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JUL 24 2019

DISTRICT 7 - ARTESIA O.C.D.

XTO Energy

Eddy County, NM (NAD-27)

Big Eddy Unit (John Wayne)

BEU Hondo #108H 30-015-46225

Wellbore #1

Plan: PERMIT

Standard Planning Report

15 February, 2019



Project: Eddy County, NM (NAD-27)
 Site: Big Eddy Unit (John Wayne)
 Well: BEU Hondo #108H
 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 Hondo 108H: SHL (215' FNL & 380' FWL)	0.00	0.00	0.00	524818.00	598658.20	32.442432	-104.013531	Point
BEU Hondo 108H: FTP/LP	9142.00	-185.00	0.60	524833.00	598659.80	32.441923	-104.013531	Point
BEU Hondo 108H: LTP	9167.00	-4721.50	20.40	520096.50	598678.80	32.429453	-104.013511	Point
BEU Hondo 108H: PBHL (50' FSL & 380' FWL)	9167.00	-4771.50	20.70	520046.50	598678.90	32.429315	-104.013510	Point

WELL DETAILS: BEU Hondo #108H

Rig Name: RKB = 25' @ 3316.00usft
 Ground Level: 3291.00

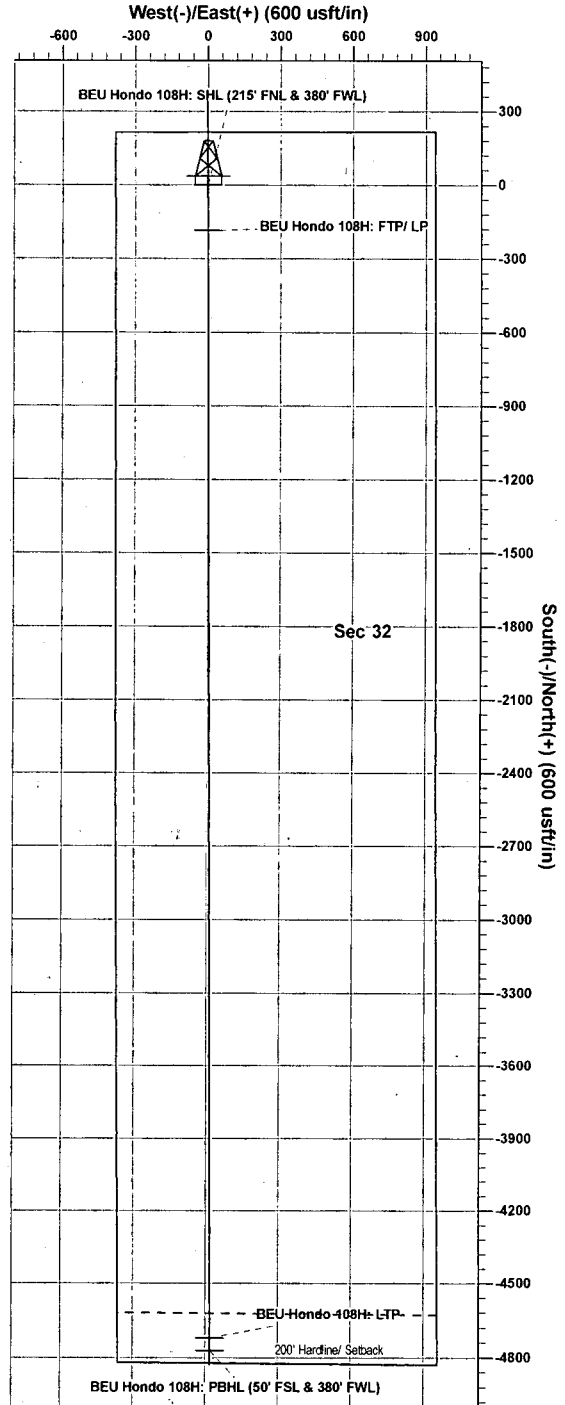
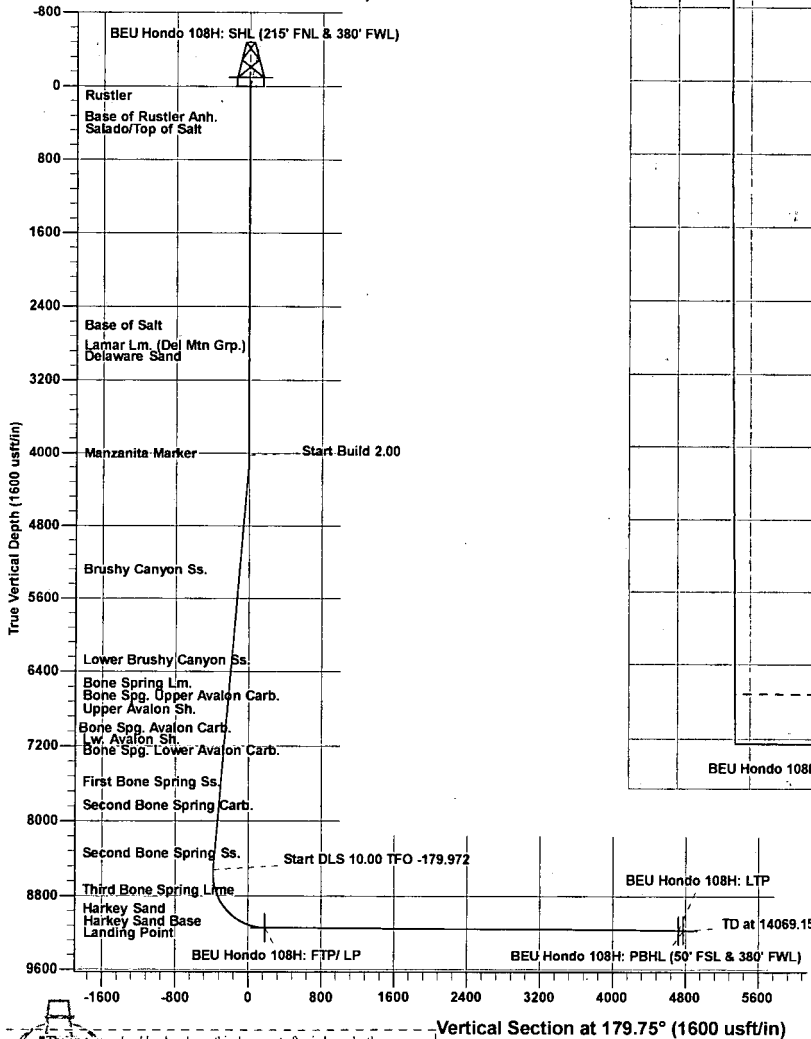
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.00	0.00	524818.00	598658.20	32.442432	-104.013531

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	4020.00	0.00	0.00	4020.00	0.00	0.00	0.00	0.000	0.00
3	4269.98	5.00	359.72	4269.67	10.90	-0.05	2.00	359.721	-10.90
4	8535.66	5.00	359.72	8519.12	382.65	-1.86	0.00	0.000	-382.65
5	9482.54	89.69	179.75	9142.00	-185.00	0.60	10.00	-179.972	185.00
6	14019.15	89.69	179.75	9166.73	-4721.50	20.48	0.00	0.000	4721.54
7	14069.15	89.69	179.75	9167.00	-4771.50	20.70	0.00	0.000	4771.54

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.
6942.00	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
9142.00	Landing Point
9157.00	Harkey Sand Base



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease 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.

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 HONDO STATE	
⁷ OGRID No. 260737	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁶ Well Number 108H
		⁹ Elevation 3,291'

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	380	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	380	WEST	EDDY

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

SURFACE LOCATION
NAD 27 NME
Y= 524,818.0
X= 598,658.2
LAT.= 32.442431°N
LONG.= 104.013531°W

LAST TAKE POINT
NAD 27 NME
Y= 520,096.5
X= 598,678.6
LAT.= 32.429453°N
LONG.= 104.013511°W

FIRST TAKE POINT
NAD 27 NME
Y= 524,633.0
X= 598,658.8
LAT.= 32.441923°N
LONG.= 104.013531°W

BOTTOM HOLE LOCATION
NAD 27 NME
Y= 520,046.5
X= 598,678.9
LAT.= 32.429315°N
LONG.= 104.013510°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= 519,988.8 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= 524,878.7
X= 639,839.1
LAT.= 32.442552°N
LONG.= 104.014031°W

LAST TAKE POINT
NAD 83 NME
Y= 520,157.1
X= 639,859.6
LAT.= 32.429573°N
LONG.= 104.014011°W

FIRST TAKE POINT
NAD 83 NME
Y= 524,693.7
X= 639,839.7
LAT.= 32.442044°N
LONG.= 104.014031°W

BOTTOM HOLE LOCATION
NAD 83 NME
Y= 520,107.1
X= 639,859.9
LAT.= 32.429436°N
LONG.= 103.014010°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



DH 2018123065



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BEU Hondo #108H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3316.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3316.00usft
Site:	Big Eddy Unit (John Wayne)	North Reference:	Grid
Well:	BEU Hondo #108H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Project	Eddy County, NM (NAD-27)		
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	Big Eddy Unit (John Wayne)				
Site Position:		Northing:	524,818.10 usft	Latitude:	32.442431
From:	Map	Easting:	598,718.20 usft	Longitude:	-104.013337
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.172 °

Well:	BEU Hondo #108H					
Well Position	+N/-S	-0.10 usft	Northing:	524,818.00 usft	Latitude:	32.442432
	+E/-W	-60.00 usft	Easting:	598,658.20 usft	Longitude:	-104.013531
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,291.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	2/15/2019	(°)	(°)	(nT)
			6.996	60.171	47,850

Design	PERMIT			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	179.75

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
4,020.00	0.00	0.00	4,020.00	0.00	0.00	0.00	0.00	0.00	0.000	
4,269.98	5.00	359.72	4,269.67	10.90	-0.05	2.00	2.00	0.00	359.721	
8,535.66	5.00	359.72	8,519.12	382.65	-1.86	0.00	0.00	0.00	0.000	
9,482.54	89.69	179.75	9,142.00	-185.00	0.60	10.00	8.94	-19.01	-179.972	BEU Hondo 108H:
14,019.15	89.69	179.75	9,166.73	-4,721.50	20.48	0.00	0.00	0.00	0.000	BEU Hondo 108H:
14,069.15	89.69	179.75	9,167.00	-4,771.50	20.70	0.00	0.00	0.00	0.000	BEU Hondo 108H:



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BEU Hondo #108H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3316.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3316.00usft
Site:	Big Eddy Unit (John Wayne)	North Reference:	Grid
Well:	BEU Hondo #108H	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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
BEU Hondo 108H: SHL (215' FNL & 380' FWL)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
188.00	0.00	0.00	188.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
482.00	0.00	0.00	482.00	0.00	0.00	0.00	0.00	0.00	0.00
Base of Rustler Anh.									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
553.00	0.00	0.00	553.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado/Top of Salt									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,690.00	0.00	0.00	2,690.00	0.00	0.00	0.00	0.00	0.00	0.00
Base of Salt									
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,907.00	0.00	0.00	2,907.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar Lm. (Del Mtn Grp.)									
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,027.00	0.00	0.00	3,027.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware Sand									
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BEU Hondo #108H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3316.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3316.00usft
Site:	Big Eddy Unit (John Wayne)	North Reference:	Grid
Well:	BEU Hondo #108H	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	0.00
4,020.00	0.00	0.00	4,020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,087.01	1.34	359.72	4,087.00	0.78	0.00	-0.78	2.00	2.00	0.00	0.00
Manzanita Marker										
4,100.00	1.60	359.72	4,099.99	1.12	-0.01	-1.12	2.00	2.00	0.00	0.00
4,200.00	3.60	359.72	4,199.88	5.65	-0.03	-5.65	2.00	2.00	0.00	0.00
4,269.98	5.00	359.72	4,269.67	10.90	-0.05	-10.90	2.00	2.00	0.00	0.00
4,300.00	5.00	359.72	4,299.57	13.52	-0.07	-13.52	0.00	0.00	0.00	0.00
4,400.00	5.00	359.72	4,399.19	22.23	-0.11	-22.23	0.00	0.00	0.00	0.00
4,500.00	5.00	359.72	4,498.81	30.95	-0.15	-30.95	0.00	0.00	0.00	0.00
4,600.00	5.00	359.72	4,598.43	39.66	-0.19	-39.66	0.00	0.00	0.00	0.00
4,700.00	5.00	359.72	4,698.05	48.38	-0.24	-48.38	0.00	0.00	0.00	0.00
4,800.00	5.00	359.72	4,797.67	57.09	-0.28	-57.09	0.00	0.00	0.00	0.00
4,900.00	5.00	359.72	4,897.29	65.81	-0.32	-65.81	0.00	0.00	0.00	0.00
5,000.00	5.00	359.72	4,996.91	74.52	-0.36	-74.52	0.00	0.00	0.00	0.00
5,100.00	5.00	359.72	5,096.52	83.23	-0.40	-83.24	0.00	0.00	0.00	0.00
5,200.00	5.00	359.72	5,196.14	91.95	-0.45	-91.95	0.00	0.00	0.00	0.00
5,300.00	5.00	359.72	5,295.76	100.66	-0.49	-100.67	0.00	0.00	0.00	0.00
5,369.50	5.00	359.72	5,365.00	106.72	-0.52	-106.72	0.00	0.00	0.00	0.00
Brushy Canyon Ss.										
5,400.00	5.00	359.72	5,395.38	109.38	-0.53	-109.38	0.00	0.00	0.00	0.00
5,500.00	5.00	359.72	5,495.00	118.09	-0.57	-118.10	0.00	0.00	0.00	0.00
5,600.00	5.00	359.72	5,594.62	126.81	-0.62	-126.81	0.00	0.00	0.00	0.00
5,700.00	5.00	359.72	5,694.24	135.52	-0.66	-135.53	0.00	0.00	0.00	0.00
5,800.00	5.00	359.72	5,793.86	144.24	-0.70	-144.24	0.00	0.00	0.00	0.00
5,900.00	5.00	359.72	5,893.48	152.95	-0.74	-152.96	0.00	0.00	0.00	0.00
6,000.00	5.00	359.72	5,993.10	161.67	-0.79	-161.67	0.00	0.00	0.00	0.00
6,100.00	5.00	359.72	6,092.72	170.38	-0.83	-170.39	0.00	0.00	0.00	0.00
6,200.00	5.00	359.72	6,192.34	179.10	-0.87	-179.10	0.00	0.00	0.00	0.00
6,300.00	5.00	359.72	6,291.96	187.81	-0.91	-187.82	0.00	0.00	0.00	0.00
6,367.30	5.00	359.72	6,359.00	193.68	-0.94	-193.68	0.00	0.00	0.00	0.00
Lower Brushy Canyon Ss.										
6,400.00	5.00	359.72	6,391.58	196.53	-0.96	-196.53	0.00	0.00	0.00	0.00
6,500.00	5.00	359.72	6,491.20	205.24	-1.00	-205.25	0.00	0.00	0.00	0.00
6,600.00	5.00	359.72	6,590.82	213.96	-1.04	-213.96	0.00	0.00	0.00	0.00
6,659.41	5.00	359.72	6,650.00	219.14	-1.07	-219.14	0.00	0.00	0.00	0.00
Bone Spring Lm.										
6,700.00	5.00	359.72	6,690.44	222.67	-1.08	-222.68	0.00	0.00	0.00	0.00
6,751.76	5.00	359.72	6,742.00	227.18	-1.11	-227.19	0.00	0.00	0.00	0.00
Avalon Ss.										
6,786.89	5.00	359.72	6,777.00	230.25	-1.12	-230.25	0.00	0.00	0.00	0.00
Bone Spg. Upper Avalon Carb.										
6,800.00	5.00	359.72	6,790.06	231.39	-1.13	-231.39	0.00	0.00	0.00	0.00
6,852.14	5.00	359.72	6,842.00	235.93	-1.15	-235.93	0.00	0.00	0.00	0.00
Upper Avalon Sh.										
6,900.00	5.00	359.72	6,889.68	240.10	-1.17	-240.11	0.00	0.00	0.00	0.00
7,000.00	5.00	359.72	6,989.30	248.82	-1.21	-248.82	0.00	0.00	0.00	0.00
7,100.00	5.00	359.72	7,088.92	257.53	-1.25	-257.54	0.00	0.00	0.00	0.00
7,118.15	5.00	359.72	7,107.00	259.11	-1.26	-259.12	0.00	0.00	0.00	0.00
Bone Spg. Avalon Carb.										
7,200.00	5.00	359.72	7,188.53	266.25	-1.30	-266.25	0.00	0.00	0.00	0.00
7,256.68	5.00	359.72	7,245.00	271.19	-1.32	-271.19	0.00	0.00	0.00	0.00
Lw. Avalon Sh.										



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BEU Hondo #108H
Company:	XTO Energy	TVD Reference:	RKB = 25' @ 3316.00usft
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3316.00usft
Site:	Big Eddy Unit (John Wayne)	North Reference:	Grid
Well:	BEU Hondo #108H	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	7,288.15	274.96	-1.34	-274.97	0.00	0.00	0.00	
7,338.99	5.00	359.72	7,327.00	278.36	-1.35	-278.36	0.00	0.00	0.00	
Bone Spg. Lower Avalon Carb.										
7,400.00	5.00	359.72	7,387.77	283.68	-1.38	-283.68	0.00	0.00	0.00	
7,500.00	5.00	359.72	7,487.39	292.39	-1.42	-292.40	0.00	0.00	0.00	
7,600.00	5.00	359.72	7,587.01	301.11	-1.46	-301.11	0.00	0.00	0.00	
7,679.29	5.00	359.72	7,666.00	308.02	-1.50	-308.02	0.00	0.00	0.00	
First Bone Spring Ss.										
7,700.00	5.00	359.72	7,686.63	309.82	-1.51	-309.83	0.00	0.00	0.00	
7,800.00	5.00	359.72	7,786.25	318.54	-1.55	-318.54	0.00	0.00	0.00	
7,900.00	5.00	359.72	7,885.87	327.25	-1.59	-327.26	0.00	0.00	0.00	
7,931.25	5.00	359.72	7,917.00	329.98	-1.61	-329.98	0.00	0.00	0.00	
Second Bone Spring Carb.										
8,000.00	5.00	359.72	7,985.49	335.97	-1.63	-335.97	0.00	0.00	0.00	
8,100.00	5.00	359.72	8,085.11	344.68	-1.68	-344.69	0.00	0.00	0.00	
8,200.00	5.00	359.72	8,184.73	353.40	-1.72	-353.40	0.00	0.00	0.00	
8,300.00	5.00	359.72	8,284.35	362.11	-1.76	-362.12	0.00	0.00	0.00	
8,400.00	5.00	359.72	8,383.97	370.83	-1.80	-370.83	0.00	0.00	0.00	
8,442.19	5.00	359.72	8,426.00	374.50	-1.82	-374.51	0.00	0.00	0.00	
Second Bone Spring Ss.										
8,500.00	5.00	359.72	8,483.59	379.54	-1.85	-379.55	0.00	0.00	0.00	
8,535.66	5.00	359.72	8,519.12	382.65	-1.86	-382.65	0.00	0.00	0.00	
8,550.00	3.57	359.71	8,533.41	383.72	-1.87	-383.72	10.00	-10.00	-0.08	
8,600.00	1.43	179.85	8,583.39	384.65	-1.87	-384.65	10.00	-4.26	-359.73	
8,650.00	6.43	179.77	8,633.25	381.22	-1.86	-381.23	10.00	10.00	-0.15	
8,700.00	11.43	179.76	8,682.63	373.46	-1.83	-373.46	10.00	10.00	-0.02	
8,750.00	16.43	179.76	8,731.15	361.42	-1.78	-361.43	10.00	10.00	-0.01	
8,800.00	21.43	179.76	8,778.43	345.20	-1.71	-345.21	10.00	10.00	0.00	
8,848.76	26.31	179.75	8,823.00	325.48	-1.62	-325.48	10.00	10.00	0.00	
Third Bone Spring Lime										
8,850.00	26.43	179.75	8,824.11	324.93	-1.62	-324.93	10.00	10.00	0.00	
8,900.00	31.43	179.75	8,867.86	300.74	-1.52	-300.75	10.00	10.00	0.00	
8,950.00	36.43	179.75	8,909.33	272.84	-1.40	-272.85	10.00	10.00	0.00	
9,000.00	41.43	179.75	8,948.21	241.43	-1.26	-241.43	10.00	10.00	0.00	
9,050.00	46.43	179.75	8,984.20	206.75	-1.11	-206.75	10.00	10.00	0.00	
9,100.00	51.43	179.75	9,017.04	169.07	-0.95	-169.07	10.00	10.00	0.00	
9,150.00	56.43	179.75	9,046.47	128.66	-0.77	-128.66	10.00	10.00	0.00	
9,200.00	61.43	179.75	9,072.26	85.85	-0.58	-85.85	10.00	10.00	0.00	
9,250.00	66.43	179.75	9,094.22	40.95	-0.39	-40.95	10.00	10.00	0.00	
9,300.00	71.43	179.75	9,112.19	-5.70	-0.18	5.69	10.00	10.00	0.00	
9,333.80	74.81	179.75	9,122.00	-38.03	-0.04	38.03	10.00	10.00	0.00	
Harkey Sand										
9,350.00	76.43	179.75	9,126.02	-53.73	0.03	53.73	10.00	10.00	0.00	
9,400.00	81.43	179.75	9,135.62	-102.78	0.24	102.78	10.00	10.00	0.00	
9,450.00	86.43	179.75	9,140.90	-152.48	0.46	152.49	10.00	10.00	0.00	
9,482.54	89.69	179.75	9,142.00	-185.00	0.60	185.00	10.00	10.00	0.00	
Landing Point - BEU Hondo 108H: FTP/ LP										
9,500.00	89.69	179.75	9,142.10	-202.46	0.68	202.46	0.00	0.00	0.00	
9,600.00	89.69	179.75	9,142.64	-302.46	1.11	302.46	0.00	0.00	0.00	
9,700.00	89.69	179.75	9,143.19	-402.46	1.55	402.46	0.00	0.00	0.00	
9,800.00	89.69	179.75	9,143.73	-502.45	1.99	502.46	0.00	0.00	0.00	
9,900.00	89.69	179.75	9,144.28	-602.45	2.43	602.46	0.00	0.00	0.00	
10,000.00	89.69	179.75	9,144.82	-702.45	2.87	702.45	0.00	0.00	0.00	



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BEU Hondo #108H
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Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB = 25' @ 3316.00usft
Site:	Big Eddy Unit (John Wayne)	North Reference:	Grid
Well:	BEU Hondo #108H	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	89.69	179.75	9,145.37	-802.45	3.31	802.45	0.00	0.00	0.00
10,200.00	89.69	179.75	9,145.91	-902.44	3.74	902.45	0.00	0.00	0.00
10,300.00	89.69	179.75	9,146.46	-1,002.44	4.18	1,002.45	0.00	0.00	0.00
10,400.00	89.69	179.75	9,147.00	-1,102.44	4.62	1,102.45	0.00	0.00	0.00
10,500.00	89.69	179.75	9,147.55	-1,202.44	5.06	1,202.45	0.00	0.00	0.00
10,600.00	89.69	179.75	9,148.09	-1,302.43	5.50	1,302.45	0.00	0.00	0.00
10,700.00	89.69	179.75	9,148.64	-1,402.43	5.94	1,402.44	0.00	0.00	0.00
10,800.00	89.69	179.75	9,149.18	-1,502.43	6.37	1,502.44	0.00	0.00	0.00
10,900.00	89.69	179.75	9,149.73	-1,602.43	6.81	1,602.44	0.00	0.00	0.00
11,000.00	89.69	179.75	9,150.27	-1,702.42	7.25	1,702.44	0.00	0.00	0.00
11,100.00	89.69	179.75	9,150.82	-1,802.42	7.69	1,802.44	0.00	0.00	0.00
11,200.00	89.69	179.75	9,151.36	-1,902.42	8.13	1,902.44	0.00	0.00	0.00
11,300.00	89.69	179.75	9,151.91	-2,002.42	8.56	2,002.44	0.00	0.00	0.00
11,400.00	89.69	179.75	9,152.45	-2,102.41	9.00	2,102.43	0.00	0.00	0.00
11,500.00	89.69	179.75	9,153.00	-2,202.41	9.44	2,202.43	0.00	0.00	0.00
11,600.00	89.69	179.75	9,153.54	-2,302.41	9.88	2,302.43	0.00	0.00	0.00
11,700.00	89.69	179.75	9,154.09	-2,402.41	10.32	2,402.43	0.00	0.00	0.00
11,800.00	89.69	179.75	9,154.63	-2,502.41	10.76	2,502.43	0.00	0.00	0.00
11,900.00	89.69	179.75	9,155.18	-2,602.40	11.19	2,602.43	0.00	0.00	0.00
12,000.00	89.69	179.75	9,155.72	-2,702.40	11.63	2,702.43	0.00	0.00	0.00
12,100.00	89.69	179.75	9,156.27	-2,802.40	12.07	2,802.42	0.00	0.00	0.00
12,200.00	89.69	179.75	9,156.81	-2,902.40	12.51	2,902.42	0.00	0.00	0.00
12,234.51	89.69	179.75	9,157.00	-2,936.90	12.66	2,936.93	0.00	0.00	0.00
Harkey Sand Base									
12,300.00	89.69	179.75	9,157.36	-3,002.39	12.95	3,002.42	0.00	0.00	0.00
12,400.00	89.69	179.75	9,157.90	-3,102.39	13.39	3,102.42	0.00	0.00	0.00
12,500.00	89.69	179.75	9,158.45	-3,202.39	13.82	3,202.42	0.00	0.00	0.00
12,600.00	89.69	179.75	9,158.99	-3,302.39	14.26	3,302.42	0.00	0.00	0.00
12,700.00	89.69	179.75	9,159.54	-3,402.38	14.70	3,402.41	0.00	0.00	0.00
12,800.00	89.69	179.75	9,160.08	-3,502.38	15.14	3,502.41	0.00	0.00	0.00
12,900.00	89.69	179.75	9,160.63	-3,602.38	15.58	3,602.41	0.00	0.00	0.00
13,000.00	89.69	179.75	9,161.17	-3,702.38	16.01	3,702.41	0.00	0.00	0.00
13,100.00	89.69	179.75	9,161.72	-3,802.37	16.45	3,802.41	0.00	0.00	0.00
13,200.00	89.69	179.75	9,162.26	-3,902.37	16.89	3,902.41	0.00	0.00	0.00
13,300.00	89.69	179.75	9,162.81	-4,002.37	17.33	4,002.41	0.00	0.00	0.00
13,400.00	89.69	179.75	9,163.35	-4,102.37	17.77	4,102.40	0.00	0.00	0.00
13,500.00	89.69	179.75	9,163.90	-4,202.36	18.21	4,202.40	0.00	0.00	0.00
13,600.00	89.69	179.75	9,164.44	-4,302.36	18.64	4,302.40	0.00	0.00	0.00
13,700.00	89.69	179.75	9,164.99	-4,402.36	19.08	4,402.40	0.00	0.00	0.00
13,800.00	89.69	179.75	9,165.53	-4,502.36	19.52	4,502.40	0.00	0.00	0.00
13,900.00	89.69	179.75	9,166.08	-4,602.35	19.96	4,602.40	0.00	0.00	0.00
14,000.00	89.69	179.75	9,166.62	-4,702.35	20.40	4,702.40	0.00	0.00	0.00
14,019.15	89.69	179.75	9,166.73	-4,721.50	20.48	4,721.54	0.00	0.00	0.00
BEU Hondo 108H: LTP									
14,069.15	89.69	179.75	9,167.00	-4,771.50	20.70	4,771.55	0.00	0.00	0.00
BEU Hondo 108H: PBHL (50' FSL & 380' FWL)									



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Site:	Big Eddy Unit (John Wayne)	North Reference:	Grid
Well:	BEU Hondo #108H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	PERMIT		

Design Targets										
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
BEU Hondo 108H: SF - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	524,818.00	598,658.20	32.442432	-104.013531	
BEU Hondo 108H: FT - plan hits target center - Point	0.00	0.00	9,142.00	-185.00	0.60	524,633.00	598,658.80	32.441923	-104.013531	
BEU Hondo 108H: PE - plan hits target center - Point	0.00	0.00	9,167.00	-4,771.50	20.70	520,046.50	598,678.90	32.429315	-104.013511	
BEU Hondo 108H: LT - plan misses target center by 0.28usft at 14019.15usft MD (9166.73 TVD, -4721.50 N, 20.48 E) - Point	0.00	0.00	9,167.00	-4,721.50	20.40	520,096.50	598,678.60	32.429453	-104.013511	

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				
4,087.01	4,087.00	Manzanita Marker				
5,369.50	5,365.00	Brushy Canyon Ss.				
6,367.30	6,359.00	Lower Brushy Canyon Ss.				
6,659.41	6,650.00	Bone Spring Lm.				
6,751.76	6,742.00	Avalon Ss.				
6,786.89	6,777.00	Bone Spg. Upper Avalon Carb.				
6,852.14	6,842.00	Upper Avalon Sh.				
7,118.15	7,107.00	Bone Spg. Avalon Carb.				
7,256.68	7,245.00	Lw. Avalon Sh.				
7,338.99	7,327.00	Bone Spg. Lower Avalon Carb.				
7,679.29	7,666.00	First Bone Spring Ss.				
7,931.25	7,917.00	Second Bone Spring Carb.				
8,442.19	8,426.00	Second Bone Spring Ss.				
8,848.76	8,823.00	Third Bone Spring Lime				
9,333.80	9,122.00	Harkey Sand				
9,482.54	9,142.00	Landing Point				
12,234.51	9,157.00	Harkey Sand Base				