

30-05-15 R1
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DISTRICT II-ARTESIA O.C.D.

WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)

Sec. 36-T23S-R31E

Todd 36 State 335H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

22 April, 2019

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Todd 36 State 335H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3541.90ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3541.90ft
Site:	Sec. 36-T23S-R31E	North Reference:	Grid
Well:	Todd 36 State 335H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Project	Eddy County (NAD 83 NM Eastern)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec. 36-T23S-R31E		
Site Position:	Map	Northings:	461,801.03 usft
From:		Easting:	724,712.45 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	32.268172
		Longitude:	-103.740050
		Grid Convergence:	0.32 °

Well	Todd 36 State 335H		
Well Position	+N/-S	0.00 ft	Northings:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.50 ft	Wellhead Elevation:	Ground Level:
			32.254164
			-103.738582
			3,516.90 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	4/18/2019	6.83
			Dip Angle
			(°)
			60.04
			Field Strength
			(nT)
			47,749.06563535

Design	Permit Plan 1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			2.80

Plan Survey Tool Program	Date:	4/22/2019
Depth From	Depth To	Survey (Wellbore)
(ft)	(ft)	
1	0.00	16,633.12 Permit Plan 1 (Wellbore #1)
		Tool Name
		MWD+HDGM
		OWSG MWD + HDGM
		Remarks

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,750.00	0.00	0.00	2,750.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,973.15	2.23	115.30	2,973.10	-1.86	3.93	1.00	1.00	0.00	115.30	
10,599.11	2.23	115.30	10,593.27	-128.76	272.38	0.00	0.00	0.00	0.00	
10,747.88	0.00	0.00	10,742.00	-130.00	275.00	1.50	-1.50	0.00	180.00	
11,097.92	0.00	0.00	11,092.04	-130.00	275.00	0.00	0.00	0.00	0.00	
11,997.92	90.00	359.70	11,665.00	442.95	272.05	10.00	10.00	0.00	359.70	PBHL - Todd 36 State
16,633.12	90.00	359.70	11,665.00	5,078.09	248.15	0.00	0.00	0.00	0.00	PBHL - Todd 36 State

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Well:	Todd 36 State 335H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
100.00	0.00	0.00	100.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
200.00	0.00	0.00	200.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
300.00	0.00	0.00	300.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
400.00	0.00	0.00	400.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
500.00	0.00	0.00	500.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
600.00	0.00	0.00	600.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
700.00	0.00	0.00	700.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
800.00	0.00	0.00	800.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
900.00	0.00	0.00	900.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
1,000.00	0.00	0.00	1,000.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
1,100.00	0.00	0.00	1,100.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
1,200.00	0.00	0.00	1,200.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
1,300.00	0.00	0.00	1,300.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
1,400.00	0.00	0.00	1,400.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
1,500.00	0.00	0.00	1,500.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
1,600.00	0.00	0.00	1,600.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
1,700.00	0.00	0.00	1,700.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
1,800.00	0.00	0.00	1,800.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
1,900.00	0.00	0.00	1,900.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
2,000.00	0.00	0.00	2,000.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
2,100.00	0.00	0.00	2,100.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
2,200.00	0.00	0.00	2,200.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
2,300.00	0.00	0.00	2,300.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
2,400.00	0.00	0.00	2,400.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
2,500.00	0.00	0.00	2,500.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
2,600.00	0.00	0.00	2,600.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
2,700.00	0.00	0.00	2,700.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
2,750.00	0.00	0.00	2,750.00	0.00	0.00	456,707.26	725,194.39	32.254164	-103.738582
2,800.00	0.50	115.30	2,800.00	-0.09	0.20	456,707.17	725,194.58	32.254163	-103.738582
2,900.00	1.50	115.30	2,899.98	-0.84	1.78	456,706.42	725,196.16	32.254161	-103.738576
2,973.15	2.23	115.30	2,973.10	-1.86	3.93	456,705.40	725,198.31	32.254159	-103.738569
3,000.00	2.23	115.30	2,999.92	-2.30	4.87	456,704.96	725,199.26	32.254157	-103.738566
3,100.00	2.23	115.30	3,099.85	-3.97	8.39	456,703.29	725,202.78	32.254153	-103.738555
3,200.00	2.23	115.30	3,199.77	-5.63	11.91	456,701.63	725,206.30	32.254148	-103.738544
3,300.00	2.23	115.30	3,299.70	-7.30	15.43	456,699.96	725,209.82	32.254143	-103.738532
3,400.00	2.23	115.30	3,399.62	-8.96	18.95	456,698.30	725,213.34	32.254139	-103.738521
3,500.00	2.23	115.30	3,499.54	-10.62	22.47	456,696.64	725,216.86	32.254134	-103.738510
3,600.00	2.23	115.30	3,599.47	-12.29	25.99	456,694.97	725,220.38	32.254130	-103.738498
3,700.00	2.23	115.30	3,699.39	-13.95	29.52	456,693.31	725,223.90	32.254125	-103.738487
3,800.00	2.23	115.30	3,799.32	-15.62	33.04	456,691.64	725,227.42	32.254120	-103.738476
3,900.00	2.23	115.30	3,899.24	-17.28	36.56	456,689.98	725,230.94	32.254116	-103.738464
4,000.00	2.23	115.30	3,999.16	-18.94	40.08	456,688.32	725,234.46	32.254111	-103.738453
4,100.00	2.23	115.30	4,099.09	-20.61	43.60	456,686.65	725,237.98	32.254106	-103.738441
4,200.00	2.23	115.30	4,199.01	-22.27	47.12	456,684.99	725,241.50	32.254102	-103.738430
4,300.00	2.23	115.30	4,298.94	-23.94	50.64	456,683.32	725,245.02	32.254097	-103.738419
4,400.00	2.23	115.30	4,398.86	-25.60	54.16	456,681.66	725,248.54	32.254092	-103.738407
4,500.00	2.23	115.30	4,498.79	-27.27	57.68	456,679.99	725,252.06	32.254088	-103.738396
4,600.00	2.23	115.30	4,598.71	-28.93	61.20	456,678.33	725,255.58	32.254083	-103.738385
4,700.00	2.23	115.30	4,698.63	-30.59	64.72	456,676.67	725,259.10	32.254079	-103.738373
4,800.00	2.23	115.30	4,798.56	-32.26	68.24	456,675.00	725,262.62	32.254074	-103.738362
4,900.00	2.23	115.30	4,898.48	-33.92	71.76	456,673.34	725,266.14	32.254069	-103.738351
5,000.00	2.23	115.30	4,998.41	-35.59	75.28	456,671.67	725,269.66	32.254065	-103.738339
5,100.00	2.23	115.30	5,098.33	-37.25	78.80	456,670.01	725,273.18	32.254060	-103.738328
5,200.00	2.23	115.30	5,198.25	-38.91	82.32	456,668.35	725,276.70	32.254055	-103.738317

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Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,300.00	2.23	115.30	5,298.18	-40.58	85.84	456,666.68	725,280.23	32.254051	-103.738305
5,400.00	2.23	115.30	5,398.10	-42.24	89.36	456,665.02	725,283.75	32.254046	-103.738294
5,500.00	2.23	115.30	5,498.03	-43.91	92.88	456,663.35	725,287.27	32.254042	-103.738282
5,600.00	2.23	115.30	5,597.95	-45.57	96.40	456,661.69	725,290.79	32.254037	-103.738271
5,700.00	2.23	115.30	5,697.88	-47.23	99.92	456,660.03	725,294.31	32.254032	-103.738260
5,800.00	2.23	115.30	5,797.80	-48.90	103.44	456,658.36	725,297.83	32.254028	-103.738248
5,900.00	2.23	115.30	5,897.72	-50.56	106.96	456,656.70	725,301.35	32.254023	-103.738237
6,000.00	2.23	115.30	5,997.65	-52.23	110.48	456,655.03	725,304.87	32.254018	-103.738226
6,100.00	2.23	115.30	6,097.57	-53.89	114.00	456,653.37	725,308.39	32.254014	-103.738214
6,200.00	2.23	115.30	6,197.50	-55.56	117.52	456,651.70	725,311.91	32.254009	-103.738203
6,300.00	2.23	115.30	6,297.42	-57.22	121.04	456,650.04	725,315.43	32.254005	-103.738192
6,400.00	2.23	115.30	6,397.34	-58.88	124.56	456,648.38	725,318.95	32.254000	-103.738180
6,500.00	2.23	115.30	6,497.27	-60.55	128.08	456,646.71	725,322.47	32.253995	-103.738169
6,600.00	2.23	115.30	6,597.19	-62.21	131.60	456,645.05	725,325.99	32.253991	-103.738158
6,700.00	2.23	115.30	6,697.12	-63.88	135.12	456,643.38	725,329.51	32.253986	-103.738146
6,800.00	2.23	115.30	6,797.04	-65.54	138.64	456,641.72	725,333.03	32.253981	-103.738135
6,900.00	2.23	115.30	6,896.97	-67.20	142.16	456,640.06	725,336.55	32.253977	-103.738123
7,000.00	2.23	115.30	6,996.89	-68.87	145.68	456,638.39	725,340.07	32.253972	-103.738112
7,100.00	2.23	115.30	7,096.81	-70.53	149.20	456,636.73	725,343.59	32.253968	-103.738101
7,200.00	2.23	115.30	7,196.74	-72.20	152.72	456,635.06	725,347.11	32.253963	-103.738089
7,300.00	2.23	115.30	7,296.66	-73.86	156.24	456,633.40	725,350.63	32.253958	-103.738078
7,400.00	2.23	115.30	7,396.59	-75.53	159.76	456,631.74	725,354.15	32.253954	-103.738067
7,500.00	2.23	115.30	7,496.51	-77.19	163.28	456,630.07	725,357.67	32.253949	-103.738055
7,600.00	2.23	115.30	7,596.43	-78.85	166.80	456,628.41	725,361.19	32.253944	-103.738044
7,700.00	2.23	115.30	7,696.36	-80.52	170.33	456,626.74	725,364.71	32.253940	-103.738033
7,800.00	2.23	115.30	7,796.28	-82.18	173.85	456,625.08	725,368.23	32.253935	-103.738021
7,900.00	2.23	115.30	7,896.21	-83.85	177.37	456,623.41	725,371.75	32.253931	-103.738010
8,000.00	2.23	115.30	7,996.13	-85.51	180.89	456,621.75	725,375.27	32.253926	-103.737999
8,100.00	2.23	115.30	8,096.06	-87.17	184.41	456,620.09	725,378.79	32.253921	-103.737987
8,200.00	2.23	115.30	8,195.98	-88.84	187.93	456,618.42	725,382.31	32.253917	-103.737976
8,300.00	2.23	115.30	8,295.90	-90.50	191.45	456,616.76	725,385.83	32.253912	-103.737964
8,400.00	2.23	115.30	8,395.83	-92.17	194.97	456,615.09	725,389.35	32.253907	-103.737953
8,500.00	2.23	115.30	8,495.75	-93.83	198.49	456,613.43	725,392.87	32.253903	-103.737942
8,600.00	2.23	115.30	8,595.68	-95.49	202.01	456,611.77	725,396.39	32.253898	-103.737930
8,700.00	2.23	115.30	8,695.60	-97.16	205.53	456,610.10	725,399.91	32.253893	-103.737919
8,800.00	2.23	115.30	8,795.52	-98.82	209.05	456,608.44	725,403.43	32.253889	-103.737908
8,900.00	2.23	115.30	8,895.45	-100.49	212.57	456,606.77	725,406.95	32.253884	-103.737896
9,000.00	2.23	115.30	8,995.37	-102.15	216.09	456,605.11	725,410.47	32.253880	-103.737885
9,100.00	2.23	115.30	9,095.30	-103.82	219.61	456,603.45	725,413.99	32.253875	-103.737874
9,200.00	2.23	115.30	9,195.22	-105.48	223.13	456,601.78	725,417.51	32.253870	-103.737862
9,300.00	2.23	115.30	9,295.15	-107.14	226.65	456,600.12	725,421.04	32.253866	-103.737851
9,400.00	2.23	115.30	9,395.07	-108.81	230.17	456,598.45	725,424.56	32.253861	-103.737840
9,500.00	2.23	115.30	9,494.99	-110.47	233.69	456,596.79	725,428.08	32.253856	-103.737828
9,600.00	2.23	115.30	9,594.92	-112.14	237.21	456,595.12	725,431.60	32.253852	-103.737817
9,700.00	2.23	115.30	9,694.84	-113.80	240.73	456,593.46	725,435.12	32.253847	-103.737805
9,800.00	2.23	115.30	9,794.77	-115.46	244.25	456,591.80	725,438.64	32.253843	-103.737794
9,900.00	2.23	115.30	9,894.69	-117.13	247.77	456,590.13	725,442.16	32.253838	-103.737783
10,000.00	2.23	115.30	9,994.61	-118.79	251.29	456,588.47	725,445.68	32.253833	-103.737771
10,100.00	2.23	115.30	10,094.54	-120.46	254.81	456,586.80	725,449.20	32.253829	-103.737760
10,200.00	2.23	115.30	10,194.46	-122.12	258.33	456,585.14	725,452.72	32.253824	-103.737749
10,300.00	2.23	115.30	10,294.39	-123.78	261.85	456,583.48	725,456.24	32.253819	-103.737737
10,400.00	2.23	115.30	10,394.31	-125.45	265.37	456,581.81	725,459.76	32.253815	-103.737726
10,500.00	2.23	115.30	10,494.24	-127.11	268.89	456,580.15	725,463.28	32.253810	-103.737715
10,599.11	2.23	115.30	10,593.27	-128.76	272.38	456,578.50	725,466.77	32.253806	-103.737703
10,600.00	2.22	115.30	10,594.16	-128.78	272.41	456,578.48	725,466.80	32.253806	-103.737703

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Todd 36 State 335H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3541.90ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3541.90ft
Site:	Sec. 36-T23S-R31E	North Reference:	Grid
Well:	Todd 36 State 335H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,700.00	0.72	115.30	10,694.12	-129.87	274.73	456,577.39	725,469.11	32.253803	-103.737696
10,747.88	0.00	0.00	10,742.00	-130.00	275.00	456,577.26	725,469.39	32.253802	-103.737695
10,800.00	0.00	0.00	10,794.12	-130.00	275.00	456,577.26	725,469.39	32.253802	-103.737695
10,900.00	0.00	0.00	10,894.12	-130.00	275.00	456,577.26	725,469.39	32.253802	-103.737695
11,000.00	0.00	0.00	10,994.12	-130.00	275.00	456,577.26	725,469.39	32.253802	-103.737695
11,097.92	0.00	0.00	11,092.04	-130.00	275.00	456,577.26	725,469.39	32.253802	-103.737695
KOP @ 11098' MD, 50' FSL, 730' FWL									
11,100.00	0.21	359.70	11,094.12	-130.00	275.00	456,577.26	725,469.39	32.253802	-103.737695
11,200.00	10.21	359.70	11,193.58	-120.93	274.95	456,586.33	725,469.34	32.253827	-103.737695
11,300.00	20.21	359.70	11,289.96	-94.73	274.82	456,612.53	725,469.20	32.253899	-103.737695
11,339.06	24.11	359.70	11,326.13	-80.00	274.74	456,627.26	725,469.13	32.253940	-103.737695
FTP @ 11339' MD, 100' FSL, 730' FWL									
11,400.00	30.21	359.70	11,380.32	-52.19	274.60	456,655.07	725,468.98	32.254016	-103.737695
11,500.00	40.21	359.70	11,461.92	5.39	274.30	456,712.65	725,468.69	32.254174	-103.737695
11,600.00	50.21	359.70	11,532.29	76.26	273.94	456,783.52	725,468.32	32.254369	-103.737695
11,700.00	60.21	359.70	11,589.27	158.28	273.51	456,865.54	725,467.90	32.254595	-103.737695
11,800.00	70.21	359.70	11,631.15	248.95	273.05	456,956.21	725,467.43	32.254844	-103.737694
11,900.00	80.21	359.70	11,656.65	345.51	272.55	457,052.77	725,466.93	32.255109	-103.737694
11,997.92	90.00	359.70	11,665.00	442.95	272.05	457,150.21	725,466.43	32.255377	-103.737694
12,000.00	90.00	359.70	11,665.00	445.03	272.04	457,152.29	725,466.42	32.255383	-103.737694
12,100.00	90.00	359.70	11,665.00	545.03	271.52	457,252.29	725,465.91	32.255658	-103.737694
12,200.00	90.00	359.70	11,665.00	645.03	271.00	457,352.29	725,465.39	32.255933	-103.737694
12,300.00	90.00	359.70	11,665.00	745.03	270.49	457,452.29	725,464.87	32.256207	-103.737694
12,400.00	90.00	359.70	11,665.00	845.03	269.97	457,552.29	725,464.36	32.256482	-103.737694
12,500.00	90.00	359.70	11,665.00	945.03	269.46	457,652.28	725,463.84	32.256757	-103.737694
12,600.00	90.00	359.70	11,665.00	1,045.02	268.94	457,752.28	725,463.33	32.257032	-103.737693
12,700.00	90.00	359.70	11,665.00	1,145.02	268.43	457,852.28	725,462.81	32.257307	-103.737693
12,800.00	90.00	359.70	11,665.00	1,245.02	267.91	457,952.28	725,462.30	32.257582	-103.737693
12,900.00	90.00	359.70	11,665.00	1,345.02	267.40	458,052.28	725,461.78	32.257857	-103.737693
13,000.00	90.00	359.70	11,665.00	1,445.02	266.88	458,152.28	725,461.27	32.258132	-103.737693
13,100.00	90.00	359.70	11,665.00	1,545.02	266.36	458,252.27	725,460.75	32.258406	-103.737693
13,200.00	90.00	359.70	11,665.00	1,645.02	265.85	458,352.27	725,460.23	32.258681	-103.737693
13,300.00	90.00	359.70	11,665.00	1,745.01	265.33	458,452.27	725,459.72	32.258956	-103.737693
13,400.00	90.00	359.70	11,665.00	1,845.01	264.82	458,552.27	725,459.20	32.259231	-103.737692
13,500.00	90.00	359.70	11,665.00	1,945.01	264.30	458,652.27	725,458.69	32.259506	-103.737692
13,600.00	90.00	359.70	11,665.00	2,045.01	263.79	458,752.27	725,458.17	32.259781	-103.737692
13,700.00	90.00	359.70	11,665.00	2,145.01	263.27	458,852.27	725,457.66	32.260056	-103.737692
13,800.00	90.00	359.70	11,665.00	2,245.01	262.76	458,952.26	725,457.14	32.260331	-103.737692
13,900.00	90.00	359.70	11,665.00	2,345.01	262.24	459,052.26	725,456.63	32.260605	-103.737692
14,000.00	90.00	359.70	11,665.00	2,445.01	261.72	459,152.26	725,456.11	32.260880	-103.737692
14,100.00	90.00	359.70	11,665.00	2,545.00	261.21	459,252.26	725,455.60	32.261155	-103.737692
14,200.00	90.00	359.70	11,665.00	2,645.00	260.69	459,352.26	725,455.08	32.261430	-103.737691
14,300.00	90.00	359.70	11,665.00	2,745.00	260.18	459,452.26	725,454.56	32.261705	-103.737691
14,400.00	90.00	359.70	11,665.00	2,845.00	259.66	459,552.25	725,454.05	32.261980	-103.737691
14,500.00	90.00	359.70	11,665.00	2,945.00	259.15	459,652.25	725,453.53	32.262255	-103.737691
14,600.00	90.00	359.70	11,665.00	3,045.00	258.63	459,752.25	725,453.02	32.262530	-103.737691
14,700.00	90.00	359.70	11,665.00	3,145.00	258.12	459,852.25	725,452.50	32.262805	-103.737691
14,800.00	90.00	359.70	11,665.00	3,245.00	257.60	459,952.25	725,451.99	32.263079	-103.737691
14,900.00	90.00	359.70	11,665.00	3,344.99	257.09	460,052.25	725,451.47	32.263354	-103.737691
15,000.00	90.00	359.70	11,665.00	3,444.99	256.57	460,152.25	725,450.96	32.263629	-103.737690
15,100.00	90.00	359.70	11,665.00	3,544.99	256.05	460,252.24	725,450.44	32.263904	-103.737690
15,200.00	90.00	359.70	11,665.00	3,644.99	255.54	460,352.24	725,449.92	32.264179	-103.737690
15,300.00	90.00	359.70	11,665.00	3,744.99	255.02	460,452.24	725,449.41	32.264454	-103.737690
15,400.00	90.00	359.70	11,665.00	3,844.99	254.51	460,552.24	725,448.89	32.264729	-103.737690

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Todd 36 State 335H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3541.90ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3541.90ft
Site:	Sec. 36-T23S-R31E	North Reference:	Grid
Well:	Todd 36 State 335H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,500.00	90.00	359.70	11,665.00	3,944.99	253.99	460,652.24	725,448.38	32.265004	-103.737690
15,600.00	90.00	359.70	11,665.00	4,044.98	253.48	460,752.24	725,447.86	32.265278	-103.737690
15,700.00	90.00	359.70	11,665.00	4,144.98	252.96	460,852.24	725,447.35	32.265553	-103.737689
15,800.00	90.00	359.70	11,665.00	4,244.98	252.45	460,952.23	725,446.83	32.265828	-103.737689
15,900.00	90.00	359.70	11,665.00	4,344.98	251.93	461,052.23	725,446.32	32.266103	-103.737689
16,000.00	90.00	359.70	11,665.00	4,444.98	251.41	461,152.23	725,445.80	32.266378	-103.737689
16,100.00	90.00	359.70	11,665.00	4,544.98	250.90	461,252.23	725,445.28	32.266653	-103.737689
16,200.00	90.00	359.70	11,665.00	4,644.98	250.38	461,352.23	725,444.77	32.266928	-103.737689
16,300.00	90.00	359.70	11,665.00	4,744.98	249.87	461,452.23	725,444.25	32.267203	-103.737689
16,400.00	90.00	359.70	11,665.00	4,844.97	249.35	461,552.22	725,443.74	32.267477	-103.737689
16,500.00	90.00	359.70	11,665.00	4,944.97	248.84	461,652.22	725,443.22	32.267752	-103.737688
16,553.12	90.00	359.70	11,665.00	4,998.09	248.56	461,705.34	725,442.95	32.267898	-103.737688
LTP @ 16553' MD, 100' FNL, 730' FWL									
16,600.00	90.00	359.70	11,665.00	5,044.97	248.32	461,752.22	725,442.71	32.268027	-103.737688
16,633.11	90.00	359.70	11,665.00	5,078.08	248.15	461,785.33	725,442.54	32.268118	-103.737688
PBHL; 20' FSL, 730' FWL									
16,633.12	90.00	359.70	11,665.00	5,078.09	248.15	461,785.34	725,442.54	32.268118	-103.737688

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL - Todd 36 State 335H	0.00	0.00	0.00	5,078.09	248.15	461,785.34	725,442.54	32.268118	-103.737688
- plan misses target center by 5084.15ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
11,097.92	11,092.04	-130.00	275.00	KOP @ 11098' MD, 50' FSL, 730' FWL	
11,339.06	11,326.13	-80.00	274.74	FTP @ 11339' MD, 100' FSL, 730' FWL	
16,553.12	11,665.00	4,998.09	248.56	LTP @ 16553' MD, 100' FNL, 730' FWL	
16,633.11	11,665.00	5,078.08	248.15	PBHL; 20' FSL, 730' FWL	