

Chesapeake Operating, Inc.
 Sumrold #1-15H.#1-18
 Lea County, New Mexico

PROPOSAL LISTING Page 2
 Your ref : REV 5
 Last revised : 27-Aug-97

Comments in wellpath				

MD	TVD	Rectangular Coords.		Comment
11050.00	11050.00	0.00 N	0.00 E	KOP 4.0 DEG. / 100'
11200.00	11199.73	6.98 N	3.19 W	Begin 6.0 DEG. Hold
11248.00	11247.46	11.44 N	5.88 W	Begin 57.1 DEG. / 100' Build
11394.92	11337.20	100.09 N	51.42 W	Intersect Target Line
11889.50	11337.20	540.02 N	277.41 W	Begin 9.97 DEG. / 100' Turn
12139.55	11337.20	731.02 N	435.73 W	End of Turn
12354.53	11337.20	863.02 N	605.41 W	TD / PAKL

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.