Results of Directional Survey

API number:	30-025-28604			
OGRID:		Operator:	XTO ENERGY INC	
		Property:	NORTH VACUUM ABO UNIT	# 245

surface	ULSTR:	K	23	T	17S	R	34E
			1932 FSL		2155 FWL		
BH Loc	ULSTR:	M	23	T	17S	R	34E
			1108 FSL		547 FWL		

	MD	N/S	E/W	VD
	8380	4.63	54.89	8379.31
TOP PERFS/OH	**8380**	4.63	54 89	8379.31
	8393	4.26	54.40	8392.28
	10136	-734 42	-1424.70	8605.81
BOT PERFS/OH	**10340**	-824.44	-1607.66	8611 48
	10168	-748.54	-1453.40	8606.70

NEXT TO LAST	10136	-734.42	-1424.70	8605.81
LAST READING	10168	-748.54	-1453.40	8606.70
TD	**10340**	-824.44	-1607.66	8611 48

Surface Location	1932	FS	2155	FW
Projected BHL	1108	FS	547	FW
Location of				
Top Perfs/OH	1937	FS	2210	FW
Bottom Perfs/OH	1108	FS	547	FW

SUMMARY of Subsurface Locations

Surface Location	K-23-17S-34E	1932	FS	2155	FW	Vert. Depth
Top Perfs/OH	K-23-17S-34E	1937	FS	2210	FW	8379.31
Bottom Perfs/OH	M-23-17S-34E	1108	FS	547	FW	8611 48
Projected TD	M-23-17S-34E	1108	FS	547	FW	8611.48

XTO ENERGY

SUR: K-23-17s-34e, 1932/S & 2155/W
BHL: M-23-17s-34e, 1108/S & 547/W
API # 30-025-28604

XTO
North Vacuum Abo
NVAU #245H
#1
OH

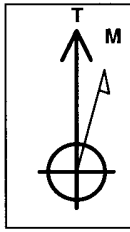
Survey: MWD #1

Pathfinder X & Y Survey Report

23 October, 2008

PATHFINDER
ENERGY SERVICES

XTO ENERGY



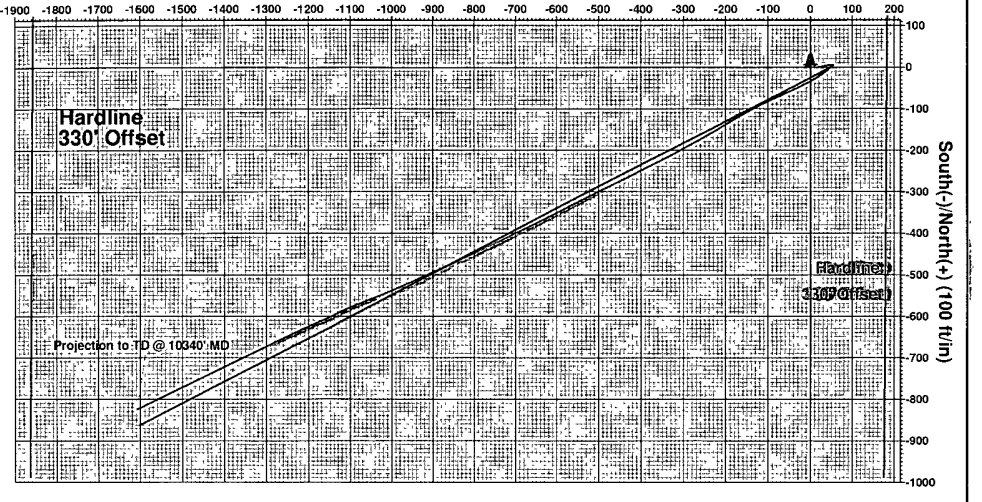
Azimuths to True North
Magnetic North: 7.92°

Magnetic Field
Strength: 49270.8snT
Dip Angle: 60.82°
Date: 2008/10/03
Model: IGRF200510

PATHFINDER ENERGY SERVICES

EOW

West(-)/East(+) (100 ft/in)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8380 00	1 15	109 43	8379 31	4 63	54 89	0 00	0 00	-50 79	
2	8480 26	86 47	242 43	8578 92	-82 93	-107 80	29 10	142 04	133 95	
3	8680 67	86 47	242 44	8578 95	-83 12	-108 17	2 00	114 47	134 37	
4	8746 43	86 47	242 44	8583 00	-113 49	-166 35	0 00	0 00	200 00	TGT1 NVAU #245@200' VS
5	8866 56	89 47	242 44	8587 26	-169 03	-272 77	2 50	0 07	320 04	
6	8946 68	89 47	242 44	8588 00	-206 10	-343 80	0 00	0 00	400 16	TGT2 NVAU #245@400 VS
7	8948 42	89 43	242 44	8588 02	-206 91	-345 34	2 50	-174 98	401 90	
8	9146 58	89 43	242 44	8590 00	-298 59	-521 00	0 00	0 00	600 04	TGT3 NVAU #245@600' VS
9	9158 41	89 72	242 44	8590 09	-304 06	-531 49	2 50	-0 39	611 87	
10	9346 58	89 72	242 44	8591 00	-391 14	-698 30	0 00	0 00	800 05	TGT4 NVAU #245@800' VS
11	9358 75	89 42	242 43	8591 09	-396 77	-709 08	2 50	-179 63	812 21	
12	9546 71	89 42	242 43	8593 00	-483 75	-875 70	0 00	0 00	1000 16	TGT5 NVAU #245@1000' VS
13	9547 07	89 43	242 43	8593 00	-483 92	-876 02	2 50	-13 95	1000 52	
14	9746 65	89 43	242 43	8595 00	-576 28	-1052 93	0 00	0 00	1200 09	TGT6 NVAU #245@1200' VS
15	9771 05	88 82	242 43	8595 37	-587 57	-1074 56	2 50	179 98	1224 49	
16	9946 67	88 82	242 43	8599 00	-668 83		0 00	0 00	1400 07	TGT7 NVAU #245@1400' VS
17	9948 17	88 85	242 43	8599 03	-669 53	-1230 29	2 50	-1 71	1401 57	
18	10146 72	88 85	242 43	8603 00	-761 40	-1407 50	0 00	0 00	1600 08	TGT8 NVAU #245@1600' VS
19	10150 69	88 95	242 43	8603 08	-763 24	-1411 02	2 50	-1 11	1604 05	
20	10365 59	88 95	242 43	8607 00	-862 69	-1601 48	0 00	0 00	1818 92	PBHL NVAU #245@8607'TVD

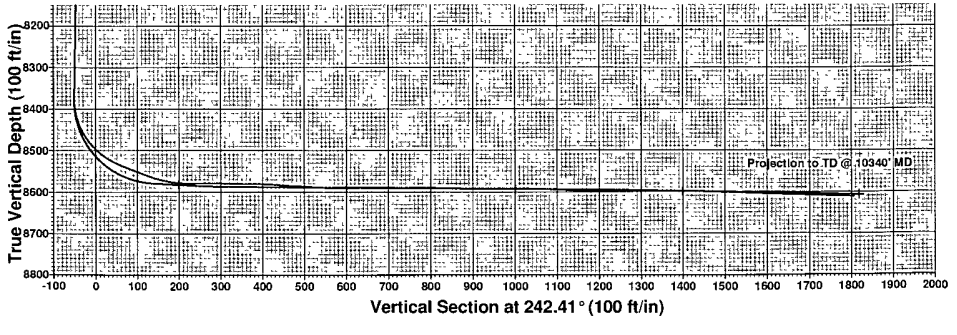
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
TGT1 NVAU #245@200' VS	8583.00	-113 49	-166 35	662258 753	745919 015	Point
TGT3 NVAU #245@600' VS	8590.00	-298.59	-521 00	662070 970	745565 778	Point
TGT5 NVAU #245@1000' VS	8593.00	-483.75	-875 70	661883 128	745212 491	Point
TGT7 NVAU #245@1400' VS	8599 00	-668 83	-1230 20	661695 367	744859.404	Point
PBHL NVAU #245@8607'TVD	8607 00	-862 69	-1601 48	661498 700	744489.600	Point

WELL DETAILS #1

Ground Elevation 4033 00
RKB Elevation WELL @ 4045 00ft (Est RKB=12')
Est RKB=12'
Rig Name

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0 00	0 00	662373 500	746084 500	32° 49' 6 202 N	103° 31' 56 328 W	



Project: North Vacuum Abo
Site: NVAU #245H
Well: #1
Wellbore: OH
Plan: Plan #1 (#1/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 (#1/OH)

Created By Nate Bingham Date 14 41, October 23 2008

Checked _____ Date _____

Company:	XTO	**Local Co-ordinate Reference:**	Well #1
Project:	North Vacuum Abo	**TVD Reference:**	WELL @ 4045.00ft (Est RKB=12')
Site:	NVAU #245H	**MD Reference:**	WELL @ 4045.00ft (Est RKB=12')
Well:	#1	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003.16 Single User Db

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 #245H

Site Position:		**Northing:**	662,373 500 ft	**Latitude:**	32° 49' 6 202 N
From:	Map	**Easting:**	746,084 500 ft	**Longitude:**	103° 31' 56.328 W
Position Uncertainty:	0 00 ft	**Slot Radius:**	"	**Grid Convergence:**	0 43 °

Well #1

Well Position	**+N/-S**	0 00 ft	**Northing:**	662,373.500 ft	**Latitude:**	32° 49' 6 202 N
	+E/-W	0 00 ft	**Easting:**	746,084 500 ft	**Longitude:**	103° 31' 56.328 W
Position Uncertainty		0 00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,033 00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	2008/10/03	7.92	60 83	49,271

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)**	**Direction (°)**
	0 00	0 00	0 00	63.60

Company:	XTO	**Local Co-ordinate Reference:**	Well #1
Project:	North Vacuum Abo	**TVD Reference:**	WELL @ 4045 00ft (Est. RKB=12')
Site:	NVAU #245H	**MD Reference:**	WELL @ 4045 00ft (Est. RKB=12')
Well:	#1	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003 16 Single User Db

Survey Program **Date** 2008/10/23

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100 00	8,380 00	Survey #1 (OH)	Gyro	GYRO
8,393 00	10,340 00	MWD #1 (OH)	MWD	MWD - Standard

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
8,380 00	1.15	100.43	8,379 31	4,334.31	4.63	54 89	51 23	0 00	662,378.55	746,139 35
8,393 00	6 30	240.40	8,392.28	4,347 28	4.26	54 40	50.62	55 51	662,378.17	746,138 87
8,424.00	16 30	228 70	8,422.65	4,377 65	0.53	49.64	44 70	32 93	662,374 41	746,134 13
8,456.00	27.00	230 00	8,452.35	4,407 35	-7 12	40 67	33 27	33 47	662,366 69	746,125 23
8,488.00	37 50	235 50	8,479 38	4,434 38	-17.34	27.04	16 51	34 04	662,356 37	746,111.67
8,520.00	48 50	238 60	8,502 75	4,457.75	-29.14	8 73	-5 14	35.00	662,344.43	746,093.45
8,552 00	58 80	242 60	8,521 70	4,476.70	-41 71	-13 72	-30 83	33.71	662,331.68	746,071.10
8,584 00	66 90	244.90	8,536.29	4,491 29	-54 28	-39 24	-59 28	26 11	662,318 93	746,045.67
8,615 00	69 50	244.80	8,547.80	4,502 80	-66.51	-65.29	-88 06	8.39	662,306 50	746,019.71
8,647 00	69 30	244.80	8,559.06	4,514 06	-79.26	-92.40	-118 00	0 62	662,293 54	745,992.71
8,679 00	73 80	242 80	8,569 18	4,524 18	-92 67	-119.62	-148.35	15.26	662,279 93	745,965 59
8,710.00	80.40	240 80	8,576 10	4,531 10	-106 94	-146.23	-178.53	22.20	662,265 45	745,939 08
8,731.30	85 53	239.80	8,578.71	4,533 71	-117.42	-164 59	-199.63	24 51	662,254 84	745,920.80
TGT1 NVAU #245@200' VS										
8,742.00	88.10	239 30	8,579 30	4,534 30	-122.83	-173.80	-210.28	24.51	662,249 36	745,911 64
8,774 00	91 50	238 00	8,579 42	4,534 42	-139 48	-201 12	-242 16	11.37	662,232.50	745,884 44
8,805 00	88 80	240 00	8,579.33	4,534 33	-155 44	-227.69	-273 06	10.84	662,216.34	745,858 00
8,837 00	89.10	239 70	8,579 92	4,534 92	-171 51	-255.35	-304 98	1.33	662,200.06	745,830.45
8,869.00	89 20	240 60	8,580 40	4,535 40	-187 43	-283 10	-336 92	2 83	662,183.93	745,802 82
8,900 00	90.20	240 80	8,580 56	4,535 56	-202 60	-310.14	-367 88	3 29	662,168.55	745,775 91
8,931 49	86.66	242.47	8,581 42	4,536.42	-217.55	-337.83	-399 33	12.44	662,153.39	745,748.33
TGT2 NVAU #245@400 VS										

Company:	XTO	**Local Co-ordinate Reference:**	Well #1
Project:	North Vacuum Abo	**TVD Reference:**	WELL @ 4045 00ft (Est RKB=12')
Site:	NVAU #245H	**MD Reference:**	WELL @ 4045.00ft (Est. RKB=12')
Well:	#1	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003.16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
8,932 00	86 60	242 50	8,581 45	4,536 45	-217 79	-338 28	-399.84	12 44	662,153 15	745,747 88
8,964 00	86 90	242.40	8,583.27	4,538 27	-232 57	-366 61	-431.78	0.99	662,138 16	745,719 66
8,996.00	86 80	242.80	8,585 02	4,540 02	-247 27	-394 98	-463 73	1.29	662,123.24	745,691.41
9,027.00	86.90	242.40	8,586 73	4,541 73	-261 52	-422 46	-494 68	1.33	662,108 79	745,664 04
9,059.00	87.10	243.70	8,588.40	4,543.40	-276 00	-450 94	-526 63	4.10	662,094 09	745,635 66
9,091 00	90.00	243 00	8,589 21	4,544.21	-290.35	-479.53	-558 62	9 32	662,079.53	745,607 18
9,122.00	90 20	243 00	8,589 16	4,544.16	-304.42	-507 15	-589 62	0 65	662,065.25	745,579.67
9,131 69	90 29	243.00	8,589 12	4,544.12	-308.82	-515 78	-599 30	0 94	662,060.78	745,571.07
TGT3 NVAU #245@600' VS										
9,154.00	90 50	243 00	8,588 96	4,543 96	-318.95	-535 66	-621 61	0 94	662,050.50	745,551 27
9,186 00	89 80	242.50	8,588 88	4,543.88	-333 60	-564.11	-653 61	2 69	662,035.64	745,522 93
9,217.00	89 10	243.20	8,589 18	4,544 18	-347 74	-591.69	-684 61	3 19	662,021.28	745,495 46
9,249 00	89 60	244 30	8,589 54	4,544 54	-361 90	-620 39	-716 60	3.78	662,006.91	745,466 87
9,281 00	90 40	243 50	8,589 54	4,544 54	-375.97	-649 13	-748 60	3.54	661,992 62	745,438 24
9,312 00	89.30	244.60	8,589 62	4,544.62	-389 54	-677.00	-779 60	5 02	661,978 84	745,410.47
9,331 89	88.55	244 04	8,589 99	4,544 99	-398 16	-694.93	-799.49	4 69	661,970.09	745,392.61
TGT4 NVAU #245@800' VS										
9,344 00	88.10	243 70	8,590 35	4,545.35	-403.49	-705 79	-811.59	4 69	661,964.68	745,381.79
9,376 00	87 30	244 60	8,591 63	4,546 63	-417.43	-734 56	-843 56	3 76	661,950 52	745,353 12
9,408 00	88 70	245 00	8,592 75	4,547 75	-431.05	-763 50	-875 53	4 55	661,936.68	745,324.29
9,439 00	90 70	244.00	8,592 91	4,547 91	-444.39	-791 48	-906 53	7 21	661,923 12	745,296.41
9,471 00	90.50	245.00	8,592 57	4,547 57	-458 17	-820 36	-938 52	3 19	661,909.13	745,267 64
9,503 00	90.70	245 60	8,592 24	4,547 24	-471 54	-849.43	-970 51	1 98	661,895 54	745,238 67
9,531.96	89 86	246 81	8,592 10	4,547.10	-483.22	-875.93	-999 44	5.10	661,883 66	745,212 26
TGT5 NVAU #245@1000' VS										
9,534 00	89 80	246 90	8,592.10	4,547.10	-484.02	-877 80	-1,001 47	5 10	661,882 84	745,210.39
9,566.00	88 60	245.70	8,592 55	4,547.55	-496.88	-907.10	-1,033 43	5 30	661,869.76	745,181 19
9,598 00	88.10	245 50	8,593 47	4,548 47	-510.10	-936.23	-1,065 40	1.68	661,856 32	745,152 16

Company:	XTO	**Local Co-ordinate Reference:**	Well #1
Project:	North Vacuum Abo	**TVD Reference:**	WELL @ 4045 00ft (Est. RKB=12')
Site:	NVAU #245H	**MD Reference:**	WELL @ 4045.00ft (Est RKB=12')
Well:	#1	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003 16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
9,629.00	87 60	246 60	8,594 64	4,549 64	-522 67	-964.54	-1,096 35	3.90	661,843.54	745,123 95
9,661 00	87 50	246 50	8,596 00	4,551 00	-535.39	-993 87	-1,128 28	0 44	661,830.59	745,094.71
9,693 00	88 30	247 90	8,597 18	4,552.18	-547 78	-1,023 35	-1,160 19	5 04	661,817.98	745,065 33
9,724.00	88 00	249 00	8,598 18	4,553 18	-559.17	-1,052 17	-1,191.06	3.68	661,806.38	745,036 60
9,730 81	88.15	248.91	8,598.41	4,553.41	-561.61	-1,058 52	-1,197.84	2.52	661,803.89	745,030 27
TGT6 NVAU #245@1200' VS										
9,756.00	88 70	248 60	8,599 10	4,554.10	-570.73	-1,081 99	-1,222 92	2.52	661,794.58	745,006.87
9,788.00	90 70	245.80	8,599.27	4,554.27	-583.13	-1,111 48	-1,254 85	10 75	661,781.96	744,977.47
9,820 00	90 60	245 10	8,598.90	4,553 90	-596.43	-1,140 59	-1,286 83	2.21	661,768.45	744,948.46
9,851.00	90 60	244 80	8,598 58	4,553 58	-609 55	-1,168 67	-1,317 82	0 97	661,755 11	744,920.48
9,883 00	90.00	244 90	8,598.41	4,553.41	-623 15	-1,197 64	-1,349 81	1 90	661,741.29	744,891 62
9,915.00	89.20	244 80	8,598 63	4,553 63	-636.75	-1,226 60	-1,381 80	2.52	661,727.47	744,862.76
9,932 09	89 03	244 41	8,598 90	4,553.90	-644.07	-1,242 04	-1,398 88	2.46	661,720 03	744,847 38
TGT7 NVAU #245@1400' VS										
9,946.00	88 90	244.10	8,599.15	4,554.15	-650 12	-1,254.57	-1,412 80	2 46	661,713 89	744,834 90
9,978.00	88 10	243 70	8,599.99	4,554 99	-664 19	-1,283.29	-1,444 78	2 79	661,699 60	744,806 28
10,010 00	88.10	243 40	8,601.05	4,556 05	-678.44	-1,311 93	-1,476 77	0 94	661,685 14	744,777 75
10,041 00	87 80	244.30	8,602.16	4,557 16	-692.09	-1,339 74	-1,507 75	3 06	661,671 28	744,750 05
10,073 00	87.40	243.30	8,603 50	4,558.50	-706.21	-1,368.42	-1,539 72	3.36	661,656 95	744,721.47
10,105 00	87 90	243.20	8,604.81	4,559.81	-720 60	-1,396 98	-1,571 69	1 59	661,642 34	744,693 03
10,132.55	88.34	243 73	8,605 71	4,560.71	-732 90	-1,421.61	-1,599 23	2 52	661,629 85	744,668.48
TGT8 NVAU #245@1600' VS										
10,136.00	88 40	243 80	8,605 81	4,560 81	-734 42	-1,424 70	-1,602 67	2 52	661,628.30	744,665 40
10,168.00	88 40	243.80	8,606 70	4,561.70	-748 54	-1,453 40	-1,634.66	0 00	661,613 96	744,636 81
10,340 00	88 40	243.80	8,611.50	4,566 50	-824.45	-1,607.67	-1,806.59	0 00	661,536.89	744,483.12
Projection to TD @ 10340' MD - PBHL NVAU #245@8607'TVD										

Company:	XTO	**Local Co-ordinate Reference:**	Well #1
Project:	North Vacuum Abo	**TVD Reference:**	WELL @ 4045.00ft (Est RKB=12')
Site:	NVAU #245H	**MD Reference:**	WELL @ 4045.00ft (Est RKB=12')
Well:	#1	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 2003 16 Single User Db

Targets

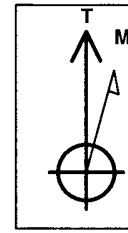
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
TGT3 NVAU #245@6 - survey misses by 11.52ft at 9131 69ft MD (8589.12 TVD, -308 82 N, -515 78 E) - Point	0.00	0 43	8,590 00	-298 59	-521.00	662,070.970	745,565 778	32° 49' 3.248 N	103° 32' 2.433 W
PBHL NVAU #245@8 - survey misses by 38 99ft at 10340.00ft MD (8611.50 TVD, -824.45 N, -1607 67 E) - Point	0.00	0 43	8,607 00	-862 69	-1,601.48	661,498 700	744,489 600	32° 48' 57 666 N	103° 32' 15 093 W
TGT7 NVAU #245@1 - survey misses by 27 44ft at 9932.18ft MD (8598.90 TVD, -644.11 N, -1242.12 E) - Point	0.00	0 43	8,599 00	-668 83	-1,230.20	661,695.367	744,859 404	32° 48' 59 584 N	103° 32' 10.743 W
TGT5 NVAU #245@1 - survey misses by 1.07ft at 9531 96ft MD (8592 10 TVD, -483.22 N, -875 93 E) - Point	0.00	0 43	8,593 00	-483 75	-875 70	661,883 128	745,212.491	32° 49' 1 415 N	103° 32' 6 589 W
TGT1 NVAU #245@2 - survey misses by 6 08ft at 8731.30ft MD (8578.71 TVD, -117 42 N, -164.59 E) - Point	0 00	0 43	8,583 00	-113 49	-166 35	662,258 753	745,919.015	32° 49' 5 079 N	103° 31' 58.277 W

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
10,340.00	8,611.50	-824.45	-1,607.67	Projection to TD @ 10340' MD

Checked By: _____ Approved By: _____ Date: _____

XTO ENERGY



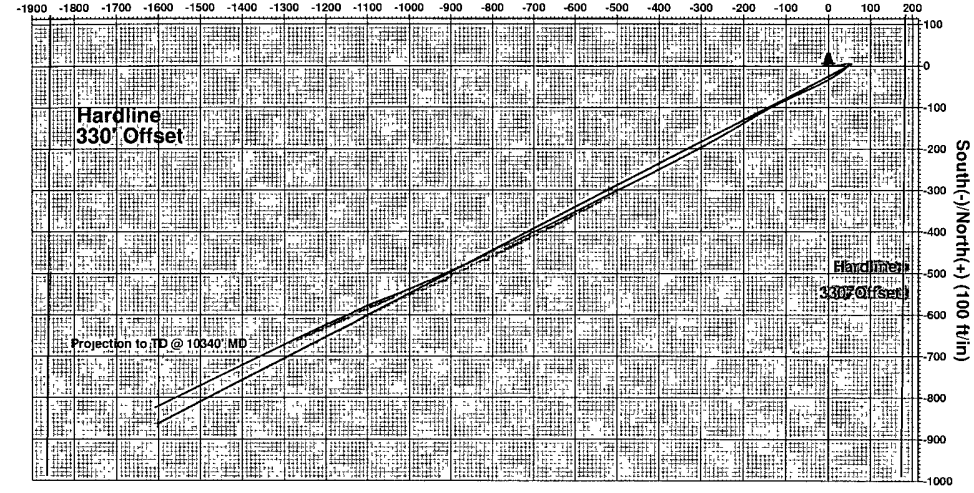
Azimuths to True North
Magnetic North: 7.92°

Magnetic Field
Strength: 49270.8snT
Dip Angle: 60.82°
Date: 2008/10/03
Model: IGRF200510

PATHFINDER ENERGY SERVICES

EOW

West(-)/East(+) (100 ft/in)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8380 00	1 15	100 43	8379 31	4 63	54 89	0 00	0 00	-50 79	
2	8680 26	86 47	242 43	8578 92	-82 93	-107 80	29 10	142 04	133 95	
3	8680 67	86 47	242 44	8578 95	-83 12	-108 17	2 00	114 47	134 37	
4	8746 43	86 47	242 44	8583 00	-113 49	-166 35	0 00	0 00	200 00	TGT1 NVAU #245@200' VS
5	8866 56	89 47	242 44	8587 26	-159 03	-272 77	2 50	0 07	320 04	
6	8946 68	89 47	242 44	8588 00	-206 10	-343 80	0 00	0 00	400 16	TGT2 NVAU #245@400 VS
7	8948 42	89 43	242 44	8588 02	-206 91	-345 34	2 50	-174 98	401 90	
8	9146 58	89 43	242 44	8590 00	-298 59	-521 00	0 00	0 00	600 04	TGT3 NVAU #245@600' VS
9	9158 41	89 72	242 44	8590 09	-304 06	-531 49	2 50	-0 39	611 87	
10	9346 58	89 72	242 44	8591 00	-391 14	-698 30	0 00	0 00	800 05	TGT4 NVAU #245@800' VS
11	9358 75	89 42	242 43	8591 09	-396 77	-709 08	2 50	-179 63	812 21	
12	9546 71	89 42	242 43	8593 00	-483 75	-875 70	0 00	0 00	1000 16	TGT5 NVAU #245@1000' VS
13	9547 07	89 43	242 43	8593 00	-483 92	-876 02	2 50	-13 95	1000 52	
14	9746 65	89 43	242 43	8595 00	-576 28	-1052 93	0 00	0 00	1200 09	TGT6 NVAU #245@1200' VS
15	9771 05	88 82	242 43	8595 37	-587 57	-1074 56	2 50	179 98	1224 49	
16	9946 67	88 82	242 43	8599 00	-668 83		0 00	0 00	1400 07	TGT7 NVAU #245@1400' VS
17	9948 17	88 85	242 43	8599 03	-669 53	-1230 29	2 50	-1 71	1401 57	
18	10146 72	88 85	242 43	8603 00	-761 40	-1407 50	0 00	0 00	1600 08	TGT8 NVAU #245@1600' VS
19	10150 69	88 95	242 43	8603 08	-763 24	-1411 02	2 50	-1 11	1604 05	
20	10365 59	88 95	242 43	8607 00	-862 69	-1601 48	0 00	0 00	1818 92	PBHL NVAU #245@8607'TVD

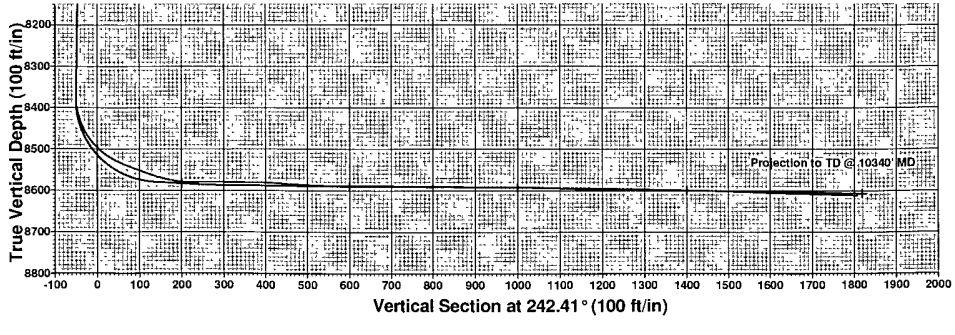
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
TGT1 NVAU #245@200' VS	8583 00	-113 49	-166 35	662258 753	745919 015	Point
TGT3 NVAU #245@600' VS	8590.00	-298.59	-521 00	662070 970	745565 778	Point
TGT5 NVAU #245@1000' VS	8593.00	-483 75	-875 70	661883 128	745212 491	Point
TGT7 NVAU #245@1400' VS	8599 00	-668 83	-1230 20	661695 367	744859 404	Point
PBHL NVAU #245@8607'TVD	8607 00	-862 69	-1601 48	661498 700	744489 600	Point

WELL DETAILS #1

Ground Elevation 4033 00
RKB Elevation WELL @ 4045 00ft (Est RKB=12')
Rig Name Est RKB=12'

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0 00	0 00	662373 500	746084 500	32° 49' 6 202 N	103° 31' 56 328 W	



Project: North Vacuum Abo
Site: NVAU #245H
Well: #1
Wellbore: OH
Plan: Plan #1 (#1/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 (#1/OH)

Created By Nate Bingham Date 14 41, October 23 2008

Checked _____ Date _____