

30-015-36369



Job Number: SVCO-101075
 Company: Yates Petroleum
 Lease/Well: GLOW WORM ALX FED 16H
 Location: Eddy County, NM
 Rig Name: Patterson #75
 RKB: 22'
 G.L. or M.S.L.: GL

State/Country: New Mexico / USA
 Declination: 7.46°
 Grid: East To Grid
 File name: F:\SURVEY\2010SU~1\YATESP-1\GLOW16H.SVY
 Date/Time: 13-Dec-10 / 07:46
 Curve Name: Surface - 551' M.D. (Gyroscopic)

MS SURVEY

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 551' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
 Dana Outtelle 12/13/10
 MS Energy Services Date

RECEIVED

MAR 18 2011

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	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.25	293.50	100.00	.09	-.20	.09	.22	293.50	.25
200.00	.25	262.78	200.00	.15	-.62	.15	.63	283.37	.13
300.00	.25	265.49	300.00	.10	-1.05	.10	1.06	275.55	.01
400.00	.50	271.20	400.00	.09	-1.70	.09	1.71	273.16	.25
500.00	1.00	280.91	499.99	.27	-3.00	.27	3.01	275.11	.51
Last Survey Depth Recorded									
551.00	1.00	273.76	550.98	.38	-3.88	.38	3.90	275.62	.24