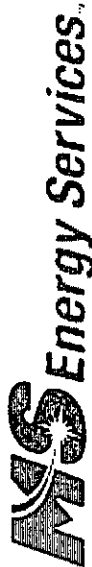


30-015-42059



Job Number: SVM0-141158
 Company: Yates Petroleum Corporation
 Lease/Well: Chamaeleon Bin State Com 2H
 Location: Eddy County, NM
 Rig Name: McVay #8
 RKB: 18.5'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.37°
 Grid: East To Grid North
 File name: S:\2014SU-11YATESIMOICHAMAE-112H.SVY
 Date/Time: 26-Aug-14 / 08:48
 Curve Name: Surface - 260' M.D. (Rate Gyro)

MS SURVEY

WINSERVE SURVEY CALCULATIONS

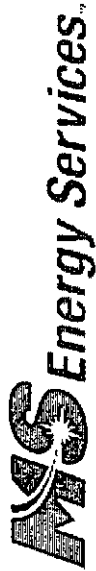
Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We, hereby certify that our survey data from
 Surface MD to 260' MD is, to the best of
 our knowledge a true and accurate account of the
 well bore.
 Curtis Bingen
 MS Energy Services
 ARTESIA DISTRICT

APR 30 2015

RECEIVED

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical		CLOSURE		Dogleg Severity Deg/100
						Section FT	FT	Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.47	208.54	100.00	-.36	-.20	-.36	.41	208.54	208.54	.47
200.00	.28	226.50	200.00	-.89	-.57	-.89	1.06	212.63	212.63	.22
Last Survey Depth Recorded										
260.00	.15	338.77	260.00	-.92	-.70	-.92	1.16	217.53	217.53	.61



Job Number: SVM0-141113
 Company: Yates Petroleum Corporation
 Lease/Well: Wolf AJA Fed 18H
 Location: Eddy County, NM
 Rig Name: McVay #10
 RKB: 18'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 6.99°
 Grid: East To Grid North
 File name: S:\2014SU-11YATES\MOIWOLFJA-1118H.SVY
 Date/Time: 18-Aug-14 / 15:47
 Curve Name: Surface - 794' M.D. (Rate Gyro)

MS SURVEY

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method
 Vertical Section Plane 253.79
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 794' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.
Joseph Brack
 MS Energy Services
 Date 8/18/14

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	.22	321.24	100.00	.15	-.12	.07	.19	321.24	.22
200.00	.47	341.93	200.00	.69	-.37	.16	.78	331.93	.28
300.00	.26	354.19	300.00	1.30	-.52	.13	1.40	338.36	.22
400.00	.12	284.26	400.00	1.56	-.64	.18	1.68	337.58	.25
500.00	.28	195.83	499.99	1.35	-.81	.40	1.57	328.97	.30
600.00	.51	188.32	599.99	.67	-.94	.72	1.16	305.51	.24
700.00	.74	191.74	699.99	-.40	-1.14	1.20	1.21	250.58	.23
Last Survey Depth Recorded									
794.00	1.13	189.37	793.97	-1.91	-1.41	1.89	2.37	216.47	.42