



XTO Energy

Eddy County, NM (Nad-27 / East Zone)

Ross Draw 25-36 Fed West

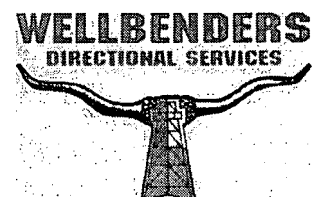
#122H

OH

Plan: Plan #2

Standard Planning Report

01 May, 2019





Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #122H
Company:	XTO Energy	TVD Reference:	RKB = 23' @ 2965.00usft (Frontier 17)
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB = 23' @ 2965.00usft (Frontier 17)
Site:	Ross Draw 25-36 Fed West	North Reference:	Grid
Well:	#122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Project	Eddy County, NM (Nad-27 / East Zone)		
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	Ross Draw 25-36 Fed West			
Site Position:		Northing:	364,267.02 usft	Latitude: 32.000890
From:	Lat/Long	Easting:	620,303.02 usft	Longitude: -103.945250
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence: 0.206 °

Well	#122H			
Well Position	+N/-S	7,083.97 usft	Northing:	371,351.00 usft
	+E/-W	973.09 usft	Easting:	621,276.10 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:	2,942.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	04/25/19	6.910	59.793	47,591.42364466

Design	Plan #2			
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	183.55

Plan Survey Tool Program		Date 05/01/19		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,387.73 Plan #2 (OH)	WBDS_IGRF	
			OWSG MWD + IGRF or W	



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Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,057.96	3.58	76.87	1,057.72	2.54	10.89	1.00	1.00	0.00	76.868	
4,940.05	3.58	76.87	4,932.25	57.61	246.92	0.00	0.00	0.00	0.000	
5,298.01	0.00	187.00	5,289.97	60.15	257.81	1.00	-1.00	0.00	180.000	
9,703.01	0.00	187.00	9,694.97	60.15	257.81	0.00	0.00	0.00	0.000	
10,203.01	40.00	187.00	10,155.33	-106.16	237.39	8.00	8.00	0.00	0.000	
10,703.01	90.00	187.00	10,360.00	-541.80	183.90	10.00	10.00	0.00	0.000	RD25-36#122: FTP
11,253.01	90.00	187.00	10,360.00	-1,087.70	116.87	0.00	0.00	0.00	0.000	
11,758.01	90.00	176.90	10,360.00	-1,591.75	99.71	2.00	0.00	-2.00	-90.000	
12,090.73	90.00	183.55	10,360.00	-1,924.28	98.39	2.00	0.00	2.00	90.000	
17,387.73	90.00	183.55	10,360.00	-7,211.10	-230.00	0.00	0.00	0.00	0.000	RD25-36#122: PBH



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Site:	Ross Draw 25-36 Fed West	North Reference:	Grid
Well:	#122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned 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
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
420.00	0.00	0.00	420.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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	1.00	76.87	799.99	0.20	0.85	-0.25	1.00	1.00	0.00
900.00	2.00	76.87	899.96	0.79	3.40	-1.00	1.00	1.00	0.00
1,000.00	3.00	76.87	999.86	1.78	7.65	-2.25	1.00	1.00	0.00
1,057.96	3.58	76.87	1,057.72	2.54	10.89	-3.21	1.00	1.00	0.00
1,100.00	3.58	76.87	1,099.69	3.14	13.44	-3.96	0.00	0.00	0.00
1,200.00	3.58	76.87	1,199.49	4.55	19.52	-5.75	0.00	0.00	0.00
1,263.63	3.58	76.87	1,263.00	5.46	23.39	-6.90	0.00	0.00	0.00
Top Salt									
1,300.00	3.58	76.87	1,299.30	5.97	25.60	-7.55	0.00	0.00	0.00
1,400.00	3.58	76.87	1,399.10	7.39	31.68	-9.34	0.00	0.00	0.00
1,500.00	3.58	76.87	1,498.90	8.81	37.76	-11.13	0.00	0.00	0.00
1,600.00	3.58	76.87	1,598.71	10.23	43.84	-12.92	0.00	0.00	0.00
1,700.00	3.58	76.87	1,698.51	11.65	49.92	-14.72	0.00	0.00	0.00
1,800.00	3.58	76.87	1,798.32	13.07	56.00	-16.51	0.00	0.00	0.00
1,900.00	3.58	76.87	1,898.12	14.48	62.08	-18.30	0.00	0.00	0.00
2,000.00	3.58	76.87	1,997.93	15.90	68.16	-20.09	0.00	0.00	0.00
2,100.00	3.58	76.87	2,097.73	17.32	74.24	-21.89	0.00	0.00	0.00
2,200.00	3.58	76.87	2,197.54	18.74	80.32	-23.68	0.00	0.00	0.00
2,300.00	3.58	76.87	2,297.34	20.16	86.40	-25.47	0.00	0.00	0.00
2,400.00	3.58	76.87	2,397.15	21.58	92.48	-27.26	0.00	0.00	0.00
2,500.00	3.58	76.87	2,496.95	23.00	98.56	-29.05	0.00	0.00	0.00
2,600.00	3.58	76.87	2,596.76	24.41	104.64	-30.85	0.00	0.00	0.00
2,700.00	3.58	76.87	2,696.56	25.83	110.72	-32.64	0.00	0.00	0.00
2,800.00	3.58	76.87	2,796.37	27.25	116.81	-34.43	0.00	0.00	0.00
2,897.82	3.58	76.87	2,894.00	28.64	122.75	-36.18	0.00	0.00	0.00
Base Salt									
2,900.00	3.58	76.87	2,896.17	28.67	122.89	-36.22	0.00	0.00	0.00
3,000.00	3.58	76.87	2,995.98	30.09	128.97	-38.02	0.00	0.00	0.00
3,073.16	3.58	76.87	3,069.00	31.13	133.41	-39.33	0.00	0.00	0.00
Delaware									
3,100.00	3.58	76.87	3,095.78	31.51	135.05	-39.81	0.00	0.00	0.00
3,200.00	3.58	76.87	3,195.59	32.93	141.13	-41.60	0.00	0.00	0.00
3,300.00	3.58	76.87	3,295.39	34.34	147.21	-43.39	0.00	0.00	0.00
3,400.00	3.58	76.87	3,395.20	35.76	153.29	-45.18	0.00	0.00	0.00
3,500.00	3.58	76.87	3,495.00	37.18	159.37	-46.98	0.00	0.00	0.00
3,600.00	3.58	76.87	3,594.81	38.60	165.45	-48.77	0.00	0.00	0.00
3,700.00	3.58	76.87	3,694.61	40.02	171.53	-50.56	0.00	0.00	0.00
3,800.00	3.58	76.87	3,794.42	41.44	177.61	-52.35	0.00	0.00	0.00
3,900.00	3.58	76.87	3,894.22	42.85	183.69	-54.15	0.00	0.00	0.00
3,983.94	3.58	76.87	3,978.00	44.05	188.79	-55.65	0.00	0.00	0.00
Cherry Canyon									
4,000.00	3.58	76.87	3,994.03	44.27	189.77	-55.94	0.00	0.00	0.00
4,100.00	3.58	76.87	4,093.83	45.69	195.85	-57.73	0.00	0.00	0.00
4,200.00	3.58	76.87	4,193.64	47.11	201.93	-59.52	0.00	0.00	0.00



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Wellbore:	OH		
Design:	Plan #2		

Planned 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)
4,300.00	3.58	76.87	4,293.44	48.53	208.01	-61.32	0.00	0.00	0.00
4,400.00	3.58	76.87	4,393.25	49.95	214.09	-63.11	0.00	0.00	0.00
4,500.00	3.58	76.87	4,493.05	51.37	220.17	-64.90	0.00	0.00	0.00
4,600.00	3.58	76.87	4,592.86	52.78	226.25	-66.69	0.00	0.00	0.00
4,700.00	3.58	76.87	4,692.66	54.20	232.33	-68.48	0.00	0.00	0.00
4,800.00	3.58	76.87	4,792.47	55.62	238.41	-70.28	0.00	0.00	0.00
4,900.00	3.58	76.87	4,892.27	57.04	244.49	-72.07	0.00	0.00	0.00
4,940.05	3.58	76.87	4,932.25	57.61	246.92	-72.79	0.00	0.00	0.00
5,000.00	2.98	76.87	4,992.10	58.39	250.26	-73.77	1.00	-1.00	0.00
5,100.00	1.98	76.87	5,092.00	59.37	254.48	-75.01	1.00	-1.00	0.00
5,200.00	0.98	76.87	5,191.97	59.96	256.99	-75.76	1.00	-1.00	0.00
5,298.01	0.00	187.00	5,289.97	60.15	257.81	-76.00	1.00	-1.00	0.00
5,300.00	0.00	0.00	5,291.96	60.15	257.81	-76.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,391.96	60.15	257.81	-76.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,491.96	60.15	257.81	-76.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,591.96	60.15	257.81	-76.00	0.00	0.00	0.00
5,649.04	0.00	0.00	5,641.00	60.15	257.81	-76.00	0.00	0.00	0.00
Brushy Canyon									
5,700.00	0.00	0.00	5,691.96	60.15	257.81	-76.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,791.96	60.15	257.81	-76.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,891.96	60.15	257.81	-76.00	0.00	0.00	0.00
6,000.00	0.00	0.00	5,991.96	60.15	257.81	-76.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,091.96	60.15	257.81	-76.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,191.96	60.15	257.81	-76.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,291.96	60.15	257.81	-76.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,391.96	60.15	257.81	-76.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,491.96	60.15	257.81	-76.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,591.96	60.15	257.81	-76.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,691.96	60.15	257.81	-76.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,791.96	60.15	257.81	-76.00	0.00	0.00	0.00
6,828.04	0.00	0.00	6,820.00	60.15	257.81	-76.00	0.00	0.00	0.00
Bone Spring									
6,900.00	0.00	0.00	6,891.96	60.15	257.81	-76.00	0.00	0.00	0.00
7,000.00	0.00	0.00	6,991.96	60.15	257.81	-76.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,091.96	60.15	257.81	-76.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,191.96	60.15	257.81	-76.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,291.96	60.15	257.81	-76.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,391.96	60.15	257.81	-76.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,491.96	60.15	257.81	-76.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,591.96	60.15	257.81	-76.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,691.96	60.15	257.81	-76.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,791.96	60.15	257.81	-76.00	0.00	0.00	0.00
7,802.04	0.00	0.00	7,794.00	60.15	257.81	-76.00	0.00	0.00	0.00
1st Bone Spring Ss									
7,900.00	0.00	0.00	7,891.96	60.15	257.81	-76.00	0.00	0.00	0.00
8,000.00	0.00	0.00	7,991.96	60.15	257.81	-76.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,091.96	60.15	257.81	-76.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,191.96	60.15	257.81	-76.00	0.00	0.00	0.00
8,219.04	0.00	0.00	8,211.00	60.15	257.81	-76.00	0.00	0.00	0.00
2nd Bone Spring Lime									
8,300.00	0.00	0.00	8,291.96	60.15	257.81	-76.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,391.96	60.15	257.81	-76.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,491.96	60.15	257.81	-76.00	0.00	0.00	0.00



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8,600.00	0.00	0.00	8,591.96	60.15	257.81	-76.00	0.00	0.00	0.00
8,673.04	0.00	0.00	8,665.00	60.15	257.81	-76.00	0.00	0.00	0.00
2nd Bone Spring Ss									
8,700.00	0.00	0.00	8,691.96	60.15	257.81	-76.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,791.96	60.15	257.81	-76.00	0.00	0.00	0.00
8,899.04	0.00	0.00	8,891.00	60.15	257.81	-76.00	0.00	0.00	0.00
3rd Bone Spring Lm									
8,900.00	0.00	0.00	8,891.96	60.15	257.81	-76.00	0.00	0.00	0.00
9,000.00	0.00	0.00	8,991.96	60.15	257.81	-76.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,091.96	60.15	257.81	-76.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,191.96	60.15	257.81	-76.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,291.96	60.15	257.81	-76.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,391.96	60.15	257.81	-76.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,491.96	60.15	257.81	-76.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,591.96	60.15	257.81	-76.00	0.00	0.00	0.00
9,677.04	0.00	0.00	9,669.00	60.15	257.81	-76.00	0.00	0.00	0.00
3rd Bone Spring Ss									
9,703.01	0.00	187.00	9,694.97	60.15	257.81	-76.00	0.00	0.00	0.00
9,750.00	3.76	187.00	9,741.93	58.62	257.62	-74.46	8.00	8.00	0.00
9,800.00	7.76	187.00	9,791.66	53.64	257.01	-69.45	8.00	8.00	0.00
9,850.00	11.76	187.00	9,840.93	45.23	255.98	-60.99	8.00	8.00	0.00
9,900.00	15.76	187.00	9,889.49	33.43	254.53	-49.12	8.00	8.00	0.00
9,950.00	19.76	187.00	9,937.09	18.29	252.67	-33.90	8.00	8.00	0.00
10,000.00	23.76	187.00	9,983.52	-0.10	250.41	-15.41	8.00	8.00	0.00
10,042.62	27.17	187.00	10,022.00	-18.29	248.18	2.88	8.00	8.00	0.00
Wolfcamp									
10,050.00	27.76	187.00	10,028.54	-21.66	247.76	6.28	8.00	8.00	0.00
10,069.87	29.35	187.00	10,046.00	-31.09	246.61	15.76	8.00	8.00	0.00
Wolfcamp X									
10,100.00	31.76	187.00	10,071.94	-46.29	244.74	31.05	8.00	8.00	0.00
10,150.00	35.76	187.00	10,113.50	-73.86	241.36	58.78	8.00	8.00	0.00
10,161.78	36.70	187.00	10,123.00	-80.77	240.51	65.72	8.00	8.00	0.00
Wolfcamp Y									
10,188.34	38.83	187.00	10,144.00	-96.92	238.52	81.96	8.00	8.00	0.00
Wolfcamp A									
10,203.01	40.00	187.00	10,155.33	-106.16	237.39	91.26	8.00	8.00	0.00
10,250.00	44.70	187.00	10,190.05	-137.57	233.53	122.85	10.00	10.00	0.00
10,300.00	49.70	187.00	10,224.01	-173.97	229.06	159.46	10.00	10.00	0.00
10,350.00	54.70	187.00	10,254.65	-213.17	224.25	198.88	10.00	10.00	0.00
10,400.00	59.70	187.00	10,281.73	-254.87	219.13	240.82	10.00	10.00	0.00
10,450.00	64.70	187.00	10,305.04	-298.76	213.74	284.95	10.00	10.00	0.00
10,500.00	69.70	187.00	10,324.41	-344.49	208.13	330.95	10.00	10.00	0.00
10,550.00	74.70	187.00	10,339.69	-391.73	202.33	378.45	10.00	10.00	0.00
10,600.00	79.70	187.00	10,350.77	-440.11	196.39	427.10	10.00	10.00	0.00
10,650.00	84.70	187.00	10,357.55	-489.26	190.35	476.54	10.00	10.00	0.00
10,703.01	90.00	187.00	10,360.00	-541.80	183.90	529.37	10.00	10.00	0.00
LP									
10,800.00	90.00	187.00	10,360.00	-638.07	172.08	626.19	0.00	0.00	0.00
10,900.00	90.00	187.00	10,360.00	-737.32	159.89	726.01	0.00	0.00	0.00
11,000.00	90.00	187.00	10,360.00	-836.58	147.71	825.83	0.00	0.00	0.00
11,100.00	90.00	187.00	10,360.00	-935.83	135.52	925.65	0.00	0.00	0.00
11,200.00	90.00	187.00	10,360.00	-1,035.09	123.33	1,025.46	0.00	0.00	0.00
11,253.01	90.00	187.00	10,360.00	-1,087.70	116.87	1,078.38	0.00	0.00	0.00



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well #122H
Company:	XTO Energy	TVD Reference:	RKB = 23' @ 2965.00usft (Frontier 17)
Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB = 23' @ 2965.00usft (Frontier 17)
Site:	Ross Draw 25-36 Fed West	North Reference:	Grid
Well:	#122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned 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)
11,300.00	90.00	186.06	10,360.00	-1,134.39	111.53	1,125.30	2.00	0.00	-2.00
11,400.00	90.00	184.06	10,360.00	-1,233.99	102.71	1,225.26	2.00	0.00	-2.00
11,500.00	90.00	182.06	10,360.00	-1,333.84	97.37	1,325.26	2.00	0.00	-2.00
11,600.00	90.00	180.06	10,360.00	-1,433.82	95.52	1,425.16	2.00	0.00	-2.00
11,700.00	90.00	178.06	10,360.00	-1,533.80	97.16	1,524.84	2.00	0.00	-2.00
11,758.01	90.00	176.90	10,360.00	-1,591.75	99.71	1,582.53	2.00	0.00	-2.00
11,800.00	90.00	177.74	10,360.00	-1,633.70	101.67	1,624.27	2.00	0.00	2.00
11,900.00	90.00	179.74	10,360.00	-1,733.67	103.87	1,723.91	2.00	0.00	2.00
12,000.00	90.00	181.74	10,360.00	-1,833.66	102.58	1,823.79	2.00	0.00	2.00
12,090.73	90.00	183.55	10,360.00	-1,924.28	98.39	1,914.50	2.00	0.00	2.00
12,100.00	90.00	183.55	10,360.00	-1,933.54	97.82	1,923.77	0.00	0.00	0.00
12,200.00	90.00	183.55	10,360.00	-2,033.35	91.62	2,023.77	0.00	0.00	0.00
12,300.00	90.00	183.55	10,360.00	-2,133.15	85.42	2,123.77	0.00	0.00	0.00
12,400.00	90.00	183.55	10,360.00	-2,232.96	79.22	2,223.77	0.00	0.00	0.00
12,500.00	90.00	183.55	10,360.00	-2,332.77	73.02	2,323.77	0.00	0.00	0.00
12,600.00	90.00	183.55	10,360.00	-2,432.58	66.82	2,423.77	0.00	0.00	0.00
12,700.00	90.00	183.55	10,360.00	-2,532.38	60.62	2,523.77	0.00	0.00	0.00
12,800.00	90.00	183.55	10,360.00	-2,632.19	54.42	2,623.77	0.00	0.00	0.00
12,900.00	90.00	183.55	10,360.00	-2,732.00	48.22	2,723.77	0.00	0.00	0.00
13,000.00	90.00	183.55	10,360.00	-2,831.81	42.02	2,823.77	0.00	0.00	0.00
13,100.00	90.00	183.55	10,360.00	-2,931.62	35.82	2,923.77	0.00	0.00	0.00
13,200.00	90.00	183.55	10,360.00	-3,031.42	29.62	3,023.77	0.00	0.00	0.00
13,300.00	90.00	183.55	10,360.00	-3,131.23	23.42	3,123.77	0.00	0.00	0.00
13,400.00	90.00	183.55	10,360.00	-3,231.04	17.22	3,223.77	0.00	0.00	0.00
13,500.00	90.00	183.55	10,360.00	-3,330.85	11.02	3,323.77	0.00	0.00	0.00
13,600.00	90.00	183.55	10,360.00	-3,430.65	4.82	3,423.77	0.00	0.00	0.00
13,700.00	90.00	183.55	10,360.00	-3,530.46	-1.38	3,523.77	0.00	0.00	0.00
13,800.00	90.00	183.55	10,360.00	-3,630.27	-7.58	3,623.77	0.00	0.00	0.00
13,900.00	90.00	183.55	10,360.00	-3,730.08	-13.78	3,723.77	0.00	0.00	0.00
14,000.00	90.00	183.55	10,360.00	-3,829.88	-19.98	3,823.77	0.00	0.00	0.00
14,100.00	90.00	183.55	10,360.00	-3,929.69	-26.17	3,923.77	0.00	0.00	0.00
14,200.00	90.00	183.55	10,360.00	-4,029.50	-32.37	4,023.77	0.00	0.00	0.00
14,300.00	90.00	183.55	10,360.00	-4,129.31	-38.57	4,123.77	0.00	0.00	0.00
14,400.00	90.00	183.55	10,360.00	-4,229.11	-44.77	4,223.77	0.00	0.00	0.00
14,500.00	90.00	183.55	10,360.00	-4,328.92	-50.97	4,323.77	0.00	0.00	0.00
14,600.00	90.00	183.55	10,360.00	-4,428.73	-57.17	4,423.77	0.00	0.00	0.00
14,700.00	90.00	183.55	10,360.00	-4,528.54	-63.37	4,523.77	0.00	0.00	0.00
14,800.00	90.00	183.55	10,360.00	-4,628.35	-69.57	4,623.77	0.00	0.00	0.00
14,900.00	90.00	183.55	10,360.00	-4,728.15	-75.77	4,723.77	0.00	0.00	0.00
15,000.00	90.00	183.55	10,360.00	-4,827.96	-81.97	4,823.77	0.00	0.00	0.00
15,100.00	90.00	183.55	10,360.00	-4,927.77	-88.17	4,923.77	0.00	0.00	0.00
15,200.00	90.00	183.55	10,360.00	-5,027.58	-94.37	5,023.77	0.00	0.00	0.00
15,300.00	90.00	183.55	10,360.00	-5,127.38	-100.57	5,123.77	0.00	0.00	0.00
15,400.00	90.00	183.55	10,360.00	-5,227.19	-106.77	5,223.77	0.00	0.00	0.00
15,500.00	90.00	183.55	10,360.00	-5,327.00	-112.97	5,323.77	0.00	0.00	0.00
15,600.00	90.00	183.55	10,360.00	-5,426.81	-119.17	5,423.77	0.00	0.00	0.00
15,700.00	90.00	183.55	10,360.00	-5,526.61	-125.37	5,523.77	0.00	0.00	0.00
15,800.00	90.00	183.55	10,360.00	-5,626.42	-131.57	5,623.77	0.00	0.00	0.00
15,900.00	90.00	183.55	10,360.00	-5,726.23	-137.77	5,723.77	0.00	0.00	0.00
16,000.00	90.00	183.55	10,360.00	-5,826.04	-143.97	5,823.77	0.00	0.00	0.00
16,100.00	90.00	183.55	10,360.00	-5,925.84	-150.17	5,923.77	0.00	0.00	0.00
16,200.00	90.00	183.55	10,360.00	-6,025.65	-156.37	6,023.77	0.00	0.00	0.00
16,300.00	90.00	183.55	10,360.00	-6,125.46	-162.57	6,123.77	0.00	0.00	0.00
16,400.00	90.00	183.55	10,360.00	-6,225.27	-168.76	6,223.77	0.00	0.00	0.00



Planning Report



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Project:	Eddy County, NM (Nad-27 / East Zone)	MD Reference:	RKB = 23' @ 2965.00usft (Frontier 17)
Site:	Ross Draw 25-36 Fed West	North Reference:	Grid
Well:	#122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Planned 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)
16,500.00	90.00	183.55	10,360.00	-6,325.08	-174.96	6,323.77	0.00	0.00	0.00
16,600.00	90.00	183.55	10,360.00	-6,424.88	-181.16	6,423.77	0.00	0.00	0.00
16,700.00	90.00	183.55	10,360.00	-6,524.69	-187.36	6,523.77	0.00	0.00	0.00
16,800.00	90.00	183.55	10,360.00	-6,624.50	-193.56	6,623.77	0.00	0.00	0.00
16,900.00	90.00	183.55	10,360.00	-6,724.31	-199.76	6,723.77	0.00	0.00	0.00
17,000.00	90.00	183.55	10,360.00	-6,824.11	-205.96	6,823.77	0.00	0.00	0.00
17,100.00	90.00	183.55	10,360.00	-6,923.92	-212.16	6,923.77	0.00	0.00	0.00
17,200.00	90.00	183.55	10,360.00	-7,023.73	-218.36	7,023.77	0.00	0.00	0.00
17,300.00	90.00	183.55	10,360.00	-7,123.54	-224.56	7,123.77	0.00	0.00	0.00
17,387.73	90.00	183.55	10,360.00	-7,211.10	-230.00	7,211.50	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									
RD25-36#122: SHL(2 - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	371,351.00	621,276.10	32.020354	-103.942029
RD25-36#122: PBHL(- plan hits target center - Point	0.00	0.00	10,360.00	-7,211.10	-230.00	364,139.90	621,046.10	32.000533	-103.942855
RD25-36#122: FTP/ L - plan hits target center - Point	0.00	0.00	10,360.00	-541.80	183.90	370,809.20	621,460.00	32.018863	-103.941442
RD25-36#122: LTP - plan misses target center by 0.08usft at 17257.39usft MD (10360.00 TVD, -7081.01 N, -221.92 E) - Point	0.00	0.00	10,360.00	-7,081.00	-222.00	364,270.00	621,054.10	32.000891	-103.942827



Planning Report



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Site:	Ross Draw 25-36 Fed West	North Reference:	Grid
Well:	#122H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
420.00	420.00	Rustler			
1,263.63	1,263.00	Top Salt			
2,897.82	2,894.00	Base Salt			
3,073.16	3,069.00	Delaware			
3,983.94	3,978.00	Cherry Canyon			
5,649.04	5,641.00	Brushy Canyon			
6,828.04	6,820.00	Bone Spring			
7,802.04	7,794.00	1st Bone Spring Ss			
8,219.04	8,211.00	2nd Bone Spring Lime			
8,673.04	8,665.00	2nd Bone Spring Ss			
8,899.04	8,891.00	3rd Bone Spring Lm			
9,677.04	9,669.00	3rd Bone Spring Ss			
10,042.62	10,022.00	Wolfcamp			
10,069.87	10,046.00	Wolfcamp X			
10,161.78	10,123.00	Wolfcamp Y			
10,188.34	10,144.00	Wolfcamp A			
10,703.01	10,360.00	LP			