

Chesapeake Operating, Inc.
Summit #1-18H, #1-18
Lea County, New MexicoPROPOSAL LISTING Page 1
Your ref : REV 5
Last revised : 27-Aug-97

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S			Dogleg Deg/100Ft	Vert Sect
0.00	0.00	332.81	0.00	0.00 N	0.00 E	0.00	0.00	
500.00	0.00	332.81	500.00	0.00 N	0.00 E	0.00	0.00	
1000.00	0.00	332.81	1000.00	0.00 N	0.00 E	0.00	0.00	
1500.00	0.00	332.81	1500.00	0.00 N	0.00 E	0.00	0.00	
2000.00	0.00	332.81	2000.00	0.00 N	0.00 E	0.00	0.00	
2500.00	0.00	332.81	2500.00	0.00 N	0.00 E	0.00	0.00	
3000.00	0.00	332.81	3000.00	0.00 N	0.00 E	0.00	0.00	
3500.00	0.00	332.81	3500.00	0.00 N	0.00 E	0.00	0.00	
4000.00	0.00	332.81	4000.00	0.00 N	0.00 E	0.00	0.00	
4500.00	0.00	332.81	4500.00	0.00 N	0.00 E	0.00	0.00	
5000.00	0.00	332.81	5000.00	0.00 N	0.00 E	0.00	0.00	
5500.00	0.00	332.81	5500.00	0.00 N	0.00 E	0.00	0.00	
6000.00	0.00	332.81	6000.00	0.00 N	0.00 E	0.00	0.00	
6500.00	0.00	332.81	6500.00	0.00 N	0.00 E	0.00	0.00	
7000.00	0.00	332.81	7000.00	0.00 N	0.00 E	0.00	0.00	
7500.00	0.00	332.81	7500.00	0.00 N	0.00 E	0.00	0.00	
8000.00	0.00	332.81	8000.00	0.00 N	0.00 E	0.00	0.00	
8500.00	0.00	332.81	8500.00	0.00 N	0.00 E	0.00	0.00	
9000.00	0.00	332.81	9000.00	0.00 N	0.00 E	0.00	0.00	
9500.00	0.00	332.81	9500.00	0.00 N	0.00 E	0.00	0.00	
10000.00	0.00	332.81	10000.00	0.00 N	0.00 E	0.00	0.00	
10500.00	0.00	332.81	10500.00	0.00 N	0.00 E	0.00	0.00	
11000.00	0.00	332.81	11000.00	0.00 N	0.00 E	0.00	0.00	
11050.00	0.00	332.81	11050.00	0.00 N	0.00 E	0.00	0.00	KOP 4.0 DEG. / 100'
11150.00	4.00	332.81	11149.92	3.10 N	1.59 W	4.00	3.49	
11200.00	6.00	332.81	11199.73	6.98 N	3.59 W	4.00	7.85	Begin 6.0 DEG. Hold
11249.00	6.00	332.81	11247.46	11.44 N	5.88 W	0.00	12.86	Begin 57.1 DEG. / 100' Build
11337.51	57.18	332.81	11321.20	51.77 N	26.60 W	57.17	58.20	
11394.92	90.00	332.81	11337.20	100.09 N	51.42 W	57.17	112.53	Intersect Target Line
11500.00	90.00	332.81	11337.20	193.56 N	99.43 W	0.00	217.61	
11889.50	90.00	332.81	11337.20	540.02 N	277.41 W	0.00	607.11	Begin 9.97 DEG. / 100' Turn
11900.00	90.00	331.76	11337.20	549.32 N	282.30 W	9.97	617.61	
12000.00	90.00	321.79	11337.20	632.87 N	337.02 W	9.97	716.93	
12100.00	90.00	311.82	11337.20	705.68 N	405.37 W	9.97	812.93	
12139.55	90.00	307.88	11337.20	731.02 N	435.73 W	9.97	849.34	End of Turn
12354.53	90.00	307.88	11337.20	863.02 N	605.41 W	0.00	1044.29	TD / FBHL

All data is in feet unless otherwise stated
Coordinates are from slot #1 and TVDs are from wellhead.
Vertical section is from wellhead on azimuth 332.81 degrees.
Calculation uses the minimum curvature method.