

**NM OIL CONSERVATION
ARTESIA DISTRICT**

JUN 27 2018

RECEIVED

WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)

Sec 27-T19S-R29E

Coral PWU 28-27 11H

Wellbore #1

30.015-44960

Plan: Permit Plan 2

Standard Planning Report - Geographic

25 June, 2018

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Coral PWU 28-27 11H
Company:	WCDCS Permian NM	TVD Reference:	RKB1 @ 3325.90ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB1 @ 3325.90ft
Site:	Sec 27-T19S-R29E	North Reference:	Grid
Well:	Coral PWU 28-27 11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

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	Latitude:	32.627864
	+E/-W	0.00 ft	Easting:	619,435.50 usft	Longitude:	-104.079651
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,299.90 ft

Wellbore	Wellbore #1					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
			(°)	(°)	(nT)	
	IGRF2015	4/18/2018	7.13	60.34	48,037.93955431	

Design	Permit Plan 2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	83.61

Plan Survey Tool Program	Date	6/25/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(ft)	(ft)			
1	0.00	17,056.59 Permit Plan 2 (Wellbore #1)	MWD+HDGM OWSG MWD + HDGM	

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: Permit Plan 2

Local Co-ordinate Reference: Well Coral PWU 28-27 11H
TVD Reference: RKB1 @ 3325.90ft
MD Reference: RKB1 @ 3325.90ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	
3,310.64	8.11	323.73	3,307.94	46.16	-33.87	1.00	1.00	0.00	323.73	
7,506.00	8.11	323.73	7,461.38	523.13	-383.84	0.00	0.00	0.00	0.00	
8,046.42	0.00	0.00	8,000.00	553.90	-406.42	1.50	-1.50	0.00	180.00	
8,623.46	0.00	0.00	8,577.04	553.90	-406.42	0.00	0.00	0.00	0.00	
9,168.02	59.52	49.61	9,028.81	721.28	-209.68	10.93	10.93	0.00	49.61	
9,616.09	90.00	90.00	9,149.91	854.61	185.79	10.93	6.80	9.01	59.20	PBHL - Coral PWU 28
17,056.59	90.00	90.00	9,149.91	854.64	7,626.29	0.00	0.00	0.00	0.00	PBHL - Coral PWU 28

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: Permit Plan 2

Local Co-ordinate Reference Well Coral PWU 28-27 11H
 TVD Reference: RKB1 @ 3325.90ft
 MD Reference: RKB1 @ 3325.90ft
 North Reference: Grid
 Survey Calculation Method: 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	619,435.50	32.627864	-104.079651
100.00	0.00	0.00	100.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
200.00	0.00	0.00	200.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
300.00	0.00	0.00	300.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
400.00	0.00	0.00	400.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
500.00	0.00	0.00	500.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
600.00	0.00	0.00	600.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
700.00	0.00	0.00	700.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
800.00	0.00	0.00	800.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
900.00	0.00	0.00	900.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
1,000.00	0.00	0.00	1,000.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
1,100.00	0.00	0.00	1,100.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
1,200.00	0.00	0.00	1,200.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
1,300.00	0.00	0.00	1,300.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
1,400.00	0.00	0.00	1,400.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
1,500.00	0.00	0.00	1,500.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
1,600.00	0.00	0.00	1,600.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
1,700.00	0.00	0.00	1,700.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
1,800.00	0.00	0.00	1,800.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
1,900.00	0.00	0.00	1,900.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
2,000.00	0.00	0.00	2,000.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
2,100.00	0.00	0.00	2,100.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
2,200.00	0.00	0.00	2,200.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
2,300.00	0.00	0.00	2,300.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
2,400.00	0.00	0.00	2,400.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
2,500.00	0.00	0.00	2,500.00	0.00	0.00	592,241.10	619,435.50	32.627864	-104.079651
2,600.00	1.00	323.73	2,599.99	0.70	-0.52	592,241.81	619,434.99	32.627866	-104.079653
2,700.00	2.00	323.73	2,699.96	2.81	-2.06	592,243.92	619,433.44	32.627872	-104.079658
2,800.00	3.00	323.73	2,799.86	6.33	-4.65	592,247.43	619,430.86	32.627882	-104.079666
2,900.00	4.00	323.73	2,899.68	11.25	-8.26	592,252.36	619,427.25	32.627895	-104.079678
3,000.00	5.00	323.73	2,999.37	17.58	-12.90	592,258.68	619,422.61	32.627913	-104.079693
3,100.00	6.00	323.73	3,098.90	25.31	-18.57	592,266.41	619,416.94	32.627934	-104.079711
3,200.00	7.00	323.73	3,198.26	34.43	-25.26	592,275.54	619,410.24	32.627959	-104.079733
3,300.00	8.00	323.73	3,297.40	44.96	-32.99	592,286.06	619,402.52	32.627988	-104.079758
3,310.64	8.11	323.73	3,307.94	46.16	-33.87	592,287.26	619,401.64	32.627992	-104.079761
3,400.00	8.11	323.73	3,396.41	56.32	-41.32	592,297.42	619,394.18	32.628019	-104.079785
3,500.00	8.11	323.73	3,495.41	67.69	-49.66	592,308.79	619,385.84	32.628051	-104.079812
3,600.00	8.11	323.73	3,594.41	79.06	-58.01	592,320.16	619,377.50	32.628082	-104.079839
3,700.00	8.11	323.73	3,693.41	90.42	-66.35	592,331.53	619,369.16	32.628113	-104.079866
3,800.00	8.11	323.73	3,792.41	101.79	-74.69	592,342.90	619,360.81	32.628145	-104.079893
3,900.00	8.11	323.73	3,891.41	113.16	-83.03	592,354.27	619,352.47	32.628176	-104.079920
4,000.00	8.11	323.73	3,990.41	124.53	-91.37	592,365.63	619,344.13	32.628207	-104.079947
4,100.00	8.11	323.73	4,089.41	135.90	-99.72	592,377.00	619,335.79	32.628239	-104.079974
4,200.00	8.11	323.73	4,188.41	147.27	-108.06	592,388.37	619,327.45	32.628270	-104.080001
4,300.00	8.11	323.73	4,287.41	158.64	-116.40	592,399.74	619,319.10	32.628301	-104.080028
4,400.00	8.11	323.73	4,386.41	170.01	-124.74	592,411.11	619,310.76	32.628333	-104.080055
4,500.00	8.11	323.73	4,485.41	181.38	-133.08	592,422.48	619,302.42	32.628364	-104.080082
4,600.00	8.11	323.73	4,584.42	192.75	-141.43	592,433.85	619,294.08	32.628395	-104.080109
4,700.00	8.11	323.73	4,683.42	204.11	-149.77	592,445.22	619,285.74	32.628426	-104.080136
4,800.00	8.11	323.73	4,782.42	215.48	-158.11	592,456.59	619,277.39	32.628458	-104.080163
4,900.00	8.11	323.73	4,881.42	226.85	-166.45	592,467.96	619,269.05	32.628489	-104.080190
5,000.00	8.11	323.73	4,980.42	238.22	-174.79	592,479.32	619,260.71	32.628520	-104.080217
5,100.00	8.11	323.73	5,079.42	249.59	-183.14	592,490.69	619,252.37	32.628552	-104.080244
5,200.00	8.11	323.73	5,178.42	260.96	-191.48	592,502.06	619,244.03	32.628583	-104.080271

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 Well: Coral PWU 28-27 11H
 Wellbore: Wellbore #1
 Design: Permit Plan 2

Local Co-ordinate Reference Well Coral PWU 28-27 11H
 TVD Reference: RKB1 @ 3325.90ft
 MD Reference: RKB1 @ 3325.90ft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey										
Measured			Vertical			Map	Map			
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)			
5,300.00	8.11	323.73	5,277.42	272.33	-199.82	592,513.43	619,235.69	32.628614	-104.080298	
5,400.00	8.11	323.73	5,376.42	283.70	-208.16	592,524.80	619,227.34	32.628646	-104.080325	
5,500.00	8.11	323.73	5,475.42	295.07	-216.50	592,536.17	619,219.00	32.628677	-104.080352	
5,600.00	8.11	323.73	5,574.42	306.44	-224.84	592,547.54	619,210.66	32.628708	-104.080379	
5,700.00	8.11	323.73	5,673.42	317.80	-233.19	592,558.91	619,202.32	32.628739	-104.080406	
5,800.00	8.11	323.73	5,772.42	329.17	-241.53	592,570.28	619,193.98	32.628771	-104.080433	
5,900.00	8.11	323.73	5,871.43	340.54	-249.87	592,581.64	619,185.63	32.628802	-104.080460	
6,000.00	8.11	323.73	5,970.43	351.91	-258.21	592,593.01	619,177.29	32.628833	-104.080487	
6,100.00	8.11	323.73	6,069.43	363.28	-266.55	592,604.38	619,168.95	32.628865	-104.080514	
6,200.00	8.11	323.73	6,168.43	374.65	-274.90	592,615.75	619,160.61	32.628896	-104.080541	
6,300.00	8.11	323.73	6,267.43	386.02	-283.24	592,627.12	619,152.27	32.628927	-104.080568	
6,400.00	8.11	323.73	6,366.43	397.39	-291.58	592,638.49	619,143.92	32.628959	-104.080595	
6,500.00	8.11	323.73	6,465.43	408.76	-299.92	592,649.86	619,135.58	32.628990	-104.080622	
6,600.00	8.11	323.73	6,564.43	420.13	-308.26	592,661.23	619,127.24	32.629021	-104.080649	
6,700.00	8.11	323.73	6,663.43	431.49	-316.61	592,672.60	619,118.90	32.629053	-104.080676	
6,800.00	8.11	323.73	6,762.43	442.86	-324.95	592,683.97	619,110.56	32.629084	-104.080703	
6,900.00	8.11	323.73	6,861.43	454.23	-333.29	592,695.33	619,102.21	32.629115	-104.080730	
7,000.00	8.11	323.73	6,960.43	465.60	-341.63	592,706.70	619,093.87	32.629146	-104.080757	
7,100.00	8.11	323.73	7,059.44	476.97	-349.97	592,718.07	619,085.53	32.629178	-104.080784	
7,200.00	8.11	323.73	7,158.44	488.34	-358.32	592,729.44	619,077.19	32.629209	-104.080811	
7,300.00	8.11	323.73	7,257.44	499.71	-366.66	592,740.81	619,068.85	32.629240	-104.080838	
7,400.00	8.11	323.73	7,356.44	511.08	-375.00	592,752.18	619,060.51	32.629272	-104.080865	
7,500.00	8.11	323.73	7,455.44	522.45	-383.34	592,763.55	619,052.16	32.629303	-104.080892	
7,506.00	8.11	323.73	7,461.38	523.13	-383.84	592,764.23	619,051.66	32.629305	-104.080894	
7,600.00	6.70	323.73	7,554.59	532.89	-391.00	592,773.99	619,044.50	32.629332	-104.080917	
7,700.00	5.20	323.73	7,654.05	541.24	-397.13	592,782.35	619,038.37	32.629355	-104.080937	
7,800.00	3.70	323.73	7,753.75	547.49	-401.72	592,788.60	619,033.79	32.629372	-104.080952	
7,900.00	2.20	323.73	7,853.61	551.64	-404.76	592,792.74	619,030.74	32.629383	-104.080962	
8,000.00	0.70	323.73	7,953.58	553.67	-406.25	592,794.77	619,029.25	32.629389	-104.080967	
8,046.42	0.00	0.00	8,000.00	553.90	-406.42	592,795.00	619,029.08	32.629390	-104.080967	
8,100.00	0.00	0.00	8,053.58	553.90	-406.42	592,795.00	619,029.08	32.629390	-104.080967	
8,200.00	0.00	0.00	8,153.58	553.90	-406.42	592,795.00	619,029.08	32.629390	-104.080967	
8,300.00	0.00	0.00	8,253.58	553.90	-406.42	592,795.00	619,029.08	32.629390	-104.080967	
8,400.00	0.00	0.00	8,353.58	553.90	-406.42	592,795.00	619,029.08	32.629390	-104.080967	
8,500.00	0.00	0.00	8,453.58	553.90	-406.42	592,795.00	619,029.08	32.629390	-104.080967	
8,600.00	0.00	0.00	8,553.58	553.90	-406.42	592,795.00	619,029.08	32.629390	-104.080967	
8,623.46	0.00	0.00	8,577.04	553.90	-406.42	592,795.00	619,029.08	32.629390	-104.080967	
KOP @ 8623' MD, 1774' FSL, 2977' FEL										
8,700.00	8.37	49.61	8,653.31	557.51	-402.17	592,798.62	619,033.33	32.629399	-104.080953	
8,800.00	19.30	49.61	8,750.26	572.98	-383.99	592,814.08	619,051.51	32.629442	-104.080894	
8,900.00	30.23	49.61	8,840.93	600.08	-352.14	592,841.18	619,083.36	32.629516	-104.080790	
9,000.00	41.16	49.61	8,922.02	637.83	-307.77	592,878.93	619,127.73	32.629620	-104.080646	
9,100.00	52.09	49.61	8,990.60	684.85	-252.50	592,925.95	619,183.01	32.629749	-104.080466	
9,126.00	54.93	49.61	9,006.06	698.39	-236.58	592,939.50	619,198.92	32.629786	-104.080414	
First Take Point @ 9126' MD, 1919' FSL, 2807' FEL										
9,168.02	59.52	49.61	9,028.81	721.28	-209.68	592,962.38	619,225.83	32.629848	-104.080327	
9,200.00	61.35	53.03	9,044.59	738.66	-187.96	592,979.76	619,247.54	32.629896	-104.080256	
9,300.00	67.59	62.99	9,087.75	786.18	-111.49	593,027.28	619,324.01	32.630026	-104.080007	
9,400.00	74.37	72.06	9,120.38	822.11	-24.23	593,063.21	619,411.27	32.630124	-104.079724	
9,500.00	81.51	80.54	9,141.30	845.13	70.64	593,086.24	619,506.15	32.630187	-104.079415	
9,600.00	88.82	88.70	9,149.74	854.43	169.70	593,095.53	619,605.20	32.630212	-104.079093	
9,616.09	90.00	90.00	9,149.91	854.61	185.79	593,095.71	619,621.29	32.630212	-104.079041	
9,700.00	90.00	90.00	9,149.91	854.61	269.70	593,095.71	619,705.20	32.630212	-104.078769	

Planning Report - Geographic

Database: EDM r5000.141_Prod US
 Company: WCDCS Permian NM
 Project: Eddy County (NAD 83 NM Eastern)
 Site: Sec 27-T19S-R29E
 Well: Coral PWU 28-27 11H
 Wellbore: Wellbore #1
 Design: Permit Plan 2

Local Co-ordinate Reference
 TVD Reference: RKB1 @ 3325.90ft
 MD Reference: RKB1 @ 3325.90ft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured			Vertical			Map	Map		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
9,800.00	90.00	90.00	9,149.91	854.61	369.70	593,095.71	619,805.20	32.630211	-104.078444
9,900.00	90.00	90.00	9,149.91	854.61	469.70	593,095.71	619,905.20	32.630210	-104.078119
10,000.00	90.00	90.00	9,149.91	854.61	569.70	593,095.71	620,005.20	32.630210	-104.077794
10,100.00	90.00	90.00	9,149.91	854.61	669.70	593,095.71	620,105.20	32.630209	-104.077469
10,200.00	90.00	90.00	9,149.91	854.61	769.70	593,095.72	620,205.20	32.630208	-104.077144
10,300.00	90.00	90.00	9,149.91	854.61	869.70	593,095.72	620,305.20	32.630208	-104.076820
10,400.00	90.00	90.00	9,149.91	854.61	969.70	593,095.72	620,405.20	32.630207	-104.076495
10,500.00	90.00	90.00	9,149.91	854.61	1,069.70	593,095.72	620,505.20	32.630206	-104.076170
10,600.00	90.00	90.00	9,149.91	854.62	1,169.70	593,095.72	620,605.20	32.630206	-104.075845
10,700.00	90.00	90.00	9,149.91	854.62	1,269.70	593,095.72	620,705.20	32.630205	-104.075520
10,800.00	90.00	90.00	9,149.91	854.62	1,369.70	593,095.72	620,805.20	32.630204	-104.075195
10,900.00	90.00	90.00	9,149.91	854.62	1,469.70	593,095.72	620,905.20	32.630204	-104.074871
11,000.00	90.00	90.00	9,149.91	854.62	1,569.70	593,095.72	621,005.20	32.630203	-104.074546
11,100.00	90.00	90.00	9,149.91	854.62	1,669.70	593,095.72	621,105.20	32.630202	-104.074221
11,200.00	90.00	90.00	9,149.91	854.62	1,769.70	593,095.72	621,205.20	32.630202	-104.073896
11,300.00	90.00	90.00	9,149.91	854.62	1,869.70	593,095.72	621,305.20	32.630201	-104.073571
11,400.00	90.00	90.00	9,149.91	854.62	1,969.70	593,095.72	621,405.20	32.630200	-104.073246
11,500.00	90.00	90.00	9,149.91	854.62	2,069.70	593,095.72	621,505.20	32.630200	-104.072922
11,600.00	90.00	90.00	9,149.91	854.62	2,169.70	593,095.72	621,605.20	32.630199	-104.072597
11,700.00	90.00	90.00	9,149.91	854.62	2,269.70	593,095.72	621,705.20	32.630198	-104.072272
11,800.00	90.00	90.00	9,149.91	854.62	2,369.70	593,095.72	621,805.20	32.630198	-104.071947
11,900.00	90.00	90.00	9,149.91	854.62	2,469.70	593,095.72	621,905.20	32.630197	-104.071622
12,000.00	90.00	90.00	9,149.91	854.62	2,569.70	593,095.72	622,005.20	32.630196	-104.071297
12,100.00	90.00	90.00	9,149.91	854.62	2,669.70	593,095.72	622,105.20	32.630196	-104.070973
12,200.00	90.00	90.00	9,149.91	854.62	2,769.70	593,095.72	622,205.20	32.630195	-104.070648
12,300.00	90.00	90.00	9,149.91	854.62	2,869.70	593,095.72	622,305.20	32.630194	-104.070323
12,400.00	90.00	90.00	9,149.91	854.62	2,969.70	593,095.72	622,405.20	32.630194	-104.069998
12,500.00	90.00	90.00	9,149.91	854.62	3,069.70	593,095.72	622,505.20	32.630193	-104.069673
12,600.00	90.00	90.00	9,149.91	854.62	3,169.70	593,095.73	622,605.20	32.630192	-104.069349
12,700.00	90.00	90.00	9,149.91	854.62	3,269.70	593,095.73	622,705.20	32.630192	-104.069024
12,800.00	90.00	90.00	9,149.91	854.62	3,369.70	593,095.73	622,805.20	32.630191	-104.068699
12,900.00	90.00	90.00	9,149.91	854.62	3,469.70	593,095.73	622,905.20	32.630190	-104.068374
13,000.00	90.00	90.00	9,149.91	854.63	3,569.70	593,095.73	623,005.20	32.630190	-104.068049
13,100.00	90.00	90.00	9,149.91	854.63	3,669.70	593,095.73	623,105.19	32.630189	-104.067724
13,200.00	90.00	90.00	9,149.91	854.63	3,769.70	593,095.73	623,205.19	32.630188	-104.067400
13,300.00	90.00	90.00	9,149.91	854.63	3,869.70	593,095.73	623,305.19	32.630187	-104.067075
13,400.00	90.00	90.00	9,149.91	854.63	3,969.70	593,095.73	623,405.19	32.630187	-104.066750
13,500.00	90.00	90.00	9,149.91	854.63	4,069.70	593,095.73	623,505.19	32.630186	-104.066425
13,600.00	90.00	90.00	9,149.91	854.63	4,169.70	593,095.73	623,605.19	32.630185	-104.066100
13,700.00	90.00	90.00	9,149.91	854.63	4,269.70	593,095.73	623,705.19	32.630185	-104.065775
13,800.00	90.00	90.00	9,149.91	854.63	4,369.70	593,095.73	623,805.19	32.630184	-104.065451
13,900.00	90.00	90.00	9,149.91	854.63	4,469.70	593,095.73	623,905.19	32.630183	-104.065126
14,000.00	90.00	90.00	9,149.91	854.63	4,569.70	593,095.73	624,005.19	32.630183	-104.064801
14,100.00	90.00	90.00	9,149.91	854.63	4,669.70	593,095.73	624,105.19	32.630182	-104.064476
14,200.00	90.00	90.00	9,149.91	854.63	4,769.70	593,095.73	624,205.19	32.630181	-104.064151
14,300.00	90.00	90.00	9,149.91	854.63	4,869.70	593,095.73	624,305.19	32.630181	-104.063826
14,400.00	90.00	90.00	9,149.91	854.63	4,969.70	593,095.73	624,405.19	32.630180	-104.063502
14,500.00	90.00	90.00	9,149.91	854.63	5,069.70	593,095.73	624,505.19	32.630179	-104.063177
14,600.00	90.00	90.00	9,149.91	854.63	5,169.70	593,095.73	624,605.19	32.630178	-104.062852
14,700.00	90.00	90.00	9,149.91	854.63	5,269.70	593,095.73	624,705.19	32.630178	-104.062527
14,800.00	90.00	90.00	9,149.91	854.63	5,369.70	593,095.73	624,805.19	32.630177	-104.062202
14,900.00	90.00	90.00	9,149.91	854.63	5,469.70	593,095.73	624,905.19	32.630176	-104.061877
15,000.00	90.00	90.00	9,149.91	854.63	5,569.70	593,095.73	625,005.19	32.630176	-104.061553
15,100.00	90.00	90.00	9,149.91	854.63	5,669.70	593,095.74	625,105.19	32.630175	-104.061228

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: Permit Plan 2

Local Co-ordinate Reference Well Coral PWU 28-27 11H
 TVD Reference: RKB1 @ 3325.90ft
 MD Reference: RKB1 @ 3325.90ft
 North Reference: Grid
 Survey Calculation Method: 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
15,200.00	90.00	90.00	9,149.91	854.63	5,769.70	593,095.74	625,205.19	32.630174	-104.060903
15,300.00	90.00	90.00	9,149.91	854.63	5,869.70	593,095.74	625,305.19	32.630174	-104.060578
15,400.00	90.00	90.00	9,149.91	854.63	5,969.70	593,095.74	625,405.19	32.630173	-104.060253
15,500.00	90.00	90.00	9,149.91	854.64	6,069.70	593,095.74	625,505.19	32.630172	-104.059928
15,600.00	90.00	90.00	9,149.91	854.64	6,169.70	593,095.74	625,605.19	32.630171	-104.059604
15,700.00	90.00	90.00	9,149.91	854.64	6,269.70	593,095.74	625,705.19	32.630171	-104.059279
15,800.00	90.00	90.00	9,149.91	854.64	6,369.70	593,095.74	625,805.19	32.630170	-104.058954
15,900.00	90.00	90.00	9,149.91	854.64	6,469.70	593,095.74	625,905.19	32.630169	-104.058629
16,000.00	90.00	90.00	9,149.91	854.64	6,569.70	593,095.74	626,005.19	32.630169	-104.058304
16,100.00	90.00	90.00	9,149.91	854.64	6,669.70	593,095.74	626,105.19	32.630168	-104.057979
16,200.00	90.00	90.00	9,149.91	854.64	6,769.70	593,095.74	626,205.19	32.630167	-104.057655
16,300.00	90.00	90.00	9,149.91	854.64	6,869.70	593,095.74	626,305.19	32.630166	-104.057330
16,400.00	90.00	90.00	9,149.91	854.64	6,969.70	593,095.74	626,405.19	32.630166	-104.057005
16,500.00	90.00	90.00	9,149.91	854.64	7,069.70	593,095.74	626,505.19	32.630165	-104.056680
16,600.00	90.00	90.00	9,149.91	854.64	7,169.70	593,095.74	626,605.19	32.630164	-104.056355
16,700.00	90.00	90.00	9,149.91	854.64	7,269.70	593,095.74	626,705.19	32.630164	-104.056030
16,800.00	90.00	90.00	9,149.91	854.64	7,369.70	593,095.74	626,805.19	32.630163	-104.055706
16,900.00	90.00	90.00	9,149.91	854.64	7,469.70	593,095.74	626,905.19	32.630162	-104.055381
16,956.59	90.00	90.00	9,149.91	854.64	7,526.29	593,095.74	626,961.78	32.630162	-104.055197
Last Take Point @ 16957' MD, 2090' FSL, 330' FEL									
17,000.00	90.00	90.00	9,149.91	854.64	7,569.70	593,095.74	627,005.19	32.630161	-104.055056
17,056.59	90.00	90.00	9,149.91	854.64	7,626.29	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
PBHL - Coral PWU 28-2	0.00	0.00	0.00	854.64	7,626.29	593,095.74	627,061.77	32.630161	-104.054872
- hit/miss target									
- Shape									
- plan misses target center by 7674.02ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
8,623.46	8,577.04	553.90	-406.42	KOP @ 8623' MD, 1774' FSL, 2977' FEL
9,126.00	9,006.06	698.39	-236.58	First Take Point @ 9126' MD, 1919' FSL, 2807' FEL
16,956.59	9,149.91	854.64	7,526.29	Last Take Point @ 16957' MD, 2090' FSL, 330' FEL
17,056.59	9,149.91	854.64	7,626.29	PBHL; 2090' FSL, 230' FEL

WCDC Permian NM

WELL DETAILS: Coral FWU 28-27 11H

RKB1 @ 3325.90R
3299.90

Northing 592241.10 Easting 819435.50 Latitude 32.627864 Longitude -104.079651

SECTION DETAILS Permit Plan 2

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	
3310.64	8.11	323.73	3307.94	46.16	-33.87	1.00	-28.52	
7506.00	8.11	323.73	7481.38	523.13	-383.84	0.00	-323.19	
8046.42	0.00	0.00	8000.00	553.90	-406.42	1.50	-342.20	
8	8623.48	0.00	8577.04	553.90	-406.42	0.00	-342.20	KOP @ 8623' MD, 1774' FSL, 2977'
7	9168.02	59.52	49.61	8028.81	721.28	-209.68	10.93	-128.05
6	9616.09	90.00	90.00	9149.91	854.61	185.79	10.93	278.81
9	17056.59	90.00	90.00	9149.91	854.61	7626.29	0.00	7674.02 PBHL; 2090' FSL, 230' FEL

