



NorAm Drilling Company

A GLOBAL RIG COMPANY ASA

Operator: XTO Energy

Well & Lease Number: GOLDENCHILD 6 STATE #1H

County: Eddy

30.015-43003

State of New Mexico

Deviation Report Rig#25

Footage	Degree
300	0.49
600	0.06
900	0.28
1200	0.73
1500	0.32
1800	1.01
2100	2.33
2400	1.12
2900	1.72
3400	0.99
3900	0.71
4400	0.69
4900	0.58
5400	0.78
5900	0.93
6400	1.30
6900	2.41
7400	2.92
7900	2.23
8415	1.80
8934	2.20
9423	2.40

NM OIL CONSERVATION

ARTESIA DISTRICT

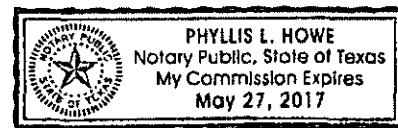
FEB 02 2016

RECEIVED

Completed by:

Will Luker

Will Luker, Safety Director
NorAm Drilling Company



Appeared before me on:

12/2/15

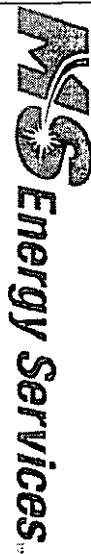
Notary Public:

Phyllis L. Howe

8400 N. Sam Houston Parkway West • Suite 120 • Houston, TX 77064 USA • Phone: (281) 598-9200 • Fax (281) 598-9220

1804 Rotary Drive • Humble, TX 77338 USA • Phone: (281) 540-7070 • Fax (281) 540-7071

www.noramdrilling.com



Job Number: SVMO-150713
 Company: XTO Energy, Inc.
 Lease/Well: Goldenchild 6 State 1H
 Location: Eddy County, NM
 Rig Name: Noram 25
 RKB: 25'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.32°
 Grid: East To True Grid
 File name: S:\2015SU-1\XTOENE-1\MOIGOLDEN-1\STATE-1\1H.SVY
 Date/Time: 18-Sep-15 / 13:06
 Curve Name: Surface - 8227' 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
 MD to 8227' MD is, to the best of
 our knowledge a true and accurate account of the
 wellbore.
 James Benson 9/17/15
 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	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
100.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.16	96.72	100.00	-.02	.14	-.02	.14	96.72	.16
200.00	.64	16.52	200.00	.50	.44	.50	.67	40.94	.63
300.00	.49	15.20	299.99	1.45	.71	1.45	1.61	25.98	.15
400.00	.11	102.88	399.99	1.84	.91	1.84	2.06	26.36	.50
500.00	.03	31.19	499.99	1.84	1.02	1.84	2.11	28.96	.10
600.00	.06	316.23	599.99	1.90	1.00	1.90	2.15	27.65	.06
700.00	.10	299.72	699.99	1.98	.89	1.98	2.17	24.04	.05
800.00	.19	308.84	799.99	2.13	.68	2.13	2.24	17.70	.09
900.00	.28	247.98	899.99	2.14	.32	2.14	2.17	8.61	.25
1000.00	.29	167.87	999.99	1.80	.15	1.80	1.81	4.79	.37
1100.00	.35	80.19	1099.99	1.61	.51	1.61	1.69	17.43	.45
1200.00	.73	330.96	1199.99	2.22	.50	2.22	2.27	12.63	.91

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
1300.00	.62	227.05	1299.98	2.41	-.21	2.41	2.42	355.06	1.07
1400.00	.56	139.94	1399.98	1.66	-.29	1.66	1.69	350.13	.81
1500.00	.32	124.98	1499.97	1.13	.25	1.13	1.16	12.65	.26
1600.00	.73	94.28	1599.97	.92	1.12	.92	1.45	50.47	.48
1700.00	1.55	75.90	1699.95	1.20	3.06	1.20	3.29	68.55	.89
1800.00	1.01	84.57	1799.92	1.62	5.25	1.62	5.50	72.89	.57
1900.00	.93	102.68	1899.91	1.52	6.92	1.52	7.09	77.60	.32
2000.00	1.46	88.01	1999.89	1.39	8.99	1.39	9.09	81.22	.61
2100.00	2.33	54.90	2099.84	2.60	11.92	2.60	12.20	77.69	1.36
2200.00	1.64	60.90	2199.78	4.47	14.84	4.47	15.50	73.25	.72
2300.00	1.21	85.47	2299.75	5.25	17.14	5.25	17.93	72.98	.74
2400.00	1.12	69.72	2399.72	5.67	19.11	5.67	19.93	73.48	.33
2500.00	1.12	319.48	2499.71	6.75	19.39	6.75	20.53	70.81	1.84
2600.00	.84	316.66	2599.70	8.03	18.25	8.03	19.94	66.27	.28
2700.00	1.00	318.30	2699.69	9.21	17.17	9.21	19.48	61.79	.16
2800.00	1.71	316.67	2799.66	10.95	15.57	10.95	19.03	54.88	.71
2900.00	1.72	317.41	2899.61	13.14	13.53	13.14	18.86	45.84	.02
3000.00	1.80	320.22	2999.57	15.45	11.51	15.45	19.26	36.68	.12
3100.00	1.44	315.28	3099.53	17.55	9.62	17.55	20.01	28.72	.39
3200.00	1.34	311.21	3199.50	19.21	7.85	19.21	20.76	22.23	.14
3300.00	1.08	309.84	3299.47	20.59	6.25	20.59	21.51	16.89	.26
3400.00	.99	301.79	3399.46	21.65	4.79	21.65	22.17	12.48	.17
3500.00	.87	308.00	3499.44	22.57	3.46	22.57	22.83	8.71	.16
3600.00	.67	313.02	3599.44	23.43	2.43	23.43	23.56	5.93	.21
3700.00	.74	315.06	3699.43	24.29	1.55	24.29	24.34	3.65	.07
3800.00	.73	309.61	3799.42	25.15	.60	25.15	25.16	1.37	.07
3900.00	.71	306.04	3899.41	25.92	-.39	25.92	25.93	359.14	.05
4000.00	.73	295.47	3999.40	26.56	-1.46	26.56	26.60	356.84	.13
4100.00	.66	296.48	4099.40	27.09	-2.56	27.09	27.21	354.61	.07
4200.00	.68	283.91	4199.39	27.49	-3.65	27.49	27.73	352.44	.15
4300.00	.64	282.38	4299.38	27.76	-4.77	27.76	28.16	350.25	.04
4400.00	.69	261.21	4399.38	27.78	-5.91	27.78	28.40	347.99	.25
4500.00	.63	248.90	4499.37	27.49	-7.02	27.49	28.37	345.68	.15
4600.00	.53	251.05	4599.36	27.14	-7.97	27.14	28.29	343.64	.10

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
4700.00	.45	240.20	4699.36	26.80	-8.75	26.80	28.19	341.93	.12
4800.00	.50	232.52	4799.36	26.34	-9.43	26.34	27.98	340.30	.08
4900.00	.58	232.04	4899.35	25.76	-10.18	25.76	27.70	338.44	.08
5000.00	.72	230.55	4999.35	25.05	-11.06	25.05	27.39	336.18	.14
5100.00	.83	208.05	5099.34	24.01	-11.89	24.01	26.79	333.66	.32
5200.00	.81	203.11	5199.33	22.72	-12.51	22.72	25.94	331.17	.07
5300.00	.76	196.33	5299.32	21.44	-12.97	21.44	25.06	328.83	.11
5400.00	.78	194.41	5399.31	20.14	-13.33	20.14	24.15	326.51	.03
5500.00	.76	191.77	5499.30	18.83	-13.63	18.83	23.25	324.11	.04
5600.00	.80	193.45	5599.29	17.50	-13.93	17.50	22.37	321.49	.05
5700.00	.90	192.64	5699.28	16.06	-14.26	16.06	21.48	318.39	.10
5800.00	.81	201.85	5799.27	14.64	-14.70	14.64	20.74	314.88	.16
5900.00	.93	201.86	5899.26	13.23	-15.26	13.23	20.20	310.92	.12
6000.00	.96	203.64	5999.24	11.71	-15.90	11.71	19.75	306.36	.04
6100.00	1.09	203.74	6099.23	10.07	-16.62	10.07	19.43	301.21	.13
6200.00	1.02	215.44	6199.21	8.47	-17.52	8.47	19.46	295.81	.23
6300.00	1.24	222.87	6299.19	6.96	-18.77	6.96	20.02	290.33	.26
6400.00	1.30	278.64	6399.17	6.33	-20.63	6.33	21.58	287.07	1.19
6500.00	1.25	272.99	6499.15	6.56	-22.84	6.56	23.76	286.03	.14
6600.00	1.39	270.13	6599.12	6.62	-25.14	6.62	26.00	284.75	.15
6700.00	2.12	267.90	6699.07	6.55	-28.20	6.55	28.95	283.08	.73
6800.00	2.46	261.22	6798.99	6.16	-32.17	6.16	32.76	280.84	.43
6900.00	2.41	260.48	6898.90	5.48	-36.37	5.48	36.78	278.58	.06
7000.00	2.33	262.22	6998.82	4.86	-40.45	4.86	40.74	276.85	.11
7100.00	2.41	263.08	7098.73	4.33	-44.56	4.33	44.77	275.55	.09
7200.00	2.56	254.33	7198.64	3.48	-48.79	3.48	48.92	274.07	.41
7300.00	2.73	249.55	7298.53	2.04	-53.17	2.04	53.21	272.20	.28
7400.00	2.92	242.65	7398.41	.04	-57.67	.04	57.67	270.04	.39
7500.00	2.56	232.47	7498.30	-2.49	-61.70	-2.49	61.75	267.69	.60
7600.00	2.30	213.75	7598.21	-5.52	-64.59	-5.52	64.82	265.11	.83
7700.00	1.68	211.85	7698.15	-8.43	-66.48	-8.43	67.01	262.77	.62
7800.00	1.54	208.60	7798.11	-10.86	-67.89	-10.86	68.76	260.91	.17
7900.00	2.23	218.46	7898.05	-13.56	-69.75	-13.56	71.05	259.00	.76
8000.00	4.01	227.54	7997.90	-17.45	-73.54	-17.45	75.58	256.65	1.84

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
8100.00	2.40	229.91	8097.74	-21.16	-77.72	-21.16	80.55	254.77	1.62
8200.00	2.58	211.67	8197.65	-24.42	-80.50	-24.42	84.12	253.12	.81
Last Survey Depth Recorded									
8227.00	2.78	273.41	8224.62	-24.90	-81.47	-24.90	85.19	253.01	10.20