

30-025-44503



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XTO Energy

Lea County, NM (NAD-27)
CHISTERA 32 STATE
#6H

OH

Plan: PERMIT

Standard Planning Report

07 February, 2018



Project: Lea County, NM (NAD-27)
Site: CHISTERA 32 STATE
Well: #6H
Wellbore: OH
Design: PERMIT

PROJECT DETAILS: Lea 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

WELL DETAILS: #6H

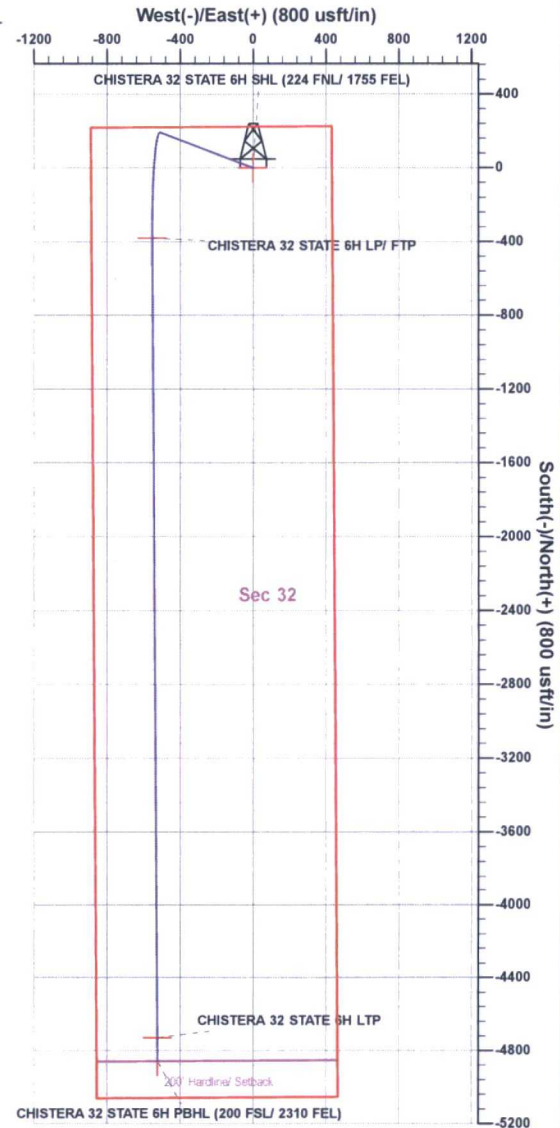
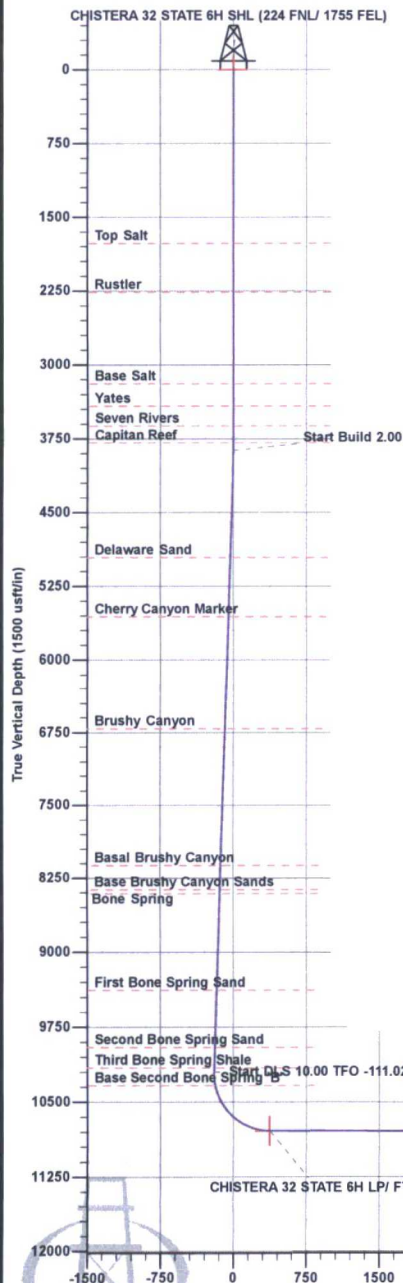
Rig Name: RKB = 22 @ 3643 00usft
Ground Level: 3621.00
+N/-S: 0.00 +E/-W: 0.00 Northing: 559370.70 Easting: 700717.80 Latitude: 32.536132 Longitude: -103.682033

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
CHISTERA 32 STATE 6H SHL (224 FNL/ 1755 FEL)	0.00	0.00	0.00	559370.70	700717.80	32.536132	-103.682033	Point
CHISTERA 32 STATE 6H LP/ FTP	10788.00	-379.30	-552.30	558991.40	700165.50	32.535099	-103.683833	Point
CHISTERA 32 STATE 6H LTP	10800.62	-4728.90	-523.60	554641.80	700194.20	32.523143	-103.683826	Point
CHISTERA 32 STATE 6H PBHL (200 FSL/ 2310 FEL)	10801.00	-4858.90	-522.80	554511.80	700195.00	32.522785	-103.683826	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	3870.00	0.00	0.00	3870.00	0.00	0.00	0.00	0.00	0.00
3	4120.18	5.00	290.70	4119.86	3.86	-10.21	2.00	290.70	-3.93
4	10222.59	5.00	290.70	10198.02	192.02	-508.09	0.00	0.00	-195.39
5	11138.91	89.83	179.62	10788.00	-379.30	-552.30	10.00	-111.02	375.63
6	15488.63	89.83	179.62	10800.62	-4728.90	-523.66	0.00	0.00	4725.32
7	15618.63	89.83	179.62	10801.00	-4858.90	-522.80	0.00	0.00	4855.33



FORMATION TOP DETAILS

TVDPATH	Formation
1766.00	Top Salt
2263.00	Rustler
3192.00	Base Salt
3419.00	Yates
3620.00	Seven Rivers
3790.00	Capitan Reef
4957.00	Delaware Sand
5561.00	Cherry Canyon Marker
6711.00	Brushy Canyon
8121.00	Basal Brushy Canyon
8369.00	Base Brushy Canyon Sands
8411.00	Bone Spring
9380.00	First Bone Spring Sand
9952.00	Second Bone Spring Sand
10158.00	Third Bone Spring Shale
10333.00	Base Second Bone Spring B

Vertical Section at 179.62° (1500 usft/in)

Plan: PERMIT (#6H/OH)

Created By: Matthew May Date: 8:53, February 07 2018

Note: All Plan details including boundary lines and offset well data is subject to customers approval



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Planning Report

Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Lea County, NM (NAD-27)
Site: CHISTERA 32 STATE
Well: #6H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference: Well #6H
TVD Reference: RKB = 22' @ 3643.00usft
MD Reference: RKB = 22' @ 3643.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Lea 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 CHISTERA 32 STATE

Site Position: Northing: 559,387.70 usft Latitude: 32.536199
From: Map Easting: 699,525.90 usft Longitude: -103.685901
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence: 0.35 °

Well #6H

Well Position +N/-S -17.00 usft Northing: 559,370.70 usft Latitude: 32.536132
+E/-W 1,191.90 usft Easting: 700,717.80 usft Longitude: -103.682034
Position Uncertainty 0.00 usft Wellhead Elevation: 0.00 usft Ground Level: 3,621.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/7/2018	6.96	60.32	48,044

Design PERMIT

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.62

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	0.00	
3,870.00	0.00	0.00	3,870.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,120.18	5.00	290.70	4,119.86	3.86	-10.21	2.00	2.00	0.00	290.70	
10,222.59	5.00	290.70	10,199.02	192.02	-508.09	0.00	0.00	0.00	0.00	
11,138.91	89.83	179.62	10,788.00	-379.30	-552.30	10.00	9.26	-12.12	-111.02	CHISTERA 32 STA
15,488.63	89.83	179.62	10,800.62	-4,728.90	-523.66	0.00	0.00	0.00	0.00	CHISTERA 32 STA
15,618.63	89.83	179.62	10,801.00	-4,858.90	-522.80	0.00	0.00	0.00	0.00	CHISTERA 32 STA



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #6H
Company:	XTO Energy	TVD Reference:	RKB = 22' @ 3643.00usft
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 22' @ 3643.00usft
Site:	CHISTERA 32 STATE	North Reference:	Grid
Well:	#6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
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
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
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
2,700.00	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
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
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
3,870.00	0.00	0.00	3,870.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.60	290.70	3,900.00	0.06	-0.15	-0.06	2.00	2.00	0.00
4,000.00	2.60	290.70	3,999.96	1.04	-2.76	-1.06	2.00	2.00	0.00
4,100.00	4.60	290.70	4,099.75	3.26	-8.63	-3.32	2.00	2.00	0.00
4,120.18	5.00	290.70	4,119.86	3.86	-10.21	-3.93	2.00	2.00	0.00
4,200.00	5.00	290.70	4,199.38	6.32	-16.72	-6.43	0.00	0.00	0.00
4,300.00	5.00	290.70	4,299.00	9.40	-24.88	-9.57	0.00	0.00	0.00
4,400.00	5.00	290.70	4,398.62	12.49	-33.04	-12.71	0.00	0.00	0.00
4,500.00	5.00	290.70	4,498.23	15.57	-41.20	-15.84	0.00	0.00	0.00
4,600.00	5.00	290.70	4,597.85	18.65	-49.36	-18.98	0.00	0.00	0.00
4,700.00	5.00	290.70	4,697.47	21.74	-57.52	-22.12	0.00	0.00	0.00
4,800.00	5.00	290.70	4,797.09	24.82	-65.68	-25.26	0.00	0.00	0.00
4,900.00	5.00	290.70	4,896.71	27.90	-73.83	-28.39	0.00	0.00	0.00
5,000.00	5.00	290.70	4,996.33	30.99	-81.99	-31.53	0.00	0.00	0.00
5,100.00	5.00	290.70	5,095.95	34.07	-90.15	-34.67	0.00	0.00	0.00



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Site:	CHISTERA 32 STATE	North Reference:	Grid
Well:	#6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
5,200.00	5.00	290.70	5,195.57	37.15	-98.31	-37.81	0.00	0.00	0.00
5,300.00	5.00	290.70	5,295.19	40.24	-106.47	-40.94	0.00	0.00	0.00
5,400.00	5.00	290.70	5,394.81	43.32	-114.63	-44.08	0.00	0.00	0.00
5,500.00	5.00	290.70	5,494.42	46.41	-122.79	-47.22	0.00	0.00	0.00
5,600.00	5.00	290.70	5,594.04	49.49	-130.95	-50.36	0.00	0.00	0.00
5,700.00	5.00	290.70	5,693.66	52.57	-139.10	-53.49	0.00	0.00	0.00
5,800.00	5.00	290.70	5,793.28	55.66	-147.26	-56.63	0.00	0.00	0.00
5,900.00	5.00	290.70	5,892.90	58.74	-155.42	-59.77	0.00	0.00	0.00
6,000.00	5.00	290.70	5,992.52	61.82	-163.58	-62.91	0.00	0.00	0.00
6,100.00	5.00	290.70	6,092.14	64.91	-171.74	-66.04	0.00	0.00	0.00
6,200.00	5.00	290.70	6,191.76	67.99	-179.90	-69.18	0.00	0.00	0.00
6,300.00	5.00	290.70	6,291.38	71.07	-188.06	-72.32	0.00	0.00	0.00
6,400.00	5.00	290.70	6,390.99	74.16	-196.21	-75.46	0.00	0.00	0.00
6,500.00	5.00	290.70	6,490.61	77.24	-204.37	-78.59	0.00	0.00	0.00
6,600.00	5.00	290.70	6,590.23	80.32	-212.53	-81.73	0.00	0.00	0.00
6,700.00	5.00	290.70	6,689.85	83.41	-220.69	-84.87	0.00	0.00	0.00
6,800.00	5.00	290.70	6,789.47	86.49	-228.85	-88.01	0.00	0.00	0.00
6,900.00	5.00	290.70	6,889.09	89.57	-237.01	-91.14	0.00	0.00	0.00
7,000.00	5.00	290.70	6,988.71	92.66	-245.17	-94.28	0.00	0.00	0.00
7,100.00	5.00	290.70	7,088.33	95.74	-253.32	-97.42	0.00	0.00	0.00
7,200.00	5.00	290.70	7,187.95	98.82	-261.48	-100.56	0.00	0.00	0.00
7,300.00	5.00	290.70	7,287.56	101.91	-269.64	-103.69	0.00	0.00	0.00
7,400.00	5.00	290.70	7,387.18	104.99	-277.80	-106.83	0.00	0.00	0.00
7,500.00	5.00	290.70	7,486.80	108.07	-285.96	-109.97	0.00	0.00	0.00
7,600.00	5.00	290.70	7,586.42	111.16	-294.12	-113.10	0.00	0.00	0.00
7,700.00	5.00	290.70	7,686.04	114.24	-302.28	-116.24	0.00	0.00	0.00
7,800.00	5.00	290.70	7,785.66	117.32	-310.44	-119.38	0.00	0.00	0.00
7,900.00	5.00	290.70	7,885.28	120.41	-318.59	-122.52	0.00	0.00	0.00
8,000.00	5.00	290.70	7,984.90	123.49	-326.75	-125.65	0.00	0.00	0.00
8,100.00	5.00	290.70	8,084.52	126.57	-334.91	-128.79	0.00	0.00	0.00
8,200.00	5.00	290.70	8,184.13	129.66	-343.07	-131.93	0.00	0.00	0.00
8,300.00	5.00	290.70	8,283.75	132.74	-351.23	-135.07	0.00	0.00	0.00
8,400.00	5.00	290.70	8,383.37	135.82	-359.39	-138.20	0.00	0.00	0.00
8,500.00	5.00	290.70	8,482.99	138.91	-367.55	-141.34	0.00	0.00	0.00
8,600.00	5.00	290.70	8,582.61	141.99	-375.70	-144.48	0.00	0.00	0.00
8,700.00	5.00	290.70	8,682.23	145.07	-383.86	-147.62	0.00	0.00	0.00
8,800.00	5.00	290.70	8,781.85	148.16	-392.02	-150.75	0.00	0.00	0.00
8,900.00	5.00	290.70	8,881.47	151.24	-400.18	-153.89	0.00	0.00	0.00
9,000.00	5.00	290.70	8,981.09	154.32	-408.34	-157.03	0.00	0.00	0.00
9,100.00	5.00	290.70	9,080.71	157.41	-416.50	-160.17	0.00	0.00	0.00
9,200.00	5.00	290.70	9,180.32	160.49	-424.66	-163.30	0.00	0.00	0.00
9,300.00	5.00	290.70	9,279.94	163.57	-432.81	-166.44	0.00	0.00	0.00
9,400.00	5.00	290.70	9,379.56	166.66	-440.97	-169.58	0.00	0.00	0.00
9,500.00	5.00	290.70	9,479.18	169.74	-449.13	-172.72	0.00	0.00	0.00
9,600.00	5.00	290.70	9,578.80	172.82	-457.29	-175.85	0.00	0.00	0.00
9,700.00	5.00	290.70	9,678.42	175.91	-465.45	-178.99	0.00	0.00	0.00
9,800.00	5.00	290.70	9,778.04	178.99	-473.61	-182.13	0.00	0.00	0.00
9,900.00	5.00	290.70	9,877.66	182.08	-481.77	-185.27	0.00	0.00	0.00
10,000.00	5.00	290.70	9,977.28	185.16	-489.93	-188.40	0.00	0.00	0.00
10,100.00	5.00	290.70	10,076.89	188.24	-498.08	-191.54	0.00	0.00	0.00
10,200.00	5.00	290.70	10,176.51	191.33	-506.24	-194.68	0.00	0.00	0.00
10,222.59	5.00	290.70	10,199.02	192.02	-508.09	-195.39	0.00	0.00	0.00
10,250.00	4.76	258.19	10,226.33	192.21	-510.32	-195.59	10.00	-0.88	-118.62
10,300.00	7.55	217.64	10,276.06	189.18	-514.36	-192.59	10.00	5.58	-81.10



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Planning Report

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Company: XTO Energy
Project: Lea County, NM (NAD-27)
Site: CHISTERA 32 STATE
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Design: PERMIT

Local Co-ordinate Reference: Well #6H
TVD Reference: RKB = 22' @ 3643.00usft
MD Reference: RKB = 22' @ 3643.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
10,350.00	11.89	202.45	10,325.34	181.82	-518.33	-185.25	10.00	8.67	-30.39
10,400.00	16.59	195.52	10,373.79	170.17	-522.21	-173.63	10.00	9.42	-13.86
10,450.00	21.43	191.62	10,421.05	154.33	-525.97	-157.82	10.00	9.68	-7.80
10,500.00	26.33	189.11	10,466.76	134.42	-529.56	-137.93	10.00	9.79	-5.02
10,550.00	31.26	187.34	10,510.56	110.60	-532.98	-114.13	10.00	9.86	-3.53
10,600.00	36.20	186.02	10,552.14	83.03	-536.19	-86.58	10.00	9.89	-2.65
10,650.00	41.16	184.97	10,591.15	51.93	-539.16	-55.50	10.00	9.91	-2.09
10,700.00	46.13	184.11	10,627.33	17.54	-541.88	-21.13	10.00	9.93	-1.71
10,750.00	51.10	183.39	10,660.38	-19.88	-544.33	16.27	10.00	9.94	-1.45
10,800.00	56.07	182.76	10,690.05	-60.04	-546.48	56.42	10.00	9.95	-1.26
10,850.00	61.05	182.20	10,716.12	-102.65	-548.32	99.01	10.00	9.95	-1.12
10,900.00	66.03	181.69	10,738.40	-147.37	-549.83	143.72	10.00	9.96	-1.02
10,950.00	71.01	181.22	10,756.70	-193.87	-551.01	190.21	10.00	9.96	-0.94
11,000.00	75.99	180.78	10,770.90	-241.79	-551.84	238.12	10.00	9.96	-0.89
11,050.00	80.97	180.35	10,780.88	-290.76	-552.32	287.09	10.00	9.97	-0.85
11,100.00	85.96	179.94	10,786.57	-340.42	-552.45	336.75	10.00	9.97	-0.83
11,138.91	89.83	179.62	10,788.00	-379.30	-552.30	375.63	10.00	9.97	-0.82
11,200.00	89.83	179.62	10,788.18	-440.38	-551.90	436.71	0.00	0.00	0.00
11,300.00	89.83	179.62	10,788.47	-540.38	-551.24	536.71	0.00	0.00	0.00
11,400.00	89.83	179.62	10,788.76	-640.38	-550.58	636.71	0.00	0.00	0.00
11,500.00	89.83	179.62	10,789.05	-740.38	-549.92	736.71	0.00	0.00	0.00
11,600.00	89.83	179.62	10,789.34	-840.37	-549.26	836.71	0.00	0.00	0.00
11,700.00	89.83	179.62	10,789.63	-940.37	-548.61	936.71	0.00	0.00	0.00
11,800.00	89.83	179.62	10,789.92	-1,040.37	-547.95	1,036.71	0.00	0.00	0.00
11,900.00	89.83	179.62	10,790.21	-1,140.37	-547.29	1,136.71	0.00	0.00	0.00
12,000.00	89.83	179.62	10,790.50	-1,240.36	-546.63	1,236.71	0.00	0.00	0.00
12,100.00	89.83	179.62	10,790.79	-1,340.36	-545.97	1,336.71	0.00	0.00	0.00
12,200.00	89.83	179.62	10,791.08	-1,440.36	-545.31	1,436.71	0.00	0.00	0.00
12,300.00	89.83	179.62	10,791.37	-1,540.36	-544.65	1,536.71	0.00	0.00	0.00
12,400.00	89.83	179.62	10,791.66	-1,640.35	-544.00	1,636.71	0.00	0.00	0.00
12,500.00	89.83	179.62	10,791.95	-1,740.35	-543.34	1,736.71	0.00	0.00	0.00
12,600.00	89.83	179.62	10,792.24	-1,840.35	-542.68	1,836.71	0.00	0.00	0.00
12,700.00	89.83	179.62	10,792.53	-1,940.35	-542.02	1,936.71	0.00	0.00	0.00
12,800.00	89.83	179.62	10,792.82	-2,040.34	-541.36	2,036.71	0.00	0.00	0.00
12,900.00	89.83	179.62	10,793.11	-2,140.34	-540.70	2,136.71	0.00	0.00	0.00
13,000.00	89.83	179.62	10,793.40	-2,240.34	-540.04	2,236.71	0.00	0.00	0.00
13,100.00	89.83	179.62	10,793.69	-2,340.34	-539.39	2,336.71	0.00	0.00	0.00
13,200.00	89.83	179.62	10,793.98	-2,440.33	-538.73	2,436.71	0.00	0.00	0.00
13,300.00	89.83	179.62	10,794.27	-2,540.33	-538.07	2,536.71	0.00	0.00	0.00
13,400.00	89.83	179.62	10,794.56	-2,640.33	-537.41	2,636.71	0.00	0.00	0.00
13,500.00	89.83	179.62	10,794.85	-2,740.32	-536.75	2,736.70	0.00	0.00	0.00
13,600.00	89.83	179.62	10,795.14	-2,840.32	-536.09	2,836.70	0.00	0.00	0.00
13,700.00	89.83	179.62	10,795.43	-2,940.32	-535.43	2,936.70	0.00	0.00	0.00
13,800.00	89.83	179.62	10,795.72	-3,040.32	-534.78	3,036.70	0.00	0.00	0.00
13,900.00	89.83	179.62	10,796.01	-3,140.31	-534.12	3,136.70	0.00	0.00	0.00
14,000.00	89.83	179.62	10,796.30	-3,240.31	-533.46	3,236.70	0.00	0.00	0.00
14,100.00	89.83	179.62	10,796.59	-3,340.31	-532.80	3,336.70	0.00	0.00	0.00
14,200.00	89.83	179.62	10,796.88	-3,440.31	-532.14	3,436.70	0.00	0.00	0.00
14,300.00	89.83	179.62	10,797.17	-3,540.30	-531.48	3,536.70	0.00	0.00	0.00
14,400.00	89.83	179.62	10,797.46	-3,640.30	-530.82	3,636.70	0.00	0.00	0.00
14,500.00	89.83	179.62	10,797.75	-3,740.30	-530.17	3,736.70	0.00	0.00	0.00
14,600.00	89.83	179.62	10,798.04	-3,840.30	-529.51	3,836.70	0.00	0.00	0.00
14,700.00	89.83	179.62	10,798.33	-3,940.29	-528.85	3,936.70	0.00	0.00	0.00
14,800.00	89.83	179.62	10,798.62	-4,040.29	-528.19	4,036.70	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #6H
Company:	XTO Energy	TVD Reference:	RKB = 22' @ 3643.00usft
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 22' @ 3643.00usft
Site:	CHISTERA 32 STATE	North Reference:	Grid
Well:	#6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
14,900.00	89.83	179.62	10,798.91	-4,140.29	-527.53	4,136.70	0.00	0.00	0.00
15,000.00	89.83	179.62	10,799.20	-4,240.29	-526.87	4,236.70	0.00	0.00	0.00
15,100.00	89.83	179.62	10,799.50	-4,340.28	-526.22	4,336.70	0.00	0.00	0.00
15,200.00	89.83	179.62	10,799.79	-4,440.28	-525.56	4,436.70	0.00	0.00	0.00
15,300.00	89.83	179.62	10,800.08	-4,540.28	-524.90	4,536.70	0.00	0.00	0.00
15,400.00	89.83	179.62	10,800.37	-4,640.28	-524.24	4,636.70	0.00	0.00	0.00
15,488.63	89.83	179.62	10,800.62	-4,728.90	-523.66	4,725.32	0.00	0.00	0.00
15,500.00	89.83	179.62	10,800.66	-4,740.27	-523.58	4,736.70	0.00	0.00	0.00
15,600.00	89.83	179.62	10,800.95	-4,840.27	-522.92	4,836.70	0.00	0.00	0.00
15,618.63	89.83	179.62	10,801.00	-4,858.90	-522.80	4,855.33	0.00	0.00	0.00

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
CHISTERA 32 STATE - plan hits target center - Point	0.00	0.01	0.00	0.00	0.00	559,370.70	700,717.80	32.536132	-103.682034
CHISTERA 32 STATE - plan hits target center - Point	0.00	0.01	10,788.00	-379.30	-552.30	558,991.40	700,165.50	32.535099	-103.683833
CHISTERA 32 STATE - plan misses target center by 0.06usft at 15488.63usft MD (10800.62 TVD, -4728.90 N, -523.66 E) - Point	0.00	0.01	10,800.62	-4,728.90	-523.60	554,641.80	700,194.20	32.523143	-103.683826
CHISTERA 32 STATE - plan hits target center - Point	0.00	0.01	10,801.00	-4,858.90	-522.80	554,511.80	700,195.00	32.522785	-103.683826



Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Lea County, NM (NAD-27)
Site: CHISTERA 32 STATE
Well: #6H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference: Well #6H
TVD Reference: RKB = 22' @ 3643.00usft
MD Reference: RKB = 22' @ 3643.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,766.00	1,766.00	Top Salt			
2,263.00	2,263.00	Rustler			
3,192.00	3,192.00	Base Salt			
3,419.00	3,419.00	Yates			
3,620.00	3,620.00	Seven Rivers			
3,790.00	3,790.00	Capitan Reef			
4,960.52	4,957.00	Delaware Sand			
5,566.83	5,561.00	Cherry Canyon Marker			
6,721.23	6,711.00	Brushy Canyon			
8,136.62	8,121.00	Basal Brushy Canyon			
8,385.57	8,369.00	Base Brushy Canyon Sands			
8,427.73	8,411.00	Bone Spring			
9,400.44	9,380.00	First Bone Spring Sand			
9,974.63	9,952.00	Second Bone Spring Sand			
10,181.42	10,158.00	Third Bone Spring Shale			
10,357.84	10,333.00	Base Second Bone Spring 'B'			