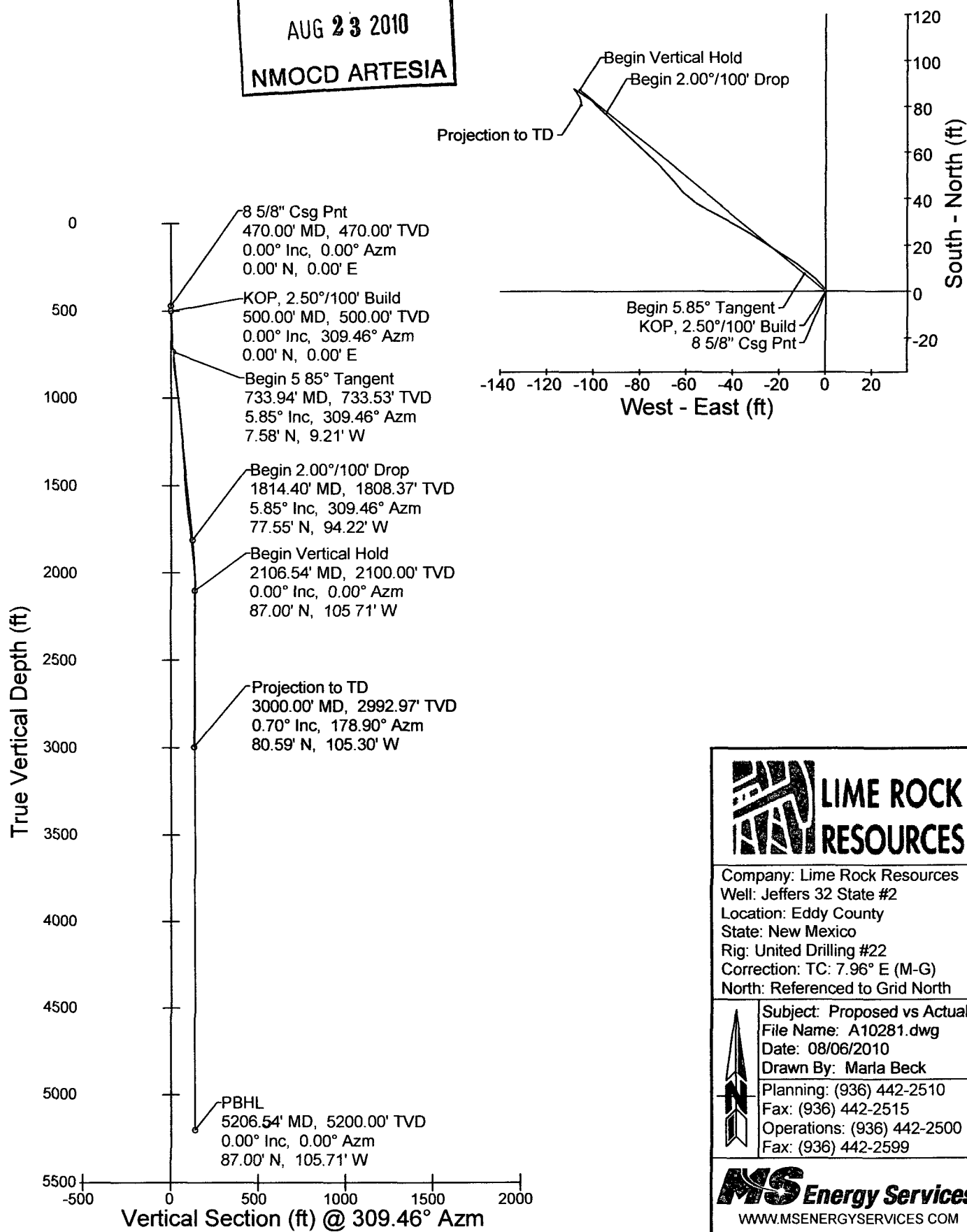


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NMOCD ARTESIA



Company: Lime Rock Resources
Well: Jeffers 32 State #2
Location: Eddy County
State: New Mexico
Rig: United Drilling #22
Correction: TC: 7.96° E (M-G)
North: Referenced to Grid North

Subject: Proposed vs Actual
File Name: A10281.dwg
Date: 08/06/2010
Drawn By: Marla Beck
Planning: (936) 442-2510
Fax: (936) 442-2515
Operations: (936) 442-2500
Fax: (936) 442-2599

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The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.



Job Number: P10-281
 Company: Lime Rock Resources
 Lease/Well: Jeffers 32 State #2
 Location: Eddy County
 Rig Name: United Drilling #22
 RKB:
 G.L. or M.S.L.: 3666.5'

State/Country: New Mexico
 Declination: TC: 7.96° E (M-G)
 Grid: Referenced to Grid North
 File name: F:\WELLPL-1\2010\IP10280'S\10281.SVY
 Date/Time: 18-Jun-10 / 15:04
 Curve Name: Prop Rev 0

WINSERVE PROPOSAL REPORT
 Minimum Curvature Method
 Vertical Section Plane 309.46
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
8 5/8" Csg Pnt									
470.00	.00	.00	470.00	.00	.00	.00	.00	.00	.00
KOP, 2.50°/100' Build									
500.00	.00	309.46	500.00	.00	.00	.00	.00	.00	.00
600.00	2.50	309.46	599.97	1.39	-1.68	2.18	2.18	309.46	2.50
700.00	5.00	309.46	699.75	5.54	-6.73	8.72	8.72	309.46	2.50
Begin 5.85° Tangent									
733.94	5.85	309.46	733.53	7.58	-9.21	11.93	11.93	309.46	2.50
Begin 2.00°/100' Drop									
1814.40	5.85	309.46	1808.37	77.55	-94.22	122.02	122.02	309.46	.00
1914.40	3.84	309.46	1908.01	82.92	-100.74	130.47	130.47	309.46	2.00
2014.40	1.84	309.46	2007.88	86.06	-104.56	135.43	135.43	309.46	2.00
Begin Vertical Hold									
2106.54	.00	.00	2100.00	87.00	-105.71	136.91	136.91	309.46	2.00
PBHL									
5206.54	.00	.00	5200.00	87.00	-105.71	136.91	136.91	309.46	.00



Job Number: P10-281
Company: Lime Rock Resources
Lease/Well: Jeffers 32 State #2
Location: Eddy County
Rig Name: United Drilling #22
RKB:
G.L. or M.S.L.: 3666.5'

State/Country: New Mexico
Declination: TC: 7.96° E (M-G)
Grid: Referenced to Grid North
File name: F:\WELLPL~1\2010\IP10280\SIP10281\10281.SVY
Date/Time: 06-Aug-10 / 10:32
Curve Name: SDTRK #00

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 309.46
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>CLOSURE Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
500.00	.00	320.30	500.00	.00	.00	.00	.00	.00	.00
538.00	.20	88.20	538.00	.00	.07	-.05	.07	88.19	.53
630.00	2.00	330.00	629.98	1.40	-.58	1.33	1.51	337.60	2.28
722.00	4.90	313.60	721.81	5.50	-4.22	6.76	6.93	322.46	3.30
817.00	7.60	305.00	816.24	11.90	-12.31	17.07	17.12	314.03	3.00
911.00	7.50	303.30	909.42	18.83	-22.53	29.36	29.37	309.89	.26
1006.00	6.60	301.70	1003.70	25.11	-32.36	40.94	40.96	307.81	.97
1101.00	5.50	298.10	1098.17	30.12	-41.02	50.81	50.89	306.29	1.22
1196.00	5.00	297.90	1192.77	34.20	-48.69	59.33	59.51	305.08	.53
1291.00	4.40	298.20	1287.45	37.86	-55.56	66.96	67.24	304.27	.63
1386.00	4.70	319.40	1382.16	42.54	-61.31	74.37	74.62	304.75	1.79
1481.00	4.40	321.60	1476.86	48.35	-66.11	81.77	81.90	306.18	.37
1575.00	5.60	313.60	1570.50	54.34	-71.67	89.87	89.94	307.17	1.47
1670.00	6.70	313.40	1664.95	61.34	-79.05	100.02	100.06	307.81	1.16
1764.00	6.60	314.60	1758.32	68.90	-86.88	110.87	110.89	308.42	.18
1858.00	6.50	317.20	1851.71	76.60	-94.34	121.52	121.52	309.08	.33
1953.00	4.60	305.90	1946.26	82.78	-101.08	130.65	130.65	309.32	2.30
2048.00	2.80	303.30	2041.06	86.29	-106.11	136.76	136.77	309.12	1.90
2143.00	.40	288.90	2136.02	87.67	-108.36	139.38	139.39	308.97	2.54
2238.00	.40	103.60	2231.02	87.70	-108.35	139.39	139.40	308.99	.84
2734.00	.80	164.10	2726.99	83.96	-105.72	134.99	135.01	308.46	.14
2932.00	.70	178.90	2924.97	81.42	-105.32	133.06	133.12	307.71	.11

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
Projection to TD									
3000.00	.70	178.90	2992.97	80.59	-105.30	132.52	132.61	307.43	.00