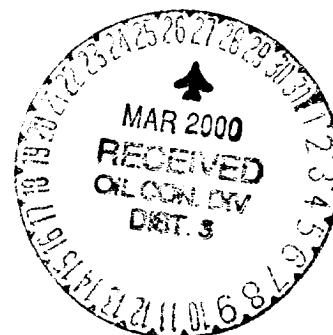


BP Amoco



**New Mexico
San Juan County
Sec. 33-T31N-R10W
Atlantic B LS 6B - MWD Survey**

1710' FNL
1510' FNL

SURVEY REPORT

23 March, 2000

$1710 + 459 = 2169'$ FNL
 $1510 - 516 = 994'$ FNL

sperry-sun
DRILLING SERVICES
A Halliburton Company

Proposal Ref: pro4644

Sperry-Sun Drilling Services

Survey Report for Atlantic B LS 6B - MWD Survey

BP Amoco
New Mexico

San Juan County
Sec. 33-T31N-R10W

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	
164.00	0.500	78.700	164.00	0.14 N	0.70 E	-0.66	0.30
197.00	0.600	108.900	197.00	0.11 N	1.01 E	-0.89	0.92
226.00	0.600	170.300	226.00	0.09 S	1.18 E	-0.92	2.11
256.00	1.300	178.100	255.99	0.58 S	1.21 E	-0.68	2.37
285.00	1.900	207.600	284.98	1.34 S	1.00 E	-0.07	3.45
316.00	2.800	214.100	315.95	2.42 S	0.34 E	1.08	3.02
346.00	3.600	225.000	345.91	3.69 S	0.74 W	2.69	3.34
377.00	4.200	231.300	376.84	5.09 S	2.31 W	4.78	2.38
407.00	4.900	233.000	406.74	6.55 S	4.19 W	7.15	2.38
438.00	5.600	234.000	437.61	8.23 S	6.47 W	9.99	2.28
468.00	6.800	235.400	467.43	10.10 S	9.12 W	13.23	4.03
498.00	7.700	233.300	497.19	12.31 S	12.19 W	17.01	3.13
529.00	9.100	235.200	527.86	14.95 S	15.87 W	21.54	4.60
559.00	10.000	235.300	557.44	17.79 S	19.96 W	26.51	3.00
589.00	11.000	236.200	586.94	20.86 S	24.48 W	31.98	3.38
620.00	11.700	235.100	617.34	24.31 S	29.52 W	38.08	2.36
650.00	12.700	235.500	646.66	27.92 S	34.73 W	44.42	3.35
681.00	13.600	236.900	676.84	31.84 S	40.59 W	51.47	3.08
711.00	14.900	237.300	705.92	35.85 S	46.79 W	58.85	4.35
742.00	15.600	237.800	735.83	40.22 S	53.67 W	67.00	2.30
805.00	15.900	236.400	796.46	49.51 S	68.03 W	84.10	0.77
867.00	15.800	236.600	856.11	58.86 S	82.15 W	101.03	0.18
928.00	16.300	235.500	914.73	68.28 S	96.14 W	117.89	0.96
990.00	15.900	234.300	974.30	78.16 S	110.20 W	135.09	0.84
1052.00	16.000	232.700	1033.91	88.30 S	123.90 W	152.11	0.73
1115.00	16.100	238.800	1094.46	98.08 S	138.28 W	169.50	2.68
1177.00	16.300	239.400	1154.00	106.96 S	153.12 W	186.77	0.42
1239.00	16.800	238.500	1213.43	116.08 S	168.25 W	204.40	0.91
1301.00	16.700	238.300	1272.80	125.44 S	183.47 W	222.25	0.19
1365.00	16.500	237.600	1334.13	135.14 S	198.97 W	240.52	0.44
1426.00	16.600	237.800	1392.60	144.42 S	213.65 W	257.89	0.19
1489.00	16.300	239.400	1453.03	153.72 S	228.88 W	275.70	0.86
1550.00	16.400	238.700	1511.56	162.55 S	243.60 W	292.84	0.36
1613.00	16.200	234.600	1572.03	172.26 S	258.37 W	310.51	1.85
1674.00	16.800	232.200	1630.52	182.60 S	272.27 W	327.82	1.49
1736.00	16.000	233.200	1689.99	193.21 S	286.19 W	345.30	1.37
1798.00	16.400	233.200	1749.53	203.57 S	300.04 W	362.58	0.65
1857.00	15.600	235.100	1806.25	213.10 S	313.22 W	378.84	1.62
1920.00	15.300	233.700	1866.97	222.86 S	326.87 W	395.61	0.76
1983.00	15.200	233.700	1927.75	232.67 S	340.22 W	412.17	0.16
2044.00	15.500	233.600	1986.58	242.25 S	353.23 W	428.31	0.49
2107.00	15.600	234.300	2047.27	252.18 S	366.88 W	445.19	0.34
2169.00	15.700	233.600	2106.97	262.03 S	380.40 W	461.91	0.34
2229.00	16.000	232.500	2164.69	271.88 S	393.50 W	478.28	0.71

Continued...

Sperry-Sun Drilling Services

Survey Report for Atlantic B LS 6B - MWD Survey

BP Amoco
New Mexico

San Juan County
Sec. 33-T31N-R10W

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
2292.00	16.300	232.300	2225.20	282.57 S	407.38 W	495.77	0.48
2355.00	15.100	231.100	2285.85	293.13 S	420.76 W	512.78	1.97
2418.00	14.800	235.700	2346.72	302.82 S	433.80 W	529.00	1.94
2480.00	14.400	236.200	2406.72	311.57 S	446.74 W	544.63	0.68
2543.00	15.800	238.800	2467.54	320.37 S	460.59 W	561.03	2.47
2606.00	15.300	241.300	2528.24	328.81 S	475.22 W	577.87	1.33
2668.00	15.300	241.800	2588.04	336.60 S	489.60 W	594.14	0.21
2731.00	13.400	239.500	2649.07	344.23 S	503.22 W	609.69	3.15
2793.00	13.100	237.100	2709.42	351.70 S	515.31 W	623.89	1.01
2855.00	13.400	238.000	2769.77	359.32 S	527.30 W	638.09	0.59
2918.00	13.900	234.400	2830.99	367.59 S	539.64 W	652.95	1.56
2980.00	14.000	235.100	2891.17	376.22 S	551.85 W	667.89	0.32
3042.00	13.800	234.300	2951.35	384.82 S	564.01 W	682.78	0.45
3102.00	12.700	233.700	3009.75	392.91 S	575.13 W	696.53	1.85
3164.00	13.200	235.300	3070.17	400.97 S	586.45 W	710.42	0.99
3224.00	13.400	236.000	3128.57	408.76 S	597.84 W	724.22	0.43
3288.00	13.400	238.100	3190.82	416.82 S	610.29 W	739.05	0.76
3350.00	12.900	238.700	3251.20	424.22 S	622.30 W	753.14	0.84
3412.00	13.800	235.300	3311.52	432.02 S	634.29 W	767.44	1.93
3450.00	14.500	235.400	3348.37	437.30 S	641.93 W	776.73	1.84
3500.00	14.500	235.400	3396.78	444.41 S	652.24 W	789.25	0.00
3593.00	11.000	235.000	3487.47	456.11 S	669.10 W	809.77	3.76
3625.00	10.000	235.000	3518.93	459.46 S	673.87 W	815.60	3.12

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

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Well and calculated along an Azimuth of 235.713° (True).

Based upon Minimum Curvature type calculations, at a Measured Depth of 3625.00ft.,
The Bottom Hole Displacement is 815.60ft., in the Direction of 235.713° (True).