



Job Number: SVM0-140047
 Company: Yates Petroleum Corporation
 Lease/Well: Savannah State Com 3H
 Location: Eddy County, NM
 Rig Name: Silver Oak #11
 RKB: 18'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.84°
 Grid: East To Grid North
 File name: S:\2014SU-1\YATES\MO\SAVANN-1\3H.SVY
 Date/Time: 17-Jan-14 / 16:29
 Curve Name: Surface - 1880' M.D. (Rate Gyro)

NM OIL CONSERVATION
 ARTESIA DISTRICT
 JUL 09 2014

RECEIVED

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 1880' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
 Shawn Cooper 1-17-14
 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
100.00	.26	267.57	100.00	-.01	-.23	-.01	.23	267.57	.26
200.00	.22	98.73	200.00	-.05	-.26	-.05	.27	259.60	.48
300.00	.22	61.52	300.00	.01	.09	.01	.10	81.59	.14
400.00	.18	69.11	400.00	.16	.41	.16	.44	68.51	.05
500.00	.16	65.93	500.00	.27	.68	.27	.74	68.15	.02
600.00	.30	42.33	600.00	.53	.99	.53	1.12	62.02	.17
700.00	.48	8.00	699.99	1.13	1.22	1.13	1.67	47.18	.29
800.00	.88	273.68	799.99	1.60	.51	1.60	1.68	17.87	1.03
900.00	1.18	255.61	899.97	1.39	-1.25	1.39	1.87	318.08	.44

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	
1000.00	.81	224.57	999.96	.63	-2.74	.63	2.81	282.97	.64
1100.00	.81	235.75	1099.95	-.27	-3.82	-.27	3.83	265.96	.16
1200.00	.58	240.12	1199.94	-.92	-4.85	-.92	4.93	259.25	.24
1300.00	.63	240.33	1299.94	-1.44	-5.76	-1.44	5.94	255.93	.05
1400.00	.48	229.02	1399.93	-1.99	-6.56	-1.99	6.85	253.11	.19
1500.00	.53	235.15	1499.93	-2.53	-7.25	-2.53	7.68	250.77	.07
1600.00	.23	244.52	1599.93	-2.88	-7.81	-2.88	8.33	249.76	.31
1700.00	.31	326.60	1699.92	-2.74	-8.14	-2.74	8.59	251.39	.36
1800.00	.25	319.12	1799.92	-2.35	-8.43	-2.35	8.76	254.43	.07
Last Survey Depth Recorded									
1880.00	.32	299.16	1879.92	-2.11	-8.74	-2.11	8.99	256.44	.15