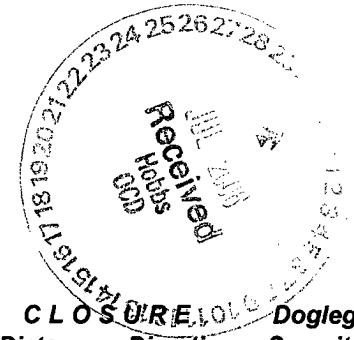




Job Number: 0611175051054
 Company: Bold Energy
 Lease/Well: Antelope Ridge, Well #12
 Location: Lea County, New Mexico
 Rig Name: Nabors #142
 RKB: 16'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.66°
 Grid: East To Grid
 File name: F:\SURVEY\2006SU~1\BOLDEN~1\ANTELO12.SVY
 Date/Time: 27-Jul-06 / 16:02
 Curve Name: Surface - 11800' M.D.

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 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 Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.25	200.60	100.00	-.20	-.08	-.20	.22	200.60	.25
200.00	.25	49.45	200.00	-.27	.01	-.27	.27	177.37	.48
300.00	.50	6.30	300.00	.31	.23	.31	.38	36.18	.36
400.00	.75	51.39	399.99	1.15	.79	1.15	1.39	34.30	.53
500.00	1.50	34.23	499.97	2.64	2.03	2.64	3.33	37.58	.81
600.00	2.25	17.09	599.92	5.60	3.35	5.60	6.52	30.86	.93
700.00	2.25	36.92	699.84	9.05	5.10	9.05	10.39	29.42	.77
800.00	2.50	42.77	799.76	12.22	7.76	12.22	14.47	32.43	.35
900.00	2.75	37.61	899.65	15.72	10.71	15.72	19.02	34.26	.34
1000.00	3.00	34.46	999.53	19.78	13.65	19.78	24.03	34.62	.30
1100.00	3.00	40.30	1099.39	23.93	16.83	23.93	29.25	35.11	.31
1200.00	2.75	45.15	1199.26	27.62	20.22	27.62	34.23	36.21	.35
1300.00	2.50	50.01	1299.16	30.71	23.59	30.71	38.72	37.53	.33
1400.00	2.50	45.91	1399.06	33.63	26.83	33.63	43.02	38.58	.18
1500.00	2.50	37.81	1498.97	36.87	29.73	36.87	47.36	38.88	.35
1600.00	2.50	51.70	1598.87	39.94	32.78	39.94	51.67	39.37	.60
1700.00	3.00	49.59	1698.76	42.99	36.48	42.99	56.39	40.32	.51
1800.00	2.50	52.50	1798.64	46.02	40.21	46.02	61.11	41.15	.52
1900.00	2.75	53.39	1898.54	48.77	43.86	48.77	65.60	41.96	.25
2000.00	2.25	60.30	1998.44	51.18	47.49	51.18	69.82	42.86	.58

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2100.00	2.25	54.20	2098.37	53.30	50.79	53.30	73.62	43.62	.24
2200.00	2.00	54.10	2198.30	55.47	53.80	55.47	77.27	44.12	.25
2300.00	2.50	57.99	2298.22	57.65	57.06	57.65	81.11	44.70	.52
2400.00	2.25	54.39	2398.13	59.95	60.50	59.95	85.17	45.26	.29
2500.00	3.00	53.27	2498.03	62.66	64.20	62.66	89.71	45.70	.75
2600.00	2.50	55.18	2597.91	65.47	68.09	65.47	94.45	46.12	.51
2700.00	2.50	56.08	2697.82	67.93	71.69	67.93	98.76	46.54	.04
2800.00	2.25	51.99	2797.73	70.36	75.04	70.36	102.86	46.85	.30
2900.00	2.50	55.88	2897.65	72.79	78.39	72.79	106.98	47.12	.30
3000.00	2.25	52.78	2997.56	75.20	81.76	75.20	111.09	47.39	.28
3100.00	2.75	51.67	3097.46	77.87	85.21	77.87	115.43	47.58	.50
3200.00	2.25	51.58	3197.37	80.58	88.63	80.58	119.78	47.72	.50
3300.00	2.50	58.47	3297.28	82.94	92.02	82.94	123.89	47.97	.38
3400.00	2.00	52.33	3397.21	85.15	95.26	85.15	127.77	48.21	.55
3500.00	2.25	57.18	3497.14	87.28	98.30	87.28	131.45	48.40	.31
3600.00	2.50	46.02	3597.05	89.86	101.51	89.86	135.57	48.49	.52
3700.00	2.50	56.87	3696.96	92.56	104.91	92.56	139.91	48.58	.47
3800.00	2.50	69.72	3796.86	94.51	108.78	94.51	144.10	49.02	.56
3900.00	2.50	57.56	3896.77	96.44	112.67	96.44	148.31	49.44	.53
4000.00	2.25	74.42	3996.68	98.13	116.40	98.13	152.25	49.87	.74
4100.00	3.50	75.25	4096.56	99.44	121.24	99.44	156.81	50.64	1.25
4200.00	4.25	71.07	4196.33	101.42	127.70	101.42	163.07	51.54	.80
4300.00	5.25	73.89	4295.98	103.89	135.60	103.89	170.82	52.54	1.03
4400.00	5.25	59.96	4395.57	107.45	143.96	107.45	179.64	53.26	1.27
4500.00	5.25	54.80	4495.15	112.38	151.66	112.38	188.76	53.46	.47
4600.00	5.00	53.66	4594.75	117.60	158.91	117.60	197.69	53.50	.27
4700.00	4.00	60.55	4694.44	121.89	165.45	121.89	205.51	53.62	1.14
4800.00	3.25	59.42	4794.24	125.05	170.93	125.05	211.79	53.81	.75
4900.00	2.00	58.30	4894.13	127.41	174.86	127.41	216.35	53.92	1.25
5000.00	1.00	25.16	4994.10	129.12	176.71	129.12	218.86	53.85	1.28
5100.00	1.00	35.01	5094.08	130.62	177.58	130.62	220.45	53.66	.17
5200.00	.75	28.86	5194.07	131.91	178.40	131.91	221.87	53.52	.27
5300.00	1.00	7.71	5294.06	133.35	178.83	133.35	223.08	53.29	.40
5400.00	.75	45.81	5394.05	134.67	179.42	134.67	224.34	53.11	.62
5500.00	.25	326.91	5494.05	135.31	179.77	135.31	225.00	53.03	.74
5600.00	.25	26.01	5594.04	135.69	179.75	135.69	225.21	52.95	.25
5700.00	.25	192.11	5694.04	135.67	179.80	135.67	225.24	52.96	.50
5800.00	.25	38.21	5794.04	135.63	179.89	135.63	225.29	52.98	.49
5900.00	.25	182.30	5894.04	135.58	180.01	135.58	225.36	53.01	.48
6000.00	.25	334.40	5994.04	135.56	179.91	135.56	225.26	53.00	.49

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6100.00	.50	195.50	6094.04	135.34	179.70	135.34	224.96	53.02	.71
6200.00	.25	289.60	6194.04	134.99	179.38	134.99	224.49	53.04	.57
6300.00	.50	198.70	6294.04	134.65	179.03	134.65	224.01	53.05	.56
6400.00	.25	279.29	6394.04	134.27	178.67	134.27	223.50	53.08	.52
6500.00	.25	177.39	6494.04	134.09	178.47	134.09	223.23	53.08	.39
6600.00	.50	250.49	6594.03	133.72	178.07	133.72	222.69	53.09	.49
6700.00	.25	347.59	6694.03	133.79	177.61	133.79	222.36	53.01	.59
6800.00	.50	201.69	6794.03	133.60	177.40	133.60	222.08	53.02	.72
6900.00	.25	265.79	6894.03	133.18	177.02	133.18	221.53	53.05	.45
7000.00	.25	290.88	6994.03	133.24	176.60	133.24	221.23	52.97	.11
7100.00	.50	201.98	7094.03	132.91	176.23	132.91	220.74	52.98	.55
7200.00	.50	211.08	7194.02	132.13	175.85	132.13	219.96	53.08	.08
7300.00	.50	160.18	7294.02	131.35	175.77	131.35	219.43	53.23	.43
7400.00	1.25	176.28	7394.01	129.85	175.99	129.85	218.71	53.58	.78
7500.00	1.00	163.38	7493.99	127.93	176.31	127.93	217.83	54.04	.35
7600.00	1.25	157.48	7593.97	126.08	176.97	126.08	217.29	54.53	.28
7700.00	1.00	176.58	7693.95	124.20	177.44	124.20	216.59	55.01	.45
7800.00	.50	145.68	7793.94	122.97	177.74	122.97	216.14	55.32	.63
7900.00	1.00	151.78	7893.93	121.84	178.40	121.84	216.04	55.67	.51
8000.00	1.00	155.88	7993.92	120.28	179.17	120.28	215.80	56.13	.07
8100.00	.50	113.97	8093.91	119.30	179.93	119.30	215.89	56.45	.71
8200.00	.75	154.07	8193.90	118.54	180.61	118.54	216.04	56.72	.49
8300.00	.25	98.66	8293.90	117.92	181.11	117.92	216.12	56.93	.64
8400.00	.75	78.76	8393.90	118.01	181.97	118.01	216.89	57.04	.52
8500.00	.75	93.86	8493.89	118.10	183.27	118.10	218.02	57.20	.20
8600.00	1.25	54.95	8593.87	118.68	184.81	118.68	219.63	57.29	.82
8700.00	2.00	64.04	8693.83	120.07	187.27	120.07	222.46	57.33	.79
8800.00	1.75	44.15	8793.78	121.93	189.91	121.93	225.68	57.30	.69
8900.00	2.25	24.25	8893.72	124.81	191.78	124.81	228.81	56.94	.85
9000.00	3.25	39.32	8993.61	128.80	194.38	128.80	233.18	56.47	1.23
9100.00	3.50	36.36	9093.43	133.45	197.98	133.45	238.76	56.02	.30
9200.00	3.75	40.35	9193.23	138.40	201.91	138.40	244.79	55.57	.36
9300.00	5.50	26.34	9292.91	145.18	206.15	145.18	252.15	54.84	2.07
9400.00	5.00	29.34	9392.49	153.28	210.42	153.28	260.33	53.93	.57
9500.00	5.00	58.29	9492.12	159.37	216.26	159.37	268.64	53.61	2.50
9600.00	3.00	71.36	9591.87	162.50	222.45	162.50	275.48	53.85	2.19
9700.00	3.00	73.36	9691.74	164.08	227.43	164.08	280.44	54.19	.10
9800.00	2.50	85.38	9791.62	165.01	232.12	165.01	284.79	54.59	.76
9900.00	2.25	73.37	9891.54	165.74	236.17	165.74	288.53	54.94	.56
10000.00	2.00	78.37	9991.47	166.66	239.76	166.66	291.99	55.20	.31

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
10100.00	1.25	49.38	10091.43	167.72	242.30	167.72	294.68	55.31	1.09
10200.00	1.00	33.38	10191.41	169.16	243.61	169.16	296.58	55.22	.40
10300.00	.75	16.38	10291.40	170.52	244.27	170.52	297.90	55.08	.36
10400.00	1.50	45.37	10391.38	172.06	245.39	172.06	299.70	54.96	.92
10500.00	1.50	26.38	10491.35	174.15	246.90	174.15	302.14	54.80	.49
10600.00	1.75	24.37	10591.31	176.72	248.11	176.72	304.61	54.54	.26
10700.00	2.00	47.36	10691.25	179.29	250.02	179.29	307.66	54.36	.79
10800.00	1.25	52.37	10791.21	181.14	252.17	181.14	310.49	54.31	.76
10900.00	2.50	65.35	10891.16	182.71	255.02	182.71	313.72	54.38	1.31
11000.00	2.00	76.46	10991.08	184.03	258.70	184.03	317.48	54.57	.66
11100.00	1.50	91.57	11091.03	184.41	261.70	184.41	320.15	54.83	.68
11200.00	3.00	169.70	11190.97	181.79	263.48	181.79	320.11	55.40	3.07
11300.00	3.50	174.80	11290.81	176.18	264.22	176.18	317.57	56.31	.58
11400.00	3.50	168.91	11390.62	170.14	265.09	170.14	314.99	57.31	.36
11500.00	3.25	181.99	11490.45	164.32	265.58	164.32	312.30	58.25	.81
11600.00	2.75	166.09	11590.32	159.15	266.05	159.15	310.02	59.11	.97
11700.00	1.75	166.18	11690.24	155.34	267.00	155.34	308.90	59.81	1.00
Last Survey Depth Recorded									
11800.00	1.50	141.37	11790.20	152.84	268.18	152.84	308.67	60.32	.74