



Job Number: SVCO-110351
 Company: Yates Petroleum Corporation
 Lease/Well: GEM DANDY BCG STATE 3H
 Location: Eddy County, NM
 Rig Name: Silver Oak #10
 RKB: 18'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.93°
 Grid: East To Grid
 File name: F:\SURVEY\2011\SU~1\YATES\GEMDAN3H.SVY
 Date/Time: 05-Apr-11 / 09:12
 Curve Name: Surface - 5448' M.D. (Gyroscopic)

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JUL 27 2011

NMOCD ARTESIA

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 102.25
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 5448' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
 Dana Outter 4/5/11
 MS Energy Services Date

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	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
200.00	.50	316.78	200.00	.64	-.60	-.72	.87	316.78	.25
400.00	.75	305.85	399.99	2.04	-2.26	-2.64	3.04	312.10	.14
600.00	.25	319.92	599.98	3.14	-3.60	-4.18	4.77	311.10	.26
800.00	.25	329.99	799.98	3.85	-4.10	-4.82	5.62	313.22	.02
1000.00	.25	22.06	999.97	4.63	-4.15	-5.04	6.22	318.14	.11
1200.00	.75	353.13	1199.97	6.34	-4.14	-5.39	7.57	326.82	.27
1400.00	.50	352.20	1399.95	8.50	-4.42	-6.12	9.58	332.53	.13
1600.00	.25	302.27	1599.95	9.60	-4.91	-6.83	10.78	332.92	.19
1800.00	1.00	312.34	1799.94	11.01	-6.57	-8.75	12.82	329.18	.38

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	
2000.00	1.00	329.41	1999.91	13.68	-8.74	-11.45	16.24	327.42	.15
2200.00	1.00	297.48	2199.88	15.99	-11.18	-14.32	19.51	325.04	.28
2400.00	1.25	294.90	2399.84	17.72	-14.71	-18.13	23.03	320.30	.13
2600.00	1.50	298.96	2599.78	19.90	-18.98	-22.77	27.50	316.36	.13
2800.00	1.75	299.03	2799.70	22.65	-23.94	-28.20	32.96	313.42	.13
3000.00	2.00	301.10	2999.59	25.94	-29.60	-34.42	39.35	311.23	.13
3200.00	2.00	311.17	3199.47	30.04	-35.21	-40.78	46.28	310.47	.18
3400.00	2.25	298.23	3399.34	34.19	-41.30	-47.61	53.61	309.62	.27
3600.00	2.50	309.30	3599.16	38.81	-48.13	-55.27	61.83	308.88	.26
3800.00	2.25	309.37	3798.99	44.06	-54.54	-62.65	70.12	308.93	.13
4000.00	1.75	303.45	3998.87	48.24	-60.13	-68.99	77.08	308.74	.27
4200.00	1.50	303.53	4198.79	51.37	-64.86	-74.28	82.73	308.38	.13
4400.00	1.00	285.60	4398.74	53.28	-68.72	-78.46	86.96	307.79	.31
4600.00	1.00	303.67	4598.71	54.72	-71.85	-81.83	90.32	307.29	.16
4800.00	.75	268.74	4798.69	55.66	-74.61	-84.72	93.09	306.72	.29
5000.00	.50	256.89	4998.68	55.43	-76.77	-86.78	94.69	305.83	.14
5200.00	.75	251.96	5198.67	54.83	-78.87	-88.70	96.05	304.81	.13
5400.00	.25	177.03	5398.66	53.99	-80.09	-89.72	96.59	303.98	.36
Last Survey Depth Recorded									
5448.00	.25	138.10	5446.66	53.80	-80.01	-89.61	96.42	303.92	.35