



Received
Jul 24, 2019
Dist. II-DCD

XTO Energy

Eddy County, NM (NAD-27)

Big Eddy Unit (John Wayne)

True Grit #110H 30-015-41226

Wellbore #1

Plan: PERMIT

Standard Planning Report

15 February, 2019



Project: Eddy County, NM (NAD-27)
Site: Big Eddy Unit (John Wayne)
Well: True Grit #110H
Wellbore: Wellbore #1
Design: PERMIT

PROJECT DETAILS: Eddy County, NM (NAD-27)
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

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
BEU True Grit 110H: SHL (215' FNL & 350' FWL)	0.00	0.00	0.00	524817.90	598628.20	32.442432	-104.013628	Point
BEU True Grit 110H: FTP/LP	10091.00	-185.00	0.60	524832.90	598628.80	32.441923	-104.013628	Point
BEU True Grit 110H: LTP	10116.72	-4721.20	20.40	520096.70	598648.60	32.429453	-104.013608	Point
BEU True Grit 110H: PBHL (50' FSL & 350' FWL)	10117.00	-4771.20	20.70	520046.70	598648.90	32.429316	-104.013608	Point

WELL DETAILS: True Grit #110H

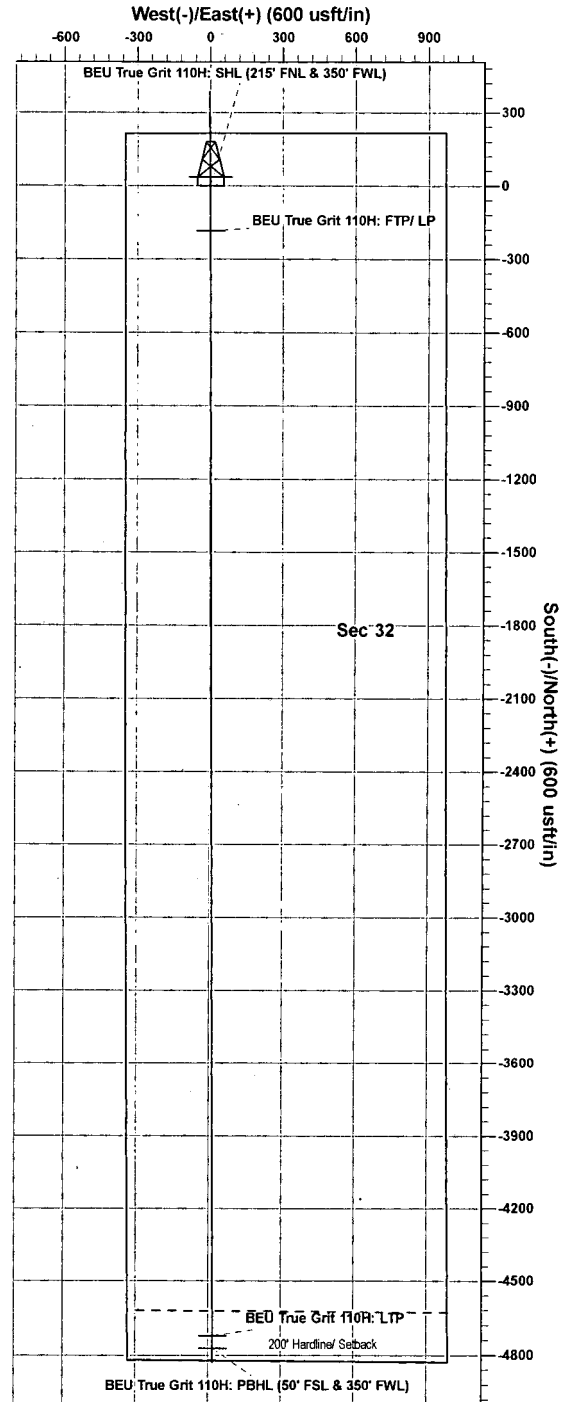
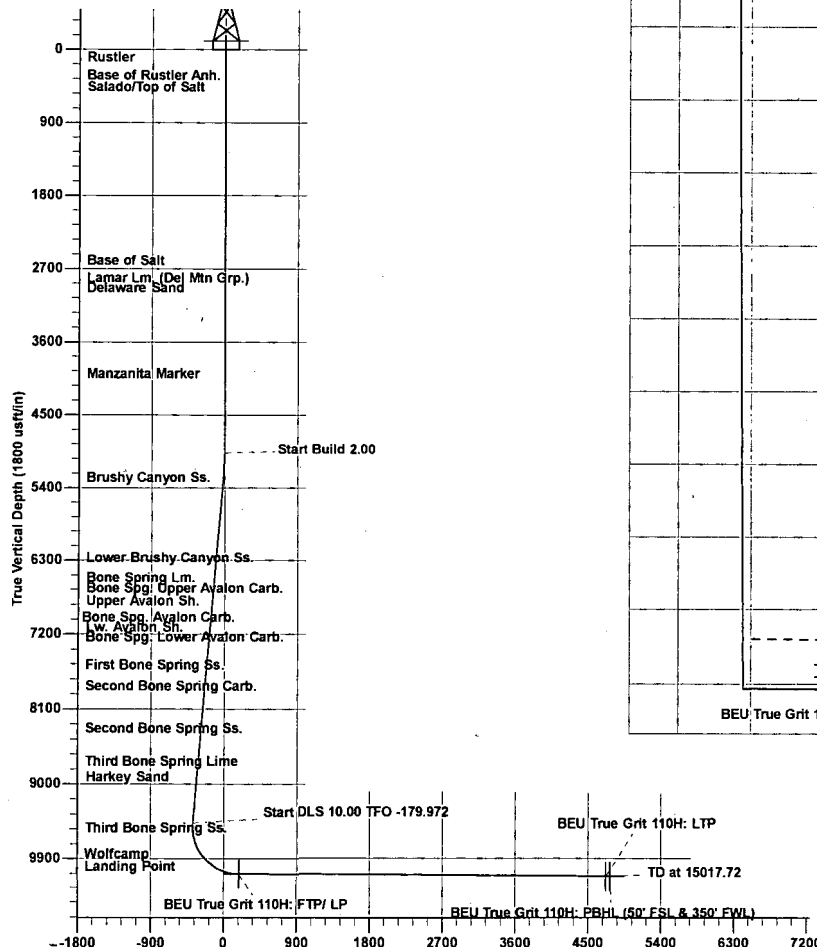
Rig Name:						
RKB = 25 @ 3317.00usft						
Ground Level: 3292.00						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	524817.90	598628.20	32.442432	-104.013628	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
2	4970.00	0.00	0.00	4970.00	0.00	0.00	0.00	0.000	0.00
3	5219.96	5.00	359.72	5219.84	10.90	-0.05	2.00	359.721	-10.90
4	9484.66	5.00	359.72	9484.12	382.52	-1.86	0.00	0.000	-382.53
5	10431.41	89.68	179.75	10091.00	-185.00	0.60	10.00	-179.972	185.00
6	14987.72	89.68	179.75	10116.72	-4721.20	20.48	0.00	0.000	4721.24
7	15017.72	89.68	179.75	10117.00	-4771.20	20.70	0.00	0.000	4771.24

FORMATION TOP DETAILS

TVDPath	Formation
188.00	Rustler
482.00	Base of Rustler Anh.
553.00	Salado/Top of Salt
2690.00	Base of Salt
2907.00	Lamar Lm. (Del Mtn Grp.)
3027.00	Delaware Sand
4087.00	Manzanita Marker
5365.00	Brushy Canyon Ss.
6359.00	Lower Brushy Canyon Ss.
6650.00	Bone Spring Lm.
6742.00	Avalon Ss.
6777.00	Bone Spg. Upper Avalon Carb.
6842.00	Upper Avalon Sh.
7107.00	Bone Spg. Avalon Carb.
7245.00	Lw. Avalon Sh.
7327.00	Bone Spg. Lower Avalon Carb.
7666.00	First Bone Spring Ss.
7917.00	Second Bone Spring Carb.
8426.00	Second Bone Spring Ss.
8823.00	Third Bone Spring Lime
9122.00	Harkey Sand
9620.00	Third Bone Spring Ss.
9965.00	Wolfcamp
9982.00	Wolfcamp X Ss.
10061.00	Wolfcamp Y Ss.
10091.00	Landing Point



Vertical Section at 179.75° (1800 usft/in)

The customer should only rely on this document after independently verifying all paths, targets, coordinates, base and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Prototype are at the sole risk and responsibility of the customer.

Plan: PERMIT (True Grit #110H/Wellbore #1)

Created By: Matthew May Date: 8:36, February 15 2019

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name BIG EDDY UNIT TRUE GRIT STATE	⁶ Well Number 110 H
⁷ OGRID No. 260737	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,292'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	32	21 S	29 E		215	NORTH	350	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L1	32	21 S	29 E		50	SOUTH	350	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶	SURFACE LOCATION NAD 27 NME Y= 524,817.9 X= 598,628.2 LAT.= 32.442431°N LONG.= 104.013628°W LAST TAKE POINT NAD 27 NME Y= 520,096.7 X= 598,648.6 LAT.= 32.429453°N LONG.= 104.013608°W FIRST TAKE POINT NAD 27 NME Y= 524,632.9 X= 598,628.8 LAT.= 32.441923°N LONG.= 104.013628°W BOTTOM HOLE LOCATION NAD 27 NME Y= 520,046.7 X= 598,648.9 LAT.= 32.429316°N LONG.= 104.013608°W CORNER COORDINATES TABLE NAD 27 NME A - Y= 525,032.2 N, X= 598,277.7 E B - Y= 525,034.9 N, X= 599,598.5 E C - Y= 522,390.3 N, X= 598,285.0 E D - Y= 522,393.7 N, X= 599,606.6 E E - Y= 519,998.8 N, X= 598,299.1 E F - Y= 519,997.5 N, X= 598,541.7 E G - Y= 519,989.6 N, X= 599,618.0 E SURFACE LOCATION NAD 83 NME Y= 524,878.6 X= 639,809.1 LAT.= 32.442552°N LONG.= 104.014129°W LAST TAKE POINT NAD 83 NME Y= 520,157.3 X= 639,829.6 LAT.= 32.429574°N LONG.= 104.014108°W FIRST TAKE POINT NAD 83 NME Y= 524,693.6 X= 639,809.7 LAT.= 32.442044°N LONG.= 104.014129°W BOTTOM HOLE LOCATION NAD 83 NME Y= 520,107.3 X= 639,829.9 LAT.= 32.429437°N LONG.= 103.014108°W CORNER COORDINATES TABLE NAD 83 NME A - Y= 525,092.9 N, X= 639,458.6 E B - Y= 525,095.7 N, X= 640,779.4 E C - Y= 522,451.0 N, X= 639,465.9 E D - Y= 522,454.4 N, X= 640,787.6 E E - Y= 520,059.4 N, X= 639,480.1 E F - Y= 520,058.1 N, X= 639,722.7 E G - Y= 520,050.2 N, X= 640,799.0 E	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 02-01-2019 Date of Survey Signature and Seal of Professional Surveyor: _____ MARK DILLON HARP 23786 Certificate Number	MARK DILLON HARP NEW MEXICO 23786 PROFESSIONAL SURVEYOR DH 2018123064



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well True Grit #110H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3317.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3317.00usft
Site:	Big Eddy Unit (John Wayne)	North Reference:	Grid
Well:	True Grit #110H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,087.00	0.00	0.00	4,087.00	0.00	0.00	0.00	0.00	0.00	0.00
Manzanita Marker									
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,970.00	0.00	0.00	4,970.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.60	359.72	5,000.00	0.16	0.00	-0.16	2.00	2.00	0.00
5,100.00	2.60	359.72	5,099.96	2.95	-0.01	-2.95	2.00	2.00	0.00
5,200.00	4.60	359.72	5,199.75	9.23	-0.04	-9.23	2.00	2.00	0.00
5,219.96	5.00	359.72	5,219.64	10.90	-0.05	-10.90	2.00	2.00	0.00
5,300.00	5.00	359.72	5,299.38	17.87	-0.09	-17.87	0.00	0.00	0.00
5,365.87	5.00	359.72	5,365.00	23.61	-0.11	-23.61	0.00	0.00	0.00
Brushy Canyon Ss.									
5,400.00	5.00	359.72	5,399.00	26.59	-0.13	-26.59	0.00	0.00	0.00
5,500.00	5.00	359.72	5,498.62	35.30	-0.17	-35.30	0.00	0.00	0.00
5,600.00	5.00	359.72	5,598.24	44.01	-0.21	-44.02	0.00	0.00	0.00
5,700.00	5.00	359.72	5,697.86	52.73	-0.26	-52.73	0.00	0.00	0.00
5,800.00	5.00	359.72	5,797.48	61.44	-0.30	-61.44	0.00	0.00	0.00
5,900.00	5.00	359.72	5,897.10	70.16	-0.34	-70.16	0.00	0.00	0.00
6,000.00	5.00	359.72	5,996.72	78.87	-0.38	-78.87	0.00	0.00	0.00
6,100.00	5.00	359.72	6,096.34	87.58	-0.43	-87.59	0.00	0.00	0.00
6,200.00	5.00	359.72	6,195.95	96.30	-0.47	-96.30	0.00	0.00	0.00
6,300.00	5.00	359.72	6,295.57	105.01	-0.51	-105.01	0.00	0.00	0.00
6,363.67	5.00	359.72	6,359.00	110.56	-0.54	-110.56	0.00	0.00	0.00
Lower Brushy Canyon Ss.									
6,400.00	5.00	359.72	6,395.19	113.73	-0.55	-113.73	0.00	0.00	0.00
6,500.00	5.00	359.72	6,494.81	122.44	-0.60	-122.44	0.00	0.00	0.00
6,600.00	5.00	359.72	6,594.43	131.15	-0.64	-131.16	0.00	0.00	0.00
6,655.78	5.00	359.72	6,650.00	136.02	-0.66	-136.02	0.00	0.00	0.00
Bone Spring Lm.									
6,700.00	5.00	359.72	6,694.05	139.87	-0.68	-139.87	0.00	0.00	0.00
6,748.13	5.00	359.72	6,742.00	144.06	-0.70	-144.06	0.00	0.00	0.00
Avalon Ss.									
6,783.26	5.00	359.72	6,777.00	147.12	-0.72	-147.13	0.00	0.00	0.00
Bone Spg. Upper Avalon Carb.									
6,800.00	5.00	359.72	6,793.67	148.58	-0.72	-148.58	0.00	0.00	0.00
6,848.51	5.00	359.72	6,842.00	152.81	-0.74	-152.81	0.00	0.00	0.00
Upper Avalon Sh.									
6,900.00	5.00	359.72	6,893.29	157.30	-0.77	-157.30	0.00	0.00	0.00
7,000.00	5.00	359.72	6,992.91	166.01	-0.81	-166.01	0.00	0.00	0.00
7,100.00	5.00	359.72	7,092.53	174.72	-0.85	-174.73	0.00	0.00	0.00
7,114.52	5.00	359.72	7,107.00	175.99	-0.86	-175.99	0.00	0.00	0.00
Bone Spg. Avalon Carb.									
7,200.00	5.00	359.72	7,192.15	183.44	-0.89	-183.44	0.00	0.00	0.00
7,253.05	5.00	359.72	7,245.00	188.06	-0.92	-188.06	0.00	0.00	0.00
Lw. Avalon Sh.									



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well True Grit #110H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3317.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3317.00usft
Site:	Big Eddy Unit (John Wayne)	North Reference:	Grid
Well:	True Grit #110H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,300.00	5.00	359.72	7,291.77	192.15	-0.93	-192.16	0.00	0.00	0.00	
7,335.36	5.00	359.72	7,327.00	195.23	-0.95	-195.24	0.00	0.00	0.00	
Bone Spg. Lower Avalon Carb.										
7,400.00	5.00	359.72	7,391.39	200.87	-0.98	-200.87	0.00	0.00	0.00	
7,500.00	5.00	359.72	7,491.01	209.58	-1.02	-209.58	0.00	0.00	0.00	
7,600.00	5.00	359.72	7,590.63	218.29	-1.06	-218.30	0.00	0.00	0.00	
7,675.66	5.00	359.72	7,666.00	224.89	-1.09	-224.89	0.00	0.00	0.00	
First Bone Spring Ss.										
7,700.00	5.00	359.72	7,690.25	227.01	-1.10	-227.01	0.00	0.00	0.00	
7,800.00	5.00	359.72	7,789.87	235.72	-1.15	-235.73	0.00	0.00	0.00	
7,900.00	5.00	359.72	7,889.49	244.44	-1.19	-244.44	0.00	0.00	0.00	
7,927.62	5.00	359.72	7,917.00	246.84	-1.20	-246.85	0.00	0.00	0.00	
Second Bone Spring Carb.										
8,000.00	5.00	359.72	7,989.11	253.15	-1.23	-253.15	0.00	0.00	0.00	
8,100.00	5.00	359.72	8,088.73	261.86	-1.27	-261.87	0.00	0.00	0.00	
8,200.00	5.00	359.72	8,188.35	270.58	-1.32	-270.58	0.00	0.00	0.00	
8,300.00	5.00	359.72	8,287.97	279.29	-1.36	-279.30	0.00	0.00	0.00	
8,400.00	5.00	359.72	8,387.59	288.01	-1.40	-288.01	0.00	0.00	0.00	
8,438.56	5.00	359.72	8,426.00	291.37	-1.42	-291.37	0.00	0.00	0.00	
Second Bone Spring Ss.										
8,500.00	5.00	359.72	8,487.21	296.72	-1.44	-296.72	0.00	0.00	0.00	
8,600.00	5.00	359.72	8,586.83	305.44	-1.49	-305.44	0.00	0.00	0.00	
8,700.00	5.00	359.72	8,686.44	314.15	-1.53	-314.15	0.00	0.00	0.00	
8,800.00	5.00	359.72	8,786.06	322.86	-1.57	-322.87	0.00	0.00	0.00	
8,837.08	5.00	359.72	8,823.00	326.09	-1.59	-326.10	0.00	0.00	0.00	
Third Bone Spring Lime										
8,900.00	5.00	359.72	8,885.68	331.58	-1.61	-331.58	0.00	0.00	0.00	
9,000.00	5.00	359.72	8,985.30	340.29	-1.66	-340.30	0.00	0.00	0.00	
9,100.00	5.00	359.72	9,084.92	349.01	-1.70	-349.01	0.00	0.00	0.00	
9,137.22	5.00	359.72	9,122.00	352.25	-1.71	-352.25	0.00	0.00	0.00	
Harkey Sand										
9,200.00	5.00	359.72	9,184.54	357.72	-1.74	-357.72	0.00	0.00	0.00	
9,300.00	5.00	359.72	9,284.16	366.43	-1.78	-366.44	0.00	0.00	0.00	
9,400.00	5.00	359.72	9,383.78	375.15	-1.83	-375.15	0.00	0.00	0.00	
9,484.66	5.00	359.72	9,468.12	382.52	-1.86	-382.53	0.00	0.00	0.00	
9,500.00	3.47	359.71	9,483.42	383.66	-1.87	-383.66	10.00	-10.00	-0.08	
9,550.00	1.53	179.84	9,533.39	384.50	-1.87	-384.50	10.00	-3.86	-359.74	
9,600.00	6.53	179.77	9,583.26	380.98	-1.86	-380.99	10.00	10.00	-0.14	
9,637.15	10.25	179.76	9,620.00	375.56	-1.84	-375.57	10.00	10.00	-0.02	
Third Bone Spring Ss.										
9,650.00	11.53	179.76	9,632.62	373.13	-1.83	-373.14	10.00	10.00	-0.01	
9,700.00	16.53	179.76	9,681.11	361.01	-1.78	-361.02	10.00	10.00	-0.01	
9,750.00	21.53	179.76	9,728.36	344.71	-1.71	-344.71	10.00	10.00	0.00	
9,800.00	26.53	179.75	9,774.01	324.35	-1.62	-324.36	10.00	10.00	0.00	
9,850.00	31.53	179.75	9,817.72	300.09	-1.51	-300.10	10.00	10.00	0.00	
9,900.00	36.53	179.75	9,859.14	272.12	-1.39	-272.12	10.00	10.00	0.00	
9,950.00	41.53	179.75	9,897.96	240.64	-1.26	-240.64	10.00	10.00	0.00	
10,000.00	46.53	179.75	9,933.90	205.90	-1.11	-205.90	10.00	10.00	0.00	
10,047.33	51.27	179.75	9,965.00	170.24	-0.95	-170.24	10.00	10.00	0.00	
Wolfcamp										
10,050.00	51.53	179.75	9,966.67	168.15	-0.94	-168.16	10.00	10.00	0.00	
10,075.36	54.07	179.75	9,982.00	147.95	-0.85	-147.95	10.00	10.00	0.00	
Wolfcamp X Ss.										



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well True Grit #110H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3317.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3317.00usft
Site:	Big Eddy Unit (John Wayne)	North Reference:	Grid
Well:	True Grit #110H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,100.00	56.53	179.75	9,996.02	127.70	-0.77	-127.70	10.00	10.00	0.00
10,150.00	61.53	179.75	10,021.74	84.84	-0.58	-84.84	10.00	10.00	0.00
10,200.00	66.53	179.75	10,043.63	39.90	-0.38	-39.90	10.00	10.00	0.00
10,248.40	71.37	179.75	10,061.00	-5.25	-0.19	5.25	10.00	10.00	0.00
Wolfcamp Y Ss.									
10,250.00	71.53	179.75	10,061.51	-6.77	-0.18	6.77	10.00	10.00	0.00
10,300.00	76.53	179.75	10,075.26	-54.83	0.03	54.83	10.00	10.00	0.00
10,350.00	81.53	179.75	10,084.77	-103.90	0.24	103.90	10.00	10.00	0.00
10,400.00	86.53	179.75	10,089.96	-153.61	0.46	153.62	10.00	10.00	0.00
10,431.41	89.68	179.75	10,091.00	-185.00	0.60	185.00	10.00	10.00	0.00
Landing Point - BEU True Grit 110H: FTP/ LP									
10,500.00	89.68	179.75	10,091.39	-253.59	0.90	253.59	0.00	0.00	0.00
10,600.00	89.68	179.75	10,091.96	-353.59	1.34	353.59	0.00	0.00	0.00
10,700.00	89.68	179.75	10,092.52	-453.59	1.78	453.59	0.00	0.00	0.00
10,800.00	89.68	179.75	10,093.09	-553.58	2.22	553.59	0.00	0.00	0.00
10,900.00	89.68	179.75	10,093.66	-653.58	2.65	653.59	0.00	0.00	0.00
11,000.00	89.68	179.75	10,094.22	-753.58	3.09	753.58	0.00	0.00	0.00
11,100.00	89.68	179.75	10,094.79	-853.58	3.53	853.58	0.00	0.00	0.00
11,200.00	89.68	179.75	10,095.36	-953.57	3.97	953.58	0.00	0.00	0.00
11,300.00	89.68	179.75	10,095.92	-1,053.57	4.41	1,053.58	0.00	0.00	0.00
11,400.00	89.68	179.75	10,096.49	-1,153.57	4.84	1,153.58	0.00	0.00	0.00
11,500.00	89.68	179.75	10,097.06	-1,253.57	5.28	1,253.58	0.00	0.00	0.00
11,600.00	89.68	179.75	10,097.63	-1,353.56	5.72	1,353.58	0.00	0.00	0.00
11,700.00	89.68	179.75	10,098.19	-1,453.56	6.16	1,453.57	0.00	0.00	0.00
11,800.00	89.68	179.75	10,098.76	-1,553.56	6.60	1,553.57	0.00	0.00	0.00
11,900.00	89.68	179.75	10,099.33	-1,653.56	7.04	1,653.57	0.00	0.00	0.00
12,000.00	89.68	179.75	10,099.89	-1,753.55	7.47	1,753.57	0.00	0.00	0.00
12,100.00	89.68	179.75	10,100.46	-1,853.55	7.91	1,853.57	0.00	0.00	0.00
12,200.00	89.68	179.75	10,101.03	-1,953.55	8.35	1,953.57	0.00	0.00	0.00
12,300.00	89.68	179.75	10,101.59	-2,053.55	8.79	2,053.56	0.00	0.00	0.00
12,400.00	89.68	179.75	10,102.16	-2,153.54	9.23	2,153.56	0.00	0.00	0.00
12,500.00	89.68	179.75	10,102.73	-2,253.54	9.67	2,253.56	0.00	0.00	0.00
12,600.00	89.68	179.75	10,103.29	-2,353.54	10.10	2,353.56	0.00	0.00	0.00
12,700.00	89.68	179.75	10,103.86	-2,453.54	10.54	2,453.56	0.00	0.00	0.00
12,800.00	89.68	179.75	10,104.43	-2,553.53	10.98	2,553.56	0.00	0.00	0.00
12,900.00	89.68	179.75	10,104.99	-2,653.53	11.42	2,653.55	0.00	0.00	0.00
13,000.00	89.68	179.75	10,105.56	-2,753.53	11.86	2,753.55	0.00	0.00	0.00
13,100.00	89.68	179.75	10,106.13	-2,853.52	12.30	2,853.55	0.00	0.00	0.00
13,200.00	89.68	179.75	10,106.70	-2,953.52	12.73	2,953.55	0.00	0.00	0.00
13,300.00	89.68	179.75	10,107.26	-3,053.52	13.17	3,053.55	0.00	0.00	0.00
13,400.00	89.68	179.75	10,107.83	-3,153.52	13.61	3,153.55	0.00	0.00	0.00
13,500.00	89.68	179.75	10,108.40	-3,253.51	14.05	3,253.54	0.00	0.00	0.00
13,600.00	89.68	179.75	10,108.96	-3,353.51	14.49	3,353.54	0.00	0.00	0.00
13,700.00	89.68	179.75	10,109.53	-3,453.51	14.92	3,453.54	0.00	0.00	0.00
13,800.00	89.68	179.75	10,110.10	-3,553.51	15.36	3,553.54	0.00	0.00	0.00
13,900.00	89.68	179.75	10,110.66	-3,653.50	15.80	3,653.54	0.00	0.00	0.00
14,000.00	89.68	179.75	10,111.23	-3,753.50	16.24	3,753.54	0.00	0.00	0.00
14,100.00	89.68	179.75	10,111.80	-3,853.50	16.68	3,853.54	0.00	0.00	0.00
14,200.00	89.68	179.75	10,112.36	-3,953.50	17.12	3,953.53	0.00	0.00	0.00
14,300.00	89.68	179.75	10,112.93	-4,053.49	17.55	4,053.53	0.00	0.00	0.00
14,400.00	89.68	179.75	10,113.50	-4,153.49	17.99	4,153.53	0.00	0.00	0.00
14,500.00	89.68	179.75	10,114.07	-4,253.49	18.43	4,253.53	0.00	0.00	0.00
14,600.00	89.68	179.75	10,114.63	-4,353.49	18.87	4,353.53	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well True Grit #110H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3317.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3317.00usft
Site:	Big Eddy Unit (John Wayne)	North Reference:	Grid
Well:	True Grit #110H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,700.00	89.68	179.75	10,115.20	-4,453.48	19.31	4,453.53	0.00	0.00	0.00
14,800.00	89.68	179.75	10,115.77	-4,553.48	19.75	4,553.52	0.00	0.00	0.00
14,900.00	89.68	179.75	10,116.33	-4,653.48	20.18	4,653.52	0.00	0.00	0.00
14,967.72	89.68	179.75	10,116.72	-4,721.20	20.48	4,721.24	0.00	0.00	0.00
BEU True Grit 110H: LTP									
15,000.00	89.68	179.75	10,116.90	-4,753.48	20.62	4,753.52	0.00	0.00	0.00
15,017.72	89.68	179.75	10,117.00	-4,771.20	20.70	4,771.25	0.00	0.00	0.00
BEU True Grit 110H: PBHL (50' FSL & 350' FWL)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
BEU True Grit 110H: I	0.00	0.00	0.00	0.00	0.00	524,817.90	598,628.20	32.442432	-104.013629
- plan hits target center									
- Point									
BEU True Grit 110H: I	0.00	0.00	10,091.00	-185.00	0.60	524,632.90	598,628.80	32.441923	-104.013629
- plan hits target center									
- Point									
BEU True Grit 110H: I	0.00	0.00	10,116.72	-4,721.20	20.40	520,096.70	598,648.60	32.429454	-104.013608
- plan misses target center by 0.08usft at 14967.72usft MD (10116.72 TVD, -4721.20 N, 20.48 E)									
- Point									
BEU True Grit 110H: I	0.00	0.00	10,117.00	-4,771.20	20.70	520,046.70	598,648.90	32.429316	-104.013608
- plan hits target center									
- Point									



Database: EDM 5000.1 Single User Db	Local Co-ordinate Reference: Well True Grit #110H
Company: XTO Energy	TVD Reference: RKB = 25' @ 3317.00usft
Project: Eddy County, NM (NAD-27)	MD Reference: RKB = 25' @ 3317.00usft
Site: Big Eddy Unit (John Wayne)	North Reference: Grid
Well: True Grit #110H	Survey Calculation Method: Minimum Curvature
Wellbore: Wellbore #1	
Design: PERMIT	

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
188.00	188.00	Rustler			
482.00	482.00	Base of Rustler Anh.			
553.00	553.00	Salado/Top of Salt			
2,690.00	2,690.00	Base of Salt			
2,907.00	2,907.00	Lamar Lm. (Del Mtn Grp.)			
3,027.00	3,027.00	Delaware Sand			
4,087.00	4,087.00	Manzanita Marker			
5,365.87	5,365.00	Brushy Canyon Ss.			
6,363.67	6,359.00	Lower Brushy Canyon Ss.			
6,655.78	6,650.00	Bone Spring Lm.			
6,748.13	6,742.00	Avalon Ss.			
6,783.26	6,777.00	Bone Spg. Upper Avalon Carb.			
6,848.51	6,842.00	Upper Avalon Sh.			
7,114.52	7,107.00	Bone Spg. Avalon Carb.			
7,253.05	7,245.00	Lw. Avalon Sh.			
7,335.36	7,327.00	Bone Spg. Lower Avalon Carb.			
7,675.66	7,666.00	First Bone Spring Ss.			
7,927.62	7,917.00	Second Bone Spring Carb.			
8,438.56	8,426.00	Second Bone Spring Ss.			
8,837.08	8,823.00	Third Bone Spring Lime			
9,137.22	9,122.00	Harkey Sand			
9,637.15	9,620.00	Third Bone Spring Ss.			
10,047.33	9,965.00	Wolfcamp			
10,075.36	9,982.00	Wolfcamp X Ss.			
10,248.40	10,061.00	Wolfcamp Y Ss.			
10,431.41	10,091.00	Landing Point			