (ft)	Local Coordinates		Dogleg Severit (°/100ft)	Lease Calls		Global Coordinates	
					N-S (ft)	E-W (ft)		FNL-FSL (ft)	FEL-FWL (ft)	Grid Y (ft)	Grid X (ft)
0.00	0.000	0.000	0.00	0.00	0.00 N	0.00 E		1725.00 FNL	2155.00 FWL	2147875.28 N	606478.46 E
567.00	3.970	167.150	566.55	18.52	19.14 S	4.37 E	0.70	1744.14 FNL	2159.37 FWL	2147856.15 N	606482.90 E
598.00	3.960	166.830	597.47	20.54	21.23 S	4.85 E	0.08	1746.23 FNL	2159.85 FWL	2147854.07 N	606483.39 E
628.00	4.750	171.400	627.39	22.72	23.47 S	5.27 E	2.87	1748.47 FNL	2160.27 FWL	2147851.83 N	606483.82 E
659.00	5.100	174.390	658.27	25.31	26.11 S	5.60 E	1.40	1751.11 FNL	2160.60 FWL	2147849.19 N	606484.15 E
690.00	5.980	177.730	689.13	28.25	29.09 S	5.80 E	3.02	1754.09 FNL	2160.80 FWL	2147846.21 N	606484.36 E
721.00	7.120	181.770	719.92	31.76	32.63 S	5.80 E	3.96	1757.63 FNL	2160.80 FWL	2147842.67 N	606484.38 E
752.00	8.350	182.300	750.64	35.92	36.80 S	5.65 E	3.97	1761.80 FNL	2160.65 FWL	2147838.50 N	606484.25 E
782.00	9.760	181.520	780.27	40.62	41.52 S	5.50 E	4.72	1766.52 FNL	2160.50 FWL	2147833.79 N	606484.11 E
813.00	10.630	182.220	810.78	46.09	47.00 S	5.32 E	2.83	1772.00 FNL	2160.32 FWL	2147828.30 N	606483.95 E
844.00	11.640	182.050	841.19	52.06	52.98 S	5.10 E	3.26	1777.98 FNL	2160.10 FWL	2147822.32 N	606483.75 E
874.00	12.440	183.490	870.53	58.31	59.23 S	4.79 E	2.85	1784.23 FNL	2159.79 FWL	2147816.07 N	606483.47 E
904.00	12.870	185.960	899.80	64.87	65.78 S	4.25 E	2.30	1790.78 FNL	2159.25 FWL	2147809.52 N	606482.95 E
933.00	13.410	188.060	928.04	71.47	72.32 S	3.44 E	2.49	1797.32 FNL	2158.44 FWL	2147802.97 N	606482.17 E
964.00	14.050	190.720	958.16	78.81	79.58 S	2.24 E	2.90	1804.58 FNL	2157.24 FWL	2147795.71 N	606480.99 E
995.00	15.570	191.270	988.13	86.71	87.36 S	0.73 E	4.92	1812.36 FNL	2155.73 FWL	2147787.93 N	606479.51 E
1025.00	16.700	192.140	1016.95	95.01	95.52 S	0.97 W	3.85	1820.52 FNL	2154.03 FWL	2147779.76 N	606477.85 E
1056.00	17.930	191.260	1046.54	104.20	104.56 S	2.83 W	4.06	1829.56 FNL	2152.17 FWL	2147770.72 N	606476.01 E
1087.00	19.250	190.740	1075.92	114.05	114.26 S	4.72 W	4.29	1839.26 FNL	2150.28 FWL	2147761.01 N	606474.17 E
1118.00	20.130	189.510	1105.11	124.48	124.54 S	6.55 W	3.14	1849.54 FNL	2148.45 FWL	2147750.72 N	606472.37 E
1148.00	21.270	189.330	1133.17	135.07	135.00 S	8.28 W	3.81	1860.00 FNL	2146.72 FWL	2147740.25 N	606470.68 E
1181.00	21.880	190.030	1163.86	147.18	146.96 S	10.32 W	2.01	1871.96 FNL	2144.68 FWL	2147728.28 N	606468.68 E
1212.00	21.970	191.090	1192.62	158.73	158.34 S	12.44 W	1.31	1883.34 FNL	2142.56 FWL	2147716.89 N	606466.60 E
1243.00	22.850	191.090	1221.28	170.51	169.94 S	14.72 W	2.84	1894.94 FNL	2140.28 FWL	2147705.29 N	606464.37 E
1275.00	24.260	189.860	1250.61	183.27	182.51 S	17.04 W	4.67	1907.51 FNL	2137.96 FWL	2147692.71 N	606462.10 E

Measure Depth (ft)	Incl. Angle (Deg)	Drift Direction (Deg)	True Vertical Depth	Vertical Section (ft)	Local Coordinates		Dogleg Severit (°/100ft)	Lease Calls		Global Coordinates	
					N-S (ft)	E-W (ft)		FNL-FSL (ft)	FEL-FWL (ft)	Grid Y (ft)	Grid X (ft)
1305.00	25.800	189.410	1277.79	195.94	195.03 S	19.16 W	5.17	1920.03 FNL	2135.84 FWL	2147680.18 N	606460.03 E
1336.00	26.960	189.470	1305.56	209.70	208.61 S	21.42 W	3.74	1933.61 FNL	2133.58 FWL	2147666.59 N	606457.82 E
1368.00	28.130	188.920	1333.94	224.48	223.22 S	23.78 W	3.74	1948.22 FNL	2131.22 FWL	2147651.97 N	606455.51 E
1399.00	29.200	188.220	1361.14	239.34	237.93 S	25.99 W	3.62	1962.93 FNL	2129.01 FWL	2147637.26 N	606453.35 E
1431.00	29.180	188.440	1389.07	254.94	253.37 S	28.25 W	0.34	1978.37 FNL	2126.75 FWL	2147621.81 N	606451.15 E
1462.00	29.740	187.880	1416.06	270.18	268.46 S	30.41 W	2.01	1993.46 FNL	2124.59 FWL	2147606.71 N	606449.05 E
1494.00	30.590	187.570	1443.73	286.25	284.39 S	32.57 W	2.70	2009.39 FNL	2122.43 FWL	2147590.77 N	606446.95 E
1525.00	30.640	187.690	1470.41	302.04	300.04 S	34.67 W	0.25	2025.04 FNL	2120.33 FWL	2147575.11 N	606444.91 E
1557.00	29.970	188.100	1498.04	318.18	316.04 S	36.89 W	2.19	2041.04 FNL	2118.11 FWL	2147559.11 N	606442.75 E
1588.00	29.260	187.280	1524.99	333.50	331.22 S	38.93 W	2.64	2056.22 FNL	2116.07 FWL	2147543.92 N	606440.76 E
1619.00	29.220	186.300	1552.04	348.64	346.25 S	40.72 W	1.55	2071.25 FNL	2114.28 FWL	2147528.88 N	606439.03 E
1651.00	29.800	186.420	1579.88	364.40	361.92 S	42.47 W	1.82	2086.92 FNL	2112.53 FWL	2147513.21 N	606437.34 E
1680.00	30.290	185.830	1604.99	378.92	376.36 S	44.02 W	1.97	2101.36 FNL	2110.98 FWL	2147498.76 N	606435.85 E
1712.00	29.610	185.130	1632.71	394.89	392.26 S	45.54 W	2.39	2117.26 FNL	2109.46 FWL	2147482.85 N	606434.38 E
1743.00	28.830	185.640	1659.77	410.02	407.32 S	46.96 W	2.64	2132.32 FNL	2108.04 FWL	2147467.78 N	606433.02 E
1775.00	28.560	185.290	1687.84	425.38	422.62 S	48.42 W	0.99	2147.62 FNL	2106.58 FWL	2147452.48 N	606431.61 E
1806.00	29.090	185.990	1715.00	440.33	437.49 S	49.89 W	2.03	2162.49 FNL	2105.11 FWL	2147437.60 N	606430.20 E
1838.00	29.360	185.810	1742.93	455.95	453.03 S	51.50 W	0.89	2178.03 FNL	2103.50 FWL	2147422.06 N	606428.65 E
1869.00	29.090	186.340	1769.98	471.09	468.08 S	53.10 W	1.21	2193.08 FNL	2101.90 FWL	2147407.00 N	606427.11 E
1901.00	29.290	187.050	1797.92	486.69	483.58 S	54.91 W	1.25	2208.58 FNL	2100.09 FWL	2147391.49 N	606425.35 E
1932.00	29.360	187.400	1824.94	501.87	498.65 S	56.82 W	0.60	2223.65 FNL	2098.18 FWL	2147376.43 N	606423.50 E
1964.00	29.880	187.920	1852.76	517.69	514.32 S	58.93 W	1.81	2239.32 FNL	2096.07 FWL	2147360.74 N	606421.45 E
1994.00	31.200	188.450	1878.60	532.92	529.41 S	61.10 W	4.49	2254.41 FNL	2093.90 FWL	2147345.65 N	606419.34 E
2026.00	30.660	189.110	1906.05	549.36	545.66 S	63.61 W	1.99	2270.66 FNL	2091.39 FWL	2147329.38 N	606416.89 E
2057.00	29.850	189.230	1932.83	564.96	561.08 S	66.10 W	2.62	2286.08 FNL	2088.90 FWL	2147313.95 N	606414.46 E
2089.00	29.440	189.330	1960.64	580.77	576.71 S	68.65 W	1.29	2301.71 FNL	2086.35 FWL	2147298.32 N	606411.96 E
2120.00	29.180	188.800	1987.67	595.93	591.69 S	71.04 W	1.18	2316.69 FNL	2083.96 FWL	2147283.33 N	606409.63 E
2152.00	28.740	188.100	2015.67	611.42	607.02 S	73.31 W	1.74	2332.02 FNL	2081.69 FWL	2147267.99 N	606407.41 E
2184.00	28.920	187.220	2043.70	626.84	622.31 S	75.37 W	1.44	2347.31 FNL	2079.63 FWL	2147252.69 N	606405.41 E
2215.00	29.620	186.690	2070.74	642.00	637.36 S	77.20 W	2.41	2362.36 FNL	2077.80 FWL	2147237.64 N	606403.64 E

Measure Depth (ft)	Incl. Angle (Deg)	Drift Direction (Deg)	True Vertical Depth	Vertical Section (ft)	Local Coordinates		Dogleg Severit (°/100ft)	Lease Calls		Global Coordinates	
					N-S (ft)	E-W (ft)		FNL-FSL (ft)	FEL-FWL (ft)	Grid Y (ft)	Grid X (ft)
2247.00	29.530	186.170	2098.57	657.79	653.05 S	78.97 W	0.85	2378.05 FNL	2076.03 FWL	2147221.94 N	606401.93 E
2278.00	29.090	186.170	2125.61	672.97	668.14 S	80.60 W	1.42	2393.14 FNL	2074.40 FWL	2147206.85 N	606400.35 E
2309.00	29.270	185.810	2152.67	688.08	683.17 S	82.18 W	0.81	2408.17 FNL	2072.82 FWL	2147191.81 N	606398.83 E
2341.00	29.270	186.170	2180.59	703.73	698.73 S	83.81 W	0.55	2423.73 FNL	2071.19 FWL	2147176.24 N	606397.26 E
2372.00	29.710	186.170	2207.57	718.99	713.90 S	85.45 W	1.42	2438.90 FNL	2069.55 FWL	2147161.06 N	606395.68 E
2403.00	29.830	186.270	2234.48	734.38	729.20 S	87.11 W	0.42	2454.20 FNL	2067.89 FWL	2147145.76 N	606394.07 E
2434.00	29.790	185.460	2261.38	749.79	744.53 S	88.69 W	1.31	2469.53 FNL	2066.31 FWL	2147130.42 N	606392.55 E
2466.00	29.620	184.760	2289.17	765.64	760.33 S	90.10 W	1.21	2485.33 FNL	2064.90 FWL	2147114.62 N	606391.20 E
2497.00	28.920	184.410	2316.21	780.79	775.44 S	91.31 W	2.32	2500.44 FNL	2063.69 FWL	2147099.51 N	606390.05 E
2529.00	28.300	183.350	2344.31	796.09	790.72 S	92.35 W	2.50	2515.72 FNL	2062.65 FWL	2147084.22 N	606389.07 E
2560.00	28.990	182.410	2371.51	810.93	805.56 S	93.09 W	2.66	2530.56 FNL	2061.91 FWL	2147069.37 N	606388.38 E
2623.00	30.190	182.570	2426.29	841.96	836.64 S	94.44 W	1.91	2561.64 FNL	2060.56 FWL	2147038.29 N	606387.14 E
2655.00	30.420	181.800	2453.92	858.06	852.78 S	95.05 W	1.41	2577.78 FNL	2059.95 FWL	2147022.15 N	606386.59 E
2686.00	30.240	181.340	2480.68	873.65	868.43 S	95.48 W	0.95	2593.43 FNL	2059.52 FWL	2147006.50 N	606386.22 E
2715.00	29.730	181.370	2505.80	888.09	882.92 S	95.82 W	1.76	2607.92 FNL	2059.18 FWL	2146992.01 N	606385.93 E
2747.00	29.270	181.070	2533.65	903.78	898.67 S	96.16 W	1.51	2623.67 FNL	2058.84 FWL	2146976.26 N	606385.66 E
2778.00	28.560	181.950	2560.78	918.71	913.65 S	96.55 W	2.67	2638.65 FNL	2058.45 FWL	2146961.27 N	606385.32 E
2810.00	28.300	183.000	2588.93	933.90	928.87 S	97.21 W	1.76	2653.87 FNL	2057.79 FWL	2146946.05 N	606384.72 E
2841.00	28.120	182.650	2616.24	948.53	943.51 S	97.93 W	0.79	2668.51 FNL	2057.07 FWL	2146931.41 N	606384.06 E
2873.00	27.690	183.350	2644.52	963.48	958.47 S	98.71 W	1.69	2683.47 FNL	2056.29 FWL	2146916.45 N	606383.33 E
2905.00	26.970	185.340	2672.95	978.15	973.11 S	99.82 W	3.63	2698.11 FNL	2055.18 FWL	2146901.80 N	606382.28 E
2936.00	27.010	185.880	2700.57	992.22	987.11 S	101.19 W	0.80	2712.11 FNL	2053.81 FWL	2146887.79 N	606380.95 E
2967.00	27.350	186.970	2728.15	1006.38	1001.19 S	102.78 W	1.94	2726.19 FNL	2052.22 FWL	2146873.72 N	606379.42 E
2999.00	26.910	187.250	2756.63	1020.97	1015.67 S	104.58 W	1.43	2740.67 FNL	2050.42 FWL	2146859.23 N	606377.67 E
3030.00	26.710	188.090	2784.30	1034.95	1029.52 S	106.45 W	1.38	2754.52 FNL	2048.55 FWL	2146845.37 N	606375.86 E
3062.00	26.250	187.540	2812.94	1049.22	1043.66 S	108.39 W	1.63	2768.66 FNL	2046.61 FWL	2146831.22 N	606373.97 E
3093.00	27.000	188.110	2840.65	1063.11	1057.42 S	110.28 W	2.56	2782.42 FNL	2044.72 FWL	2146817.45 N	606372.13 E
3125.00	27.380	187.630	2869.12	1077.72	1071.91 S	112.28 W	1.37	2796.91 FNL	2042.72 FWL	2146802.96 N	606370.19 E
3156.00	27.160	187.750	2896.67	1091.92	1085.98 S	114.18 W	0.73	2810.98 FNL	2040.82 FWL	2146788.88 N	606368.34 E
3188.00	26.450	187.220	2925.23	1106.35	1100.29 S	116.06 W	2.34	2825.29 FNL	2038.94 FWL	2146774.57 N	606366.51 E

Measure Depth (ft)	Incl. Angle (Deg)	Drift Direction (Deg)	True Vertical Depth	Vertical Section (ft)	Local Coordinates		Dogleg Severit (°/100ft)	Lease Calls		Global Coordinates	
					N-S (ft)	E-W (ft)		FNL-FSL (ft)	FEL-FWL (ft)	Grid Y (ft)	Grid X (ft)
3219.00	26.280	186.870	2953.01	1120.12	1113.95 S	117.75 W	0.74	2838.95 FNL	2037.25 FWL	2146760.90 N	606364.88 E
3251.00	26.810	186.520	2981.64	1134.42	1128.16 S	119.41 W	1.73	2853.16 FNL	2035.59 FWL	2146746.69 N	606363.26 E
3283.00	26.720	187.570	3010.21	1148.83	1142.46 S	121.18 W	1.50	2867.46 FNL	2033.82 FWL	2146732.38 N	606361.55 E
3314.00	26.790	188.450	3037.89	1162.78	1156.28 S	123.12 W	1.30	2881.28 FNL	2031.88 FWL	2146718.55 N	606359.66 E
3346.00	26.980	188.630	3066.43	1177.24	1170.59 S	125.27 W	0.65	2895.59 FNL	2029.73 FWL	2146704.23 N	606357.57 E
3377.00	26.840	189.440	3094.07	1191.26	1184.44 S	127.47 W	1.27	2909.44 FNL	2027.53 FWL	2146690.37 N	606355.42 E
3409.00	27.780	191.230	3122.51	1205.90	1198.88 S	130.11 W	3.90	2923.88 FNL	2024.89 FWL	2146675.92 N	606352.83 E
3440.00	27.410	190.810	3149.98	1220.22	1212.98 S	132.85 W	1.35	2937.98 FNL	2022.15 FWL	2146661.81 N	606350.14 E
3472.00	26.100	188.450	3178.55	1234.60	1227.18 S	135.27 W	5.27	2952.18 FNL	2019.73 FWL	2146647.61 N	606347.78 E
3503.00	26.100	188.500	3206.39	1248.23	1240.67 S	137.27 W	0.07	2965.67 FNL	2017.73 FWL	2146634.11 N	606345.82 E
3535.00	25.140	187.400	3235.25	1262.06	1254.37 S	139.19 W	3.35	2979.37 FNL	2015.81 FWL	2146620.40 N	606343.96 E
3566.00	24.260	186.520	3263.41	1275.02	1267.23 S	140.76 W	3.08	2992.23 FNL	2014.24 FWL	2146607.54 N	606342.44 E
3598.00	24.170	187.400	3292.60	1288.14	1280.26 S	142.35 W	1.16	3005.26 FNL	2012.65 FWL	2146594.50 N	606340.90 E
3629.00	24.780	186.390	3320.81	1300.98	1293.01 S	143.89 W	2.39	3018.01 FNL	2011.11 FWL	2146581.75 N	606339.40 E
3661.00	25.750	187.050	3349.75	1314.64	1306.57 S	145.49 W	3.16	3031.57 FNL	2009.51 FWL	2146568.18 N	606337.86 E
3692.00	26.020	187.400	3377.64	1328.17	1320.00 S	147.19 W	1.00	3045.00 FNL	2007.81 FWL	2146554.74 N	606336.20 E
3724.00	25.490	187.920	3406.46	1342.07	1333.78 S	149.04 W	1.80	3058.78 FNL	2005.96 FWL	2146540.96 N	606334.40 E
3756.00	25.050	187.750	3435.40	1355.73	1347.31 S	150.90 W	1.39	3072.31 FNL	2004.10 FWL	2146527.42 N	606332.59 E
3787.00	24.610	186.870	3463.53	1368.75	1360.22 S	152.56 W	1.85	3085.22 FNL	2002.44 FWL	2146514.50 N	606330.99 E
3819.00	23.990	185.640	3492.70	1381.91	1373.31 S	153.99 W	2.50	3098.31 FNL	2001.01 FWL	2146501.40 N	606329.60 E
3850.00	22.940	184.230	3521.13	1394.25	1385.61 S	155.06 W	3.84	3110.61 FNL	1999.94 FWL	2146489.10 N	606328.58 E
3882.00	21.500	185.030	3550.76	1406.35	1397.67 S	156.03 W	4.60	3122.67 FNL	1998.97 FWL	2146477.04 N	606327.65 E
3913.00	20.210	185.990	3579.72	1417.38	1408.65 S	157.09 W	4.30	3133.65 FNL	1997.91 FWL	2146466.05 N	606326.64 E
3945.00	18.460	186.870	3609.92	1427.97	1419.18 S	158.27 W	5.54	3144.18 FNL	1996.73 FWL	2146455.52 N	606325.50 E
3976.00	18.020	187.750	3639.36	1437.68	1428.81 S	159.50 W	1.67	3153.81 FNL	1995.50 FWL	2146445.89 N	606324.30 E
4008.00	18.280	188.800	3669.77	1447.64	1438.67 S	160.94 W	1.31	3163.67 FNL	1994.06 FWL	2146436.02 N	606322.90 E
4040.00	18.110	187.750	3700.17	1457.63	1448.56 S	162.37 W	1.15	3173.56 FNL	1992.63 FWL	2146426.13 N	606321.50 E
4071.00	18.190	188.280	3729.63	1467.28	1458.12 S	163.72 W	0.59	3183.12 FNL	1991.28 FWL	2146416.56 N	606320.19 E
4102.00	17.400	187.570	3759.14	1476.75	1467.50 S	165.03 W	2.64	3192.50 FNL	1989.97 FWL	2146407.17 N	606318.92 E
4134.00	16.080	188.280	3789.79	1485.96	1476.63 S	166.29 W	4.17	3201.63 FNL	1988.71 FWL	2146398.04 N	606317.68 E

Measure Depth (ft)	Incl. Angle (Deg)	Drift Direction (Deg)	True Vertical Depth	Vertical Section (ft)	Local Coordinates		Dogleg Severit (°/100ft)	Lease Calls		Global Coordinates	
					N-S (ft)	E-W (ft)		FNL-FSL (ft)	FEL-FWL (ft)	Grid Y (ft)	Grid X (ft)
4165.00	14.830	190.700	3819.66	1494.21	1484.78 S	167.65 W	4.54	3209.78 FNL	1987.35 FWL	2146389.89 N	606316.36 E
4196.00	13.450	193.550	3849.72	1501.75	1492.18 S	169.23 W	4.98	3217.18 FNL	1985.77 FWL	2146382.48 N	606314.81 E
4228.00	12.480	198.120	3880.91	1508.83	1499.09 S	171.18 W	4.41	3224.09 FNL	1983.82 FWL	2146375.56 N	606312.89 E
4258.00	11.600	204.100	3910.25	1514.88	1504.92 S	173.42 W	5.08	3229.92 FNL	1981.58 FWL	2146369.72 N	606310.67 E
4289.00	11.600	207.610	3940.62	1520.76	1510.53 S	176.13 W	2.28	3235.53 FNL	1978.87 FWL	2146364.10 N	606307.97 E
4321.00	11.690	210.420	3971.96	1526.72	1516.18 S	179.26 W	1.79	3241.18 FNL	1975.74 FWL	2146358.45 N	606304.86 E
4352.00	11.600	211.430	4002.32	1532.42	1521.54 S	182.48 W	0.72	3246.54 FNL	1972.52 FWL	2146353.07 N	606301.67 E
4384.00	11.510	211.480	4033.67	1538.23	1527.01 S	185.82 W	0.28	3252.01 FNL	1969.18 FWL	2146347.58 N	606298.34 E
4416.00	10.460	213.060	4065.09	1543.73	1532.17 S	189.07 W	3.41	3257.17 FNL	1965.93 FWL	2146342.42 N	606295.11 E
4447.00	9.760	213.240	4095.60	1548.59	1536.73 S	192.05 W	2.26	3261.73 FNL	1962.95 FWL	2146337.85 N	606292.15 E
4479.00	8.880	212.530	4127.18	1553.24	1541.08 S	194.86 W	2.77	3266.08 FNL	1960.14 FWL	2146333.49 N	606289.36 E
4510.00	7.730	207.440	4157.86	1557.33	1544.94 S	197.11 W	4.40	3269.94 FNL	1957.89 FWL	2146329.61 N	606287.12 E
4542.00	6.940	204.270	4189.59	1561.18	1548.62 S	198.90 W	2.77	3273.62 FNL	1956.10 FWL	2146325.93 N	606285.35 E
4573.00	5.980	197.770	4220.40	1564.55	1551.86 S	200.16 W	3.89	3276.86 FNL	1954.84 FWL	2146322.68 N	606284.10 E
last MWD											
4605.00	5.100	192.320	4252.25	1567.60	1554.84 S	200.97 W	3.20	3279.84 FNL	1954.03 FWL	2146319.70 N	606283.30 E
projection per Gary Sizemore											
6005.00	1.000	192.320	5649.97	1641.70	1627.60 S	216.86 W	0.29	3352.60 FNL	1938.14 FWL	2146246.88 N	606267.69 E
projection to TD											
8300.00	0.750	192.320	7944.70	1676.56	1661.84 S	224.33 W	0.01	3386.84 FNL	1930.67 FWL	2146212.61 N	606260.34 E

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to RKB (6428' + 14'). Northings and Eastings are relative to 1725' FNL/2155' FWL.

Based upon Minimum Curvature type calculations, at a Measured Depth of 8300.00ft.,
The Bottom Hole Displacement is 1676.91ft., in the Direction of 187.692° (True).

Survey Report for Sec. 16-T31N-R06W - Rosa Unit # 185B - MWD Survey

Comments

Measured Depth (ft)	Station Coordinates			Comment
	TVD (ft)	Northings (ft)	Eastings (ft)	
4605.00	4252.25	1554.84 S	200.97 W	last MWD
6005.00	5649.97	1627.60 S	216.86 W	projection per Gary Sizemore
8300.00	7944.70	1661.84 S	224.33 W	projection to TD

North Reference Sheet for Sec. 16-T31N-R06W - Rosa Unit # 185B

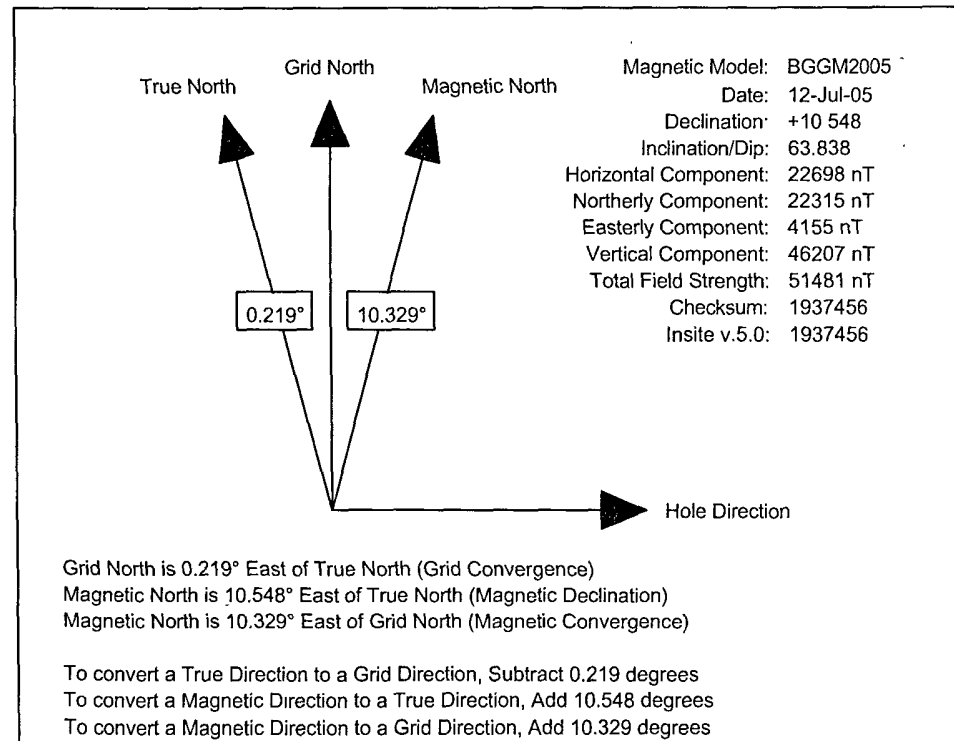
Coordinate System is NAD27 New Mexico State Planes, Western Zone, US Foot
Source: Snyder, J.P., 1987, Map Projections - A Working Manual

Datum is North American Datum of 1927 (US48, AK, HI, and Canada)

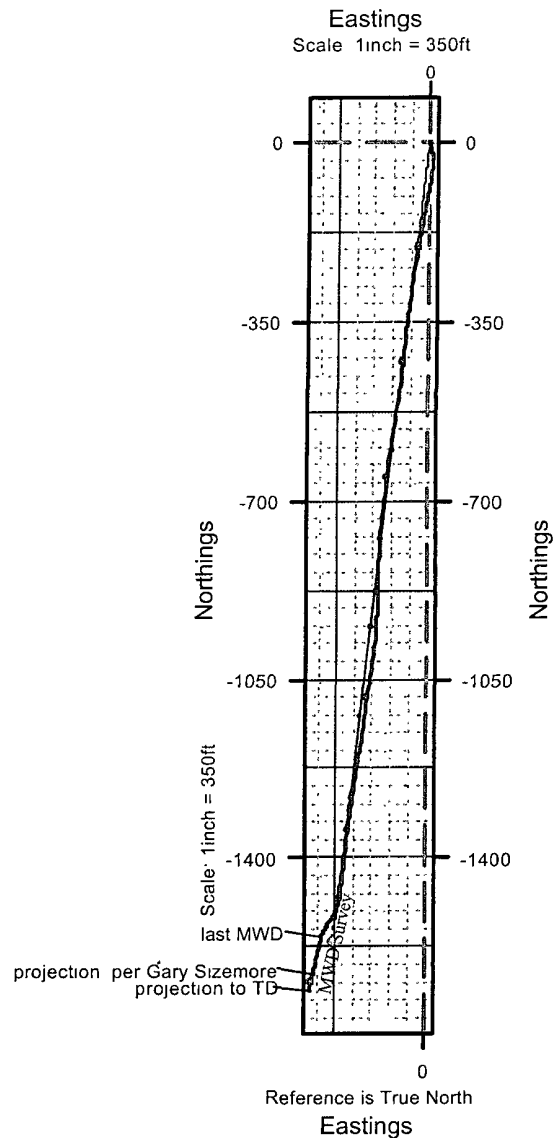
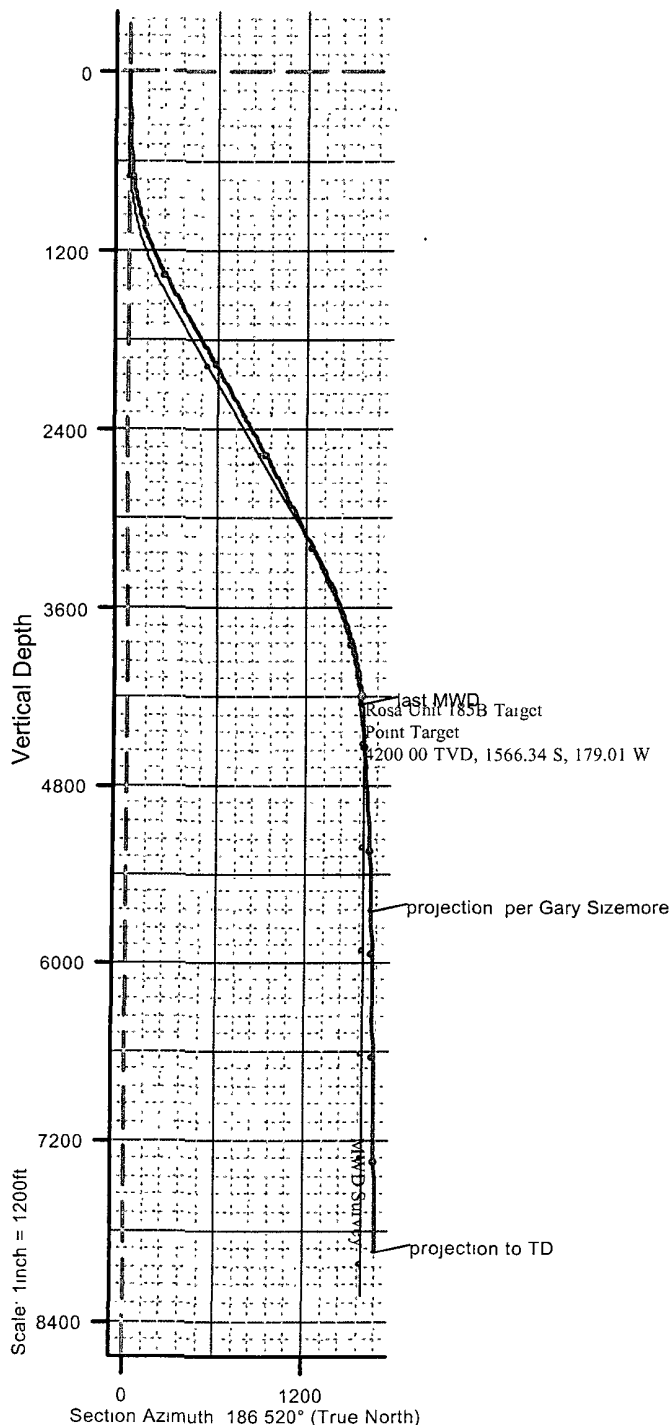
Spheroid is Clarke - 1866
Equatorial Radius: 6378206.400m.
Polar Radius: 6356583.800m.
Inverse Flattening: 294.978698213901

Projection method is Transverse Mercator or Gauss Kruger Projection
Central Meridian is -107.833°
Longitude Origin: 0.000°
Latitude Origin: 31.000°
False Easting: 152400.00m
False Northing: 0.00m
Scale Reduction: 0.99991667

Grid Coordinates of Well: 2147875.28 N, 606478.46 E
Geographical Coordinates of Well: 36° 54' 07.9914" N, 107° 28' 08.9996" W
Surface Elevation of Well: 6442.00ft
Grid Convergence at Surface is +0.219°
Magnetic Declination at Surface is +10.548° (12 July, 2005)



New Mexico
San Juan County
Sec. 16-T31N-R06W
Rosa Unit # 185B



Prepared by
Dennis Cook

Date/Time
12 July, 2005 - 9 53

Checked

Approved

MAY-23-2005 15:33

WILLIAMS

9185731298

P.02

District I -
PO Box 1990, Hobbs, NM 88241-1980State of New Mexico
Energy, Minerals & Natural Resources DepartmentForm C-102
Revised February 21, 1994District II
PO Drawer 00, Artesia, NM 88211-0719Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 CopiesDistrict III
O Rio Brazos Rd., Aztec, NM 87410OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088District IV
PO Box 2088, Santa Fe, NM 87504-2088☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-32734		*Pool Code 72319 \ 71599	*Pool Name BLANCO MESAVERDE \ BASIN DAKOTA
*Property Code 17033	*Property Name RDSA UNIT		*Well Number 1858
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6428'

10 Surface Location

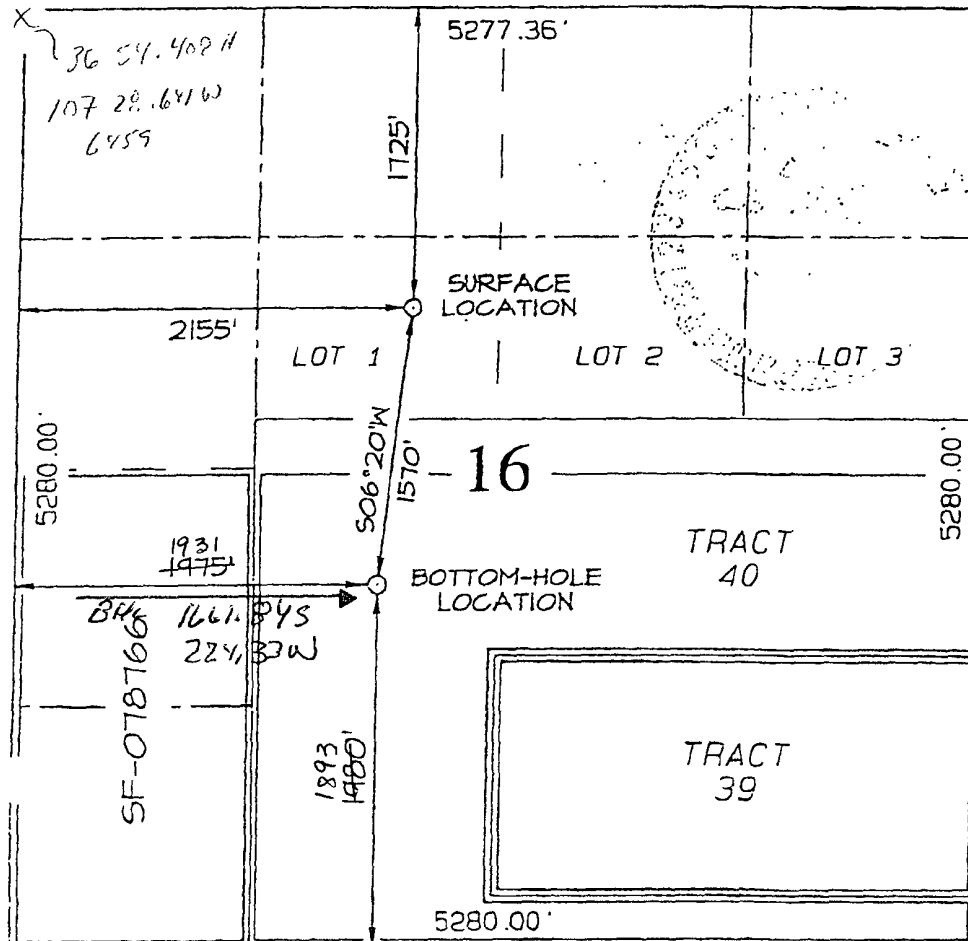
UL or lot no.	Section	Township	Range	Lot 101	Feet from the	North/South line	Feet from the	East/West line	County
F	16	31N	6W		1725	NORTH	2155	WEST	SAN JUAN

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 101	Feet from the	North/South line	Feet from the	East/West line	County
K	16	31N	6W		1980 1893	SOUTH	1975 1931	WEST	SAN JUAN

*Dedicated Acres 320.0 Acres - (S/2)	*Joint or Infill	*Consolidation Code	*Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

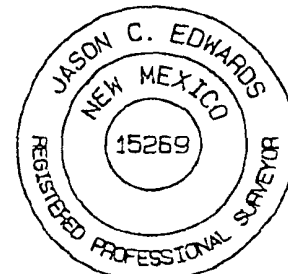
Don Hamilton
SignatureDon Hamilton
Printed NameAgent
Title12-9-04
Date

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: MAY 9, 2002

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
Certificate Number 15269