

**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 62H

30-015-44962

Wellbore #1

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 62H
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 62H	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 62H			
Well Position	+N/-S	0.00 ft	Northing:	592,241.10 usft
	+E/-W	0.00 ft	Easting:	619,405.50 usft
Position Uncertainty		0.50 ft	Wellhead Elevation:	Latitude: 32.627865
				Longitude: -104.079749
				Ground Level: 3,300.50 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	4/18/2018	7.13	60.34	48,037.92467390

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	90.19

Plan Survey Tool Program	Date	6/25/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(ft)	(ft)			
1	0.00	17,001.97 Permit Plan 2 (Wellbore #1)	MWD+HDGM	
			OWSG MWD + HDGM	

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	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,543.63	6.80	266.43	4,542.36	-2.01	-32.14	1.25	1.25	0.00	266.43	
7,570.58	6.80	266.43	7,548.04	-24.33	-389.60	0.00	0.00	0.00	0.00	
8,023.60	0.00	0.01	8,000.00	-26.00	-416.38	1.50	-1.50	0.00	180.00	
8,600.64	0.00	0.01	8,577.04	-26.00	-416.38	0.00	0.00	0.00	0.01	
9,500.64	90.00	90.00	9,150.00	-25.95	156.58	10.00	10.00	0.00	90.00	PBHL - Coral 28-27 6:
17,002.04	90.00	90.00	9,150.00	-25.36	7,657.98	0.00	0.00	0.00	0.00	PBHL - Coral 28-27 6:

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 62H
 Wellbore: Wellbore #1
 Design: Permit Plan 2

Local Co-ordinate Reference: Well Coral PWU 28-27 62H
 TVD Reference: RKB @ 3333.00ft
 MD Reference: RKB @ 3333.00ft
 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)			
0.00	0.00	0.00	0.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
100.00	0.00	0.00	100.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
200.00	0.00	0.00	200.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
300.00	0.00	0.00	300.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
400.00	0.00	0.00	400.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
500.00	0.00	0.00	500.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
600.00	0.00	0.00	600.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
700.00	0.00	0.00	700.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
800.00	0.00	0.00	800.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
900.00	0.00	0.00	900.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
3,400.00	0.00	0.00	3,400.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
3,600.00	0.00	0.00	3,600.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
3,900.00	0.00	0.00	3,900.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	592,241.10	619,405.50	32.627865	-104.079749	
4,100.00	1.25	266.43	4,099.99	-0.07	-1.09	592,241.04	619,404.42	32.627864	-104.079752	
4,200.00	2.50	266.43	4,199.94	-0.27	-4.35	592,240.83	619,401.15	32.627864	-104.079763	
4,300.00	3.75	266.43	4,299.79	-0.61	-9.79	592,240.49	619,395.71	32.627863	-104.079781	
4,400.00	5.00	266.43	4,399.49	-1.09	-17.41	592,240.02	619,388.10	32.627862	-104.079805	
4,500.00	6.25	266.43	4,499.01	-1.70	-27.19	592,239.41	619,378.31	32.627860	-104.079837	
4,543.63	6.80	266.43	4,542.36	-2.01	-32.14	592,239.10	619,373.37	32.627859	-104.079853	
4,600.00	6.80	266.43	4,598.33	-2.42	-38.79	592,238.68	619,366.71	32.627858	-104.079875	
4,700.00	6.80	266.43	4,697.63	-3.16	-50.60	592,237.94	619,354.90	32.627856	-104.079913	
4,800.00	6.80	266.43	4,796.93	-3.90	-62.41	592,237.21	619,343.09	32.627854	-104.079951	
4,900.00	6.80	266.43	4,896.22	-4.63	-74.22	592,236.47	619,331.28	32.627852	-104.079990	
5,000.00	6.80	266.43	4,995.52	-5.37	-86.03	592,235.73	619,319.47	32.627850	-104.080028	
5,100.00	6.80	266.43	5,094.82	-6.11	-97.84	592,234.99	619,307.66	32.627848	-104.080067	
5,200.00	6.80	266.43	5,194.12	-6.85	-109.65	592,234.26	619,295.85	32.627847	-104.080105	

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 Company: WCDSC Permian NM
 Project: Eddy County (NAD 83 NM Eastern)
 Site: Sec 27-T19S-R29E
 Well: Coral PWU 28-27 62H
 Wellbore: Wellbore #1
 Design: Permit Plan 2

Local Co-ordinate Reference
 TVD Reference: RKB @ 3333.00ft
 MD Reference: RKB @ 3333.00ft
 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	
5,300.00	6.80	266.43	5,293.41	-7.58	-121.46	592,233.52	619,284.04	32.627845	-104.080143	
5,400.00	6.80	266.43	5,392.71	-8.32	-133.27	592,232.78	619,272.24	32.627843	-104.080182	
5,500.00	6.80	266.43	5,492.01	-9.06	-145.08	592,232.04	619,260.43	32.627841	-104.080220	
5,600.00	6.80	266.43	5,591.31	-9.80	-156.89	592,231.31	619,248.62	32.627839	-104.080258	
5,700.00	6.80	266.43	5,690.60	-10.53	-168.70	592,230.57	619,236.81	32.627837	-104.080297	
5,800.00	6.80	266.43	5,789.90	-11.27	-180.51	592,229.83	619,225.00	32.627835	-104.080335	
5,900.00	6.80	266.43	5,889.20	-12.01	-192.32	592,229.09	619,213.19	32.627833	-104.080374	
6,000.00	6.80	266.43	5,988.50	-12.75	-204.12	592,228.36	619,201.38	32.627831	-104.080412	
6,100.00	6.80	266.43	6,087.79	-13.48	-215.93	592,227.62	619,189.57	32.627829	-104.080450	
6,200.00	6.80	266.43	6,187.09	-14.22	-227.74	592,226.88	619,177.76	32.627827	-104.080489	
6,300.00	6.80	266.43	6,286.39	-14.96	-239.55	592,226.14	619,165.95	32.627825	-104.080527	
6,400.00	6.80	266.43	6,385.69	-15.70	-251.36	592,225.41	619,154.14	32.627823	-104.080565	
6,500.00	6.80	266.43	6,484.98	-16.43	-263.17	592,224.67	619,142.33	32.627821	-104.080604	
6,600.00	6.80	266.43	6,584.28	-17.17	-274.98	592,223.93	619,130.52	32.627819	-104.080642	
6,700.00	6.80	266.43	6,683.58	-17.91	-286.79	592,223.20	619,118.71	32.627817	-104.080680	
6,800.00	6.80	266.43	6,782.88	-18.65	-298.60	592,222.46	619,106.91	32.627815	-104.080719	
6,900.00	6.80	266.43	6,882.17	-19.38	-310.41	592,221.72	619,095.10	32.627813	-104.080757	
7,000.00	6.80	266.43	6,981.47	-20.12	-322.22	592,220.98	619,083.29	32.627811	-104.080796	
7,100.00	6.80	266.43	7,080.77	-20.86	-334.03	592,220.25	619,071.48	32.627809	-104.080834	
7,200.00	6.80	266.43	7,180.07	-21.60	-345.84	592,219.51	619,059.67	32.627808	-104.080872	
7,300.00	6.80	266.43	7,279.36	-22.33	-357.65	592,218.77	619,047.86	32.627806	-104.080911	
7,400.00	6.80	266.43	7,378.66	-23.07	-369.46	592,218.03	619,036.05	32.627804	-104.080949	
7,500.00	6.80	266.43	7,477.96	-23.81	-381.26	592,217.30	619,024.24	32.627802	-104.080987	
7,570.58	6.80	266.43	7,548.04	-24.33	-389.60	592,216.78	619,015.91	32.627800	-104.081014	
7,600.00	6.35	266.43	7,577.27	-24.54	-392.96	592,216.57	619,012.54	32.627800	-104.081025	
7,700.00	4.85	266.43	7,676.79	-25.15	-402.71	592,215.96	619,002.80	32.627798	-104.081057	
7,800.00	3.35	266.43	7,776.53	-25.59	-409.85	592,215.51	618,995.65	32.627797	-104.081080	
7,900.00	1.85	266.43	7,876.42	-25.88	-414.38	592,215.23	618,991.12	32.627796	-104.081095	
8,000.00	0.35	266.43	7,976.40	-26.00	-416.31	592,215.11	618,989.20	32.627796	-104.081101	
8,023.60	0.00	0.01	8,000.00	-26.00	-416.38	592,215.10	618,989.12	32.627796	-104.081101	
8,100.00	0.00	0.00	8,076.40	-26.00	-416.38	592,215.10	618,989.12	32.627796	-104.081101	
8,200.00	0.00	0.00	8,176.40	-26.00	-416.38	592,215.10	618,989.12	32.627796	-104.081101	
8,300.00	0.00	0.00	8,276.40	-26.00	-416.38	592,215.10	618,989.12	32.627796	-104.081101	
8,400.00	0.00	0.00	8,376.40	-26.00	-416.38	592,215.10	618,989.12	32.627796	-104.081101	
8,500.00	0.00	0.00	8,476.40	-26.00	-416.38	592,215.10	618,989.12	32.627796	-104.081101	
8,600.00	0.00	0.00	8,576.40	-26.00	-416.38	592,215.10	618,989.12	32.627796	-104.081101	
8,600.64	0.00	0.00	8,577.04	-26.00	-416.38	592,215.10	618,989.12	32.627796	-104.081101	
KOP @ 8600' MD, 3017' FEL, 1194' FSL										
8,700.00	9.94	90.00	8,675.90	-26.00	-407.79	592,215.10	618,997.72	32.627796	-104.081074	
8,800.00	19.94	90.00	8,772.40	-26.00	-382.04	592,215.11	619,023.46	32.627796	-104.080990	
8,900.00	29.94	90.00	8,862.97	-25.99	-339.94	592,215.11	619,065.57	32.627795	-104.080853	
9,000.00	39.94	90.00	8,944.84	-25.99	-282.74	592,215.11	619,122.76	32.627795	-104.080667	
9,100.00	49.94	90.00	9,015.54	-25.98	-212.20	592,215.12	619,193.30	32.627795	-104.080438	
9,150.64	55.00	90.00	9,046.38	-25.98	-172.06	592,215.12	619,233.45	32.627794	-104.080308	
1st Take Point @ 9151' MD, 1194' FSL, 2773' FEL										
9,200.00	59.94	90.00	9,072.92	-25.98	-130.45	592,215.13	619,275.05	32.627794	-104.080173	
9,300.00	69.94	90.00	9,115.23	-25.97	-39.99	592,215.13	619,365.52	32.627793	-104.079879	
9,400.00	79.94	90.00	9,141.18	-25.96	56.45	592,215.14	619,461.96	32.627793	-104.079566	
9,500.00	89.94	90.00	9,150.00	-25.95	155.94	592,215.15	619,561.44	32.627792	-104.079242	
9,500.64	90.00	90.00	9,150.00	-25.95	156.58	592,215.15	619,562.08	32.627792	-104.079240	
9,600.00	90.00	90.00	9,150.00	-25.95	255.94	592,215.16	619,661.44	32.627792	-104.078918	
9,700.00	90.00	90.00	9,150.00	-25.94	355.94	592,215.16	619,761.44	32.627791	-104.078593	
9,800.00	90.00	90.00	9,150.00	-25.93	455.94	592,215.17	619,861.44	32.627790	-104.078268	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Coral PWU 28-27 62H
Company:	WCDCS 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 62H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 2		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,900.00	90.00	90.00	9,150.00	-25.92	555.94	592,215.18	619,961.44	32.627790	-104.077943
10,000.00	90.00	90.00	9,150.00	-25.92	655.94	592,215.19	620,061.44	32.627789	-104.077618
10,100.00	90.00	90.00	9,150.00	-25.91	755.94	592,215.20	620,161.44	32.627788	-104.077293
10,200.00	90.00	90.00	9,150.00	-25.90	855.94	592,215.20	620,261.44	32.627788	-104.076969
10,300.00	90.00	90.00	9,150.00	-25.89	955.94	592,215.21	620,361.44	32.627787	-104.076644
10,400.00	90.00	90.00	9,150.00	-25.88	1,055.94	592,215.22	620,461.44	32.627786	-104.076319
10,500.00	90.00	90.00	9,150.00	-25.88	1,155.94	592,215.23	620,561.44	32.627786	-104.075994
10,600.00	90.00	90.00	9,150.00	-25.87	1,255.94	592,215.24	620,661.44	32.627785	-104.075669
10,700.00	90.00	90.00	9,150.00	-25.86	1,355.94	592,215.24	620,761.44	32.627785	-104.075345
10,800.00	90.00	90.00	9,150.00	-25.85	1,455.94	592,215.25	620,861.44	32.627784	-104.075020
10,900.00	90.00	90.00	9,150.00	-25.84	1,555.94	592,215.26	620,961.44	32.627783	-104.074695
11,000.00	90.00	90.00	9,150.00	-25.84	1,655.94	592,215.27	621,061.44	32.627783	-104.074370
11,100.00	90.00	90.00	9,150.00	-25.83	1,755.94	592,215.28	621,161.44	32.627782	-104.074045
11,200.00	90.00	90.00	9,150.00	-25.82	1,855.94	592,215.28	621,261.44	32.627781	-104.073720
11,300.00	90.00	90.00	9,150.00	-25.81	1,955.94	592,215.29	621,361.44	32.627781	-104.073396
11,400.00	90.00	90.00	9,150.00	-25.80	2,055.94	592,215.30	621,461.44	32.627780	-104.073071
11,500.00	90.00	90.00	9,150.00	-25.80	2,155.94	592,215.31	621,561.44	32.627779	-104.072746
11,600.00	90.00	90.00	9,150.00	-25.79	2,255.94	592,215.32	621,661.44	32.627779	-104.072421
11,700.00	90.00	90.00	9,150.00	-25.78	2,355.94	592,215.32	621,761.44	32.627778	-104.072096
11,800.00	90.00	90.00	9,150.00	-25.77	2,455.94	592,215.33	621,861.44	32.627777	-104.071772
11,900.00	90.00	90.00	9,150.00	-25.76	2,555.94	592,215.34	621,961.44	32.627777	-104.071447
12,000.00	90.00	90.00	9,150.00	-25.76	2,655.94	592,215.35	622,061.44	32.627776	-104.071122
12,100.00	90.00	90.00	9,150.00	-25.75	2,755.94	592,215.35	622,161.44	32.627775	-104.070797
12,200.00	90.00	90.00	9,150.00	-25.74	2,855.94	592,215.36	622,261.44	32.627775	-104.070472
12,300.00	90.00	90.00	9,150.00	-25.73	2,955.94	592,215.37	622,361.44	32.627774	-104.070147
12,400.00	90.00	90.00	9,150.00	-25.72	3,055.94	592,215.38	622,461.44	32.627773	-104.069823
12,500.00	90.00	90.00	9,150.00	-25.72	3,155.94	592,215.39	622,561.44	32.627773	-104.069498
12,600.00	90.00	90.00	9,150.00	-25.71	3,255.94	592,215.39	622,661.44	32.627772	-104.069173
12,700.00	90.00	90.00	9,150.00	-25.70	3,355.94	592,215.40	622,761.44	32.627771	-104.068848
12,800.00	90.00	90.00	9,150.00	-25.69	3,455.94	592,215.41	622,861.44	32.627771	-104.068523
12,900.00	90.00	90.00	9,150.00	-25.69	3,555.94	592,215.42	622,961.44	32.627770	-104.068198
13,000.00	90.00	90.00	9,150.00	-25.68	3,655.94	592,215.43	623,061.43	32.627769	-104.067874
13,100.00	90.00	90.00	9,150.00	-25.67	3,755.94	592,215.43	623,161.43	32.627769	-104.067549
13,200.00	90.00	90.00	9,150.00	-25.66	3,855.94	592,215.44	623,261.43	32.627768	-104.067224
13,300.00	90.00	90.00	9,150.00	-25.65	3,955.94	592,215.45	623,361.43	32.627767	-104.066899
13,400.00	90.00	90.00	9,150.00	-25.65	4,055.94	592,215.46	623,461.43	32.627767	-104.066574
13,500.00	90.00	90.00	9,150.00	-25.64	4,155.94	592,215.47	623,561.43	32.627766	-104.066250
13,600.00	90.00	90.00	9,150.00	-25.63	4,255.94	592,215.47	623,661.43	32.627765	-104.065925
13,700.00	90.00	90.00	9,150.00	-25.62	4,355.94	592,215.48	623,761.43	32.627765	-104.065600
13,800.00	90.00	90.00	9,150.00	-25.61	4,455.94	592,215.49	623,861.43	32.627764	-104.065275
13,900.00	90.00	90.00	9,150.00	-25.61	4,555.94	592,215.50	623,961.43	32.627763	-104.064950
14,000.00	90.00	90.00	9,150.00	-25.60	4,655.94	592,215.51	624,061.43	32.627763	-104.064625
14,100.00	90.00	90.00	9,150.00	-25.59	4,755.94	592,215.51	624,161.43	32.627762	-104.064301
14,200.00	90.00	90.00	9,150.00	-25.58	4,855.94	592,215.52	624,261.43	32.627761	-104.063976
14,300.00	90.00	90.00	9,150.00	-25.57	4,955.94	592,215.53	624,361.43	32.627761	-104.063651
14,400.00	90.00	90.00	9,150.00	-25.57	5,055.94	592,215.54	624,461.43	32.627760	-104.063326
14,500.00	90.00	90.00	9,150.00	-25.56	5,155.94	592,215.54	624,561.43	32.627759	-104.063001
14,600.00	90.00	90.00	9,150.00	-25.55	5,255.94	592,215.55	624,661.43	32.627759	-104.062677
14,700.00	90.00	90.00	9,150.00	-25.54	5,355.94	592,215.56	624,761.43	32.627758	-104.062352
14,800.00	90.00	90.00	9,150.00	-25.53	5,455.94	592,215.57	624,861.43	32.627757	-104.062027
14,900.00	90.00	90.00	9,150.00	-25.53	5,555.94	592,215.58	624,961.43	32.627757	-104.061702
15,000.00	90.00	90.00	9,150.00	-25.52	5,655.94	592,215.58	625,061.43	32.627756	-104.061377
15,100.00	90.00	90.00	9,150.00	-25.51	5,755.94	592,215.59	625,161.43	32.627755	-104.061052
15,200.00	90.00	90.00	9,150.00	-25.50	5,855.94	592,215.60	625,261.43	32.627755	-104.060728

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 62H
 Wellbore: Wellbore #1
 Design: Permit Plan 2

Local Co-ordinate Reference Well Coral PWU 28-27 62H
 TVD Reference: RKB @ 3333.00ft
 MD Reference: RKB @ 3333.00ft
 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
15,300.00	90.00	90.00	9,150.00	-25.49	5,955.94	592,215.61	625,361.43	32.627754	-104.060403
15,400.00	90.00	90.00	9,150.00	-25.49	6,055.94	592,215.62	625,461.43	32.627753	-104.060078
15,500.00	90.00	90.00	9,150.00	-25.48	6,155.94	592,215.62	625,561.43	32.627753	-104.059753
15,600.00	90.00	90.00	9,150.00	-25.47	6,255.94	592,215.63	625,661.43	32.627752	-104.059428
15,700.00	90.00	90.00	9,150.00	-25.46	6,355.94	592,215.64	625,761.43	32.627751	-104.059103
15,800.00	90.00	90.00	9,150.00	-25.46	6,455.94	592,215.65	625,861.43	32.627751	-104.058779
15,900.00	90.00	90.00	9,150.00	-25.45	6,555.94	592,215.66	625,961.43	32.627750	-104.058454
16,000.00	90.00	90.00	9,150.00	-25.44	6,655.94	592,215.66	626,061.43	32.627749	-104.058129
16,100.00	90.00	90.00	9,150.00	-25.43	6,755.94	592,215.67	626,161.43	32.627748	-104.057804
16,200.00	90.00	90.00	9,150.00	-25.42	6,855.94	592,215.68	626,261.43	32.627748	-104.057479
16,300.00	90.00	90.00	9,150.00	-25.42	6,955.94	592,215.69	626,361.43	32.627747	-104.057155
16,400.00	90.00	90.00	9,150.00	-25.41	7,055.94	592,215.70	626,461.43	32.627746	-104.056830
16,500.00	90.00	90.00	9,150.00	-25.40	7,155.94	592,215.70	626,561.43	32.627746	-104.056505
16,600.00	90.00	90.00	9,150.00	-25.39	7,255.94	592,215.71	626,661.43	32.627745	-104.056180
16,700.00	90.00	90.00	9,150.00	-25.38	7,355.94	592,215.72	626,761.43	32.627744	-104.055855
16,800.00	90.00	90.00	9,150.00	-25.38	7,455.94	592,215.73	626,861.43	32.627744	-104.055530
16,900.00	90.00	90.00	9,150.00	-25.37	7,555.94	592,215.74	626,961.43	32.627743	-104.055206
16,902.04	90.00	90.00	9,150.00	-25.37	7,557.98	592,215.74	626,963.47	32.627743	-104.055199
Last Take Point @ 16902' MD, 1210' FSL, 330' FEL									
17,000.00	90.00	90.00	9,150.00	-25.36	7,655.94	592,215.74	627,061.43	32.627742	-104.054881
17,002.04	90.00	90.00	9,150.00	-25.36	7,657.98	592,215.74	627,063.46	32.627742	-104.054874
PBHL; 1210' 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 62H	0.00	0.00	0.00	-25.36	7,657.98	592,215.74	627,063.46	32.627742	-104.054874
- plan misses target center by 7658.02ft 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	-16.10	-356.38	592,225.00	619,049.12	32.627823	-104.080906
- plan misses target center by 60.81ft at 8023.41ft MD (7999.81 TVD, -26.00 N, -416.38 E)									
- Point									

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,600.64	8,577.04	-26.00	-416.38	KOP @ 8600' MD, 3017' FEL, 1194' FSL
9,150.64	9,046.38	-25.98	-172.06	1st Take Point @ 9151' MD, 1194' FSL, 2773' FEL
16,902.04	9,150.00	-25.37	7,557.98	Last Take Point @ 16902' MD, 1210' FSL, 330' FEL
17,002.04	9,150.00	-25.36	7,657.98	PBHL; 1210' FSL, 230' FEL

WCDSC Permian NM

WELL DETAILS: Coral PWU 28-27 62H

RKB @ 3333.00R
3300.50
Northing 592241.10 Easting 619405.50 Latitude 32.627865 Longitude -104.079748

SECTION DETAILS Permit Plan 2

MD	Inc	Azi	TVD	+N/-S	+E/-W	D/deg	V/Sect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	
4543.63	8.80	268.43	4542.36	-2.01	-32.14	1.25	-32.13	
7570.58	8.80	268.43	7548.04	-24.33	-389.80	0.00	-389.52	
8023.60	0.00	0.00	8000.00	-28.00	-416.38	1.50	-416.29	
8600.64	0.00	0.00	8577.04	-26.00	-416.38	0.00	-416.29	KOP @ 8600' MD, 3017' FEL, 1194' FSL
9500.64	90.00	90.00	9150.00	-25.95	156.58	10.00	156.66	
17002.04	90.00	90.00	9150.00	-25.36	7657.98	0.00	7658.02	PBHL: 1210' FSL, 230' FEL

