



Job Number: 101117505172
 Company: Yates Petroleum
 Lease/Well: Bonbon BNN State Com #1H
 Location: Eddy County, NM
 Rig Name: Patriot #5
 RKB: 26'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.84°
 Grid: East To Grid
 File name: F:\SURVEY\2010SU~1\YATESP~1\BONBON1H.SVY
 Date/Time: 01-Mar-10 / 08:27
 Curve Name: Surface - 6350' M.D. (gyroscopic)

We hereby certify that our survey data from
 Surface MD to 6350 MD is, to the best of
 our knowledge a true and accurate account of the
 well bore.
 Dana Outlee 3/1/10
 MS Energy Services Date

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 89.53
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

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 JUN 10 2010
 NMOCD ARTESIA

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	Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
200.00	.25	93.02	200.00	-.02	.44	.44	.44	93.02	.12
400.00	1.00	124.12	399.99	-1.02	2.32	2.31	2.53	113.87	.40
600.00	.75	142.22	599.96	-3.04	4.56	4.54	5.48	123.66	.18
800.00	1.50	182.41	799.93	-6.69	5.25	5.20	8.51	141.84	.52
1000.00	.50	192.51	999.89	-10.16	4.96	4.87	11.30	153.99	.51
1200.00	.25	347.61	1199.89	-10.58	4.67	4.59	11.57	156.17	.37
1400.00	.50	247.70	1399.89	-10.49	3.77	3.69	11.14	160.22	.30
1600.00	.50	327.80	1599.88	-10.08	2.50	2.42	10.38	166.07	.32
1800.00	1.50	77.90	1799.86	-8.79	4.59	4.52	9.92	152.41	.87

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2000.00	3.00	81.99	1999.70	-7.51	12.34	12.27	14.45	121.34	.75
2200.00	1.25	105.10	2199.56	-7.35	19.63	19.57	20.96	110.54	.96
2400.00	.50	2.68	2399.54	-7.05	21.77	21.71	22.89	107.94	.72
2600.00	.50	274.77	2599.54	-6.11	20.94	20.89	21.82	106.25	.35
2800.00	.50	286.87	2799.53	-5.78	19.24	19.19	20.09	106.72	.05
3000.00	.25	270.97	2999.52	-5.52	17.97	17.92	18.80	107.07	.13
3200.00	.50	289.07	3199.52	-5.23	16.71	16.66	17.51	107.37	.14
3400.00	.25	329.16	3399.52	-4.57	15.66	15.62	16.31	106.26	.17
3600.00	.75	284.26	3599.51	-3.87	14.17	14.13	14.69	105.28	.30
3800.00	.50	292.36	3799.50	-3.22	12.09	12.06	12.51	104.89	.13
4000.00	.50	221.45	3999.49	-3.54	10.71	10.68	11.28	108.28	.29
4200.00	.50	208.55	4199.48	-4.96	9.71	9.67	10.90	117.04	.06
4400.00	.25	187.65	4399.48	-6.16	9.24	9.19	11.10	123.69	.14
4600.00	.50	185.75	4599.47	-7.46	9.09	9.03	11.76	129.36	.13
4800.00	.75	188.84	4799.46	-9.62	8.80	8.72	13.04	137.54	.13
5000.00	1.00	178.94	4999.44	-12.66	8.63	8.53	15.32	145.70	.15
5200.00	1.00	179.04	5199.41	-16.15	8.69	8.56	18.34	151.70	.00
5400.00	.50	188.13	5399.39	-18.76	8.60	8.45	20.63	155.37	.26
5600.00	.75	223.23	5599.38	-20.57	7.58	7.41	21.93	159.77	.22
5800.00	.75	197.33	5799.36	-22.78	6.29	6.11	23.63	164.55	.17
6000.00	1.25	178.42	5999.33	-26.21	5.96	5.75	26.88	167.18	.30
6200.00	2.00	198.51	6199.25	-31.70	4.92	4.66	32.08	171.18	.47
Last Survey Depth Recorded									
6350.00	3.75	189.69	6349.06	-39.02	3.26	2.94	39.15	175.22	1.20