

XTO Energy Inc

Nash Unit 44H

Eddy County, NM

Pioneer 33

API# 30-015-42195-0000

September 1, 2014-September 25, 2014

MO-XX-901581256

Sperry Drilling

MWD Survey Report

Submitted by Logan Tucker

3950 Interwood S. Pkwy. Houston Texas 77032

Ph: 281.986.4400

HALLIBURTON

**Drilling and Formation
Evaluation**

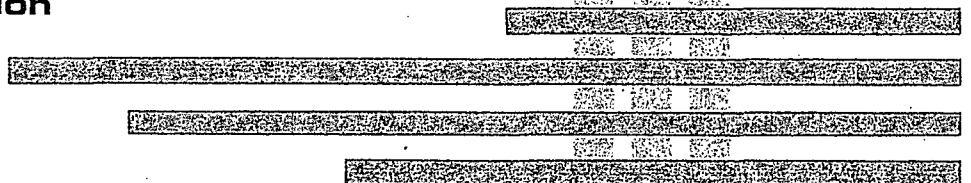


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GENERAL INFORMATION

Company	: XTO Energy Inc.
Rig	: Pioneer 33
Well	: Nash Unit 44H
Field	: Nash Draw
State	: New Mexico
County	: Eddy
Country	: USA
API Number	: 30-015-42195-0000
Sperry Drilling Job Number	: MO-XX-0901581256
Job Start Date	: 01-Sep-14
Job End Date	: 25-Sep-14
North Reference	: Grid
Total Correction (deg)	: 7.313
Dip Angle (deg)	: 60.118
Total Magnetic Field (nT)	: 48291
Date of Magnetic Data	: 02 September, 2014
Well Head coordinates N	: 32 deg. 18 min 38.51 sec North
Well Head coordinates E	: 103 deg. 55 min 41.15 sec West
Vertical section direction (deg)	: 1.47
Unit Number	: 11310662
MWD Engineers	: Brandon Prejean, Logan Tucker, Mike Meller
Company Representatives	: Rowdy Brown, Tony Freeman
Company Geologist:	: Brian Henthorn,

DIRECTIONAL SURVEY DATA

Tie-in

0.00

0.00

0.00

0.00

0.00 N

0.00 E

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100)
100.00	0.55	282.59	100.00	0.10 N	0.47 W	0.09	0.55
200.00	0.28	319.20	200.00	0.39 N	1.10 W	0.37	0.37
300.00	0.23	337.43	299.99	0.76 N	1.33 W	0.73	0.09
400.00	0.26	344.65	399.99	1.17 N	1.47 W	1.13	0.04
500.00	0.21	337.82	499.99	1.56 N	1.60 W	1.52	0.06
600.00	0.41	352.70	599.99	2.08 N	1.71 W	2.04	0.21
700.00	0.22	346.88	699.99	2.62 N	1.80 W	2.58	0.19
800.00	0.22	337.87	799.99	2.99 N	1.92 W	2.94	0.03
900.00	0.37	329.24	899.99	3.44 N	2.16 W	3.39	0.16
1000.00	0.35	244.89	999.99	3.59 N	2.60 W	3.52	0.48
1100.00	0.30	232.30	1,099.99	3.30 N	3.08 W	3.22	0.09
1200.00	0.35	219.61	1,199.98	2.91 N	3.48 W	2.82	0.09
1300.00	0.58	229.96	1,299.98	2.35 N	4.07 W	2.24	0.24
1400.00	0.58	225.75	1,399.98	1.67 N	4.82 W	1.54	0.04
1500.00	0.69	230.59	1,499.97	0.93 N	5.64 W	0.79	0.12
1600.00	1.04	194.74	1,599.96	0.33 S	6.34 W	-0.49	0.63
1700.00	0.74	168.20	1,699.95	1.84 S	6.44 W	-2.00	0.50
1800.00	0.54	159.75	1,799.94	2.91 S	6.14 W	-3.07	0.22
1900.00	0.76	154.35	1,899.93	3.95 S	5.69 W	-4.10	0.23
2000.00	0.56	149.18	1,999.93	4.97 S	5.16 W	-5.10	0.21
2100.00	0.63	135.18	2,099.92	5.78 S	4.52 W	-5.89	0.16
2200.00	0.79	91.00	2,199.92	6.18 S	3.44 W	-6.27	0.55
2300.00	1.20	64.83	2,299.90	5.75 S	1.80 W	-5.79	0.60
2400.00	1.80	63.38	2,399.87	4.60 S	0.55 E	-4.58	0.60
2500.00	2.57	86.89	2,499.79	3.77 S	4.19 E	-3.67	1.17
2600.00	3.14	99.90	2,599.67	4.12 S	9.13 E	-3.89	0.86
2700.00	3.22	101.87	2,699.52	5.17 S	14.57 E	-4.80	0.14
2800.00	3.16	105.96	2,799.36	6.51 S	19.97 E	-5.99	0.24
2900.00	3.00	116.05	2,899.22	8.41 S	24.97 E	-7.77	0.56
3000.00	2.67	122.35	2,999.10	10.81 S	29.29 E	-10.05	0.45
3100.00	2.14	121.37	3,099.01	13.03 S	32.85 E	-12.18	0.53
3200.00	1.70	124.89	3,198.95	14.85 S	35.66 E	-13.93	0.46
3300.00	1.28	130.59	3,298.92	16.42 S	37.73 E	-15.45	0.44
3400.00	1.22	125.77	3,398.89	17.77 S	39.44 E	-16.76	0.12
3500.00	1.09	123.65	3,498.87	18.92 S	41.10 E	-17.86	0.14
3600.00	1.13	120.45	3,598.85	19.95 S	42.74 E	-18.85	0.07
3700.00	1.29	111.10	3,698.83	20.85 S	44.64 E	-19.70	0.25
3800.00	1.01	112.24	3,798.81	21.59 S	46.50 E	-20.39	0.28
3900.00	1.16	108.07	3,898.79	22.24 S	48.28 E	-20.99	0.17
4000.00	0.71	119.78	3,998.78	22.86 S	49.78 E	-21.58	0.49
4100.00	0.83	119.15	4,098.77	23.52 S	50.95 E	-22.21	0.12

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100)
4200.00	0.60	117.72	4,198.76	24.12 S	52.05 E	-22.78	0.23
4300.00	0.37	121.22	4,298.76	24.53 S	52.79 E	-23.17	0.23
4400.00	0.57	124.67	4,398.76	24.98 S	53.47 E	-23.60	0.20
4500.00	0.52	125.89	4,498.75	25.53 S	54.25 E	-24.13	0.05
4600.00	0.31	123.58	4,598.75	25.94 S	54.84 E	-24.53	0.21
4700.00	0.08	125.81	4,698.75	26.13 S	55.13 E	-24.71	0.23
4800.00	0.11	131.23	4,798.75	26.24 S	55.25 E	-24.81	0.03
4900.00	0.12	141.19	4,898.75	26.38 S	55.39 E	-24.95	0.02
5000.00	0.03	151.55	4,998.75	26.49 S	55.47 E	-25.06	0.09
5100.00	0.33	175.24	5,098.75	26.80 S	55.51 E	-25.37	0.30
5200.00	0.37	171.02	5,198.75	27.40 S	55.58 E	-25.97	0.05
5300.00	0.35	176.87	5,298.74	28.03 S	55.65 E	-26.59	0.04
5400.00	0.60	181.45	5,398.74	28.86 S	55.65 E	-27.42	0.25
5500.00	0.78	180.52	5,498.73	30.06 S	55.63 E	-28.62	0.18
5600.00	0.85	187.64	5,598.72	31.48 S	55.53 E	-30.04	0.12
5700.00	0.63	195.50	5,698.71	32.74 S	55.28 E	-31.31	0.24
5800.00	0.61	197.02	5,798.71	33.78 S	54.98 E	-32.36	0.03
5900.00	0.41	183.30	5,898.70	34.65 S	54.80 E	-33.23	0.23
5940.00	0.35	180.93	5,938.70	34.91 S	54.79 E	-33.49	0.16
6025.00	2.03	359.30	6,023.69	33.67 S	54.77 E	-32.25	2.80
6056.00	5.34	12.81	6,054.62	31.71 S	55.08 E	-30.29	10.97
6088.00	8.61	3.18	6,086.38	27.86 S	55.55 E	-26.43	10.83
6125.00	13.25	8.78	6,122.70	20.90 S	56.35 E	-19.45	12.85
6153.00	16.38	8.72	6,149.77	13.83 S	57.44 E	-12.35	11.15
6183.00	19.87	9.26	6,178.27	4.61 S	58.90 E	-3.10	11.67
6213.00	23.64	9.59	6,206.13	6.36 N	60.72 E	7.91	12.58
6243.00	27.19	8.86	6,233.22	19.07 N	62.78 E	20.67	11.86
6275.00	28.76	8.62	6,261.48	33.90 N	65.06 E	35.56	4.93
6307.00	28.96	8.50	6,289.51	49.18 N	67.36 E	50.89	0.63
6338.00	28.67	8.53	6,316.67	63.95 N	69.57 E	65.72	0.92
6370.00	28.65	8.02	6,344.75	79.14 N	71.78 E	80.96	0.77
6401.00	29.10	6.05	6,371.90	94.00 N	73.61 E	95.85	3.40
6434.00	29.71	5.20	6,400.64	110.12 N	75.20 E	112.01	2.23
6465.00	29.88	5.20	6,427.55	125.46 N	76.60 E	127.38	0.57
6497.00	30.88	2.74	6,455.15	141.60 N	77.71 E	143.55	4.98
6528.00	30.76	1.34	6,481.78	157.47 N	78.28 E	159.43	2.35
6559.00	30.23	0.63	6,508.49	173.20 N	78.55 E	175.16	2.05
6591.00	31.90	0.39	6,535.90	189.71 N	78.69 E	191.67	5.22
6622.00	35.16	0.28	6,561.73	206.83 N	78.79 E	208.79	10.50
6653.00	38.32	0.81	6,586.57	225.37 N	78.97 E	227.33	10.26
6685.00	40.67	0.64	6,611.27	245.72 N	79.23 E	247.67	7.35
6716.00	43.43	0.27	6,634.28	266.48 N	79.39 E	268.43	8.93
6747.00	45.75	0.41	6,656.36	288.24 N	79.52 E	290.19	7.49
6779.00	48.08	0.11	6,678.22	311.61 N	79.63 E	313.55	7.31
6810.00	50.45	0.49	6,698.45	335.10 N	79.75 E	337.03	7.70

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100)
6841.00	52.56	0.46	6,717.75	359.36 N	79.95 E	361.29	6.82
6872.00	54.35	0.42	6,736.20	384.26 N	80.14 E	386.19	5.79
6903.00	56.25	0.46	6,753.85	409.74 N	80.34 E	411.67	6.12
6934.00	57.48	0.46	6,770.79	435.70 N	80.55 E	437.62	3.97
6966.00	59.34	0.37	6,787.56	462.96 N	80.74 E	464.88	5.83
6998.00	61.87	0.11	6,803.26	490.84 N	80.86 E	492.75	7.94
7030.00	63.63	0.28	6,817.91	519.28 N	80.95 E	521.19	5.51
7062.00	65.56	0.04	6,831.64	548.19 N	81.03 E	550.09	6.07
7094.00	67.85	0.28	6,844.29	577.58 N	81.12 E	579.47	7.18
7125.00	70.22	0.46	6,855.38	606.53 N	81.30 E	608.41	7.67
7157.00	72.55	0.54	6,865.59	636.85 N	81.57 E	638.73	7.28
7188.00	74.42	0.93	6,874.40	666.57 N	81.95 E	668.45	6.15
7219.00	76.46	1.16	6,882.19	696.56 N	82.50 E	698.45	6.61
7250.00	78.05	1.21	6,889.03	726.79 N	83.12 E	728.69	5.13
7282.00	79.89	1.34	6,895.15	758.19 N	83.82 E	760.09	5.77
7335.00	81.87	0.29	6,903.55	810.51 N	84.56 E	812.42	4.22
7366.00	82.51	359.94	6,907.76	841.23 N	84.62 E	843.12	2.35
7457.00	85.35	0.52	6,917.38	931.71 N	84.98 E	933.58	3.18
7550.00	90.31	0.03	6,920.90	1,024.61 N	85.42 E	1026.46	5.36
7641.00	95.34	0.36	6,916.42	1,115.47 N	85.74 E	1117.30	5.55
7733.00	96.33	0.19	6,907.06	1,206.99 N	86.18 E	1208.80	1.09
7825.00	94.17	0.33	6,898.65	1,298.60 N	86.60 E	1300.39	2.36
7921.00	90.74	1.83	6,894.54	1,394.48 N	88.40 E	1396.28	3.89
8016.00	91.42	2.84	6,892.75	1,489.38 N	92.27 E	1491.26	1.28
8112.00	90.86	0.75	6,890.84	1,585.31 N	95.28 E	1587.23	2.26
8207.00	90.74	359.90	6,889.51	1,680.29 N	95.82 E	1682.20	0.90
8302.00	92.22	359.80	6,887.06	1,775.26 N	95.57 E	1777.13	1.56
8333.00	89.91	1.47	6,886.48	1,806.25 N	95.91 E	1808.12	9.20
8365.00	89.81	1.23	6,886.56	1,838.24 N	96.67 E	1840.12	0.80
8397.00	87.63	1.58	6,887.28	1,870.22 N	97.45 E	1872.11	6.93
8429.00	85.79	1.12	6,889.11	1,902.16 N	98.21 E	1904.05	5.92
8461.00	83.50	0.46	6,892.10	1,934.01 N	98.65 E	1935.91	7.46
8493.00	83.03	1.01	6,895.86	1,965.79 N	99.05 E	1967.68	2.24
8524.00	83.67	1.86	6,899.44	1,996.57 N	99.83 E	1998.47	3.43
8556.00	85.33	0.96	6,902.51	2,028.41 N	100.61 E	2030.33	5.91
8588.00	87.44	0.34	6,904.53	2,060.34 N	100.97 E	2062.26	6.86
8620.00	89.94	359.73	6,905.26	2,092.33 N	100.99 E	2094.24	8.03
8651.00	91.73	0.11	6,904.81	2,123.33 N	100.94 E	2125.22	5.90
8682.00	92.47	359.81	6,903.67	2,154.31 N	100.92 E	2156.19	2.58
8714.00	90.95	359.06	6,902.72	2,186.29 N	100.60 E	2188.15	5.28
8778.00	85.83	358.77	6,904.51	2,250.23 N	99.39 E	2252.04	8.02
8810.00	85.42	358.74	6,906.96	2,282.13 N	98.70 E	2283.91	1.29
8841.00	85.63	359.06	6,909.38	2,313.03 N	98.10 E	2314.79	1.24
8873.00	86.64	359.41	6,911.53	2,344.95 N	97.68 E	2346.69	3.35
8904.00	88.30	0.43	6,912.90	2,375.92 N	97.63 E	2377.65	6.28

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100)
8936.00	88.95	0.97	6,913.67	2,407.91 N	98.02 E	2409.63	2.64
8968.00	90.37	1.38	6,913.86	2,439.90 N	98.68 E	2441.63	4.62
9000.00	91.23	1.71	6,913.41	2,471.89 N	99.54 E	2473.63	2.89
9032.00	92.93	2.73	6,912.25	2,503.84 N	100.78 E	2505.60	6.19
9065.00	93.86	2.50	6,910.29	2,536.75 N	102.28 E	2538.54	2.88
9096.00	94.21	2.61	6,908.11	2,567.64 N	103.66 E	2569.46	1.19
9127.00	94.09	2.93	6,905.87	2,598.52 N	105.16 E	2600.37	1.08
9159.00	92.87	2.08	6,903.93	2,630.43 N	106.55 E	2632.30	4.65
9191.00	92.01	1.63	6,902.57	2,662.39 N	107.58 E	2664.27	3.04
9222.00	92.12	2.44	6,901.45	2,693.35 N	108.68 E	2695.25	2.66
9254.00	91.97	2.15	6,900.31	2,725.30 N	109.96 E	2727.23	1.04
9286.00	90.83	1.46	6,899.52	2,757.28 N	110.97 E	2759.21	4.16
9318.00	90.37	1.58	6,899.19	2,789.26 N	111.82 E	2791.21	1.50
9350.00	89.02	1.39	6,899.36	2,821.25 N	112.65 E	2823.21	4.27
9382.00	89.75	2.17	6,899.70	2,853.23 N	113.65 E	2855.21	3.34
9414.00	90.06	2.25	6,899.75	2,885.21 N	114.88 E	2887.21	1.00
9446.00	90.89	3.04	6,899.49	2,917.17 N	116.36 E	2919.20	3.57
9477.00	89.72	1.94	6,899.32	2,948.14 N	117.70 E	2950.19	5.17
9509.00	90.09	3.51	6,899.37	2,980.10 N	119.22 E	2982.18	5.03
9541.00	90.37	3.68	6,899.24	3,012.04 N	121.23 E	3014.16	1.02
9588.00	90.86	3.60	6,898.74	3,058.94 N	124.21 E	3061.12	1.06
9636.00	90.55	4.20	6,898.14	3,106.83 N	127.47 E	3109.08	1.40
9700.00	89.88	4.08	6,897.90	3,170.66 N	132.09 E	3173.01	1.07
9731.00	88.52	3.19	6,898.33	3,201.59 N	134.06 E	3203.98	5.24
9795.00	89.01	3.90	6,899.71	3,265.46 N	138.01 E	3267.92	1.35
9827.00	90.52	5.11	6,899.84	3,297.36 N	140.53 E	3299.88	6.05
9922.00	91.11	4.26	6,898.49	3,392.03 N	148.29 E	3394.72	1.08
9954.00	90.37	4.13	6,898.08	3,423.94 N	150.63 E	3426.68	2.34
10017.00	90.46	4.23	6,897.62	3,486.77 N	155.22 E	3489.60	0.22
10049.00	88.98	3.15	6,897.77	3,518.70 N	157.28 E	3521.58	5.72
10113.00	90.56	2.99	6,898.03	3,582.61 N	160.71 E	3585.55	2.47
10208.00	88.83	1.26	6,898.54	3,677.53 N	164.23 E	3680.54	2.57
10272.00	88.86	1.85	6,899.83	3,741.50 N	165.96 E	3744.52	0.93
10304.00	90.99	4.66	6,899.87	3,773.44 N	167.78 E	3776.50	11.01
10399.00	90.37	2.30	6,898.75	3,868.25 N	173.54 E	3871.43	2.56
10494.00	88.06	357.17	6,900.05	3,963.20 N	173.11 E	3966.34	5.92
10526.00	88.92	358.32	6,900.89	3,995.17 N	171.85 E	3998.26	4.47
10589.00	90.12	358.83	6,901.42	4,058.14 N	170.29 E	4061.18	2.07
10684.00	89.48	355.05	6,901.75	4,152.99 N	165.21 E	4155.86	4.03
10779.00	88.03	353.76	6,903.82	4,247.51 N	155.95 E	4250.11	2.05
10874.00	88.40	353.42	6,906.78	4,341.87 N	145.35 E	4344.17	0.53
10970.00	92.89	356.46	6,905.70	4,437.45 N	136.89 E	4439.51	5.65
11065.00	90.40	354.09	6,902.97	4,532.08 N	129.07 E	4533.90	3.62
11160.00	90.65	355.29	6,902.10	4,626.66 N	120.28 E	4628.23	1.28
11256.00	90.22	356.26	6,901.38	4,722.40 N	113.21 E	4723.75	1.11

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
11319.00	90.00	358.17	6,901.26	4,785.32 N	110.15 E	4786.57	3.05
11350.00	91.45	0.23	6,900.87	4,816.31 N	109.71 E	4817.54	8.11
11446.00	90.52	2.91	6,899.22	4,912.25 N	112.35 E	4913.52	2.96
11541.00	90.74	3.42	6,898.17	5,007.10 N	117.60 E	5008.47	0.58
11636.00	89.57	3.39	6,897.91	5,101.93 N	123.24 E	5103.42	1.23
11731.00	89.97	4.18	6,898.30	5,196.72 N	129.51 E	5198.34	0.93
11827.00	90.22	5.25	6,898.14	5,292.40 N	137.39 E	5294.18	1.15
11922.00	91.05	4.44	6,897.09	5,387.05 N	145.42 E	5389.01	1.22
12018.00	89.57	3.34	6,896.58	5,482.82 N	151.93 E	5484.92	1.92
12113.00	90.43	3.31	6,896.57	5,577.66 N	157.45 E	5579.87	0.91
12208.00	90.40	3.04	6,895.88	5,672.51 N	162.71 E	5674.82	0.29
12304.00	91.32	4.01	6,894.44	5,768.32 N	168.62 E	5770.75	1.39
12349.00	92.07	5.08	6,893.11	5,813.16 N	172.18 E	5815.66	2.90
12399.00	90.96	4.25	6,891.79	5,862.97 N	176.25 E	5865.57	2.77
12422.00	91.17	4.50	6,891.36	5,885.90 N	178.01 E	5888.53	1.41
12517.00	87.87	2.64	6,892.15	5,980.70 N	183.92 E	5983.45	3.98
12612.00	91.33	4.67	6,892.82	6,075.48 N	189.98 E	6078.36	4.21
12706.00	88.37	3.30	6,893.07	6,169.24 N	196.51 E	6172.25	3.47
12802.00	87.29	2.55	6,896.71	6,265.05 N	201.40 E	6268.15	1.37
12897.00	90.00	4.11	6,898.96	6,359.85 N	206.91 E	6363.06	3.30
12992.00	87.10	359.19	6,901.37	6,454.74 N	209.65 E	6457.99	6.01
13087.00	87.23	357.42	6,906.07	6,549.58 N	206.84 E	6552.73	1.87
13182.00	87.78	356.72	6,910.21	6,644.36 N	201.99 E	6647.36	0.94
13214.00	88.86	357.64	6,911.15	6,676.31 N	200.41 E	6679.25	4.44
13245.00	90.26	358.35	6,911.39	6,707.29 N	199.33 E	6710.19	5.07
13277.00	91.26	358.62	6,910.96	6,739.27 N	198.48 E	6742.15	3.23
13372.00	91.48	358.38	6,908.69	6,834.21 N	195.99 E	6836.99	0.34
13468.00	88.43	357.12	6,908.77	6,930.13 N	192.23 E	6932.78	3.44
13563.00	92.00	358.54	6,908.41	7,025.04 N	188.63 E	7027.57	4.05
13658.00	94.38	358.69	6,903.11	7,119.86 N	186.34 E	7122.29	2.51
13754.00	92.84	359.88	6,897.06	7,215.65 N	185.14 E	7218.03	2.03
13848.00	90.15	359.06	6,894.61	7,309.61 N	184.27 E	7311.93	2.99
13943.00	86.45	0.59	6,897.42	7,404.55 N	183.99 E	7406.83	4.22
14038.00	92.74	2.79	6,898.08	7,499.45 N	186.79 E	7501.77	7.01
14133.00	91.54	1.35	6,894.53	7,594.32 N	190.21 E	7596.70	1.97
14228.00	91.51	0.30	6,892.00	7,689.27 N	191.57 E	7691.66	1.11
14323.00	89.01	0.13	6,891.57	7,784.26 N	191.92 E	7786.63	2.63
14418.00	92.87	2.56	6,890.01	7,879.20 N	194.15 E	7881.59	4.79
14545.00	90.90	0.86	6,885.84	8,006.06 N	197.93 E	8008.51	2.05
14640.00	87.63	0.16	6,887.06	8,101.04 N	198.78 E	8103.47	3.52
14672.00	88.21	1.36	6,888.22	8,133.01 N	199.21 E	8135.45	4.17
14703.00	87.97	0.86	6,889.26	8,163.99 N	199.81 E	8166.43	1.79
14735.00	90.25	1.11	6,889.75	8,195.98 N	200.36 E	8198.42	7.16
14767.00	91.66	2.60	6,889.22	8,227.96 N	201.40 E	8230.42	6.42
14799.00	91.51	3.12	6,888.34	8,259.90 N	202.99 E	8262.39	1.67

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100)
14830.00	90.95	3.62	6,887.67	8,290.84 N	204.81 E	8293.37	2.40
14861.00	90.43	3.42	6,887.30	8,321.78 N	206.72 E	8324.35	1.81
14894.00	90.40	3.22	6,887.06	8,354.73 N	208.63 E	8357.33	0.60
14925.00	90.09	4.71	6,886.93	8,385.65 N	210.77 E	8388.30	4.92
14957.00	88.28	4.54	6,887.38	8,417.54 N	213.35 E	8420.25	5.70
14989.00	90.03	6.48	6,887.85	8,449.39 N	216.42 E	8452.16	8.17
15020.00	91.38	7.64	6,887.47	8,480.15 N	220.23 E	8483.01	5.75
15052.00	90.40	7.83	6,886.97	8,511.85 N	224.54 E	8514.81	3.13
15084.00	90.83	7.65	6,886.63	8,543.56 N	228.85 E	8546.62	1.47
15116.00	91.63	10.30	6,885.94	8,575.16 N	233.83 E	8578.34	8.65
15147.00	90.06	9.65	6,885.48	8,605.69 N	239.20 E	8608.99	5.48
15179.00	89.51	10.58	6,885.60	8,637.19 N	244.82 E	8640.63	3.39
15210.00	90.03	10.34	6,885.73	8,667.67 N	250.45 E	8671.25	1.86
15242.00	89.29	9.59	6,885.92	8,699.19 N	255.98 E	8702.89	3.28
15274.00	87.43	8.61	6,886.83	8,730.77 N	261.04 E	8734.60	6.57
15306.00	86.77	7.85	6,888.45	8,762.40 N	265.61 E	8766.33	3.15
15337.00	86.09	7.71	6,890.38	8,793.06 N	269.80 E	8797.09	2.23
15369.00	85.87	7.49	6,892.62	8,824.70 N	274.02 E	8828.82	0.97
15401.00	84.87	7.01	6,895.21	8,856.34 N	278.05 E	8860.56	3.46
15432.00	83.61	6.31	6,898.32	8,886.97 N	281.63 E	8891.27	4.65
15464.00	84.46	5.73	6,901.65	8,918.62 N	284.97 E	8923.00	3.23
15496.00	85.43	5.55	6,904.47	8,950.34 N	288.10 E	8954.79	3.07
15527.00	85.90	5.45	6,906.81	8,981.11 N	291.06 E	8985.62	1.56
15559.00	86.12	4.92	6,909.04	9,012.90 N	293.95 E	9017.48	1.79
15591.00	87.29	4.35	6,910.88	9,044.75 N	296.53 E	9049.38	4.09
15623.00	87.41	4.01	6,912.36	9,076.63 N	298.86 E	9081.31	1.13
15655.00	88.09	4.64	6,913.61	9,108.51 N	301.27 E	9113.24	2.90
15687.00	88.98	4.77	6,914.43	9,140.39 N	303.89 E	9145.18	2.81
15718.00	89.72	4.92	6,914.78	9,171.28 N	306.51 E	9176.12	2.43
15750.00	90.53	4.83	6,914.71	9,203.16 N	309.23 E	9208.07	2.52
15782.00	90.97	4.32	6,914.29	9,235.06 N	311.78 E	9240.02	2.10
15813.00	90.49	3.72	6,913.90	9,265.98 N	313.96 E	9270.98	2.48
15877.00	89.51	3.39	6,913.90	9,329.86 N	317.92 E	9334.94	1.62
15972.00	90.56	3.25	6,913.84	9,424.69 N	323.43 E	9429.89	1.12
16067.00	90.03	1.36	6,913.36	9,519.61 N	327.25 E	9524.87	2.07
16162.00	91.67	1.89	6,911.95	9,614.56 N	329.94 E	9619.86	1.81
16257.00	92.12	1.44	6,908.81	9,709.47 N	332.71 E	9714.81	0.67
16351.00	92.12	2.56	6,905.33	9,803.34 N	335.99 E	9808.74	1.19
16447.00	90.40	0.53	6,903.21	9,899.28 N	338.57 E	9904.70	2.77
16542.00	91.26	2.04	6,901.83	9,994.24 N	340.71 E	9999.69	1.83
16637.00	91.20	2.03	6,899.79	10,089.16 N	344.08 E	10094.66	0.06
16732.00	88.40	1.61	6,900.12	10,184.10 N	347.09 E	10189.65	2.99
16827.00	88.28	2.11	6,902.88	10,279.01 N	350.17 E	10284.61	0.54
16923.00	88.92	3.33	6,905.22	10,374.87 N	354.72 E	10380.55	1.44
16986.00	92.28	6.08	6,904.56	10,437.64 N	359.89 E	10443.44	6.90

DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (°/100')
17018.00	92.31	5.86	6,903.28	10,469.44 N	363.22 E	10475.31	0.71
17113.00	89.35	4.91	6,901.90	10,564.00 N	372.13 E	10570.07	3.27
17209.00	87.96	4.48	6,904.14	10,659.65 N	379.99 E	10665.89	1.52
17304.00	86.80	3.66	6,908.49	10,754.31 N	386.73 E	10760.69	1.50
17399.00	86.63	4.61	6,913.93	10,848.90 N	393.57 E	10855.43	1.01
17483.00	89.07	5.82	6,917.07	10,932.49 N	401.19 E	10939.18	3.24
17535.00	89.07	5.82	6,917.92	10,984.21 N	406.46 E	10991.03	0.01

SURVEY FOOTER

SURVEYS CALCULATED USING SHORT COLLAR METHOD.

WELL ASSUMED VERTICAL AT WELLHEAD.

SURVEYS FROM 100.00' MD TO 5940.00' MD ARE PROVIDED BY VAUGHN ENERGY SERVICES

SURVEYS FROM 6025' MD TO 17483' MD PROVIDED BY SPERRY DRILLING.

SURVEY 17483' MD IS PROJECTED TO TD AT 17535' MD.

SPERRY DRILLING ENGINEERS: L. TUCKER, B. PREJEAN, M. MELLER

DIRECTIONAL SURVEY DATA NOTES

- Calculation based on minimum curvature method.
- Survey coordinates relative to well system reference point.
- TVD values given relative to drilling measurement point.
- Vertical section relative to well head.
- Vertical section is computed along a direction of 1.47 degrees (Grid)
- A total correction of 7.31 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 17,535.00 feet is 10,991.73 feet along 2.12 degrees (Grid)

WARRANTY

HALLIBURTON ENERGY SERVICES, INC. WILL USE ITS BEST EFFORTS TO FURNISH CUSTOMERS WITH ACCURATE INFORMATION AND INTERPRETATIONS THAT ARE PART OF, AND INCIDENT TO, THE SERVICES PROVIDED. HOWEVER, HALLIBURTON ENERGY SERVICES, INC. CANNOT AND DOES NOT WARRANT THE ACCURACY OR CORRECTNESS OF SUCH INFORMATION AND INTERPRETATIONS. UNDER NO CIRCUMSTANCES SHOULD ANY SUCH INFORMATION OR INTERPRETATION BE RELIED UPON AS THE SOLE BASIS FOR ANY DRILLING, COMPLETION, PRODUCTION, OR FINANCIAL DECISION OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING VENTURE, DRILLING RIG OR ITS CREW OR ANY THIRD PARTY. THE CUSTOMER HAS FULL RESPONSIBILITY FOR ALL DRILLING, COMPLETION, AND PRODUCTION OPERATION. HALLIBURTON ENERGY SERVICES, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE SERVICES RENDERED. IN NO EVENT WILL HALLIBURTON ENERGY SERVICES, INC. SERVICES BE LIABLE FOR FAILURE TO OBTAIN ANY PARTICULAR RESULTS OR FOR ANY DAMAGES, INCLUDING, BUT NOT LIMITED TO, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OF ANY INFORMATION OR INTERPRETATION PROVIDED BY HALLIBURTON ENERGY SERVICES, INC.

HALLIBURTON

Sperry Drilling

Halliburton/Sperry Drilling
3950 Interwood S. Pkwy
Houston, Texas 77032
Phone 281.986.4400
Fax 281.986.4498

NASH UNIT #44H
 SHL: 500' FNL & 330' FWL
 SEC 18, T23S, R30E
 EDDY CO, NM
 API# 30-015-42195

ELEV: GL: 3006'
 KB: 3023'
 AGL: 17'

20" CONDUCTOR @ 90'.
 CMT'D W/186 SX READY MIX.
 CIRC SURF, CALC
 30" HOLE

17-1/2" HOLE

13-3/8" 54.5#, J-55 CSG SET @ 170'.
 CMT'D W/210SX. CIRC 70 SX, CBL.

TANGENT FOR PUMP: 6300-6560 (29 DEG)

12-1/2" HOLE

9-5/8" 36#, J-55 CSG SET @ 3214'.
 CMT'D W/1270 SX. CIRC 599SX, CBL.

Stage 1: Toe Sleeve: 17354 40 bpm

PLUG & PERF: 40 BPM. PLUG=SHADOW,
 LEAVING IN HOLE W/ 2.0" ID

Stage	Plug	8 holes	7 holes
2	17250	17156	16942
3	16822	16728	16514
4	16394	16300	16086
5	15966	15872	15658
6	15538	15444	15230
7	15110	15016	14802
8	14682	14588	14374
9	14254	14160	13946

Coil Sleeve 25 bpm

Sleeve	Depth	Sleeve	Depth
1	13732	16	10429
2	13521	17	10218
3	13304	18	9998
4	13085	19	9791
5	12861	20	9564
6	12640	21	9341
7	12431	22	9163
8	12181	23	8906
9	11964	24	8727
10	11751	25	8470
11	11527	26	8254
12	11308	27	8041
13	11123	28	7821
14	10901	29	7596
15	10682	30	7391

8-1/2" HOLE

21" MJ @ 5663'

4-1/2" 11.60#, P-110 LINER FR/6492'-17525'
 R7" VERSA FLEX HANGER W/8" PBR @
 "NA" CEMENTED WITH 835 sx. Circ 77sx
 TOL @ 6492' MD (TVD = 6455' @ 31')

KOP @ 6000'.

CURVE FR/6000'-7400'.

EOL: 17525'
 TVD: 6910'
 TD: 17535'
 PBTD: 17354'

FS @ 17525
 FC @ 17481
 LC @ 17437
 RSI @ 17354

7# 26#, HCP-110 CSG SET @ 7335' (TVD = 6900' @ 81°)
 CMT'D STG 1 W/150 SX TUNED LIGHT, 215 SX HACOM, 2ND STG 500 SX PREM PLUS
 & 50SX ECONCEM DOWN BRADEN HEAD. 21" MJ @ 5663'.