



Guidance Services

Job Number: 091117505310

Company: Chesapeake Operating, Inc.

Lease/Well: Plu Pierce Canyon 32 State, Well #1H

Location: Eddy County, New Mexico

Rig Name: Latshaw #6

RKB: 22'

G.L. or M.S.L.: GL

State/Country: New Mexico/USA

Declination: 7.76°

Grid: East To Grid

File name: F:\SURVEY\2009SU~1\CHESAP~1\PLU32-1H.SVY

Date/Time: 31-Mar-09 / 08:17

Curve Name: Surface - 7900' M.D. (gyroscopic)

We hereby certify that our survey data from
Surface MD to 7900' MD is, to the best of
our knowledge a true and accurate account of the
well bore.
Alfred [Signature] 3/31/09
Multi-Shot Date

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

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	.25	92.07	200.00	-.02	.44	-.02	.44	92.07	.12
400.00	.25	110.99	400.00	-.19	1.28	-.19	1.29	98.35	.04
600.00	.25	20.90	600.00	.06	1.84	.06	1.84	88.03	.18
800.00	1.25	188.81	799.98	-1.68	1.66	-1.68	2.37	135.35	.75
1000.00	.50	223.72	999.96	-4.47	.73	-4.47	4.53	170.77	.44
1200.00	1.00	338.63	1199.95	-3.48	-.51	-3.48	3.51	188.38	.65
1400.00	.25	14.55	1399.94	-1.43	-1.04	-1.43	1.77	216.01	.41
1600.00	.25	229.46	1599.94	-1.29	-1.26	-1.29	1.80	224.34	.24
1800.00	1.00	252.38	1799.92	-2.10	-3.26	-2.10	3.88	237.15	.39

30.015.34657

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	1.25	294.29	1999.89	-1.73	-6.91	-1.73	7.12	255.92	.42
2200.00	2.00	11.19	2199.82	2.59	-8.22	2.59	8.62	287.48	1.05
2400.00	.25	241.11	2399.79	5.80	-7.92	5.80	9.82	306.21	1.08
2600.00	.50	276.03	2599.78	5.68	-9.17	5.68	10.79	301.78	.16
2800.00	1.00	33.94	2799.77	7.22	-9.07	7.22	11.59	308.54	.66
3000.00	2.25	65.43	2999.69	10.30	-4.52	10.30	11.25	336.30	.75
3200.00	1.25	55.33	3199.60	13.18	.84	13.18	13.20	3.66	.52
3400.00	.25	37.24	3399.58	14.76	2.90	14.76	15.05	11.12	.51
3600.00	.50	114.15	3599.57	14.75	3.96	14.75	15.28	15.03	.25
3800.00	.25	105.06	3799.57	14.28	5.18	14.28	15.19	19.93	.13
4000.00	.25	88.98	3999.57	14.18	6.04	14.18	15.41	23.06	.03
4200.00	.50	250.89	4199.56	13.90	5.65	13.90	15.00	22.12	.37
4400.00	.75	273.80	4399.55	13.70	3.52	13.70	14.15	14.40	.17
4600.00	.75	241.72	4599.54	13.17	1.06	13.17	13.21	4.60	.21
4800.00	.50	237.63	4799.52	12.08	-.83	12.08	12.11	356.07	.13
5000.00	.75	235.54	4999.51	10.87	-2.65	10.87	11.19	346.32	.13
5200.00	1.00	239.46	5199.49	9.25	-5.23	9.25	10.62	330.51	.13
5400.00	.75	237.37	5399.47	7.65	-7.83	7.65	10.95	314.33	.13
5600.00	.75	214.28	5599.45	5.87	-9.67	5.87	11.31	301.23	.15
5800.00	.50	171.19	5799.44	3.92	-10.28	3.92	11.00	290.89	.26
6000.00	.75	159.10	5999.43	1.84	-9.68	1.84	9.85	280.75	.14
6200.00	1.00	163.01	6199.40	-1.06	-8.70	-1.06	8.76	263.08	.13
6400.00	1.00	162.92	6399.37	-4.39	-7.68	-4.39	8.85	240.22	.00
6600.00	1.25	178.84	6599.33	-8.24	-7.12	-8.24	10.89	220.83	.20
6800.00	1.25	181.75	6799.29	-12.60	-7.14	-12.60	14.49	209.54	.03
7000.00	1.25	183.14	6999.24	-16.96	-7.33	-16.96	18.48	203.37	.02
7200.00	1.50	183.05	7199.18	-21.75	-7.59	-21.75	23.04	199.23	.13
7400.00	1.50	179.96	7399.11	-26.99	-7.73	-26.99	28.07	195.98	.04
7600.00	1.50	180.87	7599.04	-32.22	-7.76	-32.22	33.14	193.55	.01
7800.00	1.25	187.79	7798.99	-37.00	-8.10	-37.00	37.88	192.35	.15

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
Last Survey Depth Recorded									
7900.00	1.75	197.70	7898.95	-39.54	-8.71	-39.54	40.48	192.43	.56