

PathFinder Energy Services

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Proposal Report

Date: 5/17/2004
Time: 1:15 pm
Wellpath ID: Wellplan #1
Last Revision: 5/17/2004

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 272.41 deg.

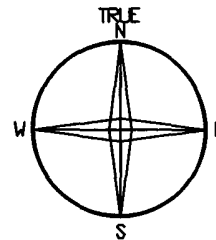
Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

MarBob Energy
Willow State #2
L&M #1
Eddy, Co. NM
Sec. 3-T25S-R28E Eddy, NM
Wellplan #1

30 - 015 - 33399

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft) (ft)		Closure Dist. Dir. (ft) (deg.)	DLS (dg/100ft)
KOP / TIE IN / START OF BUILD @ 12.00 deg/100 ft								
4378.54	0.00	0.00	4378.54	0.00	0.00 N	0.00 E	0.00@ 0.00	0.00
4578.54	24.00	272.41	4572.74	41.28	1.73 N	41.24W	41.28@ 272.41	12.00
4778.54	48.00	272.41	4733.36	157.98	6.63 N	157.84W	157.98@ 272.41	12.00
4978.54	72.00	272.41	4832.63	329.92	13.85 N	329.63W	329.92@ 272.41	12.00
EOC in 8 3/4" hole / Start lat. in 7 7/8" hole								
5128.53	90.00	272.41	4856.00	477.46	20.04 N	477.04W	477.46@ 272.41	12.00
5628.53	90.00	272.41	4856.00	977.46	41.03 N	976.60W	977.46@ 272.41	0.00
6128.53	90.00	272.41	4856.00	1477.46	62.02 N	1476.16W	1477.46@ 272.41	0.00
6628.53	90.00	272.41	4856.00	1977.46	83.01 N	1975.72W	1977.46@ 272.41	0.00
Proposed BHL @ 7033' MD								
7033.17	90.00	272.41	4856.00	2382.10	100.00 N	2380.00W	2382.10@ 272.41	0.00

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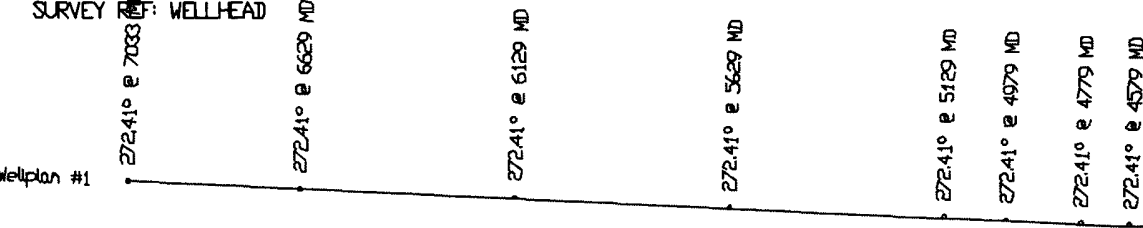


5/17/2004 1:16 pm

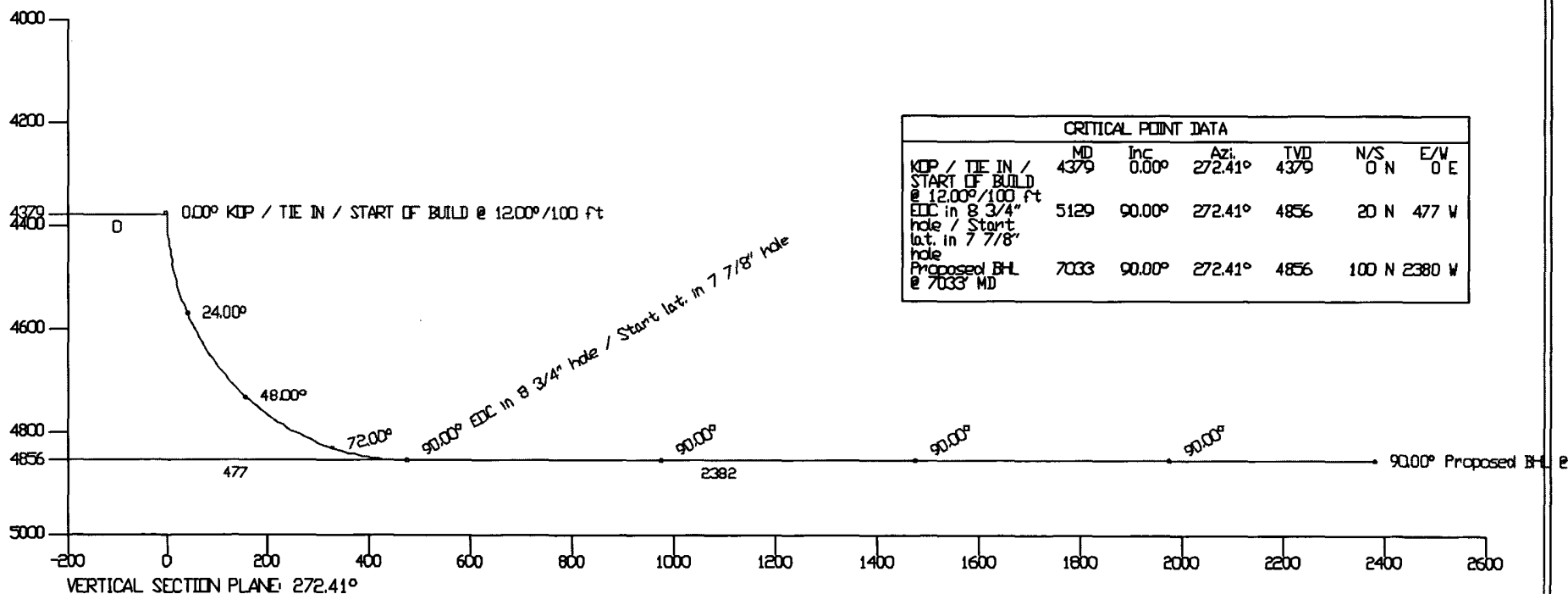
HORIZONTAL VIEW
 SCALE 200 ft. / DIVISION
 SURVEY REF: WELLHEAD

PROPOSED BHL	
TVD	4856.00
MD	7033.17
VS	2382.10
N/S	100.00 N
E/W	2380.00 W

Wellplan #1



VERTICAL VIEW
 SCALE 200 ft. / DIVISION
 TVD REF: WELLHEAD
 VERTICAL SECTION REF: WELLHEAD



CRITICAL POINT DATA						
KOP / TIE IN / START OF BUILD @ 12.00°/100 ft	MD	Inc	Azi.	TVD	N/S	E/W
EDC in 8 3/4" hole / Start lat. in 7 7/8" hole	4379	0.00°	272.41°	4379	0 N	0 E
Proposed BHL @ 7033 MD	5129	90.00°	272.41°	4856	20 N	477 W
	7033	90.00°	272.41°	4856	100 N	2380 W