

WCDSC Permian NM

**NM OIL CONSERVATION
ARTESIA DISTRICT**

Eddy County (NAD 83 NM Eastern)

MAY 10 2018

Sec 27-T19S-R29E

Coral PWU 28-27 11H

RECEIVED

Wellbore #1

Plan: Prelim Plan 1

Standard Planning Report - Geographic

09 May, 2018

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Coral PWU 28-27 11H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3333.00ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3333.00ft
Site:	Sec 27-T19S-R29E	North Reference:	Grid
Well:	Coral PWU 28-27 11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Prelim 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 27-T19S-R29E			
Site Position:		Northing:	596,312.10 usft	Latitude: 32.639037
From:	Map	Easting:	622,012.70 usft	Longitude: -104.071247
Position Uncertainty:	5.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.14 °

Well	Coral PWU 28-27 11H			
Well Position	+N/-S	0.00 ft	Northing:	592,241.10 usft
	+E/-W	0.00 ft	Easting:	619,465.50 usft
Position Uncertainty		0.50 ft	Wellhead Elevation:	Latitude: 32.627864
				Longitude: -104.079554
				Ground Level: 3,308.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	4/18/2018	7.13	60.34	48,037.89785587

Design	Prelim Plan 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	83.58

Plan Survey Tool Program	Date	5/9/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(ft)	(ft)			
1	0.00	17,086.67 Prelim Plan 1 (Wellbore #1)	MWD+HDGM	
			OWSG MWD + HDGM	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Coral PWU 28-27 11H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3333.00ft
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Site:	Sec 27-T19S-R29E	North Reference:	Grid
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Wellbore:	Wellbore #1		
Design:	Prelim Plan 1		

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	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	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,361.26	8.61	319.90	3,358.02	49.42	-41.62	1.00	1.00	0.00	319.90	
7,477.65	8.61	319.90	7,427.99	520.95	-438.67	0.00	0.00	0.00	0.00	
8,051.82	0.00	0.00	8,000.00	553.90	-466.42	1.50	-1.50	0.00	180.00	Vertical Point - Coral ;
8,628.86	0.00	0.00	8,577.04	553.90	-466.42	0.00	0.00	0.00	0.00	
9,258.38	67.27	54.36	9,071.60	745.61	-199.05	10.69	10.69	0.00	54.36	
9,646.29	90.00	90.00	9,150.00	854.64	155.90	10.69	5.86	9.19	61.68	
17,086.67	90.00	90.00	9,150.00	854.64	7,596.29	0.00	0.00	0.00	0.00	PBHL - Coral 28-27 1'

Planning Report - Geographic

Database: EDM r5000.141_Prod US
 Company: WCDSC Permian NM
 Project: Eddy County (NAD 83 NM Eastern)
 Site: Sec 27-T19S-R29E
 Well: Coral PWU 28-27 11H
 Wellbore: Wellbore #1
 Design: Prelim Plan 1

Local Co-ordinate Reference
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well Coral PWU 28-27 11H
 RKB @ 3333.00ft
 RKB @ 3333.00ft
 Grid
 Minimum Curvature

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	592,241.10	619,465.50	32.627864	-104.079554
100.00	0.00	0.00	100.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
200.00	0.00	0.00	200.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
300.00	0.00	0.00	300.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
400.00	0.00	0.00	400.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
500.00	0.00	0.00	500.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
600.00	0.00	0.00	600.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
700.00	0.00	0.00	700.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
800.00	0.00	0.00	800.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
900.00	0.00	0.00	900.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
1,000.00	0.00	0.00	1,000.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
1,100.00	0.00	0.00	1,100.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
1,200.00	0.00	0.00	1,200.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
1,300.00	0.00	0.00	1,300.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
1,400.00	0.00	0.00	1,400.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
1,500.00	0.00	0.00	1,500.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
1,600.00	0.00	0.00	1,600.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
1,700.00	0.00	0.00	1,700.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
1,800.00	0.00	0.00	1,800.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
1,900.00	0.00	0.00	1,900.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
2,000.00	0.00	0.00	2,000.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
2,100.00	0.00	0.00	2,100.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
2,200.00	0.00	0.00	2,200.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
2,300.00	0.00	0.00	2,300.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
2,400.00	0.00	0.00	2,400.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
2,500.00	0.00	0.00	2,500.00	0.00	0.00	592,241.10	619,465.50	32.627864	-104.079554
Begin Nudge									
2,600.00	1.00	319.90	2,599.99	0.67	-0.56	592,241.77	619,464.94	32.627866	-104.079556
2,700.00	2.00	319.90	2,699.96	2.67	-2.25	592,243.77	619,463.26	32.627872	-104.079561
2,800.00	3.00	319.90	2,799.86	6.01	-5.06	592,247.11	619,460.45	32.627881	-104.079570
2,900.00	4.00	319.90	2,899.68	10.68	-8.99	592,251.78	619,456.51	32.627894	-104.079583
3,000.00	5.00	319.90	2,999.37	16.68	-14.04	592,257.78	619,451.46	32.627910	-104.079599
3,100.00	6.00	319.90	3,098.90	24.01	-20.22	592,265.11	619,445.29	32.627930	-104.079619
3,200.00	7.00	319.90	3,198.26	32.67	-27.51	592,273.77	619,438.00	32.627954	-104.079643
3,300.00	8.00	319.90	3,297.40	42.65	-35.92	592,283.76	619,429.59	32.627982	-104.079670
3,361.26	8.61	319.90	3,358.02	49.42	-41.62	592,290.52	619,423.89	32.628000	-104.079689
EOB									
3,400.00	8.61	319.90	3,396.32	53.86	-45.35	592,294.96	619,420.15	32.628013	-104.079701
3,500.00	8.61	319.90	3,495.20	65.31	-55.00	592,306.42	619,410.51	32.628044	-104.079732
3,600.00	8.61	319.90	3,594.07	76.77	-64.64	592,317.87	619,400.86	32.628076	-104.079763
3,700.00	8.61	319.90	3,692.94	88.22	-74.29	592,329.33	619,391.21	32.628107	-104.079794
3,800.00	8.61	319.90	3,791.81	99.68	-83.94	592,340.78	619,381.57	32.628139	-104.079826
3,900.00	8.61	319.90	3,890.69	111.13	-93.58	592,352.24	619,371.92	32.628170	-104.079857
4,000.00	8.61	319.90	3,989.56	122.59	-103.23	592,363.69	619,362.28	32.628202	-104.079888
4,100.00	8.61	319.90	4,088.43	134.04	-112.87	592,375.15	619,352.63	32.628233	-104.079919
4,200.00	8.61	319.90	4,187.30	145.50	-122.52	592,386.60	619,342.99	32.628265	-104.079951
4,300.00	8.61	319.90	4,286.17	156.95	-132.16	592,398.06	619,333.34	32.628296	-104.079982
4,400.00	8.61	319.90	4,385.05	168.41	-141.81	592,409.51	619,323.69	32.628328	-104.080013
4,500.00	8.61	319.90	4,483.92	179.86	-151.46	592,420.97	619,314.05	32.628360	-104.080044
4,600.00	8.61	319.90	4,582.79	191.32	-161.10	592,432.42	619,304.40	32.628391	-104.080076
4,700.00	8.61	319.90	4,681.66	202.77	-170.75	592,443.88	619,294.76	32.628423	-104.080107
4,800.00	8.61	319.90	4,780.54	214.23	-180.39	592,455.33	619,285.11	32.628454	-104.080138
4,900.00	8.61	319.90	4,879.41	225.68	-190.04	592,466.79	619,275.47	32.628486	-104.080169

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Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3333.00ft
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Wellbore:	Wellbore #1		
Design:	Prelim 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	
5,000.00	8.61	319.90	4,978.28	237.14	-199.68	592,478.24	619,265.82	32.628517	-104.080201	
5,100.00	8.61	319.90	5,077.15	248.59	-209.33	592,489.70	619,256.17	32.628549	-104.080232	
5,200.00	8.61	319.90	5,176.03	260.05	-218.98	592,501.15	619,246.53	32.628580	-104.080263	
5,300.00	8.61	319.90	5,274.90	271.50	-228.62	592,512.61	619,236.88	32.628612	-104.080294	
5,400.00	8.61	319.90	5,373.77	282.96	-238.27	592,524.06	619,227.24	32.628644	-104.080326	
5,500.00	8.61	319.90	5,472.64	294.41	-247.91	592,535.52	619,217.59	32.628675	-104.080357	
5,600.00	8.61	319.90	5,571.52	305.87	-257.56	592,546.97	619,207.95	32.628707	-104.080388	
5,700.00	8.61	319.90	5,670.39	317.32	-267.20	592,558.43	619,198.30	32.628738	-104.080419	
5,800.00	8.61	319.90	5,769.26	328.78	-276.85	592,569.88	619,188.65	32.628770	-104.080451	
5,900.00	8.61	319.90	5,868.13	340.23	-286.50	592,581.34	619,179.01	32.628801	-104.080482	
6,000.00	8.61	319.90	5,967.00	351.69	-296.14	592,592.79	619,169.36	32.628833	-104.080513	
6,100.00	8.61	319.90	6,065.88	363.14	-305.79	592,604.25	619,159.72	32.628864	-104.080544	
6,200.00	8.61	319.90	6,164.75	374.60	-315.43	592,615.70	619,150.07	32.628896	-104.080576	
6,300.00	8.61	319.90	6,263.62	386.05	-325.08	592,627.16	619,140.43	32.628927	-104.080607	
6,400.00	8.61	319.90	6,362.49	397.51	-334.72	592,638.61	619,130.78	32.628959	-104.080638	
6,500.00	8.61	319.90	6,461.37	408.96	-344.37	592,650.07	619,121.13	32.628991	-104.080669	
6,600.00	8.61	319.90	6,560.24	420.42	-354.02	592,661.52	619,111.49	32.629022	-104.080701	
6,700.00	8.61	319.90	6,659.11	431.87	-363.66	592,672.98	619,101.84	32.629054	-104.080732	
6,800.00	8.61	319.90	6,757.98	443.33	-373.31	592,684.43	619,092.20	32.629085	-104.080763	
6,900.00	8.61	319.90	6,856.86	454.78	-382.95	592,695.89	619,082.55	32.629117	-104.080794	
7,000.00	8.61	319.90	6,955.73	466.24	-392.60	592,707.34	619,072.91	32.629148	-104.080825	
7,100.00	8.61	319.90	7,054.60	477.69	-402.24	592,718.80	619,063.26	32.629180	-104.080857	
7,200.00	8.61	319.90	7,153.47	489.15	-411.89	592,730.25	619,053.61	32.629211	-104.080888	
7,300.00	8.61	319.90	7,252.35	500.60	-421.54	592,741.71	619,043.97	32.629243	-104.080919	
7,400.00	8.61	319.90	7,351.22	512.06	-431.18	592,753.16	619,034.32	32.629275	-104.080950	
7,477.65	8.61	319.90	7,427.99	520.95	-438.67	592,762.06	619,026.83	32.629299	-104.080975	
EOH										
7,500.00	8.28	319.90	7,450.10	523.46	-440.79	592,764.57	619,024.72	32.629306	-104.080982	
7,600.00	6.78	319.90	7,549.24	533.48	-449.22	592,774.59	619,016.28	32.629334	-104.081009	
7,700.00	5.28	319.90	7,648.68	541.52	-455.99	592,782.62	619,009.52	32.629356	-104.081031	
7,800.00	3.78	319.90	7,748.36	547.55	-461.07	592,788.66	619,004.43	32.629372	-104.081047	
7,900.00	2.28	319.90	7,848.22	551.59	-464.47	592,792.70	619,001.03	32.629383	-104.081058	
8,000.00	0.78	319.90	7,948.18	553.63	-466.19	592,794.73	618,999.32	32.629389	-104.081064	
8,051.82	0.00	0.00	8,000.00	553.90	-466.42	592,795.00	618,999.09	32.629390	-104.081065	
Drop to Vertical										
8,100.00	0.00	0.00	8,048.18	553.90	-466.42	592,795.00	618,999.09	32.629390	-104.081065	
8,200.00	0.00	0.00	8,148.18	553.90	-466.42	592,795.00	618,999.09	32.629390	-104.081065	
8,300.00	0.00	0.00	8,248.18	553.90	-466.42	592,795.00	618,999.09	32.629390	-104.081065	
8,400.00	0.00	0.00	8,348.18	553.90	-466.42	592,795.00	618,999.09	32.629390	-104.081065	
8,500.00	0.00	0.00	8,448.18	553.90	-466.42	592,795.00	618,999.09	32.629390	-104.081065	
8,600.00	0.00	0.00	8,548.18	553.90	-466.42	592,795.00	618,999.09	32.629390	-104.081065	
8,628.86	0.00	0.00	8,577.04	553.90	-466.42	592,795.00	618,999.09	32.629390	-104.081065	
KOP @ 8629' MD, 1774' FSL, 3007' FEL										
8,700.00	7.60	54.36	8,647.97	556.65	-462.59	592,797.75	619,002.92	32.629397	-104.081052	
8,800.00	18.29	54.36	8,745.29	569.68	-444.41	592,810.78	619,021.10	32.629433	-104.080993	
8,900.00	28.97	54.36	8,836.77	593.00	-411.88	592,834.10	619,053.62	32.629497	-104.080887	
9,000.00	39.66	54.36	8,919.25	625.80	-366.13	592,866.91	619,099.37	32.629587	-104.080738	
9,100.00	50.34	54.36	8,989.86	666.95	-308.75	592,908.05	619,156.75	32.629699	-104.080552	
9,190.38	60.00	54.36	9,041.42	710.13	-248.53	592,951.23	619,216.98	32.629818	-104.080356	
1st Take Point @ 9190' MD, 1930' FSL, 2789' FEL										
9,200.00	61.03	54.36	9,046.15	715.01	-241.72	592,956.11	619,223.78	32.629831	-104.080333	
9,258.38	67.27	54.36	9,071.60	745.61	-199.05	592,986.71	619,266.46	32.629915	-104.080195	
EOB @ 54.36° TF										

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Coral PWU 28-27 11H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3333.00ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3333.00ft
Site:	Sec 27-T19S-R29E	North Reference:	Grid
Well:	Coral PWU 28-27 11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Prelim 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
9,300.00	69.43	58.54	9,086.96	766.97	-166.82	593,008.07	619,298.69	32.629973	-104.080090
9,400.00	75.00	68.12	9,117.56	809.52	-81.82	593,050.62	619,383.68	32.630090	-104.079813
9,500.00	80.95	77.20	9,138.42	838.54	11.42	593,079.64	619,476.92	32.630169	-104.079510
9,600.00	87.11	85.98	9,148.83	853.02	109.67	593,094.12	619,575.17	32.630208	-104.079191
9,646.29	90.00	90.00	9,150.00	854.64	155.90	593,095.74	619,621.40	32.630212	-104.079041
Land Point; EOT									
9,700.00	90.00	90.00	9,150.00	854.64	209.61	593,095.74	619,675.11	32.630212	-104.078866
9,800.00	90.00	90.00	9,150.00	854.64	309.61	593,095.74	619,775.11	32.630211	-104.078542
9,900.00	90.00	90.00	9,150.00	854.64	409.61	593,095.74	619,875.11	32.630211	-104.078217
10,000.00	90.00	90.00	9,150.00	854.64	509.61	593,095.74	619,975.11	32.630210	-104.077892
10,100.00	90.00	90.00	9,150.00	854.64	609.61	593,095.74	620,075.11	32.630209	-104.077567
10,200.00	90.00	90.00	9,150.00	854.64	709.61	593,095.74	620,175.11	32.630209	-104.077242
10,300.00	90.00	90.00	9,150.00	854.64	809.61	593,095.74	620,275.11	32.630208	-104.076917
10,400.00	90.00	90.00	9,150.00	854.64	909.61	593,095.74	620,375.11	32.630207	-104.076593
10,500.00	90.00	90.00	9,150.00	854.64	1,009.61	593,095.74	620,475.11	32.630207	-104.076268
10,600.00	90.00	90.00	9,150.00	854.64	1,109.61	593,095.74	620,575.11	32.630206	-104.075943
10,700.00	90.00	90.00	9,150.00	854.64	1,209.61	593,095.74	620,675.11	32.630205	-104.075618
10,800.00	90.00	90.00	9,150.00	854.64	1,309.61	593,095.74	620,775.11	32.630205	-104.075293
10,900.00	90.00	90.00	9,150.00	854.64	1,409.61	593,095.74	620,875.11	32.630204	-104.074968
11,000.00	90.00	90.00	9,150.00	854.64	1,509.61	593,095.74	620,975.11	32.630203	-104.074644
11,100.00	90.00	90.00	9,150.00	854.64	1,609.61	593,095.74	621,075.11	32.630203	-104.074319
11,200.00	90.00	90.00	9,150.00	854.64	1,709.61	593,095.74	621,175.11	32.630202	-104.073994
11,300.00	90.00	90.00	9,150.00	854.64	1,809.61	593,095.74	621,275.11	32.630201	-104.073669
11,400.00	90.00	90.00	9,150.00	854.64	1,909.61	593,095.74	621,375.11	32.630201	-104.073344
11,500.00	90.00	90.00	9,150.00	854.64	2,009.61	593,095.74	621,475.11	32.630200	-104.073019
11,600.00	90.00	90.00	9,150.00	854.64	2,109.61	593,095.74	621,575.11	32.630199	-104.072695
11,700.00	90.00	90.00	9,150.00	854.64	2,209.61	593,095.74	621,675.11	32.630199	-104.072370
11,800.00	90.00	90.00	9,150.00	854.64	2,309.61	593,095.74	621,775.11	32.630198	-104.072045
11,900.00	90.00	90.00	9,150.00	854.64	2,409.61	593,095.74	621,875.11	32.630197	-104.071720
12,000.00	90.00	90.00	9,150.00	854.64	2,509.61	593,095.74	621,975.11	32.630197	-104.071395
12,100.00	90.00	90.00	9,150.00	854.64	2,609.61	593,095.74	622,075.11	32.630196	-104.071070
12,200.00	90.00	90.00	9,150.00	854.64	2,709.61	593,095.74	622,175.11	32.630195	-104.070746
12,300.00	90.00	90.00	9,150.00	854.64	2,809.61	593,095.74	622,275.11	32.630195	-104.070421
12,400.00	90.00	90.00	9,150.00	854.64	2,909.61	593,095.74	622,375.11	32.630194	-104.070096
12,500.00	90.00	90.00	9,150.00	854.64	3,009.61	593,095.74	622,475.11	32.630193	-104.069771
12,600.00	90.00	90.00	9,150.00	854.64	3,109.61	593,095.74	622,575.11	32.630193	-104.069446
12,700.00	90.00	90.00	9,150.00	854.64	3,209.61	593,095.74	622,675.11	32.630192	-104.069121
12,800.00	90.00	90.00	9,150.00	854.64	3,309.61	593,095.74	622,775.11	32.630191	-104.068797
12,900.00	90.00	90.00	9,150.00	854.64	3,409.61	593,095.74	622,875.11	32.630190	-104.068472
13,000.00	90.00	90.00	9,150.00	854.64	3,509.61	593,095.74	622,975.11	32.630190	-104.068147
13,100.00	90.00	90.00	9,150.00	854.64	3,609.61	593,095.74	623,075.11	32.630189	-104.067822
13,200.00	90.00	90.00	9,150.00	854.64	3,709.61	593,095.74	623,175.11	32.630188	-104.067497
13,300.00	90.00	90.00	9,150.00	854.64	3,809.61	593,095.74	623,275.11	32.630188	-104.067172
13,400.00	90.00	90.00	9,150.00	854.64	3,909.61	593,095.74	623,375.11	32.630187	-104.066848
13,500.00	90.00	90.00	9,150.00	854.64	4,009.61	593,095.74	623,475.11	32.630186	-104.066523
13,600.00	90.00	90.00	9,150.00	854.64	4,109.61	593,095.74	623,575.11	32.630186	-104.066198
13,700.00	90.00	90.00	9,150.00	854.64	4,209.61	593,095.74	623,675.11	32.630185	-104.065873
13,800.00	90.00	90.00	9,150.00	854.64	4,309.61	593,095.74	623,775.11	32.630184	-104.065548
13,900.00	90.00	90.00	9,150.00	854.64	4,409.61	593,095.74	623,875.11	32.630184	-104.065223
14,000.00	90.00	90.00	9,150.00	854.64	4,509.61	593,095.74	623,975.11	32.630183	-104.064899
14,100.00	90.00	90.00	9,150.00	854.64	4,609.61	593,095.74	624,075.11	32.630182	-104.064574
14,200.00	90.00	90.00	9,150.00	854.64	4,709.61	593,095.74	624,175.11	32.630182	-104.064249
14,300.00	90.00	90.00	9,150.00	854.64	4,809.61	593,095.74	624,275.11	32.630181	-104.063924
14,400.00	90.00	90.00	9,150.00	854.64	4,909.61	593,095.74	624,375.10	32.630180	-104.063599

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Coral PWU 28-27 11H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3333.00ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3333.00ft
Site:	Sec 27-T19S-R29E	North Reference:	Grid
Well:	Coral PWU 28-27 11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Prelim 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
14,500.00	90.00	90.00	9,150.00	854.64	5,009.61	593,095.74	624,475.10	32.630179	-104.063274
14,600.00	90.00	90.00	9,150.00	854.64	5,109.61	593,095.74	624,575.10	32.630179	-104.062950
14,700.00	90.00	90.00	9,150.00	854.64	5,209.61	593,095.74	624,675.10	32.630178	-104.062625
14,800.00	90.00	90.00	9,150.00	854.64	5,309.61	593,095.74	624,775.10	32.630177	-104.062300
14,900.00	90.00	90.00	9,150.00	854.64	5,409.61	593,095.74	624,875.10	32.630177	-104.061975
15,000.00	90.00	90.00	9,150.00	854.64	5,509.61	593,095.74	624,975.10	32.630176	-104.061650
15,100.00	90.00	90.00	9,150.00	854.64	5,609.61	593,095.74	625,075.10	32.630175	-104.061325
15,200.00	90.00	90.00	9,150.00	854.64	5,709.61	593,095.74	625,175.10	32.630175	-104.061001
15,300.00	90.00	90.00	9,150.00	854.64	5,809.61	593,095.74	625,275.10	32.630174	-104.060676
15,400.00	90.00	90.00	9,150.00	854.64	5,909.61	593,095.74	625,375.10	32.630173	-104.060351
15,500.00	90.00	90.00	9,150.00	854.64	6,009.61	593,095.74	625,475.10	32.630172	-104.060026
15,600.00	90.00	90.00	9,150.00	854.64	6,109.61	593,095.74	625,575.10	32.630172	-104.059701
15,700.00	90.00	90.00	9,150.00	854.64	6,209.61	593,095.74	625,675.10	32.630171	-104.059377
15,800.00	90.00	90.00	9,150.00	854.64	6,309.61	593,095.74	625,775.10	32.630170	-104.059052
15,900.00	90.00	90.00	9,150.00	854.64	6,409.61	593,095.74	625,875.10	32.630170	-104.058727
16,000.00	90.00	90.00	9,150.00	854.64	6,509.61	593,095.74	625,975.10	32.630169	-104.058402
16,100.00	90.00	90.00	9,150.00	854.64	6,609.61	593,095.74	626,075.10	32.630168	-104.058077
16,200.00	90.00	90.00	9,150.00	854.64	6,709.61	593,095.74	626,175.10	32.630167	-104.057752
16,300.00	90.00	90.00	9,150.00	854.64	6,809.61	593,095.74	626,275.10	32.630167	-104.057428
16,400.00	90.00	90.00	9,150.00	854.64	6,909.61	593,095.74	626,375.10	32.630166	-104.057103
16,500.00	90.00	90.00	9,150.00	854.64	7,009.61	593,095.74	626,475.10	32.630165	-104.056778
16,600.00	90.00	90.00	9,150.00	854.64	7,109.61	593,095.74	626,575.10	32.630165	-104.056453
16,700.00	90.00	90.00	9,150.00	854.64	7,209.61	593,095.74	626,675.10	32.630164	-104.056128
16,800.00	90.00	90.00	9,150.00	854.64	7,309.61	593,095.74	626,775.10	32.630163	-104.055803
16,900.00	90.00	90.00	9,150.00	854.64	7,409.61	593,095.74	626,875.10	32.630162	-104.055479
16,986.67	90.00	90.00	9,150.00	854.64	7,496.28	593,095.74	626,961.77	32.630162	-104.055197
Last Take Point @ 17216' MD, 2090' FSL, 330' FEL									
17,000.00	90.00	90.00	9,150.00	854.64	7,509.61	593,095.74	626,975.10	32.630162	-104.055154
17,086.67	90.00	90.00	9,150.00	854.64	7,596.28	593,095.74	627,061.77	32.630161	-104.054872
PBHL; 2090' FSL, 230' FEL									

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 - Coral 28-27 11H	0.00	0.00	0.00	854.64	7,596.29	593,095.74	627,061.77	32.630161	-104.054872
- plan misses target center by 7644.21ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Vertical Point - Coral 28-	0.00	0.00	8,000.00	553.90	-466.42	592,795.00	618,999.09	32.629390	-104.081065
- plan hits target center									
- Point									

Planning Report - Geographic

Database: EDM r5000.141_Prod US
Company: WCDSC Permian NM
Project: Eddy County (NAD 83 NM Eastern)
Site: Sec 27-T19S-R29E
Well: Coral PWU 28-27 11H
Wellbore: Wellbore #1
Design: Prelim Plan 1

Local Co-ordinate Reference
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Coral PWU 28-27 11H
 RKB @ 3333.00ft
 RKB @ 3333.00ft
 Grid
 Minimum Curvature

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,500.00	2,500.00	0.00	0.00	Begin Nudge
3,361.26	3,358.02	49.42	-41.62	EOB
7,477.65	7,427.99	520.95	-438.67	EOH
8,051.82	8,000.00	553.90	-466.42	Drop to Vertical
8,628.86	8,577.04	553.90	-466.42	KOP @ 8629' MD, 1774' FSL, 3007' FEL
9,190.38	9,041.42	710.13	-248.53	1st Take Point @ 9190' MD, 1930' FSL, 2789' FEL
9,258.38	9,071.60	745.61	-199.05	EOB @ 54.36° TF
9,646.29	9,150.00	854.64	155.90	Land Point; EOT
16,986.67	9,150.00	854.64	7,496.28	Last Take Point @ 17216' MD, 2090' FSL, 330' FEL
17,086.67	9,150.00	854.64	7,596.28	PBHL; 2090' FSL, 230' FEL

WCDSC Permian NM

WELL DETAILS: Coral PWU 28-27 11H

RKB @ 3333.00ft
3308.00

Northing 592241.10 Easting 619465.90 Latitude 32.627864 Longitude -104.079554

SECTION DETAILS Prelim Plan 1

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Begin Nudge
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	-35.83	EOB
3361.26	8.61	319.90	3358.02	49.42	-41.62	1.00	-377.68	EOH
7477.65	8.61	319.90	7427.99	520.95	-438.67	0.00	-401.56	Drop to Vertical
8051.82	0.00	0.00	8000.00	553.90	-466.42	1.50	-401.56	KOP @ 8629' MD, 1774' FSL, 3007' FEL
8628.86	0.00	0.00	8577.04	553.90	-466.42	0.00	-401.56	EOB @ 54.36° TF
9258.38	67.27	54.36	9071.60	745.61	-199.05	10.69	-114.44	Land Point; EOT
9646.29	90.00	90.00	9150.00	854.64	155.90	10.69	250.47	PBHL; 2090' FSL, 230' FEL
17086.67	90.00	90.00	9150.00	854.64	7596.29	0.00	7644.21	

