

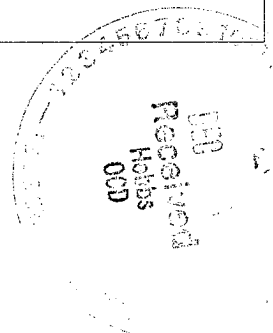


Job Number: NE Kemnitz
 Company: Elk Oil Company
 Lease/Well: NE Kemnitz Unit # 10
 Location: Lea County, New Mexico
 Rig Name:
 RKB: 0.00 Ft
 Vertical Datum:

State/Country:
 Declination:
 Grid:
 Project name: Lea County
 Date/Time: 18-Oct-05 / 13:31
 Well Name: NE Kemnitz - Survey
 North Reference: True North
 Convergence: 0.0011°

SUR: E-26-17s-34e, 1980/N & 660/W
 BHL: E-26-17s-34e, 1990/N & 685/W
 API # 30-025-01932

WinSURV3D SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 169.76°
Vertical Section Referenced to Wellhead
Local Coordinates Referenced to Structure Reference :
EW=500000.00 Ft, NS=545612.76 Ft
Direction referenced to True North



Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	LOCALS N-S Ft	LOCALS E-W Ft	Vertical Section Ft	CLOSURE Distance Ft	CLOSURE Direction Deg	Dogleg Severity Deg/100
11300.00	2.49	200.88	11297.23	-69.04	-139.17	43.20	155.35	243.61	0.00
11339.00	3.50	200.30	11336.18	-70.95	-139.88	44.95	156.85	243.11	2.59
11366.00	2.90	201.60	11363.13	-72.36	-140.42	46.24	157.97	242.74	2.24
11397.00	1.80	202.30	11394.11	-73.54	-140.90	47.32	158.93	242.44	3.55
11429.00	1.50	272.80	11426.10	-73.98	-141.50	47.65	159.68	242.40	6.00
11460.00	2.20	321.80	11457.08	-73.49	-142.28	47.03	160.14	242.68	5.36
11492.00	3.00	335.00	11489.05	-72.25	-143.01	45.68	160.23	243.20	3.11
11523.00	3.70	348.10	11520.00	-70.54	-143.56	43.89	159.95	243.83	3.33
11554.00	3.70	350.20	11550.93	-68.57	-143.94	41.89	159.44	244.53	0.44
11585.00	3.90	349.10	11581.86	-66.55	-144.31	39.84	158.91	245.24	0.69
11616.00	3.90	353.30	11612.79	-64.47	-144.63	37.73	158.35	245.97	0.92
11648.00	4.40	7.00	11644.71	-62.17	-144.61	35.47	157.40	246.74	3.46
11679.00	4.70	12.80	11675.61	-59.75	-144.18	33.17	156.07	247.49	1.77
11710.00	4.90	18.90	11706.50	-57.26	-143.47	30.84	154.47	248.24	1.77
11742.00	4.90	27.90	11738.39	-54.76	-142.39	28.57	152.55	248.96	2.40
11773.00	4.70	29.90	11769.28	-52.49	-141.14	26.56	150.58	249.60	0.84
11802.00	4.60	38.10	11798.18	-50.54	-139.83	24.88	148.68	250.13	2.32
11836.00	4.90	44.20	11832.07	-48.43	-137.97	23.13	146.22	250.66	1.73
11867.00	5.40	49.80	11862.94	-46.54	-135.93	21.63	143.68	251.10	2.29
11898.00	5.60	54.30	11893.80	-44.71	-133.59	20.25	140.88	251.49	1.53
11932.00	5.80	55.60	11927.63	-42.78	-130.83	18.84	137.64	251.89	0.70
11963.00	6.10	59.30	11958.46	-41.05	-128.12	17.62	134.53	252.23	1.57
11995.00	6.90	63.70	11990.26	-39.33	-124.93	16.49	130.98	252.53	2.94
12026.00	7.20	63.60	12021.02	-37.64	-121.52	15.44	127.22	252.79	0.97
12057.00	7.30	66.10	12051.78	-35.98	-117.98	14.43	123.35	253.04	1.07
12088.00	7.60	69.30	12082.51	-34.46	-114.27	13.60	119.35	253.22	1.65
12119.00	7.50	71.50	12113.25	-33.09	-110.43	12.93	115.28	253.32	0.99
12183.00	9.00	71.90	12176.58	-30.21	-101.71	11.65	106.10	253.46	2.35
12214.00	9.30	73.90	12207.19	-28.76	-97.00	11.06	101.17	253.48	1.41
12246.00	9.10	74.40	12238.78	-27.36	-92.08	10.56	96.06	253.45	0.67
12277.00	8.90	75.30	12269.39	-26.10	-87.40	10.14	91.21	253.37	0.79

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	LOCALS		Vertical Section Ft	CLOSURE		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
12308.00	8.70	75.60	12300.03	-24.91	-82.81	9.79	86.47	253.26	0.66
12339.00	8.60	75.90	12330.68	-23.76	-78.29	9.46	81.81	253.12	0.35
12370.00	8.40	79.30	12361.34	-22.77	-73.81	9.29	77.25	252.85	1.74
12402.00	8.30	79.00	12393.00	-21.90	-69.25	9.24	72.63	252.45	0.34
12464.00	8.00	76.40	12454.37	-20.03	-60.66	8.93	63.88	251.73	0.77
12495.00	7.80	75.10	12485.08	-18.98	-56.53	8.63	59.64	251.44	0.87
12558.00	8.60	75.70	12547.43	-16.72	-47.84	7.95	50.68	250.74	1.28
12590.00	8.40	77.30	12579.08	-15.61	-43.24	7.68	45.97	250.15	0.97
12685.00	7.80	81.00	12673.13	-13.08	-30.10	7.52	32.82	246.51	0.84
12716.00	7.80	81.00	12703.85	-12.42	-25.95	7.61	28.77	244.42	0.00
12780.00	7.60	83.23	12767.27	-11.24	-17.46	7.96	20.76	237.21	0.56
12843.00	7.30	84.60	12829.74	-10.38	-9.33	8.55	13.96	221.97	0.55
12906.00	7.30	84.30	12892.23	-9.60	-1.37	9.21	9.70	188.10	0.06
12968.00	6.90	86.60	12953.75	-8.99	6.27	9.96	10.96	145.10	0.79
13030.00	6.10	91.60	13015.35	-8.86	13.28	11.08	15.97	123.71	1.58
13093.00	5.50	98.20	13078.03	-9.38	19.62	12.72	21.75	115.57	1.42
13098.00	5.60	99.30	13083.01	-9.46	20.09	12.88	22.21	115.21	2.92
13140.00	5.60	99.30	13124.81	-10.12	24.14	14.25	26.17	112.75	0.00

To the best of my knowledge the surveys listed above, from 11300.00' MD to 13140.00' MD are accurate and true surveys.

Kristy Pyle
Quantum Drilling Motors

Signature Kristy Pyle

Date: 10-19-05