



Scientific Drilling

Gyroscopic Survey Report
for
X.T.O.

Well Location	EDDY COUNTY, NEW MEXICO
Well Name	NASH UNIT #40
Rig Name	MCVAY #7
Survey Date	12/26/2009
Latitude	32.32 deg
North Reference	Grid North
Grid Correction	-0.21 deg
Depth Reference	RKB
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 350.66Azim (deg)
Definitive Survey	FINAL OUTRUN
Operator	LEO GARZA

Comments



Survey Report

Well Name: NASH UNIT #40
Survey: FINAL OUTRUN
Survey Date: 12/26/2009

MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.28	62.01	100.00	0.08	0.11	0.21	0.28	0.24	62.01
200.00	0.49	45.32	200.00	0.40	0.53	0.73	0.24	0.90	54.21
300.00	0.64	56.85	299.99	0.87	1.13	1.50	0.19	1.88	52.99
400.00	0.76	46.43	399.99	1.47	1.90	2.45	0.17	3.10	52.29
500.00	0.70	44.33	499.98	2.21	2.79	3.36	0.07	4.36	50.29
600.00	0.58	57.42	599.97	2.77	3.50	4.21	0.19	5.47	50.29
700.00	0.65	72.13	699.96	3.05	3.95	5.18	0.17	6.51	52.71
800.00	0.69	51.03	799.96	3.43	4.50	6.19	0.25	7.65	53.99
900.00	0.54	70.71	899.95	3.81	5.03	7.11	0.26	8.71	54.68
1000.00	0.66	93.40	999.95	3.77	5.16	8.13	0.26	9.62	57.60
1100.00	0.47	99.33	1099.94	3.51	5.06	9.10	0.20	10.41	60.95
1200.00	0.68	128.98	1199.94	2.94	4.61	9.97	0.36	10.98	65.15
1300.00	1.05	143.96	1299.93	1.67	3.50	10.97	0.43	11.51	72.31
1400.00	1.48	143.80	1399.90	-0.30	1.71	12.27	0.43	12.39	82.06
1500.00	1.62	145.13	1499.86	-2.74	-0.50	13.85	0.15	13.86	92.05
1600.00	1.52	146.97	1599.83	-5.23	-2.77	15.38	0.12	15.63	100.21
1700.00	1.30	157.37	1699.80	-7.55	-4.93	16.54	0.34	17.26	106.59
1800.00	1.36	164.09	1799.77	-9.82	-7.11	17.30	0.17	18.70	112.34
1900.00	1.47	162.31	1899.74	-12.27	-9.47	18.01	0.13	20.35	117.74
2000.00	1.56	158.17	1999.70	-14.87	-11.96	18.91	0.14	22.38	122.31
2100.00	1.56	154.44	2099.67	-17.51	-14.45	20.00	0.10	24.68	125.84
2200.00	1.51	148.15	2199.63	-20.03	-16.80	21.29	0.17	27.11	128.28
2300.00	1.89	144.35	2299.59	-22.72	-19.25	22.94	0.39	29.95	130.01
2400.00	2.72	139.12	2399.51	-26.22	-22.38	25.45	0.86	33.90	131.33
2500.00	3.39	134.39	2499.36	-30.62	-26.24	29.12	0.72	39.20	132.03
2600.00	3.37	132.38	2599.19	-35.31	-30.29	33.40	0.12	45.09	132.21
2700.00	3.57	135.67	2699.01	-40.17	-34.50	37.75	0.28	51.14	132.43
2800.00	3.79	137.61	2798.80	-45.50	-39.17	42.15	0.26	57.55	132.90
2900.00	3.84	139.02	2898.58	-51.12	-44.15	46.58	0.11	64.18	133.46
3000.00	2.94	143.14	2998.40	-56.25	-48.73	50.32	0.93	70.05	134.08
3100.00	2.42	143.95	3098.29	-60.42	-52.49	53.10	0.52	74.67	134.67
3200.00	2.16	143.23	3198.21	-63.98	-55.72	55.48	0.26	78.63	135.12
3300.00	2.23	140.34	3298.14	-67.33	-58.72	57.85	0.13	82.43	135.43
3400.00	2.15	141.40	3398.07	-70.65	-61.69	60.26	0.09	86.24	135.67
3500.00	1.90	140.97	3498.00	-73.73	-64.44	62.48	0.25	89.76	135.89
3600.00	1.66	140.96	3597.95	-76.43	-66.86	64.43	0.24	92.85	136.06
3700.00	1.49	149.36	3697.92	-78.90	-69.10	66.01	0.28	95.56	136.31
3800.00	1.31	150.00	3797.89	-81.18	-71.21	67.24	0.19	97.95	136.64



Survey Report

Well Name: NASH UNIT #40
Survey: FINAL OUTFUN
Survey Date: 12/26/2009

MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
3900.00	1.15	155.77	3897.86	-83.22	-73.12	68.23	0.20	100.01	136.98
4000.00	0.99	160.83	3997.85	-85.04	-74.85	68.92	0.18	101.75	137.36
4100.00	1.03	162.46	4097.83	-86.78	-76.52	69.48	0.05	103.35	137.76
4200.00	1.03	171.75	4197.81	-88.57	-78.26	69.88	0.17	104.92	138.24
4300.00	0.89	166.26	4297.80	-90.24	-79.91	70.19	0.17	106.36	138.70
4400.00	0.70	161.54	4397.79	-91.61	-81.24	70.56	0.20	107.60	139.02
4500.00	0.57	170.05	4497.78	-92.71	-82.30	70.84	0.16	108.59	139.28
4600.00	0.48	168.89	4597.78	-93.61	-83.19	71.01	0.09	109.38	139.52
4700.00	0.45	165.63	4697.78	-94.42	-83.98	71.19	0.04	110.09	139.71
4800.00	0.43	180.75	4797.77	-95.18	-84.74	71.28	0.12	110.73	139.93
4900.00	0.30	175.40	4897.77	-95.81	-85.38	71.29	0.13	111.23	140.14
5000.00	0.46	173.37	4997.77	-96.48	-86.04	71.36	0.16	111.78	140.33
5100.00	0.37	166.68	5097.77	-97.21	-86.76	71.48	0.10	112.42	140.51
5200.00	0.60	178.23	5197.76	-98.06	-87.60	71.58	0.24	113.12	140.75
5300.00	0.76	212.00	5297.76	-99.07	-88.68	71.24	0.42	113.76	141.22
5400.00	0.93	209.44	5397.75	-100.20	-89.95	70.49	0.18	114.28	141.91
5500.00	1.14	200.30	5497.73	-101.69	-91.59	69.75	0.26	115.12	142.71
5600.00	1.43	218.11	5597.71	-103.40	-93.50	68.64	0.49	115.99	143.72
5700.00	1.73	227.33	5697.67	-105.07	-95.50	66.76	0.39	116.52	145.05
5800.00	1.76	225.53	5797.62	-106.78	-97.60	64.55	0.06	117.02	146.52
5895.00	1.53	231.16	5892.58	-108.25	-99.42	62.53	0.29	117.44	147.83

TEXT FILE

Gyroscopic Survey Report for:
X.T.O.

Well Location: EDDY COUNTY, NEW MEXICO
Well Name: NASH UNIT #40
Rig Name: MCVAY #7
Survey Date: 12/26/2009
Latitude: 32.32 deg
North Reference: Grid North
Grid Correction: -0.21 deg
Depth Reference: RKB
Calculation Method: Minimum Curvature
Section (VS) Ref: 0.00N (ft), 0.00E (ft), 350.66Azim (deg)
Definitive Survey: FINAL OTRUN
Operator: LEO GARZA

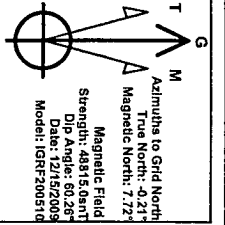
Measured Depth [ft]	Inclination [deg]	Azimuth [deg]	True Vertical Depth
[ft]	Vertical Section [ft]	Northing (Latitude) [ft]	Easting (Departure)
[ft]	Dog Leg Severity [deg/100ft]	Closure Distance [ft]	Closure Angle [deg]
0.00	0.00	0.00	Invalid
100.00	0.28	0.11	0.24
200.00	0.49	0.53	0.90
300.00	0.64	1.13	1.88
400.00	0.76	1.90	3.10
500.00	0.70	2.79	4.36
600.00	0.58	3.50	5.47
700.00	0.65	3.95	6.51
800.00	0.69	4.50	7.65
900.00	0.54	5.03	8.71
1000.00	0.66	5.16	9.62
1100.00	0.47	5.06	10.41
1200.00	0.68	4.61	10.98
1300.00	1.05	3.50	11.51
1400.00	1.48	1.71	12.39
1500.00	1.62	-0.50	13.86
1600.00	1.52	-2.77	15.63
1700.00	1.30	-4.93	17.26
1800.00	1.36	-7.11	18.70
1900.00	1.47	-9.47	20.35
2000.00	1.56	-11.96	22.38
2100.00	1.56	-14.45	24.68
2200.00	1.51	-16.80	27.11
2300.00	1.89	-19.25	29.95
2400.00	2.72	-22.38	33.90
2500.00	3.39	-26.24	39.20
2600.00	3.37	-30.29	45.09
2700.00	3.57	-34.50	51.14
2800.00	3.79	-39.17	57.55
2900.00	3.84	-44.15	64.18
3000.00	2.94	-48.73	70.05
3100.00	2.42	-52.49	74.67
3200.00	2.16	-55.72	78.63
3300.00	2.23	-58.72	82.43
3400.00	2.15	-61.69	86.24
3500.00	1.90	-64.44	89.76
3600.00	1.66	-66.86	92.85
3700.00	1.49	-69.10	95.56
3800.00	1.31	-71.21	97.95
3900.00	1.15	-73.12	100.01
4000.00	0.99	-74.85	101.75
4100.00	1.03	-76.52	103.35
4200.00	1.03	-78.26	104.92
4300.00	0.89	-79.91	106.36

TXT FILE

4400.00	0.70	161.54	4397.79	-91.61	-81.24	70.56	0.20	107.60	139.02
4500.00	0.57	170.05	4497.78	-92.71	-82.30	70.84	0.16	108.59	139.28
4600.00	0.48	168.89	4597.78	-93.61	-83.19	71.01	0.09	109.38	139.52
4700.00	0.45	165.63	4697.78	-94.42	-83.98	71.19	0.04	110.09	139.71
4800.00	0.43	180.75	4797.77	-95.18	-84.74	71.28	0.12	110.73	139.93
4900.00	0.30	175.40	4897.77	-95.81	-85.38	71.29	0.13	111.23	140.14
5000.00	0.46	173.37	4997.77	-96.48	-86.04	71.36	0.16	111.78	140.33
5100.00	0.37	166.68	5097.77	-97.21	-86.76	71.48	0.10	112.42	140.51
5200.00	0.60	178.23	5197.76	-98.06	-87.60	71.58	0.24	113.12	140.75
5300.00	0.76	212.00	5297.76	-99.07	-88.68	71.24	0.42	113.76	141.22
5400.00	0.93	209.44	5397.75	-100.20	-89.95	70.49	0.18	114.28	141.91
5500.00	1.14	200.30	5497.73	-101.69	-91.59	69.75	0.26	115.12	142.71
5600.00	1.43	218.11	5597.71	-103.40	-93.50	68.64	0.49	115.99	143.72
5700.00	1.73	227.33	5697.67	-105.07	-95.50	66.76	0.39	116.52	145.05
5800.00	1.76	225.53	5797.62	-106.78	-97.60	64.55	0.06	117.02	146.52
5895.00	1.53	231.16	5892.58	-108.25	-99.42	62.53	0.29	117.44	147.83

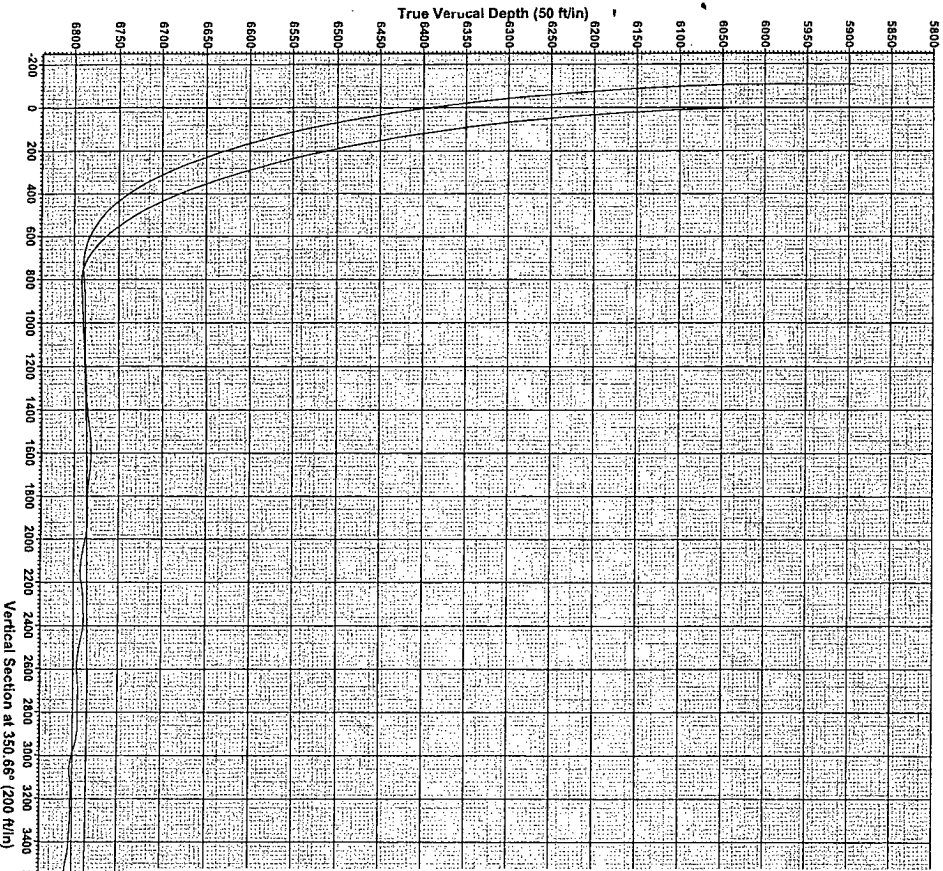


PROJECT DETAILS: Eddy County
Geologic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Elevation: Nash, Nevada East 3001
System Datum: Mean Sea Level
Local North: Grid



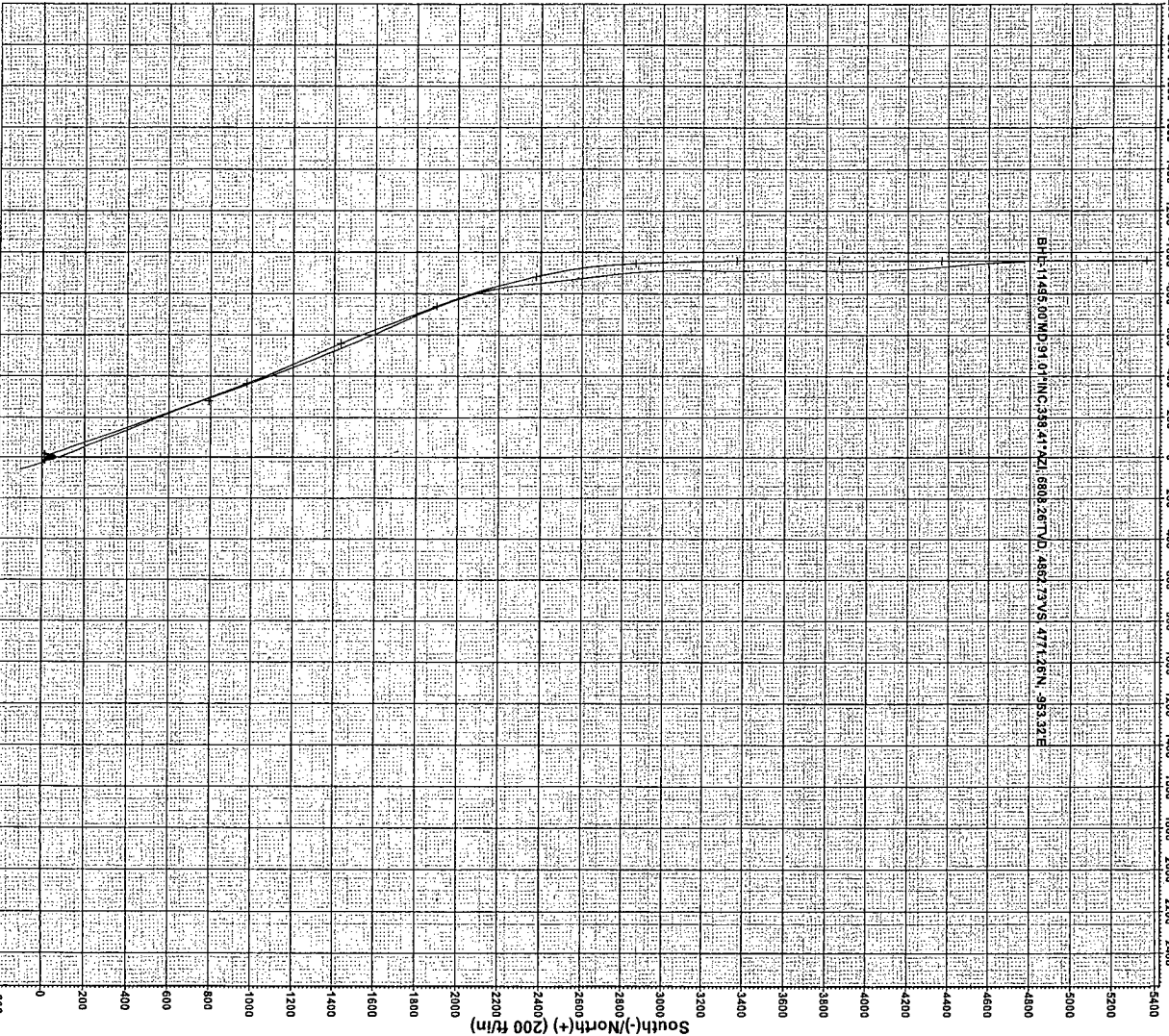
SECTION DETAILS									
Seg	Start	End	Time	Area	Volume	Target	Time	Area	Volume
1	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	3.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	4.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	5.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	6.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	7.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	8.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	9.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	10.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	11.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	12.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	13.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	14.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	15.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	16.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	17.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	18.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	19.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	20.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	21.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	22.00	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

WELL DETAILS: Nash Unit #40									
Seg	Start	End	Time	Area	Volume	Target	Time	Area	Volume
1	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	2.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	3.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	4.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	5.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	6.00	7.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	7.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	8.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	9.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	10.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	11.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	12.00	13.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	13.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	14.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	15.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	16.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	17.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	18.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	19.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	20.00	21.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	21.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	22.00	23.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Vertical Section at 350.66° (200 ft/in)

BH-1445.00 M.D. 91.01° INC. 3.39 41° 22.1 6808.26 TVD. 4862.73 VS. 4771.26 N. 953.32 E



Project: Eddy County
Site: Nash Unit #40
Well: Nash Unit #40
Plan: Plan #1 (Nash Unit #40 OH)

Plan: Plan #1 (Nash Unit #40 OH)
Created By: Nate Bingham
Date: 6/26, January 14 2010
Checked: _____



XTO

**Eddy County
Nash Unit #40
Nash Unit #40
OH**

Survey: MWD #1

Pathfinder X & Y Survey Report

14 January, 2010

PATHFINDER



Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	XTO	Local Co-ordinate Reference:	Well Nash Unit #40
Project:	Eddy County	TVD Reference:	WELL @ 3000.00ft (RKB=17)
Site:	Nash Unit #40	MD Reference:	WELL @ 3000.00ft (RKB=17)
Well:	Nash Unit #40	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database
Project:	Eddy County		
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	Nash Unit #40	Northing:	479,922.100 ft	Latitude:	32° 19' 7.725 N
From:	Map	Easting:	621,159.200 ft	Longitude:	103° 56' 28.063 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.21 °

Well	Nash Unit #40	Northing:	479,922.100 ft	Latitude:	32° 19' 7.725 N
Well Position	+N/-S	Easting:	621,159.200 ft	Longitude:	103° 56' 28.063 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	2,983.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	12/15/2009	7.93	60.26	48.815

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		350.66	



Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company: XTO
Project: Eddy County
Site: Nash Unit #40
Well: Nash Unit #40
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well Nash Unit #40
WELL @ 3000.00ft (RKB= 17)
WELL @ 3000.00ft (RKB= 17)
Grid
Minimum Curvature
Midland Database

Survey Program		Date		01/14/2010	
From	To	Survey (Wellbore)	ToolName	Description	
(ft)	(ft)				
100.00	5,895.00	GYRO (OH)	Gyro	GYRO	
5,916.00	11,495.00	MWD #1 (OH)	MWD	MWD - Standard	

MD	Inc	Azi	TVD	TVDSS	N/S	E/W	V.Sec	DLeg	Northing	Eastng
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ft)	(ft)
5,895.00	1.53	231.16	5,892.58	2,892.58	-99.41	62.50	-108.24	0.00	479,822.69	621,221.70
5,916.00	1.49	223.83	5,913.58	2,913.58	-99.78	62.09	-108.54	0.94	479,822.32	621,221.29
5,947.00	1.32	225.56	5,944.57	2,944.57	-100.33	61.56	-108.99	0.57	479,821.77	621,220.76
5,978.00	0.97	275.49	5,975.56	2,975.56	-100.55	61.04	-109.12	3.28	479,821.55	621,220.24
6,009.00	2.37	326.02	6,006.55	3,006.55	-99.99	60.42	-108.47	6.15	479,822.11	621,219.62
6,040.00	4.57	337.31	6,037.49	3,037.49	-98.32	59.59	-106.69	7.40	479,823.78	621,218.79
6,071.00	6.95	343.28	6,068.33	3,068.33	-95.39	58.57	-103.63	7.91	479,826.71	621,217.77
6,093.00	8.79	345.29	6,090.12	3,090.12	-92.49	57.76	-100.63	8.46	479,829.61	621,216.96
6,124.00	10.99	346.00	6,120.66	3,120.66	-87.33	56.44	-95.33	7.11	479,834.77	621,215.64
6,154.00	12.84	345.53	6,150.01	3,150.01	-81.32	54.92	-89.16	6.18	479,840.78	621,214.12
6,185.00	14.68	344.40	6,180.12	3,180.12	-74.20	53.00	-81.82	6.00	479,847.90	621,212.20
6,216.00	16.36	342.93	6,209.99	3,209.99	-66.25	50.66	-73.59	5.57	479,855.85	621,209.86
6,247.00	18.03	341.59	6,239.60	3,239.60	-57.52	47.87	-64.53	5.54	479,864.58	621,207.07
6,277.00	19.61	340.25	6,268.00	3,268.00	-48.38	44.70	-54.99	5.46	479,873.72	621,203.90
6,308.00	21.28	339.44	6,297.05	3,297.05	-38.21	40.97	-44.35	5.46	479,883.89	621,200.17
6,339.00	23.30	339.32	6,325.73	3,325.73	-27.21	36.83	-32.82	6.52	479,894.89	621,196.03
6,370.00	25.50	339.87	6,353.96	3,353.96	-15.21	32.36	-20.26	7.13	479,906.89	621,191.56
6,401.00	27.52	340.06	6,381.70	3,381.70	-2.21	27.62	-6.66	6.52	479,919.89	621,186.82
6,431.00	29.46	340.48	6,408.06	3,408.06	11.26	22.79	7.41	6.50	479,933.36	621,181.99
6,462.00	31.74	340.56	6,434.74	3,434.74	26.14	17.53	22.95	7.36	479,948.24	621,176.73
6,493.00	34.12	340.34	6,460.76	3,460.76	42.02	11.89	39.53	7.69	479,964.12	621,171.09



Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	XTO	Local Co-ordinate Reference:	Well Nash Unit #40
Project:	Eddy County	TVD Reference:	WELL @ 3000.00ft (RKB = 17)
Site:	Nash Unit #40	MD Reference:	WELL @ 3000.00ft (RKB = 17)
Well:	Nash Unit #40	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	NS (ft)	EW (ft)	V. Sec (ft)	Dleg (°/100ft)	Northing (ft)	Easting (ft)
	6,525.00	36.67	339.88	6,486.84	3,486.84	59.44	5.59	57.75	8.01	479,981.54	621,164.79
	6,555.00	39.39	339.57	6,510.47	3,510.47	76.78	-0.82	75.89	9.09	479,998.88	621,158.38
	6,585.00	42.56	339.06	6,533.12	3,533.12	95.18	-7.77	95.18	10.63	480,017.28	621,151.43
	6,616.00	45.29	338.51	6,555.45	3,555.45	115.22	-15.55	116.22	8.89	480,037.32	621,143.65
	6,647.00	47.48	337.70	6,576.83	3,576.83	136.05	-23.92	138.13	7.31	480,058.15	621,135.28
	6,678.00	49.59	337.05	6,597.36	3,597.36	157.49	-32.86	160.73	6.99	480,079.59	621,126.34
	6,709.00	51.88	336.41	6,616.97	3,616.97	179.53	-42.35	184.03	7.56	480,101.63	621,116.85
	6,739.00	54.26	336.02	6,635.00	3,635.00	201.48	-52.02	207.25	8.00	480,123.58	621,107.18
	6,770.00	56.45	335.99	6,652.62	3,652.62	224.77	-62.39	231.92	7.06	480,146.87	621,096.81
	6,801.00	58.30	335.81	6,669.33	3,669.33	248.60	-73.05	257.16	5.99	480,170.70	621,086.15
	6,832.00	60.59	336.08	6,685.09	3,685.09	272.98	-83.93	282.98	7.43	480,195.08	621,075.27
	6,863.00	63.14	336.79	6,699.71	3,699.71	298.04	-94.86	309.48	8.47	480,220.14	621,064.34
	6,894.00	65.33	337.52	6,713.18	3,713.18	323.76	-105.69	336.62	7.38	480,245.86	621,053.51
	6,924.00	67.88	337.79	6,725.09	3,725.09	349.23	-116.16	363.45	8.54	480,271.33	621,043.04
	6,955.00	70.43	338.12	6,736.12	3,736.12	376.08	-127.03	391.71	8.29	480,298.18	621,032.17
	6,986.00	72.81	338.05	6,745.90	3,745.90	403.37	-138.01	420.42	7.68	480,325.47	621,021.19
	7,017.00	74.92	337.73	6,754.51	3,754.51	430.96	-149.22	449.46	6.88	480,353.06	621,009.98
	7,048.00	77.21	337.41	6,761.98	3,761.98	458.77	-160.70	478.76	7.45	480,380.87	620,998.50
	7,079.00	79.05	337.41	6,768.35	3,768.35	486.77	-172.35	508.29	5.94	480,408.87	620,986.85
	7,109.00	80.46	337.52	6,773.69	3,773.69	514.04	-183.67	537.03	4.71	480,436.14	620,975.53
	7,140.00	82.39	337.85	6,778.31	3,778.31	542.40	-195.30	566.90	6.31	480,464.50	620,963.90
	7,171.00	83.89	337.71	6,782.01	3,782.01	570.89	-206.94	596.91	4.86	480,492.99	620,952.26
	7,202.00	85.30	337.47	6,784.93	3,784.93	599.42	-218.71	626.97	4.61	480,521.52	620,940.49
	7,233.00	86.70	337.47	6,787.10	3,787.10	627.98	-230.56	657.08	4.52	480,550.08	620,928.64
	7,250.00	87.76	337.88	6,787.92	3,787.92	643.69	-237.01	673.62	6.68	480,565.79	620,922.19
	7,336.00	91.01	341.03	6,788.84	3,788.84	724.20	-267.18	757.96	5.26	480,646.30	620,892.02
	7,361.00	90.84	340.81	6,788.44	3,788.44	747.82	-275.35	782.59	1.11	480,669.92	620,883.85



Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	XTO	Local/Co-ordinate Reference:	Well Nash Unit #40
Project:	Eddy County	TVD Reference:	WELL @ 3000.00ft (RKB = 17')
Site:	Nash Unit #40	MD Reference:	WELL @ 3000.00ft (RKB = 17')
Well:	Nash Unit #40	North Reference:	Grid
Wellbore:	OH	Survey/Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	NS (ft)	EW (ft)	V. Sec (ft)	Dleg (°/100ft)	Northing (ft)	Easting (ft)
	7,388.00	90.84	340.52	6,788.04	3,788.04	773.29	-284.29	809.18	1.07	480,695.39	620,874.91
	7,419.00	90.84	340.29	6,787.59	3,787.59	802.50	-294.68	839.68	0.74	480,724.60	620,864.52
	7,449.00	90.57	340.47	6,787.22	3,787.22	830.75	-304.75	869.20	1.08	480,752.85	620,854.45
	7,480.00	90.04	339.73	6,787.05	3,787.05	859.90	-315.31	899.67	2.94	480,782.00	620,843.89
	7,510.00	89.87	339.62	6,787.08	3,787.08	888.03	-325.73	929.12	0.67	480,810.13	620,833.47
	7,540.00	89.96	340.11	6,787.12	3,787.12	916.20	-336.05	956.59	1.66	480,838.30	620,823.15
	7,571.00	90.04	339.83	6,787.12	3,787.12	945.32	-346.67	989.05	0.94	480,867.42	620,812.53
	7,600.00	89.96	339.52	6,787.12	3,787.12	972.52	-356.74	1,017.52	1.10	480,894.62	620,802.46
	7,630.00	89.87	339.40	6,787.17	3,787.17	1,000.61	-367.27	1,046.95	0.50	480,922.71	620,791.93
	7,661.00	89.78	339.38	6,787.26	3,787.26	1,029.63	-378.18	1,077.35	0.30	480,951.73	620,781.02
	7,691.00	89.78	339.41	6,787.38	3,787.38	1,057.71	-388.74	1,106.77	0.10	480,979.81	620,770.46
	7,721.00	90.40	339.62	6,787.33	3,787.33	1,085.81	-399.24	1,136.21	2.18	481,007.91	620,759.96
	7,751.00	90.57	339.50	6,787.07	3,787.07	1,113.92	-409.72	1,165.65	0.69	481,036.02	620,749.48
	7,782.00	90.66	339.45	6,786.74	3,786.74	1,142.95	-420.58	1,196.05	0.33	481,065.05	620,738.62
	7,813.00	90.57	339.09	6,786.41	3,786.41	1,171.94	-431.56	1,226.44	1.20	481,094.04	620,727.64
	7,844.00	90.04	338.62	6,786.24	3,786.24	1,200.85	-442.74	1,256.79	2.29	481,122.95	620,716.46
	7,875.00	90.31	338.75	6,786.15	3,786.15	1,229.73	-454.01	1,287.11	0.97	481,151.83	620,705.19
	7,905.00	90.31	338.59	6,785.99	3,785.99	1,257.68	-464.92	1,316.46	0.53	481,179.78	620,694.28
	7,935.00	90.57	338.31	6,785.76	3,785.76	1,285.58	-475.94	1,345.78	1.27	481,207.68	620,683.26
	7,966.00	90.92	338.84	6,785.35	3,785.35	1,314.43	-487.26	1,376.09	2.05	481,236.53	620,671.94
	7,998.00	91.19	338.83	6,784.76	3,784.76	1,344.27	-498.81	1,407.40	0.84	481,266.37	620,660.39
	8,030.00	91.45	338.53	6,784.03	3,784.03	1,374.07	-510.44	1,438.70	1.24	481,296.17	620,648.76
	8,061.00	91.80	338.22	6,783.15	3,783.15	1,402.88	-521.86	1,468.98	1.51	481,324.98	620,637.34
	8,092.00	92.07	338.19	6,782.10	3,782.10	1,431.65	-533.37	1,499.23	0.88	481,353.75	620,625.83
	8,124.00	90.57	337.40	6,781.36	3,781.36	1,461.26	-545.46	1,530.42	5.30	481,383.36	620,613.74
	8,155.00	90.04	337.57	6,781.20	3,781.20	1,489.90	-557.33	1,560.60	1.80	481,412.00	620,601.87
	8,186.00	90.66	337.20	6,781.01	3,781.01	1,518.52	-569.25	1,590.77	2.33	481,440.62	620,589.95



Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company: XTO
Project: Eddy County
Site: Nash Unit #40
Well: Nash Unit #40
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:
Well Nash Unit #40
WELL @ 3000.00ft (RKB = 17)
WELL @ 3000.00ft (RKB = 17)
Grid
Minimum Curvature
Midland Database

Survey	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	Dleg (°/100ft)	Northing (ft)	Easting (ft)
	8,218.00	89.43	337.16	6,780.98	3,780.98	1,548.01	-581.66	1,621.89	3.85	481,470.11	620,577.54
	8,250.00	89.34	336.47	6,781.33	3,781.33	1,577.43	-594.26	1,652.96	2.17	481,499.53	620,564.94
	8,281.00	88.11	335.78	6,782.02	3,782.02	1,605.76	-606.80	1,682.96	4.55	481,527.86	620,552.40
	8,313.00	88.37	335.67	6,783.00	3,783.00	1,634.92	-619.95	1,713.86	0.88	481,557.02	620,539.25
	8,344.00	88.81	335.53	6,783.76	3,783.76	1,663.14	-632.75	1,743.79	1.49	481,585.24	620,526.45
	8,376.00	89.25	335.51	6,784.30	3,784.30	1,692.26	-646.01	1,774.67	1.38	481,614.36	620,513.19
	8,407.00	89.69	335.51	6,784.59	3,784.59	1,720.47	-658.86	1,804.59	1.42	481,642.57	620,500.34
	8,439.00	90.48	335.54	6,784.54	3,784.54	1,749.60	-672.12	1,835.48	2.47	481,671.70	620,487.08
	8,471.00	89.78	336.32	6,784.47	3,784.47	1,778.81	-685.17	1,866.43	3.28	481,700.91	620,474.03
	8,502.00	89.87	337.10	6,784.57	3,784.57	1,807.29	-697.42	1,896.52	2.53	481,729.39	620,461.78
	8,534.00	89.87	337.36	6,784.64	3,784.64	1,836.79	-709.81	1,927.64	0.81	481,758.89	620,449.39
	8,565.00	88.29	338.07	6,785.14	3,785.14	1,865.47	-721.56	1,957.85	5.59	481,787.57	620,437.64
	8,596.00	87.41	337.87	6,786.30	3,786.30	1,894.19	-733.18	1,988.07	2.91	481,816.29	620,426.02
	8,628.00	87.32	338.22	6,787.77	3,787.77	1,923.84	-745.13	2,019.26	1.13	481,845.94	620,414.07
	8,659.00	87.23	339.51	6,789.24	3,789.24	1,952.72	-756.30	2,049.57	4.17	481,874.82	620,402.90
	8,691.00	87.85	341.39	6,790.62	3,790.62	1,982.85	-767.00	2,081.04	6.18	481,904.95	620,392.20
	8,722.00	88.20	342.51	6,791.69	3,791.69	2,012.30	-776.60	2,111.66	3.78	481,934.40	620,382.60
	8,754.00	89.43	343.09	6,792.35	3,792.35	2,042.86	-786.06	2,143.35	4.25	481,964.96	620,373.14
	8,785.00	91.63	344.33	6,792.06	3,792.06	2,072.62	-794.75	2,174.12	8.15	481,994.72	620,364.45
	8,817.00	92.59	344.88	6,790.88	3,790.88	2,103.45	-803.24	2,205.92	3.46	482,025.55	620,355.96
	8,848.00	92.15	345.90	6,789.60	3,789.60	2,133.42	-811.05	2,236.76	3.58	482,055.52	620,348.15
	8,880.00	90.31	347.39	6,788.91	3,788.91	2,164.54	-818.44	2,268.67	7.40	482,086.64	620,340.76
	8,911.00	89.96	350.15	6,788.84	3,788.84	2,194.95	-824.48	2,299.65	8.97	482,117.05	620,334.72
	8,943.00	90.75	351.51	6,788.64	3,788.64	2,226.54	-829.58	2,331.65	4.91	482,148.64	620,329.62
	8,974.00	90.48	352.64	6,788.31	3,788.31	2,257.24	-833.85	2,362.64	3.75	482,179.34	620,325.35
	9,006.00	89.16	352.96	6,788.41	3,788.41	2,288.98	-837.86	2,394.62	4.24	482,211.08	620,321.34
	9,037.00	86.97	353.43	6,789.46	3,789.46	2,319.75	-841.53	2,425.57	7.23	482,241.85	620,317.67



Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	XTO	Local Co-ordinate Reference:	Well Nash Unit #40
Project:	Eddy County	TVD Reference:	WELL @ 3000.00ft (RKB= 17)
Site:	Nash Unit #40	MD Reference:	WELL @ 3000.00ft (RKB= 17)
Well:	Nash Unit #40	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW/ (ft)	V. Sec (ft)	Dleg (°/100ft)	Northing (ft)	Easting (ft)
	9,089.00	86.79	353.45	6,791.20	3,791.20	2,351.49	-845.18	2,457.48	0.57	482,273.59	620,314.02
	9,101.00	87.14	353.42	6,792.89	3,792.89	2,383.23	-848.84	2,489.40	1.10	482,305.33	620,310.36
	9,133.00	87.67	353.37	6,794.34	3,794.34	2,414.99	-852.51	2,521.33	1.66	482,337.09	620,306.69
	9,164.00	88.20	353.50	6,795.46	3,795.46	2,445.77	-856.06	2,552.27	1.76	482,367.87	620,303.14
	9,196.00	88.87	353.47	6,796.00	3,796.00	2,477.55	-859.69	2,584.23	5.22	482,399.65	620,299.51
	9,228.00	90.92	354.11	6,795.78	3,795.78	2,509.36	-863.15	2,616.18	3.84	482,431.46	620,296.05
	9,259.00	91.45	354.45	6,795.14	3,795.14	2,540.20	-866.24	2,647.11	2.03	482,462.30	620,292.96
	9,291.00	91.10	353.80	6,794.42	3,794.42	2,572.03	-869.51	2,679.04	2.31	482,494.13	620,289.69
	9,323.00	89.96	353.59	6,794.13	3,794.13	2,603.83	-873.02	2,711.00	3.62	482,525.93	620,286.18
	9,355.00	89.34	352.96	6,794.32	3,794.32	2,635.61	-876.77	2,742.96	2.76	482,557.71	620,282.43
	9,386.00	89.60	353.07	6,794.61	3,794.61	2,666.38	-880.54	2,773.94	0.91	482,588.48	620,278.66
	9,418.00	90.48	353.00	6,794.59	3,794.59	2,698.14	-884.42	2,805.91	2.76	482,620.24	620,274.78
	9,450.00	90.57	352.85	6,794.30	3,794.30	2,729.90	-888.36	2,837.88	0.55	482,652.00	620,270.84
	9,481.00	89.25	353.82	6,794.34	3,794.34	2,760.69	-891.96	2,868.85	5.28	482,682.79	620,267.24
	9,513.00	88.20	354.15	6,795.06	3,795.06	2,792.50	-895.31	2,900.78	3.44	482,714.60	620,263.89
	9,545.00	87.49	354.74	6,796.26	3,796.26	2,824.33	-898.41	2,932.69	2.88	482,746.43	620,260.79
	9,576.00	85.91	354.93	6,798.04	3,798.04	2,855.15	-901.20	2,963.56	5.13	482,777.25	620,258.00
	9,608.00	86.44	355.33	6,800.18	3,800.18	2,886.96	-903.91	2,995.39	2.07	482,809.06	620,255.29
	9,639.00	86.97	356.63	6,801.96	3,801.96	2,917.84	-906.08	3,026.20	4.52	482,839.94	620,253.12
	9,671.00	89.52	357.60	6,802.94	3,802.94	2,949.78	-907.68	3,057.98	8.53	482,871.88	620,251.52
	9,703.00	91.19	358.21	6,802.74	3,802.74	2,981.75	-908.85	3,089.73	5.56	482,903.85	620,250.35
	9,735.00	91.36	357.43	6,802.03	3,802.03	3,013.72	-910.07	3,121.47	2.49	482,935.82	620,249.13
	9,766.00	90.13	357.27	6,801.63	3,801.63	3,044.69	-911.50	3,152.25	4.00	482,966.79	620,247.70
	9,798.00	89.87	358.96	6,801.63	3,801.63	3,076.67	-912.56	3,183.98	5.34	482,998.77	620,246.64
	9,830.00	89.43	0.14	6,801.82	3,801.82	3,108.67	-912.81	3,215.60	3.94	483,030.77	620,246.39
	9,861.00	90.75	1.08	6,801.77	3,801.77	3,139.66	-912.48	3,246.13	5.23	483,061.76	620,246.72
	9,887.00	89.34	1.02	6,801.75	3,801.75	3,165.66	-912.00	3,271.70	5.43	483,087.76	620,247.20



Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	XTO	Local Co-ordinate Reference:	Well Nash Unit #40
Project:	Eddy County	TVD Reference:	WELL @ 3000.00ft (RKB= 17')
Site:	Nash Unit #40	MD Reference:	WELL @ 3000.00ft (RKB= 17')
Well:	Nash Unit #40	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	NS (ft)	EW (ft)	V. Sec (ft)	Dleg (°/100ft)	Northing (ft)	Easting (ft)
	9,918.00	89.69	0.92	6,802.02	3,802.02	3,196.65	-911.48	3,302.20	1.17	483,118.75	620,247.72
	9,950.00	88.64	1.00	6,802.48	3,802.48	3,228.64	-910.94	3,333.68	3.29	483,150.74	620,248.26
	9,982.00	89.16	1.66	6,803.10	3,803.10	3,260.63	-910.20	3,365.12	2.63	483,182.73	620,249.00
	10,013.00	89.78	1.69	6,803.38	3,803.38	3,291.62	-909.29	3,395.55	2.00	483,213.72	620,249.91
	10,045.00	89.16	0.79	6,803.68	3,803.68	3,323.61	-908.60	3,427.00	3.42	483,245.71	620,250.60
	10,077.00	87.14	359.17	6,804.71	3,804.71	3,355.59	-908.61	3,458.56	8.09	483,277.69	620,250.59
	10,108.00	87.41	358.86	6,806.19	3,806.19	3,386.55	-909.14	3,489.20	1.33	483,308.65	620,250.06
	10,140.00	88.20	358.52	6,807.41	3,807.41	3,418.51	-909.87	3,520.86	2.69	483,340.61	620,249.33
	10,171.00	89.16	358.25	6,808.13	3,808.13	3,449.49	-910.75	3,551.57	3.22	483,371.59	620,248.45
	10,203.00	89.52	357.51	6,808.49	3,808.49	3,481.47	-911.93	3,583.31	2.57	483,403.57	620,247.27
	10,234.00	88.55	358.06	6,809.02	3,809.02	3,512.44	-913.13	3,614.07	3.60	483,434.54	620,246.07
	10,266.00	87.23	359.02	6,810.19	3,810.19	3,544.41	-913.94	3,645.75	5.10	483,466.51	620,245.26
	10,298.00	86.61	0.30	6,811.91	3,811.91	3,576.36	-914.13	3,677.30	4.44	483,498.46	620,245.07
	10,329.00	86.79	0.30	6,813.70	3,813.70	3,607.31	-913.97	3,707.82	0.58	483,529.41	620,245.23
	10,361.00	87.76	0.21	6,815.22	3,815.22	3,639.27	-913.83	3,739.33	3.04	483,561.37	620,245.37
	10,392.00	89.60	0.82	6,815.93	3,815.93	3,670.26	-913.55	3,769.87	6.25	483,592.36	620,245.65
	10,424.00	90.48	1.47	6,815.91	3,815.91	3,702.25	-912.91	3,801.33	3.42	483,624.35	620,246.29
	10,456.00	89.52	0.87	6,815.91	3,815.91	3,734.25	-912.26	3,832.79	3.54	483,656.35	620,246.94
	10,487.00	89.52	1.33	6,816.17	3,816.17	3,765.24	-911.66	3,863.28	1.48	483,687.34	620,247.54
	10,518.00	90.13	1.68	6,816.27	3,816.27	3,796.23	-910.85	3,893.72	2.27	483,718.33	620,248.35
	10,550.00	90.84	2.86	6,816.00	3,816.00	3,828.20	-909.58	3,925.07	4.30	483,750.30	620,249.62
	10,582.00	91.54	2.67	6,815.33	3,815.33	3,860.16	-908.04	3,956.35	2.27	483,782.26	620,251.16
	10,613.00	91.98	2.16	6,814.38	3,814.38	3,891.11	-906.73	3,986.69	2.17	483,813.21	620,252.47
	10,645.00	91.01	359.76	6,813.54	3,813.54	3,923.10	-906.20	4,018.16	8.09	483,845.20	620,253.00
	10,677.00	88.02	357.07	6,813.81	3,813.81	3,955.08	-907.08	4,049.86	12.57	483,877.18	620,252.12
	10,708.00	87.93	356.54	6,814.91	3,814.91	3,986.01	-908.81	4,080.66	1.73	483,908.11	620,250.39
	10,740.00	89.52	357.62	6,815.62	3,815.62	4,017.96	-910.44	4,112.45	6.01	483,940.06	620,248.76



Pathfinder Energy Services
Pathfinder X & Y Survey Report



Company:	XTO	Local Co-ordinate Reference:	Well Nash Unit #40
Project:	Eddy County	TVD Reference:	WELL @ 3000.00ft (RKB=17')
Site:	Nash Unit #40	MD Reference:	WELL @ 3000.00ft (RKB=17')
Well:	Nash Unit #40	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	NS (ft)	EW (ft)	V. Sec (ft)	Dleg (°/100ft)	Northing (ft)	Easting (ft)
	10,772.00	90.75	358.33	6,815.55	3,815.55	4,049.94	-911.57	4,144.19	4.44	483,972.04	620,247.63
	10,804.00	91.63	358.39	6,814.88	3,814.88	4,081.92	-912.48	4,175.89	2.76	484,004.02	620,246.72
	10,835.00	90.04	357.96	6,814.43	3,814.43	4,112.90	-913.47	4,206.62	5.31	484,035.00	620,245.73
	10,867.00	88.02	357.21	6,814.97	3,814.97	4,144.86	-914.82	4,238.38	6.73	484,066.96	620,244.38
	10,899.00	87.93	356.86	6,816.10	3,816.10	4,176.80	-916.47	4,270.16	1.13	484,098.90	620,242.73
	10,930.00	88.81	357.02	6,816.98	3,816.98	4,207.74	-918.13	4,300.96	2.89	484,129.84	620,241.07
	10,962.00	89.60	357.02	6,817.43	3,817.43	4,239.70	-919.79	4,332.76	2.47	484,161.80	620,239.41
	10,994.00	89.96	355.92	6,817.55	3,817.55	4,271.63	-921.76	4,364.60	3.62	484,193.73	620,237.44
	11,025.00	88.99	355.79	6,817.84	3,817.84	4,302.55	-924.00	4,395.47	3.16	484,224.65	620,235.20
	11,057.00	89.78	356.10	6,818.18	3,818.18	4,334.47	-926.26	4,427.33	2.65	484,256.57	620,232.94
	11,089.00	89.16	355.39	6,818.47	3,818.47	4,366.38	-928.64	4,459.20	2.95	484,288.48	620,230.56
	11,120.00	89.34	354.71	6,818.88	3,818.88	4,397.26	-931.31	4,490.11	2.27	484,319.36	620,227.89
	11,152.00	90.04	354.66	6,819.05	3,819.05	4,429.12	-934.28	4,522.03	2.19	484,351.22	620,224.92
	11,184.00	91.01	355.11	6,818.76	3,818.76	4,460.99	-937.13	4,553.94	3.34	484,383.09	620,222.07
	11,215.00	91.89	355.25	6,817.98	3,817.98	4,491.87	-939.73	4,584.84	2.87	484,413.97	620,219.47
	11,247.00	92.95	355.60	6,816.62	3,816.62	4,523.74	-942.28	4,616.70	3.49	484,445.84	620,216.92
	11,280.00	92.68	355.41	6,815.00	3,815.00	4,556.60	-944.87	4,648.54	1.00	484,478.70	620,214.33
	11,312.00	93.91	356.64	6,813.16	3,813.16	4,588.47	-947.08	4,681.34	5.43	484,510.57	620,212.12
	11,343.00	93.19	357.90	6,811.25	3,811.25	4,619.37	-948.56	4,712.08	4.67	484,541.47	620,210.64
	11,375.00	90.84	358.18	6,810.12	3,810.12	4,651.33	-949.65	4,743.79	7.40	484,573.43	620,209.55
	11,405.00	90.66	357.94	6,809.73	3,809.73	4,681.31	-950.66	4,773.54	1.00	484,603.41	620,208.54
	11,444.00	91.01	358.41	6,809.16	3,809.16	4,720.29	-951.91	4,812.20	1.50	484,642.39	620,207.29
	11,495.00	91.01	358.41	6,808.26	3,808.26	4,771.26	-953.32	4,862.73	0.00	484,693.36	620,205.88

BHL-11495.00MD,91.01°INC,358.41°AZI,6808.26TVD,4862.73VS,4771.26N,-953.32E



Pathfinder Energy Services
Pathfinder X & Y Survey Report

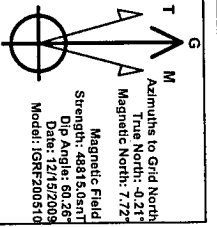


Company:	XTO	Local Co-ordinate Reference:	Well Nash Unit #40
Project:	Eddy County	TVD Reference:	WELL @ 3000.00ft (RKB = 17)
Site:	Nash Unit #40	MD Reference:	WELL @ 3000.00ft (RKB = 17)
Well:	Nash Unit #40	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Targets	Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Target 4 (Nash #40)		0.00	0.00	6,784.00	2,376.90	-882.20	482,299.000	620,277.000	32° 19' 31.279 N	103° 56' 38.243 W
- Point	- survey misses target center by 34.98ft at 9098.05ft MD (6792.75 TVD, 2380.31 N, -848.50 E)									
Target 2 (Nash #40)		0.00	0.00	6,786.00	1,434.90	-559.20	481,357.000	620,600.000	32° 19' 21.945 N	103° 56' 34.519 W
- Point	- survey misses target center by 23.14ft at 8104.68ft MD (6781.71 TVD, 1443.40 N, -538.11 E)									
Target 1 (Nash #40)		0.00	0.00	6,789.00	975.90	-365.20	480,898.000	620,794.000	32° 19' 17.396 N	103° 56' 32.278 W
- Point	- survey misses target center by 6.99ft at 7606.14ft MD (6787.13 TVD, 978.27 N, -358.89 E)									
Target 6 (Nash #40)		0.00	0.00	6,785.00	3,364.90	-959.20	483,287.000	620,200.000	32° 19' 41.059 N	103° 56' 39.099 W
- Point	- survey misses target center by 54.33ft at 10086.23ft MD (6805.17 TVD, 3364.81 N, -908.75 E)									
Target 7 (Nash #40)		0.00	0.00	6,786.00	3,864.90	-959.20	483,787.000	620,200.000	32° 19' 46.007 N	103° 56' 39.078 W
- Point	- survey misses target center by 59.08ft at 10565.48ft MD (6815.24 TVD, 3863.63 N, -907.88 E)									
PBHL(Nash #40)		0.00	0.00	6,791.00	5,831.90	-959.20	485,754.000	620,200.000	32° 20' 5.472 N	103° 56' 38.994 W
- Point	- survey misses target center by 1060.79ft at 11495.00ft MD (6808.26 TVD, 4771.26 N, -953.32 E)									
Target 0 (Nash #40)		0.00	0.00	6,791.00	791.90	-280.20	480,714.000	620,879.000	32° 19' 15.572 N	103° 56' 31.295 W
- Point	- survey misses target center by 10.57ft at 7404.11ft MD (6787.81 TVD, 788.48 N, -289.68 E)									
Target 10 (Nash #40)		0.00	0.00	6,790.00	5,364.90	-959.20	485,287.000	620,200.000	32° 20' 0.851 N	103° 56' 39.014 W
- Point	- survey misses target center by 593.95ft at 11495.00ft MD (6808.26 TVD, 4771.26 N, -953.32 E)									
Target 3 (Nash #40)		0.00	0.00	6,785.00	1,898.90	-741.20	481,821.000	620,418.000	32° 19' 26.544 N	103° 56' 36.620 W
- Point	- survey misses target center by 5.89ft at 8603.30ft MD (6786.63 TVD, 1900.95 N, -735.92 E)									
Target 9 (Nash #40)		0.00	0.00	6,789.00	4,864.90	-959.20	484,787.000	620,200.000	32° 19' 55.903 N	103° 56' 39.035 W
- Point	- survey misses target center by 95.78ft at 11495.00ft MD (6808.26 TVD, 4771.26 N, -953.32 E)									
Target 5 (Nash #40)		0.00	0.00	6,784.00	2,865.90	-946.20	482,788.000	620,213.000	32° 19' 36.120 N	103° 56' 38.968 W
- Point	- survey misses target center by 46.40ft at 9589.56ft MD (6798.98 TVD, 2868.63 N, -902.37 E)									
Target 8 (Nash #40)		0.00	0.00	6,788.00	4,364.90	-959.20	484,287.000	620,200.000	32° 19' 50.955 N	103° 56' 39.056 W

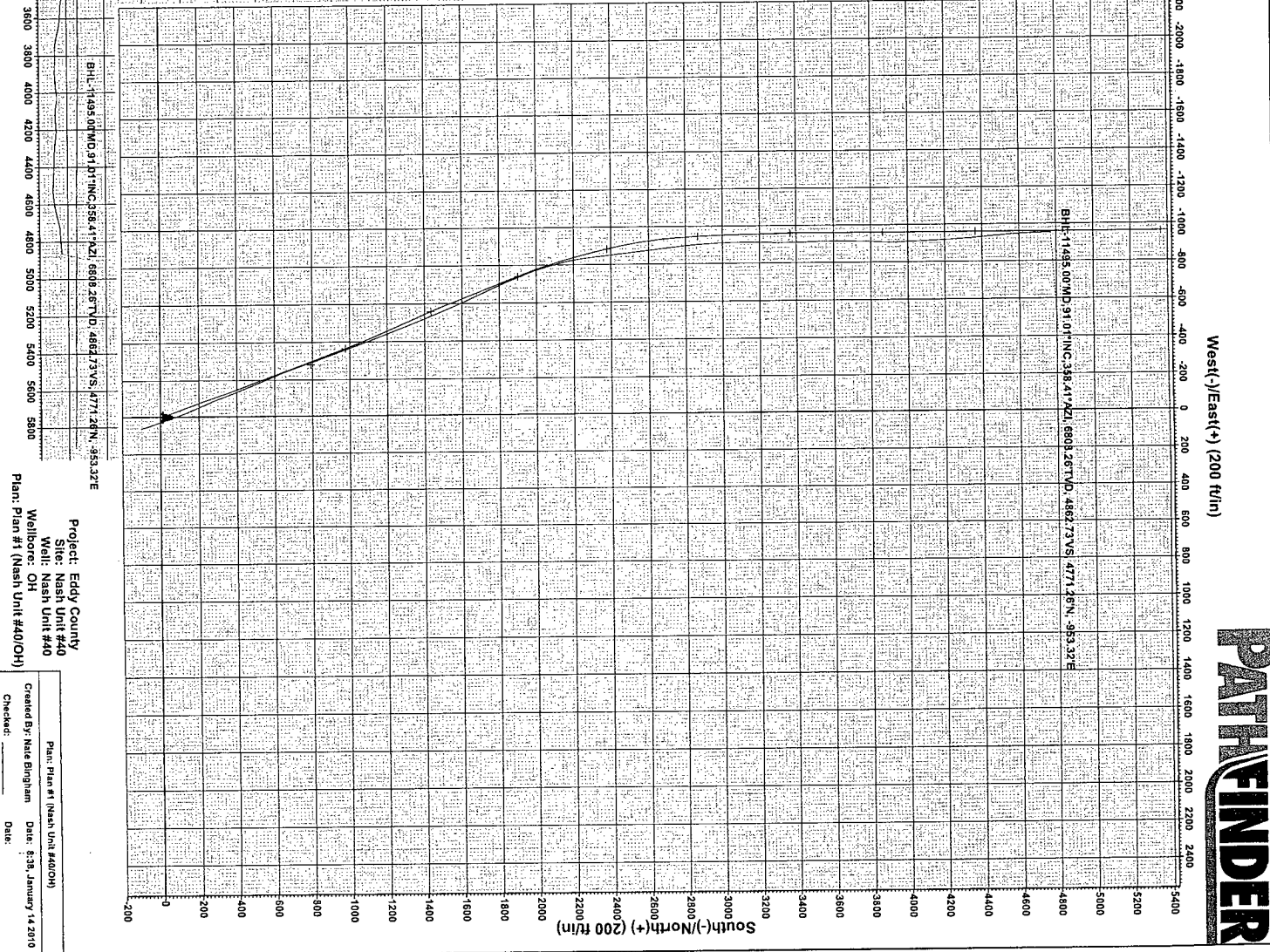
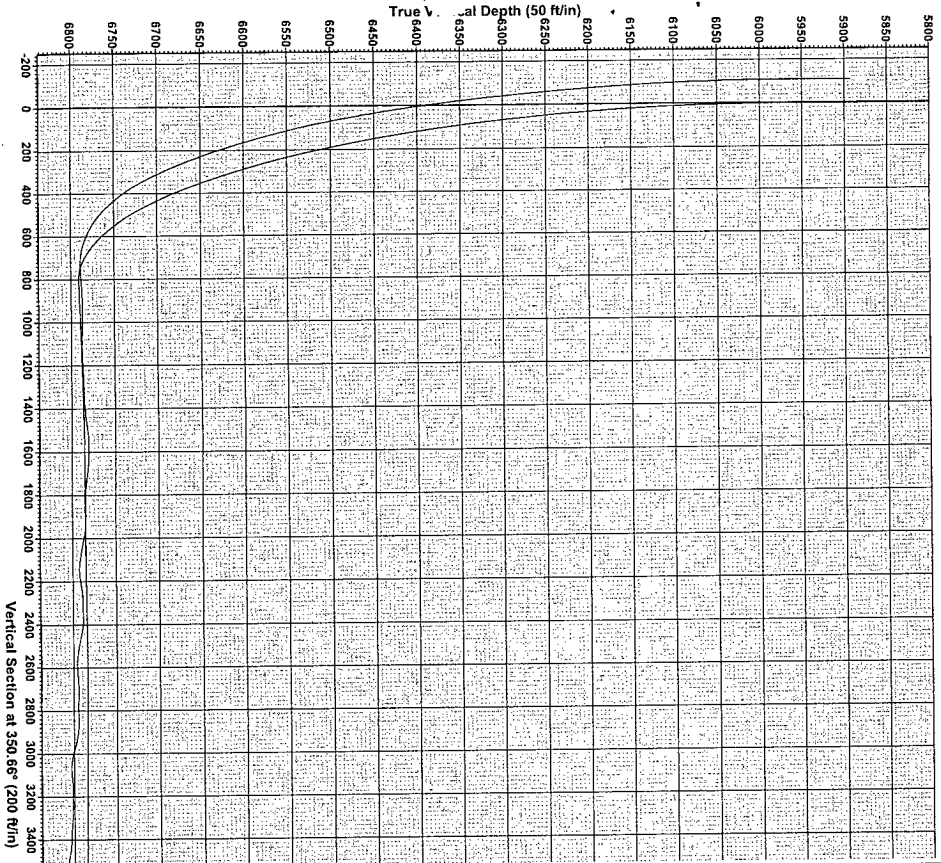


PROJECT DETAILS: Eddy County
Geologic System: N40 92°7' MADCON (CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Local North: Grid



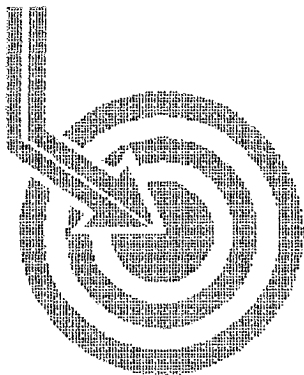
Well	Depth	Time	Value	Target
1	200	0.00	0.00	0.00
2	200	0.00	0.00	0.00
3	200	0.00	0.00	0.00
4	200	0.00	0.00	0.00
5	200	0.00	0.00	0.00
6	200	0.00	0.00	0.00
7	200	0.00	0.00	0.00
8	200	0.00	0.00	0.00
9	200	0.00	0.00	0.00
10	200	0.00	0.00	0.00
11	200	0.00	0.00	0.00
12	200	0.00	0.00	0.00
13	200	0.00	0.00	0.00
14	200	0.00	0.00	0.00
15	200	0.00	0.00	0.00
16	200	0.00	0.00	0.00
17	200	0.00	0.00	0.00
18	200	0.00	0.00	0.00
19	200	0.00	0.00	0.00
20	200	0.00	0.00	0.00
21	200	0.00	0.00	0.00
22	200	0.00	0.00	0.00
23	200	0.00	0.00	0.00

Well	Depth	Time	Value	Target
1	200	0.00	0.00	0.00
2	200	0.00	0.00	0.00
3	200	0.00	0.00	0.00
4	200	0.00	0.00	0.00
5	200	0.00	0.00	0.00
6	200	0.00	0.00	0.00
7	200	0.00	0.00	0.00
8	200	0.00	0.00	0.00
9	200	0.00	0.00	0.00
10	200	0.00	0.00	0.00
11	200	0.00	0.00	0.00
12	200	0.00	0.00	0.00
13	200	0.00	0.00	0.00
14	200	0.00	0.00	0.00
15	200	0.00	0.00	0.00
16	200	0.00	0.00	0.00
17	200	0.00	0.00	0.00
18	200	0.00	0.00	0.00
19	200	0.00	0.00	0.00
20	200	0.00	0.00	0.00
21	200	0.00	0.00	0.00
22	200	0.00	0.00	0.00
23	200	0.00	0.00	0.00



Project: Eddy County
Site: Nash Unit #40
Well: Nash Unit #40
Wellbore: OH
Plan: Plan #1 (Nash Unit #40 OH)

Created By: Nate Bingham Date: 8/30 January 14 2010
Checked: _____ Date: _____



Scientific Drilling

XTO ENERGY INC.

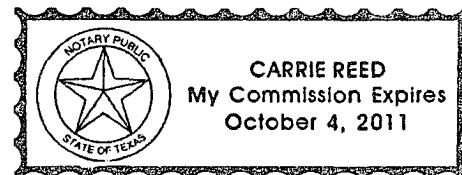
Field: Nash Draw
Site: Eddy County, NM
Well: Nash Unit #40H
Wellpath: VH - Job #32K1209591
Survey: 12/26/09

This survey is correct to the best of my knowledge
and is supported by actual field data.

 R. Wharton Company Representative

Notorized this date 31st of December, 2009.

 Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: XTO ENERGY INC. Date: 12/29/2009 Time: 14:20:07 Page: 2
Field: Nash Draw Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Site: Eddy County, NM Vertical (TVD) Reference: SITE 0.0
Well: Nash Unit #40H Section (VS) Reference: Well (0.00N,0.00E,350.66Azi)
Wellpath: VH - Job #32K1209591 Survey Calculation Method: Minimum Curvature Db: Sybase

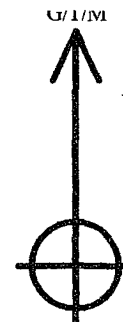
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	0.30	175.40	4897.77	-95.81	-85.37	71.28	0.13	111.22	140.14
5000.00	0.46	173.37	4997.77	-96.47	-86.03	71.35	0.16	111.77	140.33
5100.00	0.37	166.68	5097.77	-97.19	-86.74	71.47	0.10	112.39	140.51
5200.00	0.60	178.23	5197.77	-98.03	-87.58	71.56	0.25	113.10	140.75
5300.00	0.76	212.00	5297.76	-99.05	-88.67	71.22	0.42	113.73	141.23
5400.00	0.93	209.44	5397.75	-100.18	-89.94	70.47	0.17	114.26	141.92
5500.00	1.14	200.30	5497.73	-101.68	-91.58	69.73	0.27	115.10	142.71
5600.00	1.43	218.11	5597.71	-103.39	-93.49	68.61	0.49	115.97	143.72
5700.00	1.73	227.33	5697.67	-105.06	-95.50	66.73	0.39	116.50	145.05
5800.00	1.76	225.53	5797.62	-106.77	-97.59	64.53	0.06	117.00	146.53
5895.00	1.53	231.16	5892.58	-108.24	-99.41	62.50	0.30	117.43	147.84



Scientific
Drilling

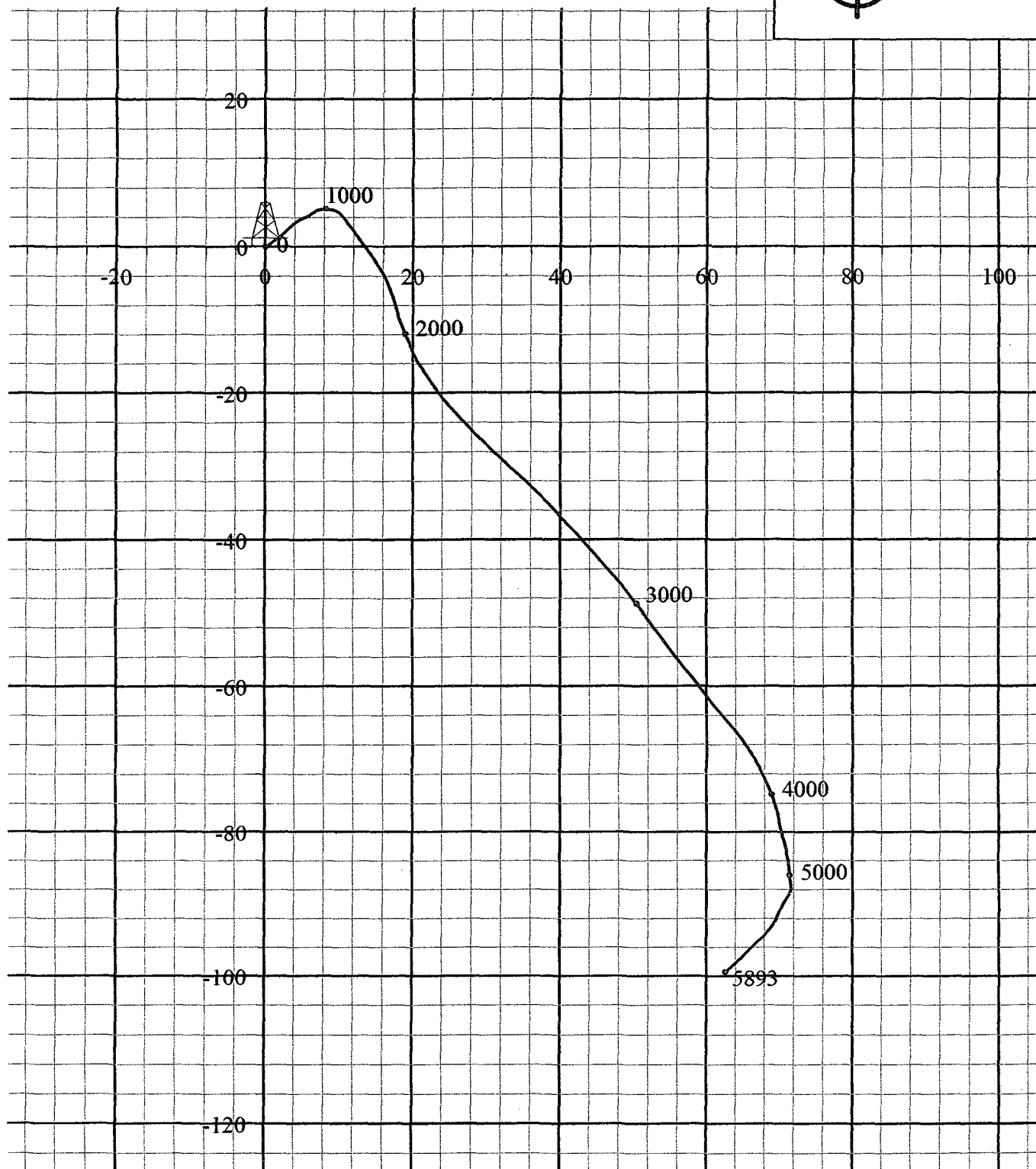
Field: Nash Draw
Site: Eddy County, NM
Well: Nash Unit #40H
Wellpath: VH - Job #32K1209591
Survey: 12/26/09



U/I/M
Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 12/29/2009
Model: igrf2000

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]