

Results of Directional Survey

API number:	30-025-29234		
OGRID:		Operator:	XTO ENERGY INC
		Property:	NORTH VAVUUM ABO UNIT # 277

surface	ULSTR:	A	27	T	17S	R	34E
			790	FNL	650	FEL	

BH Loc	ULSTR:	G	27	T	17S	R	34E
			1517	FNL	2157	FEL	

	MD	N/S	E/W	VD
	8400	-12.52	39.29	8399.52
TOP PERFS/OH	8425	-13.29	39.10	8424.50
	8446	-13.94	38.94	8445.48
	10222	-708.47	-1469.06	8642.80
BOT PERFS/OH	10264	-727.41	-1506.55	8642.80
	10264	-727.41	-1506.55	8642.80

NEXT TO LAST	10222	-708.47	-1469.06	8642.80
LAST READING	10264	-727.41	-1506.55	8642.80
TD	10264	-727.41	-1506.55	8642.80

Surface Location	790	FN	650	FE
Projected BHL	1517	FN	2157	FE
Location of				
Top Perfs/OH	803	FN	611	FE
Bottom Perfs/OH	1517	FN	2157	FE

SUMMARY of Subsurface Locations

Surface Location	A-27-17S-34E	790	FN	650	FE	Vert. Depth
Top Perfs/OH	A-27-17S-34E	803	FN	611	FE	8424.50
Bottom Perfs/OH	G-27-17S-34E	1517	FN	2157	FE	8642.80
Projected TD	G-27-17S-34E	1517	FN	2157	FE	8642.80



Actual Wellpath Report

#277H AWP ST01

Page 1 of 8



REFERENCE WELLPATH IDENTIFICATION

Operator	XTO Energy Inc.	Slot	#277H SHL
Area	Lea County, NM	Well	#277H
Field	North Vacuum Abo	Wellbore	#277H AWP ST01
Facility	NVAU #277H	Sidetrack from	#277H AWP OH at 8400.00 MD

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect™ 1.2
North Reference	Grid	User	Gomeoscr
Scale	0.999977	Report Generated	09/06/07 at 08:15:01
Wellbore last revised	08/27/07	Database/Source file	WA_Midland/#277H AWP

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North [feet]	East [feet]	Easting [US feet]	Northing [US feet]	Latitude [°]	Longitude [°]
Slot Location	0.00	0.00	743305.80	659615.20	32 48 39.117N	103 32 29.129W
Facility Reference Pt			743305.80	659615.20	32 48 39.117N	103 32 29.129W
Field Reference Pt			743305.80	659615.20	32 48 39.117N	103 32 29.129W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on #277H SHL (RT) to Facility Vertical Datum	16.00 feet
Horizontal Reference Pt	Facility Center	Rig on #277H SHL (RT) to GRN. ELEV.	4054.00 feet
Vertical Reference Pt	Rig on #277H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00 feet
MD Reference Pt	Rig on #277H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	GRN. ELEV.	Section Azimuth	245.12°

SUR: A-27-17s-34e, 790/N & 650/E
 BHL: G-27-17s-34e, 1517/N & 2157/E
 API #30-025-29234



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#277H AWP ST01

Page 2 of 8



INTEQ

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Facility	NVAU #277H	Sidetrack from	#277H AWB OH at 8400.00 MD

WELLPATH DATA (151 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.00	
100.00	0.050	193.800	100.00	0.03	-0.04	-0.01	0.05	
200.00	0.300	186.430	200.00	0.19	-0.34	-0.05	0.25	
300.00	0.660	201.420	300.00	0.74	-1.14	-0.29	0.38	
400.00	0.780	203.500	399.99	1.67	-2.30	-0.77	0.42	
500.00	0.930	204.110	499.98	2.79	-3.67	-1.37	0.15	
600.00	0.830	203.730	599.96	3.95	-5.07	-2.00	0.10	
700.00	0.900	214.200	699.95	5.16	-6.38	-2.73	0.17	
800.00	0.840	208.990	799.94	6.43	-7.67	-3.53	0.10	
900.00	0.330	221.100	899.94	7.28	-8.53	-4.07	0.52	
1000.00	0.370	220.990	999.93	7.84	-8.99	-4.47	0.04	
1100.00	0.370	216.560	1099.93	8.42	-9.50	-4.88	0.03	
1200.00	0.380	218.510	1199.93	9.00	-10.01	-5.28	0.02	
1300.00	0.290	238.600	1299.93	9.55	-10.41	-5.70	0.15	
1400.00	0.230	234.580	1399.93	10.00	-10.65	-6.08	0.06	
1500.00	0.400	229.220	1499.93	10.53	-11.00	-6.51	0.17	
1600.00	0.050	312.860	1599.93	10.88	-11.20	-6.80	0.40	
1700.00	0.210	4.900	1699.93	10.81	-10.98	-6.82	0.18	
1800.00	0.170	299.270	1799.92	10.80	-10.73	-6.93	0.21	
1900.00	0.120	336.080	1899.92	10.89	-10.56	-7.10	0.10	
2000.00	0.190	334.750	1999.92	10.89	-10.32	-7.22	0.07	
2100.00	0.110	304.260	2099.92	10.94	-10.11	-7.37	0.11	
2200.00	0.210	341.980	2199.92	10.97	-9.88	-7.50	0.14	
2300.00	0.300	6.360	2299.92	10.81	-9.45	-7.53	0.14	
2400.00	0.310	355.280	2399.92	10.58	-8.92	-7.52	0.06	



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#277H AWP ST01

Page 3 of 8



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Field	North Vacuum Abo	Wellbore	#277H AWP ST01
Facility	NVAU #277H	Sidetrack from	#277H AWP OH at 8400.00 MD

WELLPATH DATA (151 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
2500.00	0.230	330.860	2499.92	10.50	-8.47	-7.64	0.14	
2600.00	1.030	32.400	2599.91	9.76	-7.54	-7.26	0.94	
2700.00	0.970	42.270	2699.90	8.22	-6.15	-6.21	0.18	
2800.00	0.930	42.840	2799.88	6.69	-4.93	-5.09	0.04	
2900.00	0.960	57.590	2899.87	5.11	-3.89	-3.83	0.24	
3000.00	0.720	52.400	2999.86	3.67	-3.06	-2.62	0.25	
3100.00	0.510	50.550	3099.85	2.62	-2.39	-1.78	0.21	
3200.00	0.610	54.330	3199.85	1.67	-1.80	-1.01	0.11	
3300.00	0.350	87.700	3299.85	0.86	-1.47	-0.27	0.37	
3400.00	0.500	67.290	3399.84	0.15	-1.29	0.44	0.21	
3500.00	0.540	57.770	3499.84	-0.76	-0.87	1.24	0.10	
3600.00	0.470	74.410	3599.84	-1.63	-0.51	2.03	0.16	
3700.00	0.240	74.890	3699.83	-2.24	-0.35	2.63	0.23	
3800.00	0.440	69.670	3799.83	-2.83	-0.16	3.19	0.20	
3900.00	0.250	68.340	3899.83	-3.43	0.05	3.76	0.19	
4000.00	0.230	77.840	3999.83	-3.84	0.18	4.15	0.04	
4100.00	0.160	93.450	4099.83	-4.16	0.21	4.49	0.09	
4200.00	0.340	146.400	4199.83	-4.33	-0.04	4.79	0.28	
4300.00	0.330	150.490	4299.83	-4.40	-0.54	5.10	0.03	
4400.00	0.410	152.620	4399.82	-4.44	-1.11	5.41	0.08	
4500.00	0.320	144.720	4499.82	-4.50	-1.66	5.73	0.10	
4600.00	0.320	165.480	4599.82	-4.50	-2.15	5.96	0.12	
4700.00	0.040	169.350	4699.82	-4.44	-2.46	6.04	0.28	
4800.00	0.260	182.200	4799.82	-4.33	-2.72	6.04	0.22	
4900.00	0.420	138.000	4899.82	-4.34	-3.22	6.27	0.30	



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#277H AWP ST01

Page 4 of 8



INTEQ

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Field	North Vacuum Abo	Wellbore	#277H AWB ST01
Facility	NVAU #277H	Sidetrack from	#277H AWB OH at 8400.00 MD

WELLPATH DATA (151 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
5000.00	0.450	132.460	4999.81	-4.60	-3.76	6.81	0.05	
5100.00	0.430	98.090	5099.81	-5.06	-4.07	7.47	0.26	
5200.00	0.410	80.880	5199.81	-5.72	-4.07	8.20	0.13	
5300.00	0.290	77.470	5299.81	-6.31	-3.96	8.80	0.12	
5400.00	0.270	72.180	5399.81	-6.79	-3.83	9.27	0.03	
5500.00	0.250	80.330	5499.81	-7.24	-3.72	9.71	0.04	
5600.00	0.280	109.660	5599.80	-7.62	-3.77	10.15	0.14	
5700.00	0.330	135.090	5699.80	-7.90	-4.06	10.58	0.14	
5800.00	0.510	156.310	5799.80	-7.99	-4.67	10.97	0.23	
5900.00	0.700	149.230	5899.79	-8.04	-5.60	11.46	0.20	
6000.00	0.810	155.410	5999.79	-8.10	-6.77	12.07	0.14	
6100.00	0.710	152.310	6099.78	-8.12	-7.96	12.65	0.11	
6200.00	0.870	163.960	6199.77	-8.04	-9.24	13.14	0.23	
6300.00	0.510	38.400	6299.76	-8.32	-9.62	13.63	1.24	
6400.00	0.390	46.750	6399.76	-9.04	-9.04	14.16	0.14	
6500.00	0.300	66.730	6499.76	-9.62	-8.70	14.64	0.15	
6600.00	0.490	51.310	6599.76	-10.30	-8.33	15.22	0.22	
6700.00	0.170	90.600	6699.75	-10.85	-8.06	15.70	0.37	
6800.00	0.260	62.100	6799.75	-11.21	-7.96	16.05	0.14	
6900.00	0.640	68.200	6899.75	-11.99	-7.64	16.77	0.38	
7000.00	0.930	57.660	6999.74	-13.36	-7.00	17.97	0.32	
7100.00	0.840	75.330	7099.73	-14.88	-6.38	19.37	0.29	
7200.00	0.840	81.920	7199.72	-16.31	-6.09	20.80	0.10	
7300.00	0.890	78.070	7299.71	-17.77	-5.83	22.29	0.08	
7400.00	1.030	78.480	7399.69	-19.40	-5.49	23.93	0.14	



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Page 5 of 8



INTEQ

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Facility	NVAU #277H	Sidetrack from	#277H AWP OH at 8400.00 MD

WELLPATH DATA (151 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
7500.00	0.980	81.630	7499.68	-21.09	-5.19	25.65	0.07	
7600.00	0.950	80.810	7599.66	-22.71	-4.93	27.32	0.03	
7700.00	0.850	83.150	7699.65	-24.21	-4.71	28.87	0.11	
7800.00	0.750	122.790	7799.64	-25.27	-4.97	30.16	0.55	
7900.00	0.860	124.840	7899.63	-26.00	-5.76	31.33	0.11	
8000.00	0.970	122.900	7999.62	-26.83	-6.65	32.65	0.11	
8100.00	1.190	131.060	8099.60	-27.70	-7.79	34.15	0.27	
8200.00	1.400	128.730	8199.58	-28.67	-9.23	35.88	0.22	
8300.00	1.400	140.260	8299.55	-29.52	-10.94	37.62	0.28	
8400.00	1.260	125.670	8399.52	-30.38	-12.52	39.29	0.37	
8446.00	3.900	223.900	8445.48	-29.17	-13.94	38.62	9.27	
8461.00	7.400	229.900	8460.41	-27.76	-14.93	37.52	23.63	
8478.00	11.600	245.300	8477.17	-24.99	-16.35	35.13	28.67	
8493.00	15.400	247.400	8491.76	-21.49	-17.75	31.92	25.54	
8509.00	19.500	250.300	8507.02	-16.71	-19.47	27.44	26.19	
8524.00	23.000	250.600	8520.99	-11.29	-21.28	22.32	23.34	
8542.00	27.300	249.200	8537.28	-3.67	-23.92	15.14	24.11	
8554.00	29.800	248.500	8547.82	2.05	-25.99	9.80	21.02	
8571.00	34.100	247.800	8562.25	11.03	-29.34	1.45	25.39	
8586.00	38.000	247.400	8574.37	19.85	-32.70	-6.71	26.05	
8603.00	43.200	248.900	8587.27	30.89	-36.81	-16.98	31.12	
8618.00	47.700	249.900	8597.80	41.55	-40.57	-26.98	30.37	
8635.00	53.000	251.000	8608.64	54.57	-44.94	-39.31	31.57	
8650.00	57.400	249.900	8617.20	66.84	-49.07	-50.92	29.94	
8667.00	62.300	247.100	8625.74	81.50	-54.46	-64.58	32.15	



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Page 6 of 8



INTEQ

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Field	North Vacuum Abo	Wellbore	#277H AWP ST01
Facility	NVAU #277H	Sidetrack from	#277H AWP OH at 8400.00 MD

WELLPATH DATA (151 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
8682.00	66.400	245.700	8632.23	95.02	-59.87	-76.97	28.60	
8698.00	71.500	245.300	8637.97	109.95	-66.07	-90.55	31.96	
8719.00	78.600	246.000	8643.39	130.22	-74.42	-109.03	33.96	
8757.00	88.200	247.800	8647.75	167.91	-89.21	-143.71	25.70	
8789.00	88.500	247.400	8648.67	199.86	-101.40	-173.28	1.56	
8821.00	88.900	248.500	8649.40	231.81	-113.41	-202.93	3.66	
8853.00	88.800	248.500	8650.04	263.75	-125.14	-232.70	0.31	
8885.00	88.300	248.100	8650.85	295.69	-136.96	-262.42	2.00	
8916.00	88.400	248.900	8651.74	326.62	-148.32	-291.25	2.60	
8948.00	87.600	248.100	8652.86	358.55	-160.04	-321.01	3.53	
8980.00	87.200	248.100	8654.31	390.47	-171.96	-350.67	1.25	
9012.00	88.500	248.100	8655.51	422.41	-183.89	-380.34	4.06	
9044.00	90.400	247.800	8655.82	454.36	-195.90	-409.99	6.01	
9076.00	90.200	247.100	8655.65	486.34	-208.17	-439.55	2.28	
9108.00	89.900	246.400	8655.62	518.32	-220.81	-468.95	2.38	
9140.00	90.000	247.400	8655.65	550.31	-233.36	-498.38	3.14	
9172.00	89.000	246.000	8655.93	582.29	-246.02	-527.77	5.38	
9204.00	87.200	244.600	8656.99	614.27	-259.38	-556.82	7.12	
9236.00	86.400	243.200	8658.78	646.21	-273.44	-585.52	5.03	
9268.00	87.100	244.300	8660.59	678.15	-287.57	-614.17	4.07	
9300.00	89.700	244.600	8661.48	710.14	-301.36	-643.03	8.18	
9332.00	90.000	244.600	8661.57	742.13	-315.09	-671.93	0.94	
9364.00	91.000	245.300	8661.29	774.13	-328.64	-700.92	3.81	
9396.00	90.000	244.300	8661.01	806.13	-342.26	-729.87	4.42	
9428.00	89.700	243.900	8661.09	838.13	-356.24	-758.66	1.56	



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#277H AWP ST01

Page 7 of 8



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Facility	NVAU #277H	Sidetrack from	#277H AWP OH at 8400.00 MD

WELLPATH DATA (151 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
9459.00	89.400	243.600	8661.34	869.12	-369.95	-786.46	1.37	
9491.00	89.000	242.900	8661.78	901.09	-384.35	-815.03	2.52	
9522.00	89.300	243.200	8662.24	932.07	-398.40	-842.66	1.37	
9554.00	89.900	244.600	8662.47	964.06	-412.47	-871.40	4.76	
9586.00	90.000	245.300	8662.49	996.06	-426.02	-900.39	2.21	
9617.00	90.700	245.000	8662.31	1027.06	-439.05	-928.52	2.46	
9649.00	91.200	244.600	8661.77	1059.06	-452.67	-957.47	2.00	
9681.00	93.600	243.900	8660.43	1091.02	-466.56	-986.26	7.81	
9713.00	95.800	244.600	8657.81	1122.91	-480.42	-1014.99	7.21	
9745.00	95.600	243.900	8654.63	1154.75	-494.25	-1043.67	2.26	
9777.00	95.300	243.900	8651.60	1186.59	-508.27	-1072.27	0.94	
9807.00	95.400	243.200	8648.80	1216.45	-521.57	-1099.02	2.35	
9839.00	95.200	243.200	8645.84	1248.30	-535.94	-1127.46	0.62	
9871.00	95.100	243.900	8642.97	1280.16	-550.13	-1155.99	2.20	
9903.00	92.600	244.300	8640.82	1312.08	-564.08	-1184.71	7.91	
9936.00	90.100	243.900	8640.04	1345.06	-578.49	-1214.38	7.67	
9967.00	89.800	243.200	8640.07	1376.05	-592.29	-1242.14	2.46	
9999.00	90.100	243.200	8640.10	1408.03	-606.72	-1270.70	0.94	
10031.00	90.900	244.300	8639.82	1440.02	-620.87	-1299.40	4.25	
10063.00	88.100	242.200	8640.10	1472.00	-635.27	-1327.97	10.94	
10095.00	87.300	241.500	8641.38	1503.92	-650.36	-1356.16	3.32	
10127.00	89.300	242.900	8642.33	1535.86	-665.28	-1384.45	7.63	
10159.00	89.300	242.200	8642.72	1567.82	-680.03	-1412.85	2.19	
10190.00	90.200	243.600	8642.86	1598.80	-694.15	-1440.44	5.37	
10222.00	90.000	243.200	8642.80	1630.79	-708.47	-1469.06	1.40	



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#277H AWP ST01

Page 8 of 8



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Facility	NVAU #277H	Sidetrack from	#277H AWB OH at 8400.00 MD

WELLPATH DATA (151 stations)

MD [feet]	Inclination [°]	Azimuth [°]	TVD [feet]	Vert Sect [feet]	North [feet]	East [feet]	DLS [°/100ft]	Path Comment
10264.00	90.000	243.200	8642.80	1672.76	-727.41	-1506.55	0.00	Proj. to Bit

TARGETS

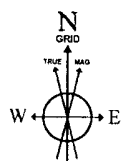
Name	MD [feet]	TVD [feet]	North [feet]	East [feet]	Grid East [us survey feet]	Grid North [us survey feet]	Latitude [°]	Longitude [°]	Shape
#277H BHL		8689.00	-760.22	-1638.94	741666.90	658855.00	32 48 31.716N	103 32 48.397W	point
#277H NEW BHL		8689.00	-706.87	-1523.94	741781.90	658908.35	32 48 32.236N	103 32 47.045W	point

WELLPATH COMPOSITION Ref Wellbore: #277H AWB ST01 Ref Wellpath: #277H AWP ST01

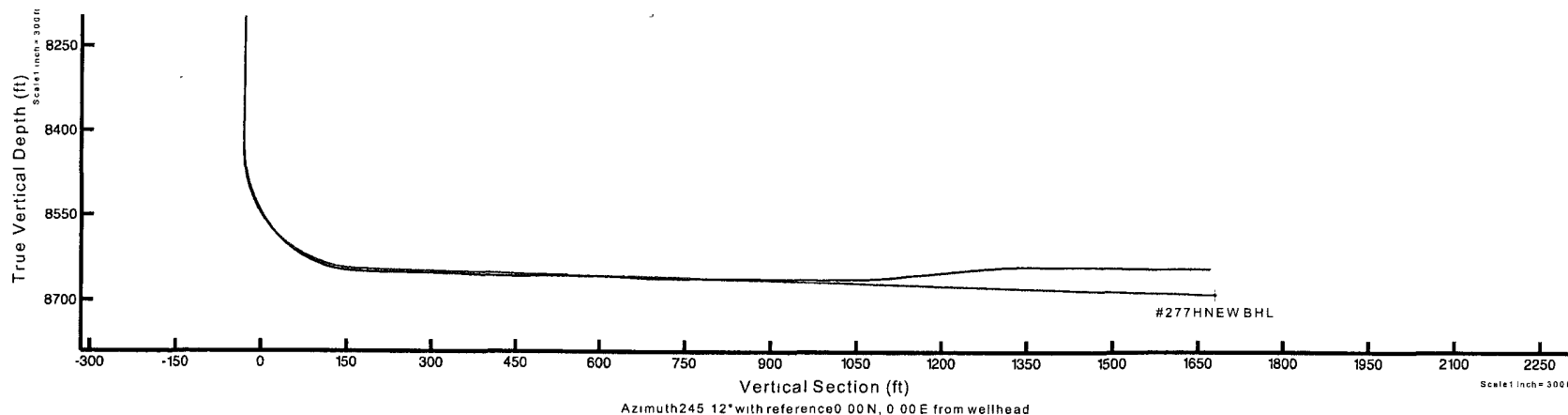
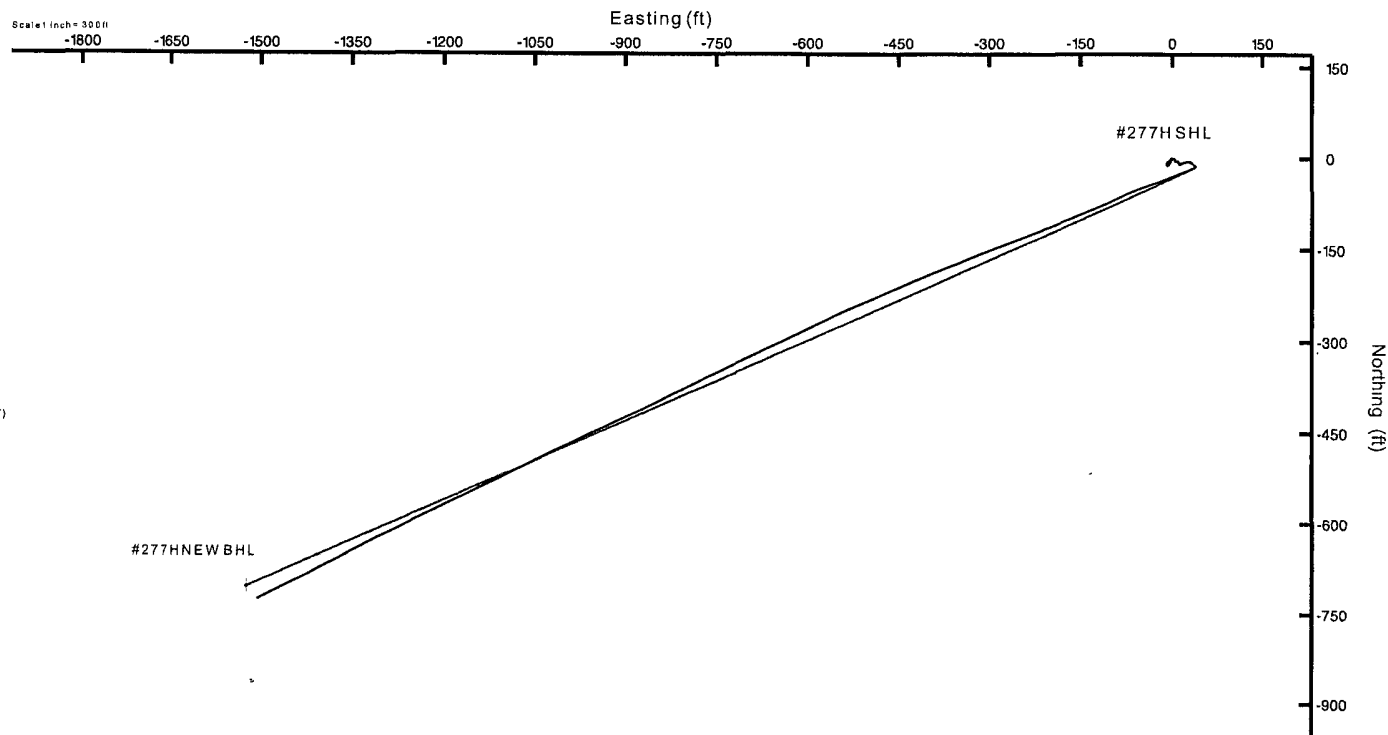
Start MD [feet]	End MD [feet]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	8400.00	Generic gyro - northseeking (Standard)	Gyro	#277H AWB OH
8400.00	10264.00	NaviTrak (Standard)	MWD	#277H AWB ST01



XTO Energy Inc.			
Location Lea County, NM		Slot #277H SHL	
Field North Vacuum Abo		Well #277H	
Facility NVAU #277H		Wellbore #277H AWB ST01	
This reference wellbore is #277H AWB ST01			
True vertical depth in meters reference to Align #277H BHL (RT)		Grid System: NAD 83 11 TM North Magnetic Pole at Center (Elev 3001) US Feet	
Measured depth in meters reference to Align #277H BHL (RT)		North Reference: Grid north	
Align #277H BHL (RT) in GNM ELEV: 4024 feet		Slide: True depth	
GNM ELEV in Measured Facility NVAU #277H-4023 feet		Depth in feet	
Coordinates in feet reference to Facility Center		Created by: geomatics on 08/08/07	



BGGM (1945.0 to 2008.0) Dip: 60.86° Field: 49406.7 nT
 Magnetic North is 8.11 degrees East of True North (at 08/17/07)
 Grid North is 0.43 degrees East of True North
 To correct azimuth from True to Grid subtract 0.43 degrees
 To correct azimuth from Magnetic to Grid add 7.68 degrees



Submit to Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I
1625 N. French, Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-105
Revised June 10, 2003

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-025-29234

5. Indicate Type Of Lease
STATE ☒ FEE ☐
6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well.
OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER _____
b. Type of Completion.
NEW WELL ☐ WORK OVER ☒ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER Horizontal

7. Lease Name or Unit Agreement Name
North Vacuum ABO Unit

2. Name of Operator
XTO Energy, Inc.

8. Well No
#277

3. Address of Operator
200 N. Loraine, Ste. 800 Midland, TX 79701

9. Pool name or Wildcat
Vacuum; ABO, North

4. Well Location BHL G-27-17s-34e, 1517/N & 2157/E

Unit Letter A 790 Feet From The NORTH Line and 649 650 Feet From The EAST Line

Section 27 Township 17S Range 34E NMPM LEA County

10 Date Spudded 8/23/07	11. Date T.D. Reached 9/3/07	12. Date Compl (Ready to Prod) 10/11/07	13. Elevations (DF & RKB, RT, GR, etc.) 4037'	14. Elev. Casinghead
----------------------------	---------------------------------	--	--	----------------------

15. Total Depth 10264 MD/8643TVD	16 Plug Back T.D. 10264 MD/8643 TVD	17. If Multiple Compl How Many Zones?	18. Intervals Drilled By R	Rotary Tools	Cable Tools
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19. Producing Interval(s), of this completion - Top, Bottom, Name
Open Hole Lateral 8,757' - 10,264' MD Lower ABO

20. Was Directional Survey Made
Yes

21. Type Electric and Other Logs Run

22. Was Well Cored

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	400'	17-1/2"	500 SX CL C	
8-5/8"	32#	5000'	12-1/4"	2500 SX CL C	

24. LINER RECORD					25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
5-1/2"	4173'	8800'	1230 SX CL H		2-7/8"	8390'	

26. Perforation record (interval, size, and number) Open Hole Lateral 8,757' - 10,264' MD Perfs 8548' - 8685' (320 holes) Vertical Open				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL 8425' - 10,264' AMOUNT AND KIND MATERIAL USED Acidz w/100,000 gals 20% Ultragel	

28. PRODUCTION							
Date First Production 10/13/2007		Production Method (Flowing, gas lift, pumping - Size and type pump) Sub pump				Well Status (Prod. or Shut-in) Prod	
Date of Test 10/23/07	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl. 138	Gas - MCF 101	Water - Bbl. 234	Gas - Oil Ratio 731/1
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API -(Corr.) 35.6	

29. Disposition of Gas (Sold, used for fuel, vented, etc)
Sold

Test Witnessed By

30. List Attachments
C104, C102, Wellbore diagram, Directional Drllg Report

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Sherry Pack Printed Name Sherry Pack Title Regulatory Analyst Date 3/28/2008
E-mail address sherry.pack@xtoenergy.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northeastern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen 3781	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres 4548	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock 6135	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo 8125	T.	T. Wingate	T.
T. Wolfcamp		T. Chinle	T.
T. Penn	T.	T. Permain	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

**OIL OR GAS
SANDS OR ZONES**

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from	to	feet
No. 2, from	to	feet
No. 3, from	to	feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

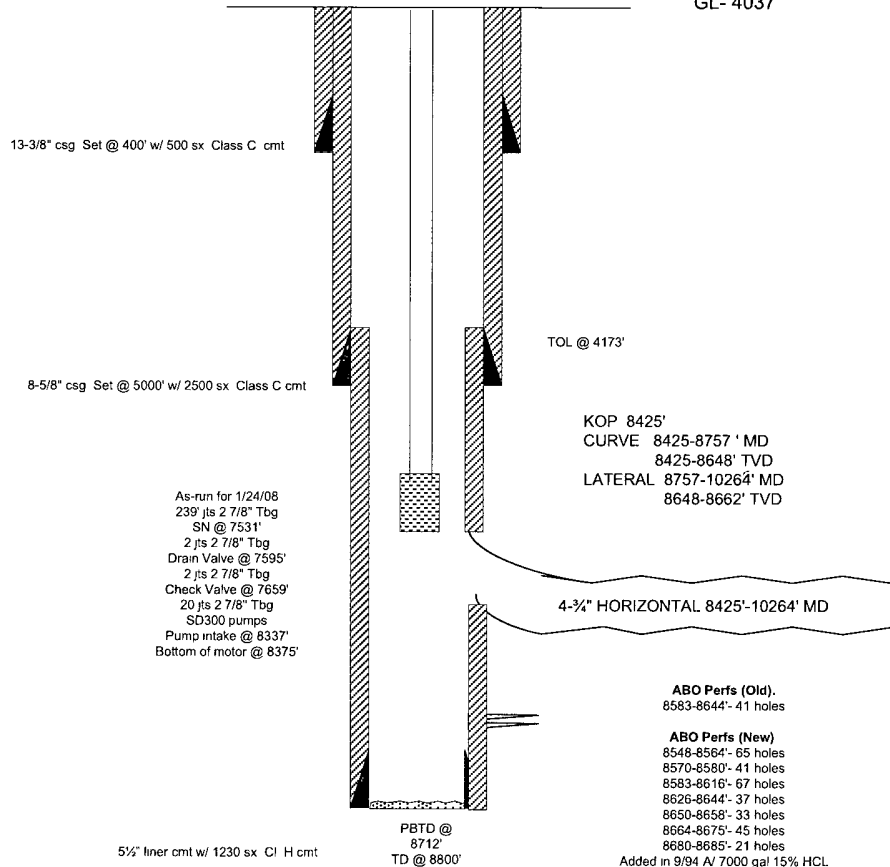
From	To	Thickness in Feet	Lithology

From	To	Thickness in Feet	Lithology

NVAU #277H WELLBORE DIAGRAM

Vacuum ABO Unit #277H
N. Vacuum ABO Field
Lea County, NM

Elevation
KB- 4054'
GL- 4037'



Last Updated By Richard Lauderdale
3/27/08

DATA

LOCATION: 790' FNL & 650' FEL, UNIT A, SEC 27, T17S, R34E
COUNTY/STATE: LEA COUNTY, NEW MEXICO
FIELD: NORTH VACUUM ABO
FORMATION: ABO
SPUD DATE: 6/5/1985 **COMPLETION DATE:**
IP:
NMOCD LEASE NO: **API #:**30-025-29234 **CTOC ACCTG #:**
PRODUCTION METHOD: PRODUCING
TUBING STRING:

COMPLETION HISTORY

7/85: INTIAL COMPLETION

DO' TO 8712', **PERFORATE ABO @ 8583-8600', 8606-09', 8626-44'(41', 41 TOTAL HOLES, 1 SPF)**, ACDZ ABO PERFS DOWN 2 7/8" WS W/ 10,250 GALLONS 15% DINE HCL & 72 BS, AIR 5 6 BPM @ 4300 PSI, ISIP 2900 PSI, 15 MIN 2000 PSI

SWAB 89 BO & 21 BW IN 5 HRS, PUMP 220 GAL UNICHEM 756 SI MIXED WITH 50 BBLS 2% KCL WATER & FLUSH WITH 100 BBL 2% KCL WATER, AIR 3.5 BPM

PUT WELL ON PRODUCTION

IPP: 203 BO, 18 BW, 268 MCF IN 24 HOURS

9/94: OAP/STIM IN ABO

POH W/ PROD EQUIP , **PERFORATE ABO @ 8548-64' & 8570-80' (4 SPF) 8583-8616' & 8626-44 (2 SPF) AND 8650-58', 8664-75', 8680-85(4 SPF), 309 TOTAL HOLES**, ACDZ ABO PERFS DOWN 2 7/8" WS W/ 7000 GAL 15% NEFE HCL & 375 BS, AIR 6 BPM @ 3140 PSI, ISIP 2300 PSI, 15 MIN 850 PSI

PUT WELL ON PRODUCTION

8/2007 DRILL LATERAL IN ABO

SET RBP @ 8440', SET WHIPSTOCK JUST ABOVE RBP, MILL WINDOW FROM 8425'-8436' DETAILS OF LATERAL (4.75" BIT)

KOP: 8425',
CURVE SECTION 8425-8757' MD 8425-8648' TVD
LATERAL SECTION 8757-10264' MD 8648-8662' TVD

10/2007 STIM ABO LATERAL & PUT ON PRODUCTION

RIH W/ 4 1/2" SWEDGE, 1 JT 2 7/8" PH-6, 4 3/4" STRING MILL, 5 JTS 2 7/8" PH-6 WS, 4 3/4" STRING MILL, 58 JTS 2 7/8" PH-6, & 193 JTS 2 7/8" N-80 WS, TAG FILL @ 9089' IN LATERAL, WORK SWEDGE THRU MULTIPLE TIGHT SPOTS, CO TO 10165', POH W/ ASSEMBLY, RIH W/ PEAK COMPLETION STRATA-PORT / STRATA PACKER ASSEMBLY, TREAT OH LATERAL W/ 60,000 GAL 20% ULTRAGEL IN 3 STAGES

9900-10264 25000 GAL 20% ACID, AIR 6.4 BPM @ 4898 PSI
9500-9900 - 30000 GAL 20% ACID, AIR 7.0 BPM @ 4900 PSI
9240-9500 - 45000 GAL 20% ACID, AIR 6.7 BPM @ 4950 PSI

ISIP 3075 PSI, 15 MIN 2865 PSI

POH W/ PACKER ASSEMBLY, RIH & RETRIEVE KNIGHT OIL TOOL WHIPSTOCK, RIH & RETRIEVE RBP,

NVAU #277H

WELLBORE DIAGRAM

ATTEMPT TO RUN SUB WITH SHROUD BUT TAGGED TIGHT SPOT IN CSG @ 6197'. REMOVE SHROUD &
RIH W/ SUB PUMP
2 7/8" PROD TBG (PUMP INTAKE @ 8357')

TEST P 89 BO, 190 BW, 131 MCF IN 24 HRS, ON 12/13/07

SUB WENT DOWN TWICE & HAD TO BE PULLED
LAST RUN (1/24/08), RIH W/ SUB PUMP (2 SD 300 PUMPS WITH SD1750 COMPRESSION PUMP), PI @ 8337'
BOTTOM OF MOTOR @ 8375', RWTP ON 1/25/08