



True Performance
Directional Drilling
5075 E 52nd Street
Odessa, TX 79762
(281)-222-8366

Rec'd 09/16/20 - NMOCD

To: New Mexico Energy, Minerals and
Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505 (505) 476-3220

Re: Certified Survey Report / **NASH UNIT 301H / 30-015-45500**

Via: Electronic Filing

True Performance Directional Drilling, respectfully submits for filing the required directional certified survey performed on the referenced well by True Performance Directional Drilling. Other information required by your office is as follows:

<u>Name & Title of Supervisor</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Greg Wilkie MWD Coordinator	176' to 22700'	3-16-19 TO 4-25-19	MWD

The directional MWD surveys performed by True Performance Directional Drilling are attached. A copy of the certified plat on which the final survey is drawn and the projected bottom-hole location is marked and identified is also attached.

Please file this certified survey report. If there are any questions or additional data required, please let me know at your earliest opportunity.

Thank You

Sincerely,

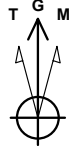
A handwritten signature in black ink, appearing to read 'Greg Wilkie'.

Greg Wilkie
MWD Operations Manager

XTO Energy

Project: Eddy County, NM (NAD27) NMEZ US
 Site: Nash Unit Pad
 Well: Nash Unit 301H SHL
 Wellbore: Nash Unit 301H
 Design: Nash Unit 301H AsDrilled

3118+22 @ 3140.00usft (Perseus)
 NAD 1927 (NADCON CONUS)

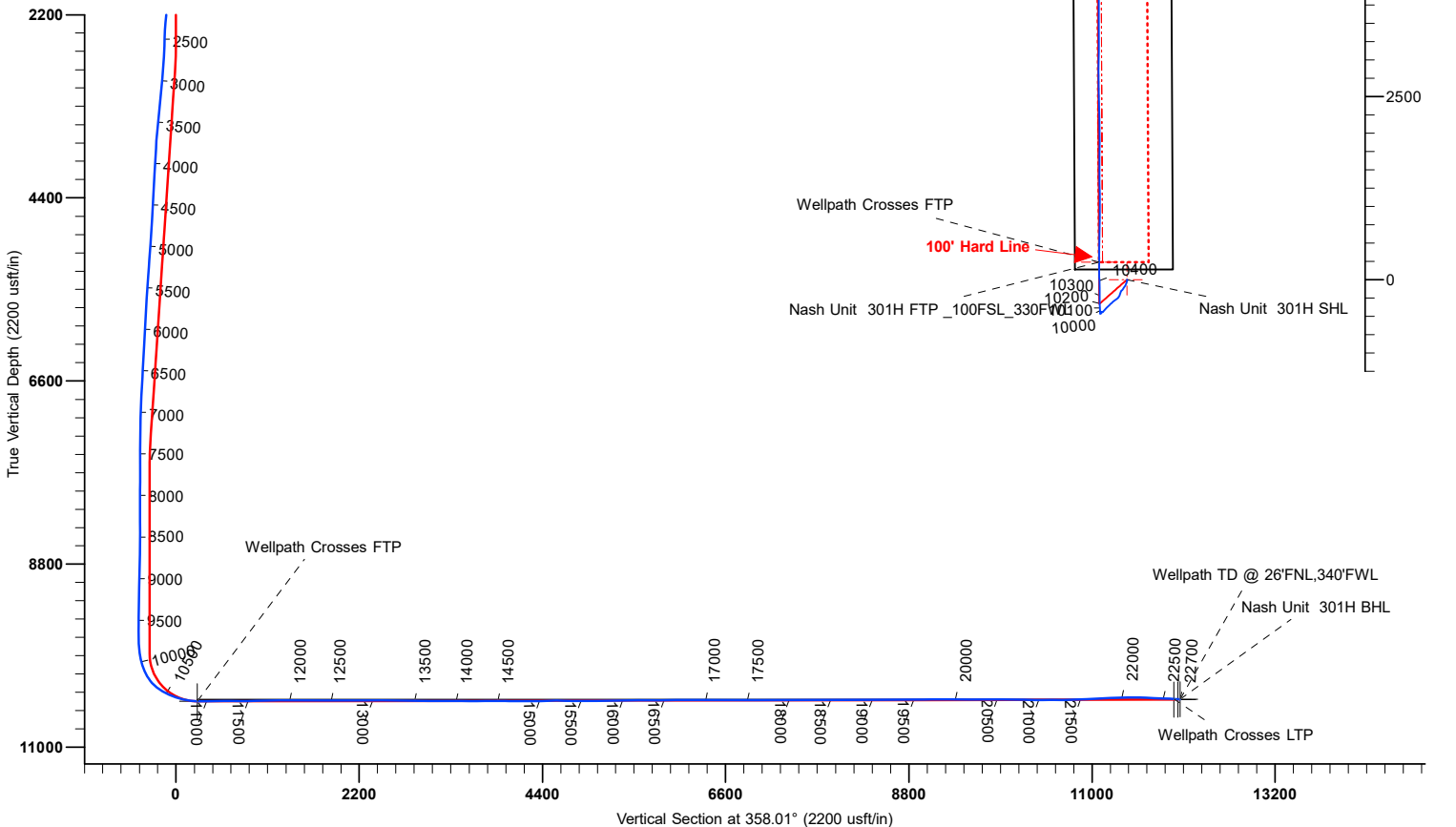


Azimuths to Grid North
 True North: -0.22°
 Magnetic North: 6.85°

Magnetic Field
 Strength: 47880.0nT
 Dip Angle: 60.03°
 Date: 11/19/2018
 Model: USER DEFINED

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Annotation
10887.00	88.26	0.47	10446.52	240.55	-378.53	Wellpath Crosses FTP
22626.00	87.61	1.47	10418.78	11976.15	-420.36	Wellpath Crosses LTP
22700.00	87.59	1.47	10421.89	12050.06	-418.46	Wellpath TD @ 26°FNL,340°FWL



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
Nash Unit 301H SHL	0.00	0.00	0.00	472096.40	629616.90
Nash Unit 301H BHL	10421.89	12050.06	-418.46	484146.46	629198.44
Nash Unit 301H LTP_100FNL_330FWL	10427.00	11975.43	-428.75	484071.83	629188.15
Nash Unit 301H PBHL_50FNL_330FWLa	10427.00	12025.40	-410.70	484121.80	629206.20
Nash Unit 301H FTP_100FSL_330FWL	10447.00	241.40	-379.44	472337.80	629237.46

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Nash Unit 301H SHL
Project:	Eddy County, NM (NAD27) NMEZ US	TVD Reference:	3118+22 @ 3140.00usft (Perseus)
Site:	Nash Unit Pad	MD Reference:	3118+22 @ 3140.00usft (Perseus)
Well:	Nash Unit 301H SHL	North Reference:	Grid
Wellbore:	Nash Unit 301H	Survey Calculation Method:	Minimum Curvature
Design:	Nash Unit 301H AsDrilled	Database:	TP_EDM

Project	Eddy County, NM (NAD27) NMEZ US		
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 Pad, centered on 202H				
Site Position:		Northing:	472,146.40 usft	Latitude:	32.2973501
From:	Map	Easting:	629,616.50 usft	Longitude:	-103.9138507
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.22 °

Well	Nash Unit 301H SHL					
Well Position	+N/-S	0.00 usft	Northing:	472,096.40 usft	Latitude:	32.2972126
	+E/-W	0.00 usft	Easting:	629,616.90 usft	Longitude:	-103.9138500
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,118.00 usft

Wellbore	Nash Unit 301H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	11/19/18	7.07	60.03	47,880

Design	Nash Unit 301H AsDrilled				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	358.01	

Survey Program	Date	04/25/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
176.00	22,642.00	Survey #1 (Nash Unit 301H)	MWD	MWD v3:standard declination	
22,700.00	22,700.00	Survey #2 (Nash Unit 301H)	Projection	Projection	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Nash Unit 202H SHL - Nash Unit 301H SHL										
0.27	0.00	105.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	
Nash Unit 201H SHL										
176.00	0.90	105.00	175.99	-0.36	1.34	-0.40	0.51	0.51	0.00	
275.00	1.10	127.00	274.98	-1.13	2.85	-1.23	0.43	0.20	22.22	
311.00	1.00	141.00	310.97	-1.58	3.32	-1.70	0.76	-0.28	38.89	
420.00	1.30	152.20	419.95	-3.42	4.49	-3.57	0.34	0.28	10.28	
515.00	1.20	163.80	514.93	-5.32	5.27	-5.50	0.29	-0.11	12.21	

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Nash Unit 301H SHL
Project:	Eddy County, NM (NAD27) NMEZ US	TVD Reference:	3118+22 @ 3140.00usft (Perseus)
Site:	Nash Unit Pad	MD Reference:	3118+22 @ 3140.00usft (Perseus)
Well:	Nash Unit 301H SHL	North Reference:	Grid
Wellbore:	Nash Unit 301H	Survey Calculation Method:	Minimum Curvature
Design:	Nash Unit 301H AsDrilled	Database:	TP_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
610.00	1.40	183.30	609.90	-7.44	5.48	-7.62	0.51	0.21	20.53	
706.00	2.40	189.40	705.85	-10.59	5.09	-10.76	1.06	1.04	6.35	
801.00	3.20	200.80	800.74	-15.03	3.82	-15.16	1.02	0.84	12.00	
898.00	3.80	198.10	897.55	-20.62	1.86	-20.67	0.64	0.62	-2.78	
960.00	3.90	195.00	959.42	-24.61	0.68	-24.62	0.37	0.16	-5.00	
1,056.00	4.20	199.80	1,055.18	-31.07	-1.36	-31.00	0.47	0.31	5.00	
1,151.00	4.90	197.90	1,149.88	-38.20	-3.78	-38.05	0.75	0.74	-2.00	
1,246.00	5.10	200.80	1,244.51	-46.01	-6.53	-45.76	0.34	0.21	3.05	
1,342.00	5.60	202.10	1,340.10	-54.34	-9.81	-53.97	0.54	0.52	1.35	
1,438.00	5.20	199.70	1,435.67	-62.78	-13.04	-62.29	0.48	-0.42	-2.50	
1,534.00	4.60	205.80	1,531.32	-70.34	-16.18	-69.73	0.83	-0.62	6.35	
1,629.00	4.80	210.50	1,626.00	-77.19	-19.85	-76.46	0.46	0.21	4.95	
1,724.00	5.00	213.00	1,720.65	-84.09	-24.12	-83.20	0.31	0.21	2.63	
1,820.00	5.30	211.80	1,816.27	-91.37	-28.74	-90.31	0.33	0.31	-1.25	
1,915.00	5.10	214.30	1,910.87	-98.58	-33.43	-97.36	0.32	-0.21	2.63	
2,011.00	4.90	216.30	2,006.51	-105.41	-38.26	-104.02	0.28	-0.21	2.08	
2,106.00	5.10	212.30	2,101.15	-112.25	-42.92	-110.69	0.42	0.21	-4.21	
2,200.00	5.50	210.90	2,194.75	-119.65	-47.47	-117.93	0.45	0.43	-1.49	
2,295.00	5.50	212.20	2,289.31	-127.41	-52.23	-125.52	0.13	0.00	1.37	
2,391.00	4.60	222.00	2,384.94	-134.16	-57.26	-132.09	1.30	-0.94	10.21	
2,487.00	3.60	233.10	2,480.69	-138.83	-62.25	-136.59	1.33	-1.04	11.56	
2,582.00	3.70	230.50	2,575.50	-142.57	-67.00	-140.16	0.20	0.11	-2.74	
2,677.00	3.90	221.00	2,670.29	-146.96	-71.48	-144.39	0.69	0.21	-10.00	
2,773.00	4.30	214.60	2,766.05	-152.39	-75.67	-149.67	0.63	0.42	-6.67	
2,867.00	4.90	208.70	2,859.74	-158.81	-79.59	-155.95	0.81	0.64	-6.28	
2,962.00	5.20	201.00	2,954.37	-166.39	-83.09	-163.40	0.78	0.32	-8.11	
3,058.00	5.90	198.50	3,049.92	-175.13	-86.21	-172.03	0.77	0.73	-2.60	
3,153.00	5.80	197.50	3,144.43	-184.34	-89.20	-181.13	0.15	-0.11	-1.05	
3,256.00	5.60	196.80	3,246.92	-194.11	-92.22	-190.79	0.21	-0.19	-0.68	
3,346.00	7.00	198.80	3,336.37	-203.51	-95.26	-200.08	1.57	1.56	2.22	
3,440.00	6.50	201.80	3,429.72	-213.87	-99.08	-210.30	0.65	-0.53	3.19	
3,536.00	5.80	204.10	3,525.17	-223.34	-103.08	-219.63	0.77	-0.73	2.40	
3,631.00	5.90	211.00	3,619.68	-231.91	-107.55	-228.04	0.75	0.11	7.26	
3,726.00	5.40	220.10	3,714.22	-239.51	-112.95	-235.45	1.08	-0.53	9.58	
3,821.00	5.30	225.90	3,808.80	-245.99	-118.98	-241.71	0.58	-0.11	6.11	
3,917.00	5.30	226.50	3,904.39	-252.13	-125.38	-247.62	0.06	0.00	0.62	
4,012.00	5.50	235.20	3,998.97	-257.74	-132.30	-253.00	0.89	0.21	9.16	
4,106.00	5.40	236.50	4,092.55	-262.76	-139.69	-257.75	0.17	-0.11	1.38	
4,202.00	5.50	232.90	4,188.11	-268.02	-147.12	-262.76	0.37	0.10	-3.75	
4,297.00	5.40	235.30	4,282.68	-273.32	-154.43	-267.79	0.26	-0.11	2.53	
4,392.00	5.30	235.60	4,377.27	-278.34	-161.72	-272.56	0.11	-0.11	0.32	
4,487.00	5.50	231.30	4,471.85	-283.66	-168.90	-277.63	0.47	0.21	-4.53	
4,583.00	5.40	232.10	4,567.42	-289.32	-176.05	-283.03	0.13	-0.10	0.83	

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Nash Unit 301H SHL
Project:	Eddy County, NM (NAD27) NMEZ US	TVD Reference:	3118+22 @ 3140.00usft (Perseus)
Site:	Nash Unit Pad	MD Reference:	3118+22 @ 3140.00usft (Perseus)
Well:	Nash Unit 301H SHL	North Reference:	Grid
Wellbore:	Nash Unit 301H	Survey Calculation Method:	Minimum Curvature
Design:	Nash Unit 301H AsDrilled	Database:	TP_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,679.00	5.60	231.50	4,662.97	-295.01	-183.28	-288.47	0.22	0.21	-0.62	
4,774.00	5.60	225.90	4,757.52	-301.12	-190.24	-294.33	0.57	0.00	-5.89	
4,872.00	5.60	226.60	4,855.05	-307.73	-197.15	-300.70	0.07	0.00	0.71	
4,967.00	5.60	228.50	4,949.60	-313.99	-203.99	-306.72	0.20	0.00	2.00	
5,063.00	5.80	225.30	5,045.13	-320.50	-210.94	-312.99	0.39	0.21	-3.33	
5,159.00	6.00	226.40	5,140.62	-327.37	-218.02	-319.61	0.24	0.21	1.15	
5,254.00	5.90	225.60	5,235.11	-334.21	-225.11	-326.20	0.14	-0.11	-0.84	
5,350.00	6.00	225.70	5,330.59	-341.17	-232.22	-332.91	0.10	0.10	0.10	
5,446.00	6.10	225.80	5,426.05	-348.23	-239.47	-339.71	0.10	0.10	0.10	
5,541.00	5.50	223.40	5,520.57	-355.06	-246.22	-346.30	0.68	-0.63	-2.53	
5,637.00	5.40	227.80	5,616.13	-361.43	-252.73	-352.45	0.45	-0.10	4.58	
5,733.00	5.40	224.20	5,711.71	-367.71	-259.22	-358.49	0.35	0.00	-3.75	
5,828.00	4.70	226.50	5,806.34	-373.59	-265.16	-364.16	0.77	-0.74	2.42	
5,923.00	4.80	225.10	5,901.01	-379.08	-270.80	-369.45	0.16	0.11	-1.47	
6,018.00	4.10	226.60	5,995.73	-384.22	-276.08	-374.40	0.75	-0.74	1.58	
6,114.00	4.10	226.00	6,091.48	-388.96	-281.04	-378.97	0.04	0.00	-0.62	
6,210.00	4.60	224.30	6,187.20	-394.10	-286.20	-383.93	0.54	0.52	-1.77	
6,297.00	4.40	226.80	6,273.93	-398.88	-291.07	-388.54	0.32	-0.23	2.87	
6,392.00	4.50	224.60	6,368.65	-404.03	-296.34	-393.50	0.21	0.11	-2.32	
6,486.00	3.90	220.80	6,462.40	-409.07	-301.02	-398.38	0.70	-0.64	-4.04	
6,581.00	4.10	218.40	6,557.16	-414.18	-305.24	-403.34	0.27	0.21	-2.53	
6,676.00	4.50	217.90	6,651.90	-419.78	-309.64	-408.78	0.42	0.42	-0.53	
6,772.00	4.50	223.90	6,747.60	-425.47	-314.57	-414.29	0.49	0.00	6.25	
6,868.00	4.10	229.20	6,843.33	-430.42	-319.78	-419.07	0.59	-0.42	5.52	
6,963.00	3.40	231.50	6,938.13	-434.40	-324.55	-422.87	0.75	-0.74	2.42	
7,059.00	3.20	231.00	7,033.97	-437.85	-328.86	-426.18	0.21	-0.21	-0.52	
7,155.00	1.90	245.70	7,129.87	-440.20	-332.39	-428.39	1.51	-1.35	15.31	
7,250.00	1.30	262.90	7,224.83	-440.98	-334.90	-429.09	0.80	-0.63	18.11	
7,345.00	1.30	259.10	7,319.81	-441.31	-337.03	-429.35	0.09	0.00	-4.00	
7,441.00	1.20	249.30	7,415.79	-441.87	-339.04	-429.84	0.25	-0.10	-10.21	
7,535.00	1.00	260.20	7,509.77	-442.36	-340.77	-430.27	0.31	-0.21	11.60	
7,631.00	1.00	267.50	7,605.76	-442.54	-342.43	-430.39	0.13	0.00	7.60	
7,712.00	0.40	253.70	7,686.75	-442.65	-343.41	-430.47	0.76	-0.74	-17.04	
7,839.00	0.40	173.20	7,813.75	-443.22	-343.78	-431.02	0.41	0.00	-63.39	
7,935.00	0.30	169.90	7,909.75	-443.80	-343.70	-431.60	0.11	-0.10	-3.44	
8,030.00	0.30	184.70	8,004.74	-444.29	-343.67	-432.09	0.08	0.00	15.58	
8,126.00	0.40	300.00	8,100.74	-444.37	-343.98	-432.17	0.62	0.10	120.10	
8,221.00	0.50	298.30	8,195.74	-444.01	-344.63	-431.78	0.11	0.11	-1.79	
8,316.00	0.50	263.70	8,290.74	-443.86	-345.41	-431.60	0.31	0.00	-36.42	
8,411.00	0.50	294.10	8,385.73	-443.73	-346.20	-431.45	0.28	0.00	32.00	
8,505.00	0.30	255.50	8,479.73	-443.63	-346.81	-431.33	0.35	-0.21	-41.06	
8,600.00	0.70	227.70	8,574.73	-444.08	-347.48	-431.75	0.48	0.42	-29.26	
8,696.00	0.80	165.20	8,670.72	-445.12	-347.75	-432.79	0.82	0.10	-65.10	
8,791.00	2.10	143.80	8,765.69	-447.17	-346.55	-434.87	1.46	1.37	-22.53	

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Nash Unit 301H SHL
Project:	Eddy County, NM (NAD27) NMEZ US	TVD Reference:	3118+22 @ 3140.00usft (Perseus)
Site:	Nash Unit Pad	MD Reference:	3118+22 @ 3140.00usft (Perseus)
Well:	Nash Unit 301H SHL	North Reference:	Grid
Wellbore:	Nash Unit 301H	Survey Calculation Method:	Minimum Curvature
Design:	Nash Unit 301H AsDrilled	Database:	TP_EDM

Survey										
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	8,886.00	2.00	191.50	8,860.63	-450.20	-345.85	-437.93	1.75	-0.11	50.21
	8,982.00	1.50	229.50	8,956.59	-452.66	-347.14	-440.34	1.28	-0.52	39.58
	9,079.00	1.40	222.50	9,053.56	-454.36	-348.91	-441.97	0.21	-0.10	-7.22
	9,115.33	1.51	218.64	9,089.88	-455.06	-349.51	-442.65	0.41	0.30	-10.63
	Nash Unit 201H FTP_100FSL_355FEL - Nash Unit 201H LP									
	9,174.00	1.70	213.50	9,148.53	-456.39	-350.47	-443.95	0.41	0.32	-8.76
	9,270.00	2.10	205.70	9,244.47	-459.16	-352.02	-446.66	0.50	0.42	-8.12
	9,315.47	1.88	224.23	9,289.91	-460.44	-352.90	-447.92	1.49	-0.49	40.75
	Nash Unit 202H LP									
	9,330.50	1.85	231.07	9,304.94	-460.77	-353.26	-448.23	1.49	-0.16	45.51
	Nash Unit 202H FTP_100FSL_330FWL									
	9,366.00	1.90	247.20	9,340.42	-461.36	-354.25	-448.79	1.49	0.14	45.44
	9,460.00	1.50	249.00	9,434.38	-462.40	-356.83	-449.74	0.43	-0.43	1.91
	9,555.00	1.20	233.80	9,529.35	-463.44	-358.80	-450.71	0.49	-0.32	-16.00
	9,651.00	1.50	311.80	9,625.33	-463.19	-360.55	-450.40	1.79	0.31	81.25
	9,720.00	1.70	310.70	9,694.31	-461.92	-361.99	-449.08	0.29	0.29	-1.59
	9,774.00	2.02	321.24	9,748.28	-460.66	-363.20	-447.78	0.87	0.59	19.52
	9,822.00	4.46	352.80	9,796.20	-458.15	-363.96	-445.24	6.12	5.08	65.75
	9,870.00	7.40	1.82	9,843.94	-453.21	-364.10	-440.30	6.41	6.12	18.79
	9,918.00	9.88	358.79	9,891.39	-446.00	-364.09	-433.09	5.25	5.17	-6.31
	9,923.88	10.29	358.58	9,897.18	-444.97	-364.11	-432.06	6.92	6.89	-3.55
	Nash Unit 301H KOP									
	9,965.00	13.12	357.48	9,937.44	-436.64	-364.41	-423.73	6.92	6.89	-2.68
	10,013.00	15.40	354.10	9,983.96	-424.85	-365.30	-411.92	5.05	4.75	-7.04
	10,061.00	17.82	356.22	10,029.95	-411.18	-366.44	-398.22	5.20	5.04	4.42
	10,093.00	20.50	357.73	10,060.18	-400.69	-366.98	-387.72	8.52	8.37	4.72
	10,125.00	23.81	358.36	10,089.81	-388.64	-367.39	-375.65	10.37	10.34	1.97
	10,157.00	26.75	358.88	10,118.74	-374.98	-367.72	-361.99	9.21	9.19	1.62
	10,189.00	31.09	358.29	10,146.75	-359.51	-368.10	-346.52	13.59	13.56	-1.84
	10,221.00	34.20	356.82	10,173.69	-342.27	-368.85	-329.26	10.03	9.72	-4.59
	10,252.00	37.56	356.69	10,198.80	-324.13	-369.88	-311.10	10.84	10.84	-0.42
	10,300.00	43.62	358.23	10,235.24	-292.95	-371.24	-279.88	12.80	12.62	3.21
	10,347.00	49.49	359.44	10,267.54	-258.84	-371.91	-245.78	12.63	12.49	2.57
	10,395.00	54.37	1.26	10,297.14	-221.07	-371.66	-208.04	10.60	10.17	3.79
	10,443.00	58.15	1.36	10,323.79	-181.17	-370.75	-168.20	7.88	7.87	0.21
	10,491.00	62.00	0.00	10,347.73	-139.59	-370.26	-126.65	8.39	8.02	-2.83
	10,538.00	66.25	358.65	10,368.24	-97.31	-370.77	-84.38	9.40	9.04	-2.87
	10,586.00	70.47	357.84	10,385.94	-52.73	-372.14	-39.78	8.93	8.79	-1.69
	10,634.00	71.96	357.55	10,401.39	-7.32	-373.97	5.66	3.16	3.10	-0.60
	10,682.00	73.51	358.14	10,415.64	38.48	-375.69	51.50	3.44	3.23	1.23
	10,730.00	77.83	358.56	10,427.52	84.96	-377.03	97.99	9.04	9.00	0.87
	10,778.00	80.72	359.06	10,436.45	132.10	-378.01	145.14	6.11	6.02	1.04
	10,825.00	84.18	359.52	10,442.62	178.69	-378.59	191.72	7.43	7.36	0.98
	10,832.67	84.74	359.65	10,443.36	186.32	-378.64	199.34	7.52	7.31	1.76

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Nash Unit 301H SHL
Project:	Eddy County, NM (NAD27) NMEZ US	TVD Reference:	3118+22 @ 3140.00usft (Perseus)
Site:	Nash Unit Pad	MD Reference:	3118+22 @ 3140.00usft (Perseus)
Well:	Nash Unit 301H SHL	North Reference:	Grid
Wellbore:	Nash Unit 301H	Survey Calculation Method:	Minimum Curvature
Design:	Nash Unit 301H AsDrilled	Database:	TP_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Nash Unit 401H LP									
10,873.00	87.69	0.36	10,446.03	226.56	-378.63	239.56	7.52	7.31	1.75
10,887.00	88.26	0.47	10,446.52	240.55	-378.53	253.54	4.13	4.06	0.75
Wellpath Crosses FTP									
10,887.85	88.29	0.47	10,446.55	241.40	-378.53	254.39	4.13	4.06	0.75
Nash Unit 301H FTP 100FSL_330FWL									
10,921.00	89.64	0.72	10,447.14	274.54	-378.18	287.50	4.13	4.06	0.75
11,017.00	90.92	0.58	10,446.67	370.53	-377.09	383.40	1.34	1.33	-0.15
11,112.00	91.39	1.82	10,444.76	465.49	-375.10	478.23	1.40	0.49	1.31
11,208.00	91.26	2.26	10,442.54	561.40	-371.69	573.96	0.48	-0.14	0.46
11,304.00	89.30	0.11	10,442.07	657.37	-369.70	669.80	3.03	-2.04	-2.24
11,399.00	88.91	0.83	10,443.55	752.35	-368.92	764.70	0.86	-0.41	0.76
11,495.00	91.26	0.35	10,443.41	848.34	-367.94	860.60	2.50	2.45	-0.50
11,590.00	91.42	0.31	10,441.19	943.31	-367.39	955.50	0.17	0.17	-0.04
11,686.00	91.23	359.36	10,438.97	1,039.29	-367.66	1,051.42	1.01	-0.20	-0.99
11,782.00	89.27	358.25	10,438.55	1,135.26	-369.67	1,147.41	2.35	-2.04	-1.16
11,876.00	91.78	358.61	10,437.69	1,229.21	-372.24	1,241.39	2.70	2.67	0.38
11,971.00	89.91	359.32	10,436.29	1,324.18	-373.96	1,336.36	2.11	-1.97	0.75
12,065.00	89.02	359.97	10,437.17	1,418.17	-374.54	1,430.32	1.17	-0.95	0.69
12,160.00	91.11	0.38	10,437.06	1,513.17	-374.25	1,525.25	2.24	2.20	0.43
12,254.00	89.75	0.11	10,436.35	1,607.16	-373.85	1,619.17	1.48	-1.45	-0.29
12,350.00	89.55	359.88	10,436.94	1,703.16	-373.86	1,715.11	0.32	-0.21	-0.24
12,444.00	89.02	0.07	10,438.11	1,797.15	-373.90	1,809.05	0.60	-0.56	0.20
12,540.00	90.59	1.65	10,438.44	1,893.14	-372.46	1,904.92	2.32	1.64	1.65
12,635.00	90.59	0.33	10,437.46	1,988.11	-370.82	1,999.79	1.39	0.00	-1.39
12,731.00	90.06	359.36	10,436.92	2,084.11	-371.07	2,095.73	1.15	-0.55	-1.01
12,825.00	88.86	358.23	10,437.80	2,178.08	-373.05	2,189.72	1.75	-1.28	-1.20
12,919.00	91.48	357.97	10,437.52	2,272.02	-376.17	2,283.71	2.80	2.79	-0.28
13,014.00	90.19	358.27	10,436.14	2,366.96	-379.28	2,378.70	1.39	-1.36	0.32
13,110.00	89.50	358.61	10,436.40	2,462.92	-381.90	2,474.69	0.80	-0.72	0.35
13,206.00	89.39	359.02	10,437.33	2,558.90	-383.88	2,570.68	0.44	-0.11	0.43
13,303.00	88.91	358.94	10,438.77	2,655.87	-385.61	2,667.65	0.50	-0.49	-0.08
13,398.00	89.47	359.82	10,440.11	2,750.85	-386.64	2,762.62	1.10	0.59	0.93
13,493.00	89.83	0.62	10,440.69	2,845.85	-386.27	2,857.54	0.92	0.38	0.84
13,587.00	89.27	1.04	10,441.43	2,939.84	-384.91	2,951.43	0.74	-0.60	0.45
13,682.00	90.75	0.44	10,441.41	3,034.83	-383.68	3,046.31	1.68	1.56	-0.63
13,776.00	90.19	1.02	10,440.64	3,128.82	-382.49	3,140.20	0.86	-0.60	0.62
13,872.00	89.69	0.21	10,440.74	3,224.81	-381.46	3,236.10	0.99	-0.52	-0.84
13,967.00	89.10	0.07	10,441.75	3,319.80	-381.22	3,331.03	0.64	-0.62	-0.15
14,062.00	89.35	359.66	10,443.03	3,414.79	-381.45	3,425.97	0.51	0.26	-0.43
14,158.00	89.24	359.74	10,444.21	3,510.78	-381.95	3,521.93	0.14	-0.11	0.08
14,253.00	90.67	359.46	10,444.29	3,605.78	-382.61	3,616.89	1.53	1.51	-0.29
14,349.00	90.83	0.49	10,443.03	3,701.77	-382.66	3,712.82	1.09	0.17	1.07
14,444.00	90.14	359.95	10,442.23	3,796.77	-382.29	3,807.75	0.92	-0.73	-0.57

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Nash Unit 301H SHL
Project:	Eddy County, NM (NAD27) NMEZ US	TVD Reference:	3118+22 @ 3140.00usft (Perseus)
Site:	Nash Unit Pad	MD Reference:	3118+22 @ 3140.00usft (Perseus)
Well:	Nash Unit 301H SHL	North Reference:	Grid
Wellbore:	Nash Unit 301H	Survey Calculation Method:	Minimum Curvature
Design:	Nash Unit 301H AsDrilled	Database:	TP_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,540.00	89.69	0.27	10,442.37	3,892.76	-382.11	3,903.68	0.58	-0.47	0.33
14,635.00	88.20	359.97	10,444.12	3,987.75	-381.91	3,998.60	1.60	-1.57	-0.32
14,731.00	91.09	359.91	10,444.71	4,083.73	-382.01	4,094.53	3.01	3.01	-0.06
14,826.00	90.27	0.07	10,443.58	4,178.73	-382.02	4,189.47	0.88	-0.86	0.17
14,921.00	88.62	359.15	10,444.50	4,273.71	-382.67	4,284.42	1.99	-1.74	-0.97
15,017.00	92.51	359.65	10,443.56	4,369.69	-383.68	4,380.37	4.09	4.05	0.52
15,112.00	92.09	359.38	10,439.75	4,464.61	-384.48	4,475.26	0.53	-0.44	-0.28
15,208.00	89.32	358.28	10,438.56	4,560.57	-386.44	4,571.23	3.10	-2.89	-1.15
15,304.00	89.38	358.81	10,439.65	4,656.53	-388.88	4,667.22	0.56	0.06	0.55
15,399.00	88.46	358.48	10,441.44	4,751.49	-391.12	4,762.20	1.03	-0.97	-0.35
15,493.00	90.47	358.13	10,442.32	4,845.44	-393.90	4,856.19	2.17	2.14	-0.37
15,589.00	90.61	359.12	10,441.42	4,941.40	-396.21	4,952.18	1.04	0.15	1.03
15,684.00	90.30	359.05	10,440.66	5,036.39	-397.72	5,047.16	0.33	-0.33	-0.07
15,779.00	89.72	359.20	10,440.65	5,131.38	-399.17	5,142.14	0.63	-0.61	0.16
15,874.00	90.95	359.57	10,440.09	5,226.37	-400.19	5,237.11	1.35	1.29	0.39
15,969.00	91.84	359.52	10,437.78	5,321.33	-400.95	5,332.04	0.94	0.94	-0.05
16,064.00	90.52	359.43	10,435.82	5,416.31	-401.82	5,426.99	1.39	-1.39	-0.09
16,158.00	89.24	359.76	10,436.02	5,510.30	-402.48	5,520.95	1.41	-1.36	0.35
16,254.00	89.96	359.58	10,436.69	5,606.30	-403.04	5,616.91	0.77	0.75	-0.19
16,350.00	90.75	359.58	10,436.09	5,702.29	-403.74	5,712.87	0.82	0.82	0.00
16,446.00	90.92	0.27	10,434.70	5,798.28	-403.87	5,808.81	0.74	0.18	0.72
16,541.00	91.00	1.05	10,433.10	5,893.26	-402.77	5,903.69	0.83	0.08	0.82
16,637.00	90.16	1.12	10,432.13	5,989.24	-400.95	5,999.55	0.88	-0.87	0.07
16,733.00	90.02	0.75	10,431.98	6,085.23	-399.39	6,095.42	0.41	-0.15	-0.39
16,830.00	89.66	0.31	10,432.25	6,182.22	-398.49	6,192.33	0.59	-0.37	-0.45
16,925.00	90.83	359.81	10,431.85	6,277.22	-398.39	6,287.26	1.34	1.23	-0.53
17,045.00	89.50	0.04	10,431.50	6,397.22	-398.55	6,407.19	1.12	-1.11	0.19
17,140.00	89.44	359.38	10,432.38	6,492.21	-399.03	6,502.15	0.70	-0.06	-0.69
17,235.00	90.34	359.05	10,432.56	6,587.20	-400.33	6,597.12	1.01	0.95	-0.35
17,330.00	89.78	358.09	10,432.46	6,682.17	-402.70	6,692.12	1.17	-0.59	-1.01
17,426.00	89.36	358.93	10,433.18	6,778.13	-405.20	6,788.11	0.98	-0.44	0.87
17,519.00	89.91	359.67	10,433.77	6,871.12	-406.33	6,881.08	0.99	0.59	0.80
17,613.00	90.48	359.36	10,433.45	6,965.12	-407.13	6,975.05	0.69	0.61	-0.33
17,708.00	90.42	359.17	10,432.71	7,060.11	-408.35	7,070.03	0.21	-0.06	-0.20
17,803.00	90.81	359.54	10,431.69	7,155.10	-409.42	7,164.99	0.57	0.41	0.39
17,898.00	90.78	359.52	10,430.37	7,250.08	-410.20	7,259.95	0.04	-0.03	-0.02
17,994.00	90.03	359.32	10,429.69	7,346.07	-411.17	7,355.92	0.81	-0.78	-0.21
18,090.00	89.75	359.15	10,429.88	7,442.07	-412.45	7,451.90	0.34	-0.29	-0.18
18,185.00	89.52	359.37	10,430.48	7,537.06	-413.68	7,546.87	0.34	-0.24	0.23
18,280.00	89.86	359.17	10,431.00	7,632.05	-414.89	7,641.85	0.42	0.36	-0.21
18,376.00	90.19	359.38	10,430.95	7,728.04	-416.10	7,737.82	0.41	0.34	0.22
18,472.00	90.11	0.14	10,430.70	7,824.04	-416.50	7,833.78	0.80	-0.08	0.79
18,569.00	90.42	0.62	10,430.25	7,921.03	-415.86	7,930.69	0.59	0.32	0.49

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Nash Unit 301H SHL
Project:	Eddy County, NM (NAD27) NMEZ US	TVD Reference:	3118+22 @ 3140.00usft (Perseus)
Site:	Nash Unit Pad	MD Reference:	3118+22 @ 3140.00usft (Perseus)
Well:	Nash Unit 301H SHL	North Reference:	Grid
Wellbore:	Nash Unit 301H	Survey Calculation Method:	Minimum Curvature
Design:	Nash Unit 301H AsDrilled	Database:	TP_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
18,666.00	90.50	0.45	10,429.47	8,018.03	-414.95	8,027.60	0.19	0.08	-0.18	
18,762.00	90.59	0.87	10,428.56	8,114.01	-413.85	8,123.49	0.45	0.09	0.44	
18,857.00	89.66	0.40	10,428.35	8,209.01	-412.80	8,218.39	1.10	-0.98	-0.49	
18,953.00	90.19	359.96	10,428.48	8,305.01	-412.49	8,314.32	0.72	0.55	-0.46	
19,047.00	90.09	0.23	10,428.25	8,399.01	-412.34	8,408.26	0.31	-0.11	0.29	
19,142.00	89.89	359.85	10,428.27	8,494.01	-412.27	8,503.20	0.45	-0.21	-0.40	
19,238.00	90.45	359.99	10,427.98	8,590.00	-412.41	8,599.14	0.60	0.58	0.15	
19,334.00	89.83	359.80	10,427.75	8,686.00	-412.58	8,695.09	0.68	-0.65	-0.20	
19,429.00	90.56	0.10	10,427.42	8,781.00	-412.66	8,790.03	0.83	0.77	0.32	
19,525.00	90.34	0.52	10,426.67	8,877.00	-412.15	8,885.95	0.49	-0.23	0.44	
19,620.00	90.22	0.68	10,426.21	8,971.99	-411.15	8,980.86	0.21	-0.13	0.17	
19,716.00	90.56	0.10	10,425.55	9,067.99	-410.50	9,076.77	0.70	0.35	-0.60	
19,811.00	90.03	359.88	10,425.06	9,162.98	-410.51	9,171.71	0.60	-0.56	-0.23	
19,907.00	90.81	0.18	10,424.36	9,258.98	-410.46	9,267.65	0.87	0.81	0.31	
20,003.00	89.22	0.40	10,424.33	9,354.98	-409.98	9,363.57	1.67	-1.66	0.23	
20,098.00	89.44	359.88	10,425.45	9,449.97	-409.75	9,458.50	0.59	0.23	-0.55	
20,193.00	89.55	359.27	10,426.28	9,544.96	-410.45	9,553.46	0.65	0.12	-0.64	
20,289.00	89.55	358.85	10,427.04	9,640.95	-412.02	9,649.44	0.44	0.00	-0.44	
20,382.00	89.44	358.22	10,427.86	9,733.91	-414.40	9,742.43	0.69	-0.12	-0.68	
20,478.00	92.32	358.62	10,426.38	9,829.85	-417.05	9,838.41	3.03	3.00	0.42	
20,574.00	90.31	357.37	10,424.18	9,925.76	-420.41	9,934.37	2.47	-2.09	-1.30	
20,669.00	88.46	356.90	10,425.20	10,020.63	-425.15	10,029.35	2.01	-1.95	-0.49	
20,764.00	88.26	359.03	10,427.92	10,115.53	-428.53	10,124.31	2.25	-0.21	2.24	
20,859.00	88.49	359.28	10,430.61	10,210.48	-429.93	10,219.25	0.36	0.24	0.26	
20,954.00	89.41	359.50	10,432.35	10,305.46	-430.94	10,314.21	1.00	0.97	0.23	
21,049.00	92.46	359.60	10,430.80	10,400.43	-431.68	10,409.15	3.21	3.21	0.11	
21,145.00	89.05	359.06	10,429.54	10,496.40	-432.81	10,505.10	3.60	-3.55	-0.56	
21,239.00	90.00	359.47	10,430.32	10,590.39	-434.01	10,599.07	1.10	1.01	0.44	
21,336.00	90.81	359.13	10,429.63	10,687.38	-435.20	10,696.05	0.91	0.84	-0.35	
21,430.00	91.31	359.73	10,427.89	10,781.36	-436.13	10,790.00	0.83	0.53	0.64	
21,527.00	92.02	359.37	10,425.07	10,878.31	-436.89	10,886.92	0.82	0.73	-0.37	
21,622.00	92.72	359.03	10,421.15	10,973.22	-438.22	10,981.82	0.82	0.74	-0.36	
21,718.00	94.25	0.34	10,415.31	11,069.04	-438.75	11,077.60	2.10	1.59	1.36	
21,813.00	94.03	0.63	10,408.45	11,163.79	-437.94	11,172.26	0.38	-0.23	0.31	
21,909.00	91.84	1.36	10,403.54	11,259.64	-436.28	11,268.00	2.40	-2.28	0.76	
22,004.00	88.86	1.14	10,402.96	11,354.61	-434.21	11,362.83	3.15	-3.14	-0.23	
22,099.00	90.42	1.85	10,403.55	11,449.57	-431.73	11,457.65	1.80	1.64	0.75	
22,196.00	89.52	1.33	10,403.60	11,546.53	-429.04	11,554.46	1.07	-0.93	-0.54	
22,291.00	88.24	0.95	10,405.46	11,641.49	-427.15	11,649.30	1.41	-1.35	-0.40	
22,387.00	87.51	1.02	10,409.02	11,737.41	-425.50	11,745.11	0.76	-0.76	0.07	
22,408.87	87.56	1.04	10,409.96	11,759.25	-425.11	11,766.92	0.24	0.23	0.07	
Nash Unit 401H LTP_330FNL_330FEL										
22,482.00	87.73	1.09	10,412.97	11,832.31	-423.75	11,839.89	0.24	0.23	0.07	

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Nash Unit 301H SHL
Project:	Eddy County, NM (NAD27) NMEZ US	TVD Reference:	3118+22 @ 3140.00usft (Perseus)
Site:	Nash Unit Pad	MD Reference:	3118+22 @ 3140.00usft (Perseus)
Well:	Nash Unit 301H SHL	North Reference:	Grid
Wellbore:	Nash Unit 301H	Survey Calculation Method:	Minimum Curvature
Design:	Nash Unit 301H AsDrilled	Database:	TP_EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
22,541.16	87.70	1.34	10,415.33	11,891.41	-422.50	11,898.91	0.42	-0.05	0.41	
Nash Unit 401H PBHL_200FNL_330FEL										
22,576.00	87.68	1.48	10,416.73	11,926.21	-421.64	11,933.66	0.42	-0.05	0.41	
22,579.02	87.68	1.48	10,416.85	11,929.23	-421.57	11,936.67	0.00	0.00	0.00	
Nash Unit 202H LTP_100FNL_330FWL										
22,586.71	87.67	1.48	10,417.16	11,936.91	-421.37	11,944.34	0.19	-0.19	-0.02	
Nash Unit 201H LTP_100FNL_355FEL										
22,625.40	87.61	1.47	10,418.76	11,975.55	-420.37	11,982.93	0.14	-0.14	-0.02	
Nash Unit 301H LTP_100FNL_330FWL										
22,626.00	87.61	1.47	10,418.78	11,976.15	-420.36	11,983.53	0.14	-0.14	-0.02	
Wellpath Crosses LTP										
22,627.96	87.61	1.47	10,418.87	11,978.11	-420.31	11,985.48	0.00	0.00	0.00	
Nash Unit 202H PBHL_50FNL_330FWL										
22,635.51	87.60	1.47	10,419.18	11,985.66	-420.11	11,993.02	0.16	-0.16	-0.02	
Nash Unit 201H PBHL_50FNL_355FEL										
22,642.00	87.59	1.47	10,419.45	11,992.13	-419.95	11,999.48	0.16	-0.16	-0.02	
22,675.34	87.59	1.47	10,420.86	12,025.44	-419.09	12,032.74	0.00	0.00	0.00	
Nash Unit 301H PBHL_50FNL_330FWL										
22,675.78	87.59	1.47	10,420.87	12,025.87	-419.08	12,033.17	0.00	0.00	0.00	
Nash Unit 301H PBHL_50FNL_330FWLa										
22,700.00	87.59	1.47	10,421.89	12,050.06	-418.46	12,057.32	0.00	0.00	0.00	
Wellpath TD @ 26°FNL,340°FWL - Nash Unit 301H BHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		
Nash Unit 301H SHL	0.00	0.00	0.00	0.00	0.00	472,096.40	629,616.90	32.2972126		
- hit/miss target										
- Shape										
- actual wellpath hits target center										
- Point										
Nash Unit 301H BHL	0.00	0.00	10,421.89	12,050.06	-418.46	484,146.46	629,198.44	32.3303413		
- actual wellpath hits target center										
- Point										
Nash Unit 301H LTP_100FNL_330FWL	0.00	0.00	10,427.00	11,975.43	-428.75	484,071.83	629,188.16	32.3301363		
- actual wellpath misses target center by 11.75usft at 22625.40usft MD (10418.76 TVD, 11975.55 N, -420.37 E)										
- Point										
Nash Unit 301H PBHL_50FNL_330FWL	0.00	0.00	10,427.00	12,025.40	-410.70	484,121.80	629,206.20	32.3302734		
- actual wellpath misses target center by 10.39usft at 22675.78usft MD (10420.87 TVD, 12025.87 N, -419.08 E)										
- Rectangle (sides W50.00 H11,784.00 D0.00)										
Nash Unit 301H FTP_100FNL_330FWL	0.00	0.00	10,447.00	241.40	-379.44	472,337.80	629,237.46	32.2978803		
- actual wellpath misses target center by 1.02usft at 10887.85usft MD (10446.55 TVD, 241.40 N, -378.53 E)										
- Point										

Survey Report

Company:	XTO Energy	Local Co-ordinate Reference:	Well Nash Unit 301H SHL
Project:	Eddy County, NM (NAD27) NMEZ US	TVD Reference:	3118+22 @ 3140.00usft (Perseus)
Site:	Nash Unit Pad	MD Reference:	3118+22 @ 3140.00usft (Perseus)
Well:	Nash Unit 301H SHL	North Reference:	Grid
Wellbore:	Nash Unit 301H	Survey Calculation Method:	Minimum Curvature
Design:	Nash Unit 301H AsDrilled	Database:	TP_EDM

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,887.00	10,446.52	240.55	-378.53	Wellpath Crosses FTP
22,626.00	10,418.78	11,976.15	-420.36	Wellpath Crosses LTP
22,700.00	10,421.89	12,050.06	-418.46	Wellpath TD @ 26'FNL,340'FWL

Checked By: _____	Approved By: _____	Date: _____
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