

30-025-44504



XTO Energy

Lea County, NM (NAD-27)

CHISTERA 32 STATE

#7H

OH

Plan: PERMIT

Standard Planning Report

07 February, 2018

HOBBS OCD
FEB 19 2018
RECEIVED



Project: Lea County, NM (NAD-27)
Site: CHISTERA 32 STATE
Well: #7H
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: #7H

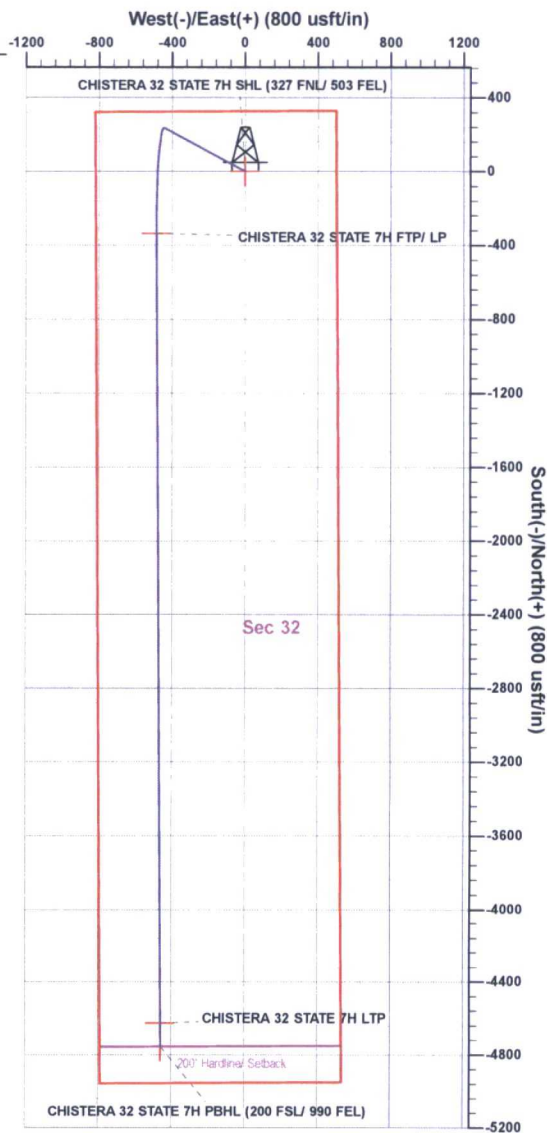
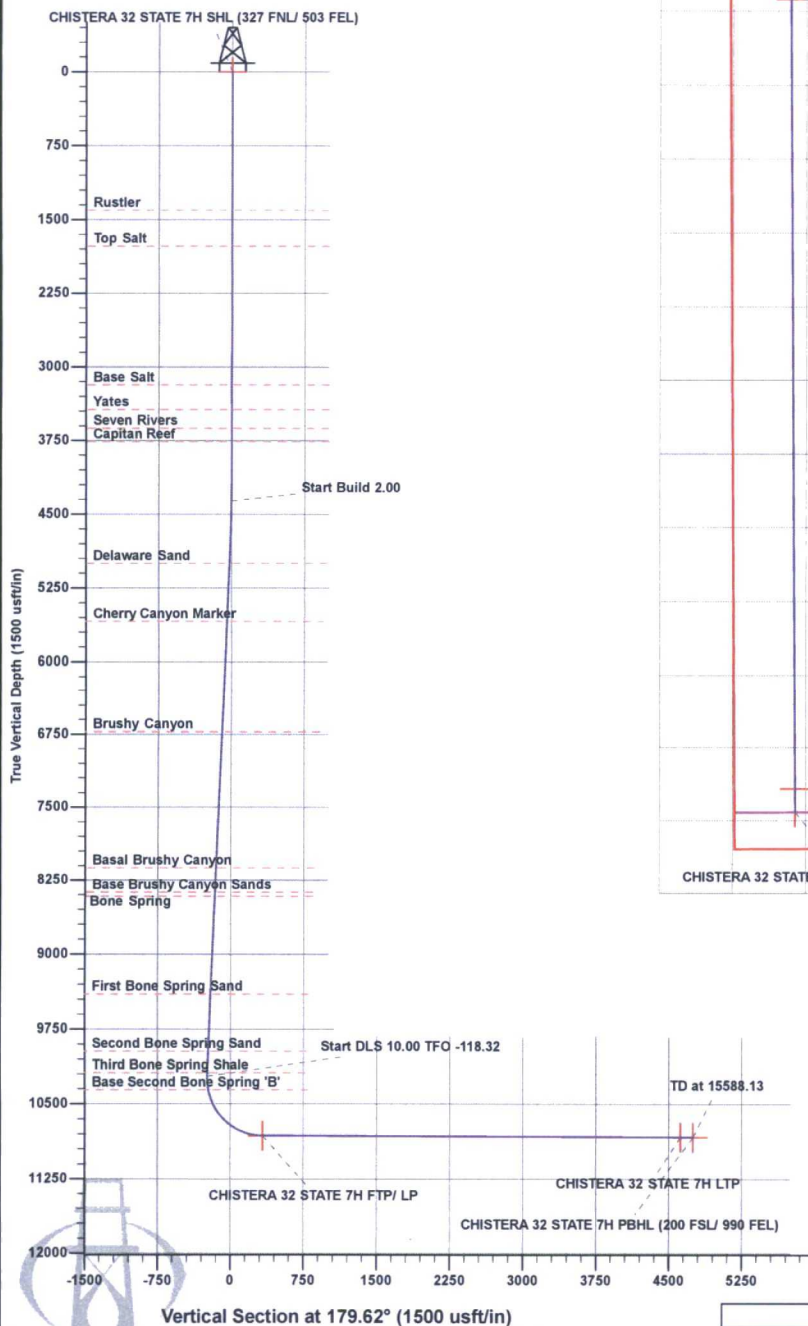
Rig Name: RKB - 12 @ 3634.00usft
Ground Level: 3622.00
+N/-S: 0.00 +E/-W: 0.00 Northing: 559274.30 Easting: 701970.90 Latitude: 32.535846 Longitude: -103.677969

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
CHISTERA 32 STATE 7H SHL (327 FNL/ 503 FEL)	0.00	0.00	0.00	559274.30	701970.90	32.535846	-103.677969	Point
CHISTERA 32 STATE 7H FTP/ LP	10819.00	-335.40	-485.00	558938.90	701485.90	32.534932	-103.679550	Point
CHISTERA 32 STATE 7H LTP	10830.65	-4625.40	-458.80	554648.90	701514.10	32.523140	-103.679544	Point
CHISTERA 32 STATE 7H PBHL (200 FSL/ 990 FEL)	10831.00	-4755.40	-455.90	554518.90	701515.00	32.522783	-103.679543	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	D/leg	TFace	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	4365.00	0.00	0.00	4365.00	0.00	0.00	0.00	0.00	0.00
3	4615.13	5.00	298.02	4614.81	5.13	-9.63	2.00	298.02	-5.19
4	10245.80	5.00	298.02	10224.03	235.80	-44.07	0.00	0.00	-238.74
5	11168.02	89.84	179.62	10819.00	-335.40	-485.00	10.00	-118.32	332.18
6	15458.13	89.84	179.62	10830.65	-4625.40	-458.80	0.00	0.00	4622.27
7	15588.13	89.84	179.62	10831.00	-4755.40	-455.90	0.00	0.00	4752.27



FORMATION TOP DETAILS

TVDPath	Formation
1405.00	Rustler
1769.00	Top Salt
3183.00	Base Salt
3435.00	Yates
3624.00	Seven Rivers
3761.00	Capitan Reef
4999.00	Delaware Sand
5589.00	Cherry Canyon Marker
6724.00	Brushy Canyon
8122.00	Basal Brushy Canyon
8374.00	Base Brushy Canyon Sands
8416.00	Bone Spring
9398.00	First Bone Spring Sand
9970.00	Second Bone Spring Sand
10186.00	Third Bone Spring Shale
10361.00	Base Second Bone Spring 'B'

Vertical Section at 179.62° (1500 usft/in)

Plan: PERMIT (#7H/OH)

Created By: Matthew May Date: 9:02, February 07 2018

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



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #7H
Company:	XTO Energy	TVD Reference:	RKB = 12' @ 3634.00usft
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 12' @ 3634.00usft
Site:	CHISTERA 32 STATE	North Reference:	Grid
Well:	#7H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PERMIT		

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

Well	#7H		
Well Position	+N/-S	-113.40 usft	Northing: 559,274.30 usft
	+E/-W	2,445.00 usft	Easting: 701,970.90 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.535846
		Longitude:	-103.677970
		Ground Level:	3,622.00 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	
4,365.00	0.00	0.00	4,365.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,615.13	5.00	298.02	4,614.81	5.13	-9.63	2.00	2.00	0.00	298.02	
10,245.80	5.00	298.02	10,224.03	235.80	-443.07	0.00	0.00	0.00	0.00	
11,168.02	89.84	179.62	10,819.00	-335.40	-485.00	10.00	9.20	-12.84	-118.32	CHISTERA 32 STA
15,458.13	89.84	179.62	10,830.65	-4,625.40	-456.76	0.00	0.00	0.00	0.00	CHISTERA 32 STA
15,588.13	89.84	179.62	10,831.00	-4,755.40	-455.90	0.00	0.00	0.00	0.00	CHISTERA 32 STA



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 Company: XTO Energy
 Project: Lea County, NM (NAD-27)
 Site: CHISTERA 32 STATE
 Well: #7H
 Wellbore: OH
 Design: PERMIT

Local Co-ordinate Reference: Well #7H
 TVD Reference: RKB = 12' @ 3634.00usft
 MD Reference: RKB = 12' @ 3634.00usft
 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)
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
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
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
4,365.00	0.00	0.00	4,365.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.70	298.02	4,400.00	0.10	-0.19	-0.10	2.00	2.00	0.00
4,500.00	2.70	298.02	4,499.95	1.49	-2.81	-1.51	2.00	2.00	0.00
4,600.00	4.70	298.02	4,599.74	4.53	-8.50	-4.58	2.00	2.00	0.00
4,615.13	5.00	298.02	4,614.81	5.13	-9.63	-5.19	2.00	2.00	0.00
4,700.00	5.00	298.02	4,699.36	8.60	-16.17	-8.71	0.00	0.00	0.00
4,800.00	5.00	298.02	4,798.98	12.70	-23.86	-12.86	0.00	0.00	0.00
4,900.00	5.00	298.02	4,898.60	16.80	-31.56	-17.01	0.00	0.00	0.00
5,000.00	5.00	298.02	4,998.22	20.89	-39.26	-21.15	0.00	0.00	0.00
5,100.00	5.00	298.02	5,097.84	24.99	-46.96	-25.30	0.00	0.00	0.00



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Site:	CHISTERA 32 STATE	North Reference:	Grid
Well:	#7H	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	298.02	5,197.45	29.09	-54.66	-29.45	0.00	0.00	0.00
5,300.00	5.00	298.02	5,297.07	33.18	-62.35	-33.60	0.00	0.00	0.00
5,400.00	5.00	298.02	5,396.69	37.28	-70.05	-37.74	0.00	0.00	0.00
5,500.00	5.00	298.02	5,496.31	41.38	-77.75	-41.89	0.00	0.00	0.00
5,600.00	5.00	298.02	5,595.93	45.47	-85.45	-46.04	0.00	0.00	0.00
5,700.00	5.00	298.02	5,695.55	49.57	-93.14	-50.19	0.00	0.00	0.00
5,800.00	5.00	298.02	5,795.17	53.67	-100.84	-54.34	0.00	0.00	0.00
5,900.00	5.00	298.02	5,894.79	57.77	-108.54	-58.48	0.00	0.00	0.00
6,000.00	5.00	298.02	5,994.41	61.86	-116.24	-62.63	0.00	0.00	0.00
6,100.00	5.00	298.02	6,094.03	65.96	-123.94	-66.78	0.00	0.00	0.00
6,200.00	5.00	298.02	6,193.65	70.06	-131.63	-70.93	0.00	0.00	0.00
6,300.00	5.00	298.02	6,293.26	74.15	-139.33	-75.07	0.00	0.00	0.00
6,400.00	5.00	298.02	6,392.88	78.25	-147.03	-79.22	0.00	0.00	0.00
6,500.00	5.00	298.02	6,492.50	82.35	-154.73	-83.37	0.00	0.00	0.00
6,600.00	5.00	298.02	6,592.12	86.44	-162.42	-87.52	0.00	0.00	0.00
6,700.00	5.00	298.02	6,691.74	90.54	-170.12	-91.67	0.00	0.00	0.00
6,800.00	5.00	298.02	6,791.36	94.64	-177.82	-95.81	0.00	0.00	0.00
6,900.00	5.00	298.02	6,890.98	98.73	-185.52	-99.96	0.00	0.00	0.00
7,000.00	5.00	298.02	6,990.60	102.83	-193.22	-104.11	0.00	0.00	0.00
7,100.00	5.00	298.02	7,090.22	106.93	-200.91	-108.26	0.00	0.00	0.00
7,200.00	5.00	298.02	7,189.84	111.02	-208.61	-112.40	0.00	0.00	0.00
7,300.00	5.00	298.02	7,289.46	115.12	-216.31	-116.55	0.00	0.00	0.00
7,400.00	5.00	298.02	7,389.07	119.22	-224.01	-120.70	0.00	0.00	0.00
7,500.00	5.00	298.02	7,488.69	123.31	-231.71	-124.85	0.00	0.00	0.00
7,600.00	5.00	298.02	7,588.31	127.41	-239.40	-129.00	0.00	0.00	0.00
7,700.00	5.00	298.02	7,687.93	131.51	-247.10	-133.14	0.00	0.00	0.00
7,800.00	5.00	298.02	7,787.55	135.60	-254.80	-137.29	0.00	0.00	0.00
7,900.00	5.00	298.02	7,887.17	139.70	-262.50	-141.44	0.00	0.00	0.00
8,000.00	5.00	298.02	7,986.79	143.80	-270.19	-145.59	0.00	0.00	0.00
8,100.00	5.00	298.02	8,086.41	147.89	-277.89	-149.73	0.00	0.00	0.00
8,200.00	5.00	298.02	8,186.03	151.99	-285.59	-153.88	0.00	0.00	0.00
8,300.00	5.00	298.02	8,285.65	156.09	-293.29	-158.03	0.00	0.00	0.00
8,400.00	5.00	298.02	8,385.27	160.18	-300.99	-162.18	0.00	0.00	0.00
8,500.00	5.00	298.02	8,484.88	164.28	-308.68	-166.32	0.00	0.00	0.00
8,600.00	5.00	298.02	8,584.50	168.38	-316.38	-170.47	0.00	0.00	0.00
8,700.00	5.00	298.02	8,684.12	172.47	-324.08	-174.62	0.00	0.00	0.00
8,800.00	5.00	298.02	8,783.74	176.57	-331.78	-178.77	0.00	0.00	0.00
8,900.00	5.00	298.02	8,883.36	180.67	-339.47	-182.92	0.00	0.00	0.00
9,000.00	5.00	298.02	8,982.98	184.76	-347.17	-187.06	0.00	0.00	0.00
9,100.00	5.00	298.02	9,082.60	188.86	-354.87	-191.21	0.00	0.00	0.00
9,200.00	5.00	298.02	9,182.22	192.96	-362.57	-195.36	0.00	0.00	0.00
9,300.00	5.00	298.02	9,281.84	197.06	-370.27	-199.51	0.00	0.00	0.00
9,400.00	5.00	298.02	9,381.46	201.15	-377.96	-203.65	0.00	0.00	0.00
9,500.00	5.00	298.02	9,481.07	205.25	-385.66	-207.80	0.00	0.00	0.00
9,600.00	5.00	298.02	9,580.69	209.35	-393.36	-211.95	0.00	0.00	0.00
9,700.00	5.00	298.02	9,680.31	213.44	-401.06	-216.10	0.00	0.00	0.00
9,800.00	5.00	298.02	9,779.93	217.54	-408.75	-220.25	0.00	0.00	0.00
9,900.00	5.00	298.02	9,879.55	221.64	-416.45	-224.39	0.00	0.00	0.00
10,000.00	5.00	298.02	9,979.17	225.73	-424.15	-228.54	0.00	0.00	0.00
10,100.00	5.00	298.02	10,078.79	229.83	-431.85	-232.69	0.00	0.00	0.00
10,200.00	5.00	298.02	10,178.41	233.93	-439.55	-236.84	0.00	0.00	0.00
10,245.80	5.00	298.02	10,224.03	235.80	-443.07	-238.74	0.00	0.00	0.00
10,250.00	4.82	293.61	10,228.22	235.96	-443.39	-238.89	10.00	-4.41	-104.92
10,300.00	5.35	234.91	10,278.05	235.46	-447.23	-238.42	10.00	1.06	-117.40



Database: EDM 5000.1 Single User Db
 Company: XTO Energy
 Project: Lea County, NM (NAD-27)
 Site: CHISTERA 32 STATE
 Well: #7H
 Wellbore: OH
 Design: PERMIT

Local Co-ordinate Reference: Well #7H
 TVD Reference: RKB = 12' @ 3634.00usft
 MD Reference: RKB = 12' @ 3634.00usft
 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	9.16	208.13	10,327.66	230.61	-451.01	-233.59	10.00	7.62	-53.58
10,400.00	13.75	197.95	10,376.65	221.44	-454.72	-224.45	10.00	9.18	-20.36
10,450.00	18.55	192.87	10,424.67	208.02	-458.33	-211.05	10.00	9.60	-10.15
10,500.00	23.44	189.84	10,471.33	190.46	-461.80	-193.51	10.00	9.76	-6.06
10,550.00	28.36	187.81	10,516.30	168.88	-465.12	-171.96	10.00	9.84	-4.06
10,600.00	33.30	186.34	10,559.22	143.46	-468.25	-146.56	10.00	9.89	-2.94
10,650.00	38.26	185.21	10,599.77	114.38	-471.18	-117.50	10.00	9.91	-2.26
10,700.00	43.22	184.31	10,637.65	81.87	-473.87	-85.01	10.00	9.93	-1.81
10,750.00	48.19	183.56	10,672.55	46.18	-476.32	-49.34	10.00	9.94	-1.50
10,800.00	53.17	182.92	10,704.22	7.57	-478.49	-10.74	10.00	9.95	-1.29
10,850.00	58.15	182.35	10,732.42	-33.66	-480.38	30.47	10.00	9.96	-1.13
10,900.00	63.13	181.85	10,756.93	-77.19	-481.97	73.99	10.00	9.96	-1.01
10,950.00	68.11	181.38	10,777.56	-122.70	-483.25	119.49	10.00	9.96	-0.93
11,000.00	73.09	180.95	10,794.16	-169.84	-484.21	166.62	10.00	9.97	-0.86
11,050.00	78.08	180.54	10,806.61	-218.24	-484.84	215.02	10.00	9.97	-0.82
11,100.00	83.06	180.15	10,814.80	-267.55	-485.14	264.33	10.00	9.97	-0.79
11,150.00	88.05	179.76	10,818.67	-317.39	-485.10	314.16	10.00	9.97	-0.77
11,168.02	89.84	179.62	10,819.00	-335.40	-485.00	332.18	10.00	9.97	-0.77
11,200.00	89.84	179.62	10,819.09	-367.38	-484.79	364.16	0.00	0.00	0.00
11,300.00	89.84	179.62	10,819.36	-467.38	-484.13	464.16	0.00	0.00	0.00
11,400.00	89.84	179.62	10,819.63	-567.38	-483.47	564.16	0.00	0.00	0.00
11,500.00	89.84	179.62	10,819.90	-667.37	-482.81	664.16	0.00	0.00	0.00
11,600.00	89.84	179.62	10,820.17	-767.37	-482.16	764.16	0.00	0.00	0.00
11,700.00	89.84	179.62	10,820.44	-867.37	-481.50	864.16	0.00	0.00	0.00
11,800.00	89.84	179.62	10,820.72	-967.37	-480.84	964.16	0.00	0.00	0.00
11,900.00	89.84	179.62	10,820.99	-1,067.36	-480.18	1,064.16	0.00	0.00	0.00
12,000.00	89.84	179.62	10,821.26	-1,167.36	-479.52	1,164.15	0.00	0.00	0.00
12,100.00	89.84	179.62	10,821.53	-1,267.36	-478.86	1,264.15	0.00	0.00	0.00
12,200.00	89.84	179.62	10,821.80	-1,367.36	-478.21	1,364.15	0.00	0.00	0.00
12,300.00	89.84	179.62	10,822.07	-1,467.35	-477.55	1,464.15	0.00	0.00	0.00
12,400.00	89.84	179.62	10,822.34	-1,567.35	-476.89	1,564.15	0.00	0.00	0.00
12,500.00	89.84	179.62	10,822.62	-1,667.35	-476.23	1,664.15	0.00	0.00	0.00
12,600.00	89.84	179.62	10,822.89	-1,767.35	-475.57	1,764.15	0.00	0.00	0.00
12,700.00	89.84	179.62	10,823.16	-1,867.34	-474.91	1,864.15	0.00	0.00	0.00
12,800.00	89.84	179.62	10,823.43	-1,967.34	-474.26	1,964.15	0.00	0.00	0.00
12,900.00	89.84	179.62	10,823.70	-2,067.34	-473.60	2,064.15	0.00	0.00	0.00
13,000.00	89.84	179.62	10,823.97	-2,167.34	-472.94	2,164.15	0.00	0.00	0.00
13,100.00	89.84	179.62	10,824.25	-2,267.33	-472.28	2,264.15	0.00	0.00	0.00
13,200.00	89.84	179.62	10,824.52	-2,367.33	-471.62	2,364.15	0.00	0.00	0.00
13,300.00	89.84	179.62	10,824.79	-2,467.33	-470.96	2,464.15	0.00	0.00	0.00
13,400.00	89.84	179.62	10,825.06	-2,567.33	-470.31	2,564.15	0.00	0.00	0.00
13,500.00	89.84	179.62	10,825.33	-2,667.32	-469.65	2,664.15	0.00	0.00	0.00
13,600.00	89.84	179.62	10,825.60	-2,767.32	-468.99	2,764.15	0.00	0.00	0.00
13,700.00	89.84	179.62	10,825.87	-2,867.32	-468.33	2,864.15	0.00	0.00	0.00
13,800.00	89.84	179.62	10,826.15	-2,967.32	-467.67	2,964.15	0.00	0.00	0.00
13,900.00	89.84	179.62	10,826.42	-3,067.31	-467.01	3,064.15	0.00	0.00	0.00
14,000.00	89.84	179.62	10,826.69	-3,167.31	-466.36	3,164.15	0.00	0.00	0.00
14,100.00	89.84	179.62	10,826.96	-3,267.31	-465.70	3,264.15	0.00	0.00	0.00
14,200.00	89.84	179.62	10,827.23	-3,367.31	-465.04	3,364.15	0.00	0.00	0.00
14,300.00	89.84	179.62	10,827.50	-3,467.30	-464.38	3,464.15	0.00	0.00	0.00
14,400.00	89.84	179.62	10,827.77	-3,567.30	-463.72	3,564.15	0.00	0.00	0.00
14,500.00	89.84	179.62	10,828.05	-3,667.30	-463.06	3,664.15	0.00	0.00	0.00
14,600.00	89.84	179.62	10,828.32	-3,767.29	-462.41	3,764.15	0.00	0.00	0.00
14,700.00	89.84	179.62	10,828.59	-3,867.29	-461.75	3,864.14	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #7H
Company:	XTO Energy	TVD Reference:	RKB = 12' @ 3634.00usft
Project:	Lea County, NM (NAD-27)	MD Reference:	RKB = 12' @ 3634.00usft
Site:	CHISTERA 32 STATE	North Reference:	Grid
Well:	#7H	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)	
14,800.00	89.84	179.62	10,828.86	-3,967.29	-461.09	3,964.14	0.00	0.00	0.00	
14,900.00	89.84	179.62	10,829.13	-4,067.29	-460.43	4,064.14	0.00	0.00	0.00	
15,000.00	89.84	179.62	10,829.40	-4,167.28	-459.77	4,164.14	0.00	0.00	0.00	
15,100.00	89.84	179.62	10,829.68	-4,267.28	-459.11	4,264.14	0.00	0.00	0.00	
15,200.00	89.84	179.62	10,829.95	-4,367.28	-458.46	4,364.14	0.00	0.00	0.00	
15,300.00	89.84	179.62	10,830.22	-4,467.28	-457.80	4,464.14	0.00	0.00	0.00	
15,400.00	89.84	179.62	10,830.49	-4,567.27	-457.14	4,564.14	0.00	0.00	0.00	
15,458.13	89.84	179.62	10,830.65	-4,625.40	-456.76	4,622.27	0.00	0.00	0.00	
15,500.00	89.84	179.62	10,830.76	-4,667.27	-456.48	4,664.14	0.00	0.00	0.00	
15,588.13	89.84	179.62	10,831.00	-4,755.40	-455.90	4,752.27	0.00	0.00	0.00	

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										
CHISTERA 32 STATE	0.00	0.00	0.00	0.00	0.00	559,274.30	701,970.90	32.535846	-103.677970	
- plan hits target center										
- Point										
CHISTERA 32 STATE	0.00	0.00	10,819.00	-335.40	-485.00	558,938.90	701,485.90	32.534932	-103.679550	
- plan hits target center										
- Point										
CHISTERA 32 STATE	0.00	0.00	10,830.65	-4,625.40	-456.80	554,648.90	701,514.10	32.523140	-103.679544	
- plan misses target center by 0.04usft at 15458.13usft MD (10830.65 TVD, -4625.40 N, -456.76 E)										
- Point										
CHISTERA 32 STATE	0.00	0.00	10,831.00	-4,755.40	-455.90	554,518.90	701,515.00	32.522783	-103.679543	
- plan hits target center										
- Point										



Database: EDM 5000.1 Single User Db
Company: XTO Energy
Project: Lea County, NM (NAD-27)
Site: CHISTERA 32 STATE
Well: #7H
Wellbore: OH
Design: PERMIT

Local Co-ordinate Reference: Well #7H
TVD Reference: RKB = 12' @ 3634.00usft
MD Reference: RKB = 12' @ 3634.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,405.00	1,405.00	Rustler			
1,769.00	1,769.00	Top Salt			
3,183.00	3,183.00	Base Salt			
3,435.00	3,435.00	Yates			
3,624.00	3,624.00	Seven Rivers			
3,761.00	3,761.00	Capitan Reef			
5,000.79	4,999.00	Delaware Sand			
5,593.04	5,589.00	Cherry Canyon Marker			
6,732.38	6,724.00	Brushy Canyon			
8,135.73	8,122.00	Basal Brushy Canyon			
8,388.69	8,374.00	Base Brushy Canyon Sands			
8,430.85	8,416.00	Bone Spring			
9,416.61	9,398.00	First Bone Spring Sand			
9,990.80	9,970.00	Second Bone Spring Sand			
10,207.62	10,186.00	Third Bone Spring Shale			
10,383.94	10,361.00	Base Second Bone Spring 'B'			