

Results of Directional Survey

LATERAL

API number:	30-025-23461		
OGRID:		Operator:	XTO ENERGY INC
		Property:	NORTH VACUUM ABO UNIT # 134

surface	ULSTR:	L	12	T	17S	R	34E
			1980	FSL	760	FWL	

BH Loc	ULSTR:	P	11	T	17S	R	34E
			1182	FSL	841	FEL	

	MD	N/S	E/W	VD
	8675.7	-118.51	-193.95	8555.45
TOP PERFS/OH	8676	-118.65	-194.22	8555.47
	8681	-120.93	-198.65	8555.88
	10158	-762.92	-1528.00	8565.96
BOT PERFS/OH	10239	-798.17	-1600.93	8567.01
	10189	-776.41	-1555.91	8566.36

NEXT TO LAST	10158	-762.92	-1528.00	8565.96
LAST READING	10189	-776.41	-1555.91	8566.36
TD	10239	-798.17	-1600.93	8567.01

Surface Location	1980	FS	760	FW
Projected BHL	1182	FS	841	FE
Location of				
Top Perfs/OH	1861	FS	566	FW
Bottom Perfs/OH	1182	FS	841	FE

SUMMARY of Subsurface Locations

Surface Location	L-12-17S-34E	1980	FS	760	FW	Vert. Depth
Top Perfs/OH	L-12-17S-34E	1861	FS	566	FW	8555.47
Bottom Perfs/OH	P-11-17S-34E	1182	FS	841	FE	8567.01
Projected TD	P-11-17S-34E	1182	FS	841	FE	8567.01

XTO

North Vacuum Abo

NVAU #134H

NVAU #134

OH

SUR: L-12-17s-34e, 1980/S & 760W
BHL: P-11-17s-34e, 1182/S & 841/E
API # 30-025-23461

Design: OH

End of Well Report

26 September, 2008

End of Well Report

Company:	XTO	Local Co-ordinate Reference:	Well NVAU #134
Project:	North Vacuum Abo	TVD Reference:	Well 1 @ 4036.00ft (Est RKB=12')
Site:	NVAU #134H	MD Reference:	Well 1 @ 4036.00ft (Est RKB=12')
Well:	NVAU #134	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003 16 Single user database

Project	North Vacuum Abo		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	NVAU #134H		
Site Position:		Northing:	673,050.000 ft
From:	Map	Easting:	749,882.000 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 50' 51.553 N
		Longitude:	103° 31' 10.869 W
		Grid Convergence:	0.44 °

Well	NVAU #134		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty		0.00 ft	Wellhead Elevation:
			ft
			Latitude:
			32° 50' 51.554 N
			Longitude:
			103° 31' 10.869 W
			Ground Level:
			4,024.00 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF200510	9/15/2008	7.93
			Dip Angle (°)
			60.86
			Field Strength (nT)
			49,295

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			Direction (°)
			242.62

End of Well Report

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Site:	NVAU #134H	MD Reference:	Well 1 @ 4036.00ft (Est RKB=12')
Well:	NVAU #134	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.16 Single user database

Survey Program		Date	9/26/2008		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100 00	8,300 00	GYRO (OH)			
8,362 00	10,239.00	MWD #1 (OH)	MWD	MWD - Standard	

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
0 00	0.00	0 00	0.00	-4,036 00	0.00	0 00	0 00	0.00	673,050 10	749,882.00
100.00	0 07	238 06	100.00	-3,936.00	-0.03	-0.05	0 06	0 07	673,050.07	749,881 95
200.00	0 04	299 59	200 00	-3,836 00	-0.05	-0 13	0 14	0 06	673,050 05	749,881.87
300.00	0.09	18.81	300 00	-3,736 00	0.04	-0 14	0 10	0.09	673,050.14	749,881 86
400.00	0 09	164.86	400 00	-3,636.00	0 04	-0 09	0.06	0 17	673,050.14	749,881.91
500.00	0.11	94.80	500.00	-3,536 00	-0 04	0 02	0 00	0 12	673,050 06	749,882 02
600 00	0 34	52 22	600 00	-3,436.00	0 13	0 35	-0 37	0.27	673,050 24	749,882 35
700 00	0 31	27 49	700.00	-3,336.00	0 55	0.71	-0.89	0.14	673,050 66	749,882 71
800 00	0 29	26 53	800.00	-3,236.00	1 02	0 95	-1.31	0 02	673,051.13	749,882 94
900 00	0 28	50 41	899.99	-3,136.01	1 40	1 25	-1 76	0 12	673,051 51	749,883.24
1,000 00	0 48	48 83	999 99	-3,036 01	1 83	1 76	-2 40	0 20	673,051.95	749,883 74
1,100 00	0 35	28 25	1,099.99	-2,936.01	2 38	2 22	-3 06	0 20	673,052 50	749,884.20
1,200.00	0 25	2 51	1,199.99	-2,836.01	2 87	2.37	-3 42	0.17	673,052 98	749,884.35
1,300.00	0 15	16 25	1,299.99	-2,736.01	3 21	2 42	-3.62	0 11	673,053 33	749,884 39
1,400.00	0 17	84 39	1,399.99	-2,636 01	3.35	2 60	-3 85	0 18	673,053.47	749,884.57
1,500.00	0 27	22 29	1,499.99	-2,536 01	3 58	2.84	-4 17	0 24	673,053.70	749,884 81
1,600.00	0 15	309 11	1,599.99	-2,436 01	3 88	2 82	-4 29	0 27	673,054.00	749,884.79
1,700.00	0 16	233 11	1,699.99	-2,336.01	3.88	2.61	-4 10	0 19	673,054.00	749,884 58
1,800 00	0 16	210 35	1,799 99	-2,236 01	3.68	2 43	-3 85	0 06	673,053.80	749,884.40
1,900.00	0.04	266 49	1,899.99	-2,136 01	3.55	2 32	-3 70	0.14	673,053 67	749,884.30
2,000.00	0 12	302 03	1,999 99	-2,036 01	3 61	2 20	-3 61	0 09	673,053 73	749,884 17

End of Well Report

Company:	XTO	Local Co-ordinate Reference:	Well NVAU #134
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Site:	NVAU #134H	MD Reference:	Well 1 @ 4036.00ft (Est RKB=12')
Well:	NVAU #134	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.16 Single user database

Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
2,100.00	0 22	276 93	2,099.99	-1,936.01	3.69	1.92	-3.40	0 12	673,053.80	749,883.89
2,200.00	0 23	269 31	2,199.98	-1,836.02	3 71	1 53	-3.06	0 03	673,053.82	749,883.50
2,300.00	0 13	255 67	2,299.98	-1,736.02	3 68	1.22	-2.77	0 11	673,053.79	749,883.19
2,400.00	0 24	233 20	2,399.98	-1,636.02	3 52	0 94	-2.46	0 13	673,053.63	749,882.91
2,500.00	0 13	203 41	2,499.98	-1,536.02	3 29	0 73	-2.16	0 14	673,053.40	749,882.70
2,600.00	0 10	112.92	2,599.98	-1,436.02	3.16	0 76	-2.13	0.16	673,053.26	749,882.74
2,700.00	0.54	77 90	2,699.98	-1,336.02	3 22	1 30	-2.64	0 46	673,053.33	749,883.28
2,800.00	0.63	68 60	2,799.98	-1,236.02	3 52	2 28	-3.64	0 13	673,053.64	749,884.25
2,900.00	0.58	66.66	2,899.97	-1,136.03	3.92	3 25	-4.69	0 05	673,054.05	749,885.22
3,000.00	0.55	70 52	2,999.97	-1,036.03	4 28	4 17	-5.67	0.05	673,054.41	749,886.14
3,100.00	0.43	91 83	3,099.96	-936.04	4 43	5.00	-6.48	0.22	673,054.57	749,886.96
3,200.00	0 27	100.26	3,199.96	-836.04	4 38	5 61	-6.99	0 17	673,054.52	749,887.57
3,300.00	0 23	75 77	3,299.96	-736.04	4 38	6 03	-7.37	0.11	673,054.53	749,888.00
3,400.00	0 26	348 79	3,399.96	-636.04	4 66	6.18	-7.63	0 34	673,054.80	749,888.15
3,500.00	0 25	310 01	3,499.96	-536.04	5.02	5 97	-7.61	0 17	673,055.16	749,887.93
3,600.00	0 19	319 44	3,599.96	-436.04	5 28	5 70	-7.49	0 07	673,055.43	749,887.66
3,700.00	0 10	335 58	3,699.96	-336.04	5.49	5 55	-7.46	0 10	673,055.63	749,887.51
3,800.00	0 18	65 60	3,799.96	-236.04	5 63	5.66	-7.62	0.21	673,055.78	749,887.62
3,900.00	0 04	245 13	3,899.96	-136.04	5.68	5 77	-7.74	0 22	673,055.83	749,887.73
4,000.00	0 19	215 68	3,999.96	-36.04	5.54	5.64	-7.56	0.16	673,055.68	749,887.60
4,100.00	0 22	208 40	4,099.96	63.96	5.23	5.45	-7.25	0 04	673,055.37	749,887.41
4,200.00	0 26	238 87	4,199.95	163.95	4.95	5.17	-6.86	0 13	673,055.08	749,887.13
4,300.00	0 66	257.12	4,299.95	263.95	4 70	4 41	-6.08	0 42	673,054.83	749,886.38
4,400.00	0 61	243.59	4,399.94	363.94	4 33	3 38	-4.99	0.16	673,054.46	749,885.34
4,500.00	0 74	266.30	4,499.94	463.94	4.06	2 25	-3.87	0.29	673,054.17	749,884.22
4,600.00	0.86	251.99	4,599.93	563.93	3.78	0 90	-2.53	0 23	673,053.89	749,882.87
4,700.00	0.82	250 92	4,699.92	663.92	3 32	-0 49	-1.09	0 04	673,053.41	749,881.48

End of Well Report

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Site:	NVAU #134H	MD Reference:	Well 1 @ 4036.00ft (Est RKB=12')
Well:	NVAU #134	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003 16 Single user database

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
4,800.00	0.77	253.03	4,799.91	763.91	2.89	-1.81	0.28	0.06	673,052.97	749,880.16	
4,900.00	0.84	234.81	4,899.90	863.90	2.27	-3.05	1.67	0.26	673,052.34	749,878.93	
5,000.00	0.71	226.00	4,999.89	963.89	1.41	-4.10	2.99	0.18	673,051.48	749,877.89	
5,100.00	0.78	218.77	5,099.88	1,063.88	0.45	-4.97	4.21	0.12	673,050.52	749,877.03	
5,200.00	0.78	201.51	5,199.87	1,163.87	-0.71	-5.65	5.34	0.23	673,049.35	749,876.36	
5,300.00	0.86	207.92	5,299.86	1,263.86	-2.01	-6.25	6.47	0.12	673,048.05	749,875.77	
5,400.00	0.83	181.31	5,399.85	1,363.85	-3.39	-6.62	7.44	0.39	673,046.66	749,875.41	
5,500.00	1.05	170.49	5,499.84	1,463.84	-5.02	-6.48	8.06	0.28	673,045.03	749,875.56	
5,600.00	1.15	155.86	5,599.82	1,563.82	-6.84	-5.92	8.40	0.30	673,043.21	749,876.13	
5,700.00	0.85	157.10	5,699.80	1,663.80	-8.44	-5.22	8.52	0.30	673,041.62	749,876.84	
5,800.00	0.42	146.50	5,799.80	1,763.80	-9.43	-4.73	8.54	0.44	673,040.64	749,877.34	
5,900.00	0.33	125.66	5,899.80	1,863.80	-9.90	-4.29	8.37	0.16	673,040.16	749,877.78	
6,000.00	0.43	158.07	5,999.79	1,963.79	-10.42	-3.92	8.27	0.23	673,039.65	749,878.16	
6,100.00	0.40	153.84	6,099.79	2,063.79	-11.08	-3.63	8.31	0.04	673,038.99	749,878.46	
6,200.00	0.58	135.74	6,199.79	2,163.79	-11.76	-3.12	8.17	0.24	673,038.32	749,878.97	
6,300.00	0.80	141.49	6,299.78	2,263.78	-12.66	-2.33	7.89	0.23	673,037.42	749,879.77	
6,400.00	0.66	144.16	6,399.77	2,363.77	-13.68	-1.56	7.67	0.14	673,036.41	749,880.55	
6,500.00	0.70	155.29	6,499.76	2,463.76	-14.70	-0.97	7.62	0.14	673,035.39	749,881.15	
6,600.00	0.82	163.50	6,599.76	2,563.76	-15.94	-0.51	7.78	0.16	673,034.16	749,881.62	
6,700.00	0.78	194.58	6,699.75	2,663.75	-17.29	-0.48	8.37	0.43	673,032.81	749,881.66	
6,800.00	0.79	194.32	6,799.74	2,763.74	-18.61	-0.82	9.28	0.01	673,031.48	749,881.33	
6,900.00	0.67	196.06	6,899.73	2,863.73	-19.84	-1.15	10.15	0.12	673,030.25	749,881.00	
7,000.00	0.60	211.87	6,999.72	2,963.72	-20.85	-1.59	11.00	0.19	673,029.24	749,880.57	
7,100.00	0.38	203.61	7,099.72	3,063.72	-21.60	-2.00	11.71	0.23	673,028.49	749,880.17	
7,200.00	0.25	267.00	7,199.72	3,163.72	-21.91	-2.35	12.16	0.35	673,028.17	749,879.82	
7,300.00	0.19	253.13	7,299.72	3,263.72	-21.97	-2.72	12.52	0.08	673,028.11	749,879.45	
7,400.00	0.37	259.31	7,399.72	3,363.72	-22.08	-3.20	13.00	0.18	673,028.00	749,878.97	

End of Well Report

Company:	XTO	Local Co-ordinate Reference:	Well NVAU #134
Project:	North Vacuum Abo	TVD Reference:	Well 1 @ 4036.00ft (Est RKB=12')
Site:	NVAU #134H	MD Reference:	Well 1 @ 4036.00ft (Est RKB=12')
Well:	NVAU #134	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003 16 Single user database

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
7,500.00	0 18	265.40	7,499.71	3,463.71	-22 15	-3.67	13.45	0 19	673,027.92	749,878.50	
7,600.00	0 31	263.37	7,599.71	3,563.71	-22 20	-4 10	13.85	0 13	673,027.87	749,878.07	
7,700.00	0 19	287.08	7,699.71	3,663.71	-22 18	-4 53	14.22	0 16	673,027.89	749,877.64	
7,800.00	0 22	213.89	7,799.71	3,763.71	-22 29	-4.79	14.51	0 25	673,027.77	749,877.38	
7,900.00	0 39	165.21	7,899.71	3,863.71	-22 78	-4 81	14.75	0 30	673,027.29	749,877.36	
8,000.00	0 78	148.20	7,999.71	3,963.71	-23.68	-4 37	14.77	0.42	673,026.38	749,877.82	
8,100.00	0 90	155.35	8,099.70	4,063.70	-24.98	-3 68	14.75	0.16	673,025.10	749,878.51	
8,200.00	0 77	155.35	8,199.68	4,163.68	-26 30	-3.07	14.82	0 13	673,023.78	749,879.13	
8,300.00	0.80	167.81	8,299.68	4,263.68	-27 59	-2 64	15.04	0 17	673,022.49	749,879.57	
8,362.00	0 82	173.70	8,361.67	4,325.67	-28.46	-2 50	15.31	0 14	673,021.62	749,879.71	
KOP@8362' MD, 28 DLS											
8,369.00	4.50	254.10	8,368.66	4,332.66	-28.58	-2 76	15.60	63.39	673,021.50	749,879.46	
8,400.00	14 90	250.80	8,399.18	4,363.18	-30.23	-7.71	20.75	33.58	673,019.81	749,874.52	
8,432.00	24 70	254.90	8,429.25	4,393.25	-33 33	-18 08	31.38	30.91	673,016.63	749,864.18	
8,463.00	34.30	254.20	8,456.20	4,420.20	-37 41	-32 77	46.30	30.99	673,012.44	749,849.52	
8,494.00	43 40	249.70	8,480.32	4,444.32	-43 50	-51 20	65.47	30 72	673,006.21	749,831.13	
8,525.00	51 90	243.30	8,501.20	4,465.20	-52 69	-72 14	88.29	31 35	672,996.85	749,810.27	
8,556.00	59 80	239.80	8,518.59	4,482.59	-64 94	-94 66	113.91	27 14	672,984.44	749,787.85	
8,587.00	65 60	240.20	8,532.80	4,496.80	-78 70	-118 50	141.42	18 74	672,970.49	749,764.11	
8,619.00	72 20	242.00	8,544.32	4,508.32	-93 11	-144.63	171.25	21 28	672,955.88	749,738.09	
8,650.00	79 40	243.10	8,551.92	4,515.92	-106.95	-171 28	201.28	23 48	672,941.83	749,711.55	
8,675.70	84 79	242.85	8,555.45	4,519.45	-118.51	-193 95	226.73	20 99	672,930.10	749,688.97	
EOC@8561' TVD, 90 Deg. Inc., 243.49 AZ											
8,681.00	85 90	242.80	8,555.88	4,519.88	-120.93	-198.65	232.01	20 99	672,927.65	749,684.29	
8,713.00	88.20	242.80	8,557.53	4,521.53	-135.53	-227 07	263.96	7.19	672,912.82	749,655.98	
8,744.00	87.90	242.80	8,558.58	4,522.58	-149.69	-254.63	294.95	0 97	672,898.45	749,628.53	
8,775.00	87 80	242.80	8,559.74	4,523.74	-163 86	-282 18	325.92	0 32	672,884.08	749,601.09	

End of Well Report

Company:	XTO	Local Co-ordinate Reference:	Well NVAU #134
Project:	North Vacuum Abo	TVD Reference:	Well 1 @ 4036.00ft (Est RKB=12')
Site:	NVAU #134H	MD Reference:	Well 1 @ 4036.00ft (Est RKB=12')
Well:	NVAU #134	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003 16 Single user database

Survey										
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
8,807.00	87.60	242.60	8,561.03	4,525.03	-178.52	-310.59	357.90	0.88	672,869.19	749,572.79
8,838.00	87.60	242.20	8,562.33	4,526.33	-192.87	-338.04	388.87	1.29	672,854.63	749,545.46
8,869.00	87.00	242.20	8,563.79	4,527.79	-207.31	-365.43	419.83	1.94	672,839.98	749,518.18
8,899.00	89.50	242.90	8,564.70	4,528.70	-221.13	-392.04	449.82	8.65	672,825.95	749,491.68
8,930.00	89.10	242.50	8,565.08	4,529.08	-235.35	-419.58	480.82	1.82	672,811.52	749,464.24
8,961.00	88.60	242.70	8,565.70	4,529.70	-249.61	-447.10	511.81	1.74	672,797.05	749,436.84
8,993.00	90.50	243.60	8,565.95	4,529.95	-264.06	-475.65	543.81	6.57	672,782.38	749,408.40
9,024.00	90.00	243.40	8,565.82	4,529.82	-277.90	-503.39	574.80	1.74	672,768.33	749,380.76
9,056.00	89.60	243.70	8,565.93	4,529.93	-292.15	-532.04	606.80	1.56	672,753.86	749,352.23
9,087.00	89.00	244.40	8,566.31	4,530.31	-305.71	-559.91	637.78	2.97	672,740.08	749,324.46
9,118.00	92.10	243.30	8,566.01	4,530.01	-319.37	-587.74	668.77	10.61	672,726.21	749,296.74
9,150.00	92.00	243.00	8,564.87	4,528.87	-333.82	-616.27	700.75	0.99	672,711.54	749,268.32
9,181.00	91.60	244.00	8,563.89	4,527.89	-347.64	-644.00	731.73	3.47	672,697.51	749,240.70
9,213.00	91.30	244.10	8,563.08	4,527.08	-361.64	-672.76	763.71	0.99	672,683.29	749,212.05
9,244.00	91.00	243.80	8,562.46	4,526.46	-375.25	-700.61	794.70	1.37	672,669.46	749,184.31
9,276.00	90.80	243.30	8,561.96	4,525.96	-389.50	-729.25	826.69	1.68	672,654.99	749,155.77
9,308.00	89.70	244.00	8,561.82	4,525.82	-403.71	-757.93	858.68	4.07	672,640.57	749,127.21
9,339.00	89.60	244.10	8,562.01	4,526.01	-417.27	-785.80	889.67	0.46	672,626.79	749,099.44
9,371.00	89.70	244.10	8,562.20	4,526.20	-431.25	-814.59	921.66	0.31	672,612.59	749,070.76
9,402.00	89.30	245.00	8,562.47	4,526.47	-444.57	-842.58	952.64	3.18	672,599.05	749,042.87
9,434.00	89.40	245.00	8,562.84	4,526.84	-458.09	-871.58	984.61	0.31	672,585.31	749,013.98
9,465.00	88.60	244.70	8,563.38	4,527.38	-471.26	-899.63	1,015.58	2.76	672,571.92	748,986.02
9,497.00	87.90	244.60	8,564.36	4,528.36	-484.96	-928.54	1,047.55	2.21	672,558.00	748,957.23
9,528.00	90.80	244.80	8,564.71	4,528.71	-498.20	-956.56	1,078.52	9.38	672,544.54	748,929.31
9,560.00	90.20	244.30	8,564.43	4,528.43	-511.96	-985.45	1,110.50	2.44	672,530.57	748,900.52
9,591.00	89.80	244.00	8,564.43	4,528.43	-525.47	-1,013.35	1,141.49	1.61	672,516.84	748,872.73
9,623.00	88.80	243.70	8,564.82	4,528.82	-539.57	-1,042.07	1,173.48	3.26	672,502.51	748,844.11

End of Well Report

Company:	XTO	Local Co-ordinate Reference:	Well NVAU #134
Project:	North Vacuum Abo	TVD Reference:	Well 1 @ 4036.00ft (Est RKB=12')
Site:	NVAU #134H	MD Reference:	Well 1 @ 4036.00ft (Est RKB=12')
Well:	NVAU #134	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.16 Single user database

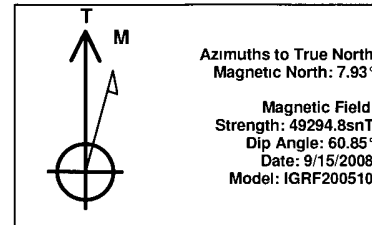
Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
9,654.00	88.40	243.60	8,565.58	4,529.58	-553.33	-1,069.84	1,204.47	1.33	672,488.55	748,816.45	
9,686.00	88.60	243.80	8,566.41	4,530.41	-567.50	-1,098.52	1,236.45	0.88	672,474.15	748,787.88	
9,718.00	91.30	245.60	8,566.44	4,530.44	-581.18	-1,127.45	1,268.42	10.14	672,460.26	748,759.06	
9,749.00	91.10	245.70	8,565.79	4,529.79	-593.95	-1,155.68	1,299.37	0.72	672,447.26	748,730.93	
9,780.00	90.60	245.00	8,565.33	4,529.33	-606.88	-1,183.86	1,330.33	2.77	672,434.12	748,702.85	
9,811.00	90.40	245.10	8,565.06	4,529.06	-619.96	-1,211.96	1,361.31	0.72	672,420.82	748,674.85	
9,843.00	90.40	245.10	8,564.84	4,528.84	-633.43	-1,240.99	1,393.27	0.00	672,407.13	748,645.93	
9,873.00	90.10	245.40	8,564.71	4,528.71	-645.99	-1,268.23	1,423.24	1.41	672,394.36	748,618.78	
9,905.00	89.50	245.60	8,564.82	4,528.82	-659.26	-1,297.35	1,455.20	1.98	672,380.86	748,589.77	
9,936.00	88.40	246.00	8,565.39	4,529.39	-671.97	-1,325.62	1,486.15	3.78	672,367.94	748,561.60	
9,968.00	87.70	245.00	8,566.48	4,530.48	-685.23	-1,354.72	1,518.09	3.81	672,354.46	748,532.60	
9,999.00	87.60	246.30	8,567.75	4,531.75	-698.00	-1,382.94	1,549.02	4.20	672,341.47	748,504.48	
10,031.00	91.40	243.00	8,568.03	4,532.03	-711.70	-1,411.85	1,580.99	15.73	672,327.55	748,475.68	
10,063.00	91.40	247.00	8,567.25	4,531.25	-725.21	-1,440.83	1,612.94	12.50	672,313.81	748,446.80	
10,094.00	91.50	247.60	8,566.46	4,530.46	-737.17	-1,469.42	1,643.83	1.96	672,301.63	748,418.30	
10,126.00	90.40	246.40	8,565.93	4,529.93	-749.67	-1,498.87	1,675.73	5.09	672,288.90	748,388.94	
10,158.00	89.50	244.70	8,565.96	4,529.96	-762.92	-1,528.00	1,707.69	6.01	672,275.43	748,359.92	
10,189.00	89.00	243.70	8,566.36	4,530.36	-776.41	-1,555.91	1,738.67	3.61	672,261.73	748,332.12	
Projection to bit@10239 MD											
10,239.00	89.00	243.70	8,567.24	4,531.24	-798.56	-1,600.73	1,788.66	0.00	672,239.23	748,287.47	

End of Well Report

Company:	XTO	Local Co-ordinate Reference:	Well NVAU #134
Project:	North Vacuum Abo	TVD Reference:	Well 1 @ 4036.00ft (Est RKB=12')
Site:	NVAU #134H	MD Reference:	Well 1 @ 4036.00ft (Est RKB=12')
Well:	NVAU #134	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003 16 Single user database

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL - actual wellpath misses by 27 20ft at 10238 30ft MD (8567 22 TVD, -798.25 N, -1600 10 E) - Point	0.00	0 00	8,564.00	-822 49	-1,588.18	672,215 400	748,300 200	32° 50' 43.415 N	103° 31' 29 484 W
TGT2(134H) @ 900'V - actual wellpath misses by 4.51ft at 9349 25ft MD (8562 08 TVD, -421.75 N, -795 02 E) - Point	0.00	0 00	8,562.00	-425.81	-793 05	672,618 193	749,092.253	32° 50' 47 340 N	103° 31' 20 164 W
TGT6(134H) @ 1600' - actual wellpath misses by 20.95ft at 10049 25ft MD (8567.58 TVD, -719 65 N, -1428 26 E) - Point	0.00	0 00	8,564 00	-738 32	-1,419.46	672,300.867	748,468.269	32° 50' 44.248 N	103° 31' 27 507 W
TGT4(134H) @ 1200' - actual wellpath misses by 9 57ft at 9649 89ft MD (8565 46 TVD, -551 50 N, -1066 16 E) - Point	0 00	0.00	8,564 00	-559.99	-1,062 00	672,481 945	748,824 345	32° 50' 46 013 N	103° 31' 23.317 W
TGT3(134H) @ 1000' - actual wellpath misses by 6 56ft at 9449.69ft MD (8563.06 TVD, -464 74 N, -885 79 E) - Point	0 00	0.00	8,563 00	-470 68	-883 00	672,572 632	749,002 651	32° 50' 46 896 N	103° 31' 21 219 W
TGT1(134H) @ 300'V - actual wellpath misses by 7 02ft at 8749 14ft MD (8558 77 TVD, -152 04 N, -259.20 E) - Point	0 00	0 00	8,561 00	-157 92	-256 08	672,890.212	749,627.143	32° 50' 49 991 N	103° 31' 13 871 W
TGT5(134H) @ 1500' - actual wellpath misses by 18 03ft at 9948 97ft MD (8565 78 TVD, -677 28 N, -1337.45 E) - Point	0 00	0 00	8,565 00	-693.69	-1,330 00	672,346 185	748,557 383	32° 50' 44 690 N	103° 31' 26 458 W

Checked By: _____	Approved By: _____	Date: _____
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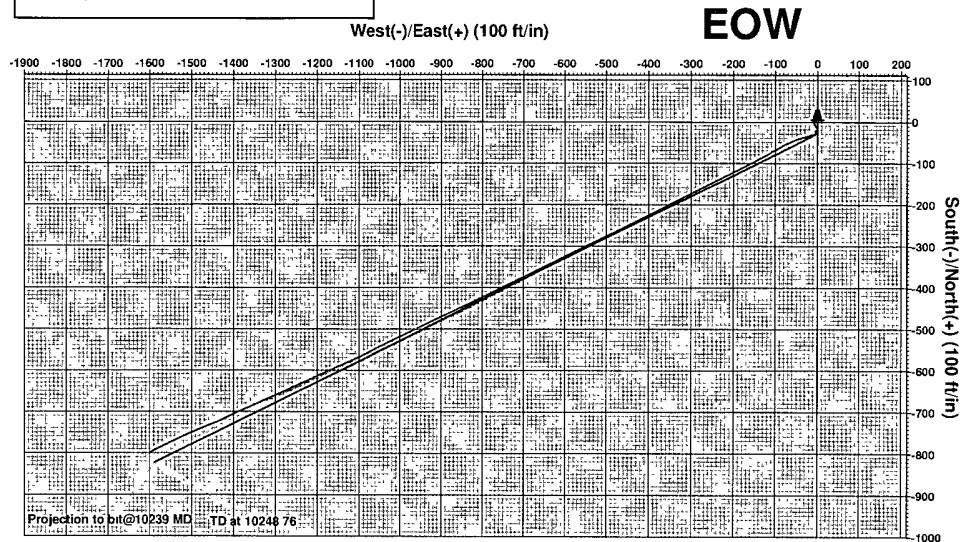


PATHFINDER

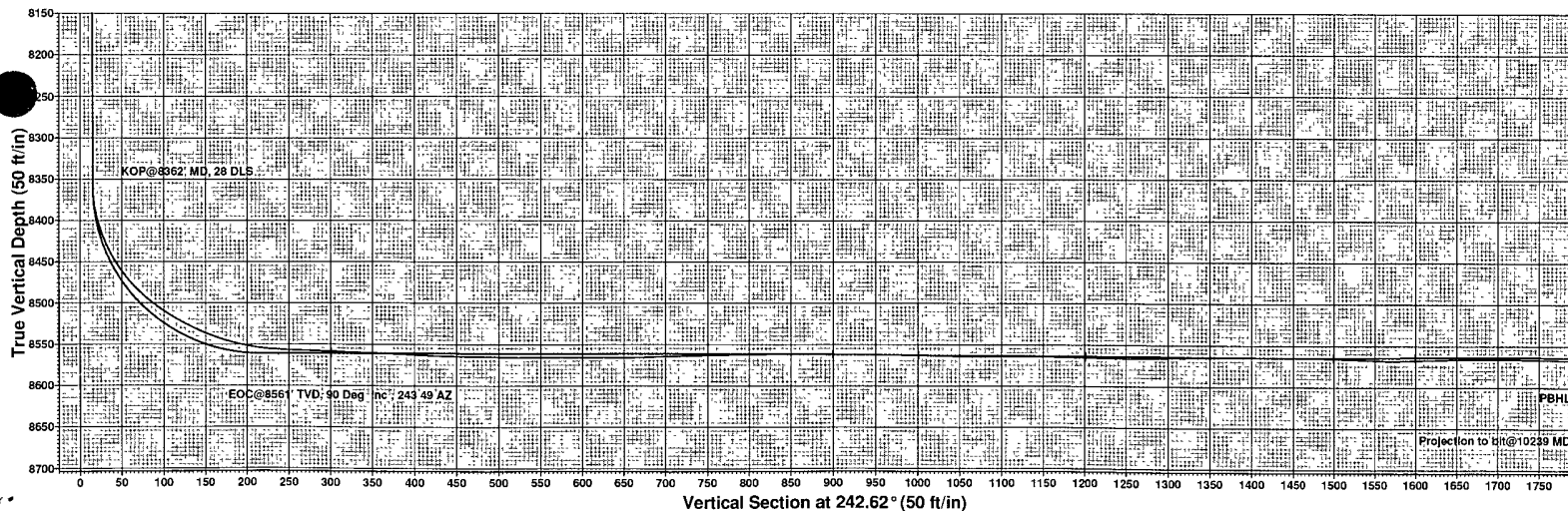
ENERGY SERVICES

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLeg	TFace	VSec	Target
1	8362.00	0.82	173.70	8361.67	-28.46	-2.50	0.00	0.00	15.31	
2	8675.70	90.00	243.49	8561.00	-120.26	-180.58	28.60	69.90	215.66	
3	8692.49	90.00	243.49	8561.00	-127.75	-195.61	0.00	0.00	232.44	
4	8760.07	90.00	243.49	8561.00	-157.92	-256.08	0.00	0.00	300.02	TGT1(134H) @ 300'VS
5	8764.87	89.90	243.49	8561.00	-160.06	-260.37	2.00	-177.46	304.82	
6	9360.15	89.90	243.49	8562.00	-425.81	-793.05	0.00	0.00	900.04	TGT2(134H) @ 900'VS
7	9387.61	89.36	243.49	8562.18	-438.07	-817.62	2.00	179.67	927.49	
8	9460.68	89.36	243.49	8563.00	-470.68	-883.00	0.00	0.00	1000.54	TGT3(134H) @ 1000'VS
9	9479.49	89.73	243.48	8563.15	-479.08	-899.84	2.00	-0.85	1019.36	
10	9660.72	89.73	243.48	8564.00	-559.99	-1062.00	0.00	0.00	1200.56	TGT4(134H) @ 1200'VS
11	9664.62	89.81	243.49	8564.02	-561.73	-1065.49	2.00	2.16	1204.46	
12	9960.23	89.81	243.49	8565.00	-693.69	-1330.00	0.00	0.00	1500.03	TGT5(134H) @ 1500'VS
13	10011.64	90.84	243.49	8564.71	-716.64	-1376.01	2.00	-0.01	1551.44	
14	10060.21	90.84	243.49	8564.00	-738.32	-1419.46	0.00	0.00	1599.99	TGT6(134H) @ 1600'VS
15	10108.18	89.88	243.49	8563.70	-759.74	-1462.39	2.00	179.95	1647.96	
16	10248.76	89.88	243.49	8564.00	-822.49	-1586.18	0.00	0.00	1786.52	PBHL

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N-S	+E-W	Northing	Easting	Shape
TGT1(134H) @ 300'VS	8561.00	-157.92	-256.08	672890.212	749627.143	Point
TGT2(134H) @ 900'VS	8562.00	-425.81	-793.05	672618.193	749092.253	Point
TGT3(134H) @ 1000'VS	8563.00	-470.68	-883.00	672572.632	749002.651	Point
PBHL	8564.00	-822.49	-1586.18	672215.400	748500.200	Point
TGT4(134H) @ 1200'VS	8564.00	-559.99	-1062.00	672481.945	748824.345	Point
TGT5(134H) @ 1500'VS	8564.00	-738.32	-1419.46	672300.867	748468.269	Point
TGT6(134H) @ 1600'VS	8565.00	-693.69	-1330.00	672346.185	748557.383	Point



WELL DETAILS NVAU #134						
Ground Elevation		4024.00				
RKB Elevation		Well 1 @ 4036.00H (Est RKB=12')				
Rig Name		Est RKB=12'				
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	673050.100	749882.000	32° 50' 51.554 N	103° 31' 10.869 W	



Project: North Vacuum Abo
Site: NVAU #134H
Well: NVAU #134
Wellbore: OH
Plan: Plan #1 (NVAU #134/OH)

PROJECT DETAILS: North Vacuum Abo
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: True

Plan: Plan #1 (NVAU #134/OH)
Created By: Nate Bingham Date: 10/10, September 26 2008
Checked: _____ Date: _____