

Scientific Drilling
SURVEY CALCULATION REPORT
ver - 1.27

Company: Oxy Petroleum	Probe #: 2113
Location: Eddy County, N.M.	Section Plane: S 42.00 W
Field:	Well no: Simpson A #24
Declination: 10.00E	Vertical Section Origin:
Operator: Scientific Drilling	North: 0.00 East: 0.00
Time: Sat Oct 27 19:30:47 1990	
Filename: OXYA24MS	Depth Units -> FEET

Comments:

Data Source (D.S.) types : (Manually entered data starts with '*')

CS - CHAMP Singleshot	MS - Magnetic SS	TD - Total Depth
CM - CHAMP Multishot	MM - Magnetic MS	TI - Tiein Point
CC - CHAMP Compensated	MW - M.W.D.	
GS - Gyro Singleshot	PR - Projection	
GM - Gyro Multishot	ST - Steering Tool	

Calculation Method - Minimum Curvature

**** RECORD OF SURVEY ****

Measured Depth	Inc (deg)	Azimuth (deg)	TVD	T O T A L Rec Coordinates		Vertical Section	Dogleg Severity	D.S.
3100.0	1.93	N 5.47E	3085.0	256.4N	31.6E	-211.7	0.00	*TI
3200.0	2.02	N 0.24W	3184.9	259.8N	31.8E	-214.3	0.21	CM
3300.0	1.97	N 0.61W	3284.9	263.3N	31.7E	-216.9	0.04	CM
3400.0	2.24	N 14.11E	3384.8	266.9N	32.2E	-219.9	0.60	CM
3500.0	2.03	N 2.36E	3484.7	270.6N	32.7E	-223.0	0.49	CM
3600.0	2.51	N 1.06W	3584.7	274.6N	32.8E	-226.0	0.50	CM
3700.0	2.41	N 4.05E	3684.6	278.8N	32.9E	-229.2	0.24	CM
3800.0	2.84	N 4.57E	3784.5	283.4N	33.2E	-232.8	0.44	CM
3900.0	3.12	N 11.31E	3884.3	288.5N	34.0E	-237.2	0.44	CM
4000.0	3.61	N 6.07E	3984.2	294.3N	34.8E	-242.0	0.58	CM
4100.0	3.61	N 5.49E	4084.0	300.6N	35.5E	-247.1	0.04	CM
4200.0	3.67	N 4.89E	4183.8	306.9N	36.0E	-252.2	0.07	CM
4300.0	3.67	N 4.78E	4283.6	313.3N	36.6E	-257.3	0.01	CM
4400.0	3.63	N 3.87E	4383.4	319.6N	37.0E	-262.3	0.07	CM
4500.0	4.30	N 7.79E	4483.1	326.5N	37.8E	-267.9	0.72	CM
4600.0	3.64	N 2.81E	4582.9	333.4N	38.4E	-273.5	0.75	CM
4700.0	3.65	N 2.77E	4682.7	339.8N	38.7E	-278.4	0.02	CM
4800.0	3.70	N 3.96E	4782.5	346.2N	39.1E	-283.4	0.09	CM
4900.0	3.71	N 3.99E	4882.3	352.6N	39.6E	-288.5	0.01	CM
5000.0	3.82	N 3.18E	4982.0	359.2N	40.0E	-293.7	0.12	CM
5100.0	3.70	N 2.81E	5081.8	365.7N	40.3E	-298.7	0.12	CM
5200.0	3.79	N 3.70E	5181.6	372.2N	40.7E	-303.8	0.11	CM
5300.0	4.20	N 6.23E	5281.4	379.1N	41.3E	-309.4	0.45	CM
5400.0	4.70	N 7.15E	5381.1	386.8N	42.2E	-315.7	0.51	CM
5500.0	5.33	N 7.33E	5480.7	395.5N	43.3E	-322.9	0.63	CM
5600.0	5.92	N 6.31E	5580.2	405.2N	44.5E	-330.9	0.60	CM
5700.0	6.56	N 5.07E	5679.6	416.1N	45.5E	-339.7	0.65	CM
5800.0	7.03	N 1.75E	5778.9	427.9N	46.2E	-348.9	0.61	CM
5900.0	7.57	N 0.71E	5878.1	440.6N	46.5E	-358.5	0.56	CM
5000.0	8.09	N 0.85W	5977.2	454.2N	46.5E	-368.6	0.56	CM