

WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)

Sec 27-T19S-R29E

Coral PWU 28-27 12H

Wellbore #1

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 27 2018

RECEIVED

30-015-44961

Plan: Permit Plan 2

Standard Planning Report - Geographic

25 June, 2018

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 12H
 Wellbore: Wellbore #1
 Design: Permit Plan 2

Local Co-ordinate Reference: Well Coral PWU 28-27 12H
 TVD Reference: RKB @ 3333.00ft
 MD Reference: RKB @ 3333.00ft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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 12H				
Well Position	+N/-S	0.00 ft	Northing:	592,241.10 usft	Latitude: 32.627864
	+E/-W	0.00 ft	Easting:	619,465.50 usft	Longitude: -104.079554
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level: 3,302.50 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	4/18/2018	7.13	60.34	48,037.93092135

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	96.79

Plan Survey Tool Program	Date 6/25/2018				
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks	
(ft)	(ft)				
1	0.00	17,037.70 Permit Plan 2 (Wellbore #1)	MWD+IFR1+MS		
			OWSG MWD + IFR1 + Multi-S		

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	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,617.51	11.18	207.81	3,610.44	-96.09	-50.68	1.00	1.00	0.00	207.81	
7,617.62	11.18	207.81	7,534.71	-781.83	-412.32	0.00	0.00	0.00	0.00	
8,362.63	0.00	0.00	8,275.00	-845.89	-446.10	1.50	-1.50	0.00	180.00	Vertical Point - Coral I
8,664.67	0.00	0.00	8,577.04	-845.89	-446.10	0.00	0.00	0.00	0.00	
9,564.67	90.00	90.42	9,150.00	-850.13	126.84	10.00	10.00	0.00	90.42	PBHL - Coral PWU 12
17,037.70	90.00	90.42	9,150.00	-905.37	7,599.67	0.00	0.00	0.00	0.00	PBHL - Coral PWU 12

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 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	619,465.50	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
2,600.00	1.00	207.81	2,599.99	-0.77	-0.41	592,240.33	619,465.10	32.627862	-104.079555
2,700.00	2.00	207.81	2,699.96	-3.09	-1.63	592,238.02	619,463.88	32.627856	-104.079559
2,800.00	3.00	207.81	2,799.86	-6.95	-3.66	592,234.16	619,461.84	32.627845	-104.079566
2,900.00	4.00	207.81	2,899.68	-12.35	-6.51	592,228.76	619,458.99	32.627830	-104.079575
3,000.00	5.00	207.81	2,999.37	-19.29	-10.17	592,221.82	619,455.33	32.627811	-104.079587
3,100.00	6.00	207.81	3,098.90	-27.76	-14.64	592,213.34	619,450.86	32.627788	-104.079602
3,200.00	7.00	207.81	3,198.26	-37.78	-19.92	592,203.33	619,445.58	32.627761	-104.079619
3,300.00	8.00	207.81	3,297.40	-49.32	-26.01	592,191.78	619,439.49	32.627729	-104.079639
3,400.00	9.00	207.81	3,396.30	-62.40	-32.91	592,178.71	619,432.60	32.627693	-104.079661
3,500.00	10.00	207.81	3,494.93	-76.99	-40.60	592,164.11	619,424.90	32.627653	-104.079686
3,600.00	11.00	207.81	3,593.26	-93.11	-49.11	592,147.99	619,416.40	32.627609	-104.079714
3,617.51	11.18	207.81	3,610.44	-96.09	-50.68	592,145.01	619,414.83	32.627600	-104.079719
3,700.00	11.18	207.81	3,691.36	-110.23	-58.13	592,130.87	619,407.37	32.627562	-104.079744
3,800.00	11.18	207.81	3,789.47	-127.38	-67.17	592,113.73	619,398.33	32.627515	-104.079773
3,900.00	11.18	207.81	3,887.57	-144.52	-76.22	592,096.58	619,389.29	32.627467	-104.079803
4,000.00	11.18	207.81	3,985.68	-161.66	-85.26	592,079.44	619,380.25	32.627420	-104.079832
4,100.00	11.18	207.81	4,083.78	-178.80	-94.30	592,062.30	619,371.21	32.627373	-104.079862
4,200.00	11.18	207.81	4,181.88	-195.95	-103.34	592,045.16	619,362.17	32.627326	-104.079891
4,300.00	11.18	207.81	4,279.99	-213.09	-112.38	592,028.01	619,353.13	32.627279	-104.079921
4,400.00	11.18	207.81	4,378.09	-230.23	-121.42	592,010.87	619,344.09	32.627232	-104.079950
4,500.00	11.18	207.81	4,476.20	-247.38	-130.46	591,993.73	619,335.04	32.627185	-104.079980
4,600.00	11.18	207.81	4,574.30	-264.52	-139.50	591,976.58	619,326.00	32.627138	-104.080009
4,700.00	11.18	207.81	4,672.40	-281.66	-148.54	591,959.44	619,316.96	32.627091	-104.080039
4,800.00	11.18	207.81	4,770.51	-298.81	-157.58	591,942.30	619,307.92	32.627044	-104.080068
4,900.00	11.18	207.81	4,868.61	-315.95	-166.62	591,925.16	619,298.88	32.626997	-104.080098
5,000.00	11.18	207.81	4,966.72	-333.09	-175.66	591,908.01	619,289.84	32.626950	-104.080127
5,100.00	11.18	207.81	5,064.82	-350.23	-184.70	591,890.87	619,280.80	32.626903	-104.080157
5,200.00	11.18	207.81	5,162.92	-367.38	-193.74	591,873.73	619,271.76	32.626856	-104.080186

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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	11.18	207.81	5,261.03	-384.52	-202.79	591,856.58	619,262.72	32.626809	-104.080216
5,400.00	11.18	207.81	5,359.13	-401.66	-211.83	591,839.44	619,253.68	32.626762	-104.080245
5,500.00	11.18	207.81	5,457.24	-418.81	-220.87	591,822.30	619,244.64	32.626714	-104.080275
5,600.00	11.18	207.81	5,555.34	-435.95	-229.91	591,805.16	619,235.60	32.626667	-104.080304
5,700.00	11.18	207.81	5,653.44	-453.09	-238.95	591,788.01	619,226.56	32.626620	-104.080334
5,800.00	11.18	207.81	5,751.55	-470.23	-247.99	591,770.87	619,217.52	32.626573	-104.080363
5,900.00	11.18	207.81	5,849.65	-487.38	-257.03	591,753.73	619,208.47	32.626526	-104.080393
6,000.00	11.18	207.81	5,947.76	-504.52	-266.07	591,736.58	619,199.43	32.626479	-104.080422
6,100.00	11.18	207.81	6,045.86	-521.66	-275.11	591,719.44	619,190.39	32.626432	-104.080451
6,200.00	11.18	207.81	6,143.96	-538.81	-284.15	591,702.30	619,181.35	32.626385	-104.080481
6,300.00	11.18	207.81	6,242.07	-555.95	-293.19	591,685.15	619,172.31	32.626338	-104.080510
6,400.00	11.18	207.81	6,340.17	-573.09	-302.23	591,668.01	619,163.27	32.626291	-104.080540
6,500.00	11.18	207.81	6,438.27	-590.24	-311.27	591,650.87	619,154.23	32.626244	-104.080569
6,600.00	11.18	207.81	6,536.38	-607.38	-320.32	591,633.73	619,145.19	32.626197	-104.080599
6,700.00	11.18	207.81	6,634.48	-624.52	-329.36	591,616.58	619,136.15	32.626150	-104.080628
6,800.00	11.18	207.81	6,732.59	-641.66	-338.40	591,599.44	619,127.11	32.626103	-104.080658
6,900.00	11.18	207.81	6,830.69	-658.81	-347.44	591,582.30	619,118.07	32.626056	-104.080687
7,000.00	11.18	207.81	6,928.79	-675.95	-356.48	591,565.15	619,109.03	32.626009	-104.080717
7,100.00	11.18	207.81	7,026.90	-693.09	-365.52	591,548.01	619,099.99	32.625961	-104.080746
7,200.00	11.18	207.81	7,125.00	-710.24	-374.56	591,530.87	619,090.94	32.625914	-104.080776
7,300.00	11.18	207.81	7,223.11	-727.38	-383.60	591,513.73	619,081.90	32.625867	-104.080805
7,400.00	11.18	207.81	7,321.21	-744.52	-392.64	591,496.58	619,072.86	32.625820	-104.080835
7,500.00	11.18	207.81	7,419.31	-761.66	-401.68	591,479.44	619,063.82	32.625773	-104.080864
7,600.00	11.18	207.81	7,517.42	-778.81	-410.72	591,462.30	619,054.78	32.625726	-104.080894
7,617.62	11.18	207.81	7,534.71	-781.83	-412.32	591,459.28	619,053.19	32.625718	-104.080899
7,700.00	9.94	207.81	7,615.69	-795.18	-419.36	591,445.93	619,046.15	32.625681	-104.080922
7,800.00	8.44	207.81	7,714.40	-809.30	-426.81	591,431.80	619,038.70	32.625642	-104.080946
7,900.00	6.94	207.81	7,813.50	-821.14	-433.05	591,419.97	619,032.46	32.625610	-104.080967
8,000.00	5.44	207.81	7,912.91	-830.68	-438.08	591,410.43	619,027.43	32.625584	-104.080983
8,100.00	3.94	207.81	8,012.58	-837.91	-441.89	591,403.20	619,023.61	32.625564	-104.080996
8,200.00	2.44	207.81	8,112.42	-842.83	-444.49	591,398.28	619,021.02	32.625550	-104.081004
8,300.00	0.94	207.81	8,212.37	-845.44	-445.86	591,395.67	619,019.64	32.625543	-104.081009
8,362.63	0.00	0.00	8,275.00	-845.89	-446.10	591,395.21	619,019.40	32.625542	-104.081009
8,400.00	0.00	0.00	8,312.37	-845.89	-446.10	591,395.21	619,019.40	32.625542	-104.081009
8,500.00	0.00	0.00	8,412.37	-845.89	-446.10	591,395.21	619,019.40	32.625542	-104.081009
8,600.00	0.00	0.00	8,512.37	-845.89	-446.10	591,395.21	619,019.40	32.625542	-104.081009
8,664.67	0.00	0.00	8,577.04	-845.89	-446.10	591,395.21	619,019.40	32.625542	-104.081009
KOP @ 8665' MD, 374' FSL, 2987' FEL									
8,700.00	3.53	90.42	8,612.35	-845.90	-445.01	591,395.21	619,020.49	32.625542	-104.081006
8,800.00	13.53	90.42	8,711.11	-846.01	-430.19	591,395.10	619,035.31	32.625542	-104.080958
8,900.00	23.53	90.42	8,805.81	-846.24	-398.45	591,394.86	619,067.06	32.625541	-104.080855
9,000.00	33.53	90.42	8,893.55	-846.60	-350.74	591,394.51	619,114.76	32.625539	-104.080700
9,100.00	43.53	90.42	8,971.68	-847.06	-288.53	591,394.05	619,176.98	32.625538	-104.080498
9,200.00	53.53	90.42	9,037.81	-847.61	-213.69	591,393.50	619,251.81	32.625536	-104.080255
9,214.67	55.00	90.42	9,046.38	-847.70	-201.78	591,393.41	619,263.72	32.625535	-104.080216
1st Take Point @ 9215' MD, 372' FSL, 2743' FEL									
9,300.00	63.53	90.42	9,089.95	-848.24	-128.51	591,392.87	619,337.00	32.625534	-104.079978
9,400.00	73.53	90.42	9,126.50	-848.93	-35.57	591,392.18	619,429.94	32.625531	-104.079676
9,500.00	83.53	90.42	9,146.35	-849.65	62.31	591,391.46	619,527.81	32.625528	-104.079358
9,564.67	90.00	90.42	9,150.00	-850.13	126.84	591,390.98	619,592.35	32.625527	-104.079148
9,600.00	90.00	90.42	9,150.00	-850.39	162.17	591,390.72	619,627.67	32.625526	-104.079034
9,700.00	90.00	90.42	9,150.00	-851.13	262.17	591,389.98	619,727.67	32.625523	-104.078709
9,800.00	90.00	90.42	9,150.00	-851.87	362.16	591,389.24	619,827.67	32.625520	-104.078384

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Local Co-ordinate Reference Well Coral PWU 28-27 12H
TVD Reference: RKB @ 3333.00ft
MD Reference: RKB @ 3333.00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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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	90.42	9,150.00	-852.60	462.16	591,388.50	619,927.66	32.625518	-104.078059
10,000.00	90.00	90.42	9,150.00	-853.34	562.16	591,387.76	620,027.66	32.625515	-104.077734
10,100.00	90.00	90.42	9,150.00	-854.08	662.16	591,387.02	620,127.66	32.625512	-104.077410
10,200.00	90.00	90.42	9,150.00	-854.82	762.15	591,386.28	620,227.66	32.625510	-104.077085
10,300.00	90.00	90.42	9,150.00	-855.56	862.15	591,385.54	620,327.65	32.625507	-104.076760
10,400.00	90.00	90.42	9,150.00	-856.30	962.15	591,384.80	620,427.65	32.625504	-104.076435
10,500.00	90.00	90.42	9,150.00	-857.04	1,062.15	591,384.06	620,527.65	32.625501	-104.076110
10,600.00	90.00	90.42	9,150.00	-857.78	1,162.14	591,383.33	620,627.64	32.625499	-104.075786
10,700.00	90.00	90.42	9,150.00	-858.52	1,262.14	591,382.59	620,727.64	32.625496	-104.075461
10,800.00	90.00	90.42	9,150.00	-859.26	1,362.14	591,381.85	620,827.64	32.625493	-104.075136
10,900.00	90.00	90.42	9,150.00	-860.00	1,462.13	591,381.11	620,927.64	32.625491	-104.074811
11,000.00	90.00	90.42	9,150.00	-860.74	1,562.13	591,380.37	621,027.63	32.625488	-104.074487
11,100.00	90.00	90.42	9,150.00	-861.48	1,662.13	591,379.63	621,127.63	32.625485	-104.074162
11,200.00	90.00	90.42	9,150.00	-862.22	1,762.13	591,378.89	621,227.63	32.625483	-104.073837
11,300.00	90.00	90.42	9,150.00	-862.95	1,862.12	591,378.15	621,327.62	32.625480	-104.073512
11,400.00	90.00	90.42	9,150.00	-863.69	1,962.12	591,377.41	621,427.62	32.625477	-104.073187
11,500.00	90.00	90.42	9,150.00	-864.43	2,062.12	591,376.67	621,527.62	32.625474	-104.072863
11,600.00	90.00	90.42	9,150.00	-865.17	2,162.12	591,375.93	621,627.61	32.625472	-104.072538
11,700.00	90.00	90.42	9,150.00	-865.91	2,262.11	591,375.19	621,727.61	32.625469	-104.072213
11,800.00	90.00	90.42	9,150.00	-866.65	2,362.11	591,374.45	621,827.61	32.625466	-104.071888
11,900.00	90.00	90.42	9,150.00	-867.39	2,462.11	591,373.71	621,927.61	32.625464	-104.071563
12,000.00	90.00	90.42	9,150.00	-868.13	2,562.10	591,372.98	622,027.60	32.625461	-104.071239
12,100.00	90.00	90.42	9,150.00	-868.87	2,662.10	591,372.24	622,127.60	32.625458	-104.070914
12,200.00	90.00	90.42	9,150.00	-869.61	2,762.10	591,371.50	622,227.60	32.625455	-104.070589
12,300.00	90.00	90.42	9,150.00	-870.35	2,862.10	591,370.76	622,327.59	32.625453	-104.070264
12,400.00	90.00	90.42	9,150.00	-871.09	2,962.09	591,370.02	622,427.59	32.625450	-104.069939
12,500.00	90.00	90.42	9,150.00	-871.83	3,062.09	591,369.28	622,527.59	32.625447	-104.069615
12,600.00	90.00	90.42	9,150.00	-872.57	3,162.09	591,368.54	622,627.59	32.625445	-104.069290
12,700.00	90.00	90.42	9,150.00	-873.30	3,262.09	591,367.80	622,727.58	32.625442	-104.068965
12,800.00	90.00	90.42	9,150.00	-874.04	3,362.08	591,367.06	622,827.58	32.625439	-104.068640
12,900.00	90.00	90.42	9,150.00	-874.78	3,462.08	591,366.32	622,927.58	32.625436	-104.068315
13,000.00	90.00	90.42	9,150.00	-875.52	3,562.08	591,365.58	623,027.57	32.625434	-104.067991
13,100.00	90.00	90.42	9,150.00	-876.26	3,662.07	591,364.84	623,127.57	32.625431	-104.067666
13,200.00	90.00	90.42	9,150.00	-877.00	3,762.07	591,364.10	623,227.57	32.625428	-104.067341
13,300.00	90.00	90.42	9,150.00	-877.74	3,862.07	591,363.36	623,327.56	32.625426	-104.067016
13,400.00	90.00	90.42	9,150.00	-878.48	3,962.07	591,362.63	623,427.56	32.625423	-104.066691
13,500.00	90.00	90.42	9,150.00	-879.22	4,062.06	591,361.89	623,527.56	32.625420	-104.066367
13,600.00	90.00	90.42	9,150.00	-879.96	4,162.06	591,361.15	623,627.56	32.625417	-104.066042
13,700.00	90.00	90.42	9,150.00	-880.70	4,262.06	591,360.41	623,727.55	32.625415	-104.065717
13,800.00	90.00	90.42	9,150.00	-881.44	4,362.06	591,359.67	623,827.55	32.625412	-104.065392
13,900.00	90.00	90.42	9,150.00	-882.18	4,462.05	591,358.93	623,927.55	32.625409	-104.065067
14,000.00	90.00	90.42	9,150.00	-882.92	4,562.05	591,358.19	624,027.54	32.625407	-104.064743
14,100.00	90.00	90.42	9,150.00	-883.65	4,662.05	591,357.45	624,127.54	32.625404	-104.064418
14,200.00	90.00	90.42	9,150.00	-884.39	4,762.04	591,356.71	624,227.54	32.625401	-104.064093
14,300.00	90.00	90.42	9,150.00	-885.13	4,862.04	591,355.97	624,327.54	32.625398	-104.063768
14,400.00	90.00	90.42	9,150.00	-885.87	4,962.04	591,355.23	624,427.53	32.625396	-104.063443
14,500.00	90.00	90.42	9,150.00	-886.61	5,062.04	591,354.49	624,527.53	32.625393	-104.063119
14,600.00	90.00	90.42	9,150.00	-887.35	5,162.03	591,353.75	624,627.53	32.625390	-104.062794
14,700.00	90.00	90.42	9,150.00	-888.09	5,262.03	591,353.02	624,727.52	32.625387	-104.062469
14,800.00	90.00	90.42	9,150.00	-888.83	5,362.03	591,352.28	624,827.52	32.625385	-104.062144
14,900.00	90.00	90.42	9,150.00	-889.57	5,462.03	591,351.54	624,927.52	32.625382	-104.061819
15,000.00	90.00	90.42	9,150.00	-890.31	5,562.02	591,350.80	625,027.52	32.625379	-104.061495
15,100.00	90.00	90.42	9,150.00	-891.05	5,662.02	591,350.06	625,127.51	32.625376	-104.061170
15,200.00	90.00	90.42	9,150.00	-891.79	5,762.02	591,349.32	625,227.51	32.625374	-104.060845

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 12H
 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
15,300.00	90.00	90.42	9,150.00	-892.53	5,862.01	591,348.58	625,327.51	32.625371	-104.060520
15,400.00	90.00	90.42	9,150.00	-893.26	5,962.01	591,347.84	625,427.50	32.625368	-104.060195
15,500.00	90.00	90.42	9,150.00	-894.00	6,062.01	591,347.10	625,527.50	32.625366	-104.059871
15,600.00	90.00	90.42	9,150.00	-894.74	6,162.01	591,346.36	625,627.50	32.625363	-104.059546
15,700.00	90.00	90.42	9,150.00	-895.48	6,262.00	591,345.62	625,727.49	32.625360	-104.059221
15,800.00	90.00	90.42	9,150.00	-896.22	6,362.00	591,344.88	625,827.49	32.625357	-104.058896
15,900.00	90.00	90.42	9,150.00	-896.96	6,462.00	591,344.14	625,927.49	32.625355	-104.058571
16,000.00	90.00	90.42	9,150.00	-897.70	6,562.00	591,343.40	626,027.49	32.625352	-104.058247
16,100.00	90.00	90.42	9,150.00	-898.44	6,661.99	591,342.67	626,127.48	32.625349	-104.057922
16,200.00	90.00	90.42	9,150.00	-899.18	6,761.99	591,341.93	626,227.48	32.625346	-104.057597
16,300.00	90.00	90.42	9,150.00	-899.92	6,861.99	591,341.19	626,327.48	32.625344	-104.057272
16,400.00	90.00	90.42	9,150.00	-900.66	6,961.98	591,340.45	626,427.47	32.625341	-104.056947
16,500.00	90.00	90.42	9,150.00	-901.40	7,061.98	591,339.71	626,527.47	32.625338	-104.056623
16,600.00	90.00	90.42	9,150.00	-902.14	7,161.98	591,338.97	626,627.47	32.625335	-104.056298
16,700.00	90.00	90.42	9,150.00	-902.88	7,261.98	591,338.23	626,727.47	32.625333	-104.055973
16,800.00	90.00	90.42	9,150.00	-903.61	7,361.97	591,337.49	626,827.46	32.625330	-104.055648
16,900.00	90.00	90.42	9,150.00	-904.35	7,461.97	591,336.75	626,927.46	32.625327	-104.055323
16,937.69	90.00	90.42	9,150.00	-904.63	7,499.66	591,336.47	626,965.15	32.625326	-104.055201
Last Take Point @ 16938' MD, 330' FSL, 330' FEL									
17,000.00	90.00	90.42	9,150.00	-905.09	7,561.97	591,336.01	627,027.46	32.625324	-104.054999
17,037.69	90.00	90.42	9,150.00	-905.37	7,599.66	591,335.73	627,065.15	32.625323	-104.054876
PBHL; 330' FSL, 230' FEL									
17,037.70	90.00	90.42	9,150.00	-905.37	7,599.67	591,335.73	627,065.15	32.625323	-104.054876

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
PBHL - Coral PWU 12H	0.00	0.00	0.00	-905.37	7,599.67	591,335.73	627,065.15	32.625323	-104.054876
- plan misses target center by 7653.41ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Vertical Point - Coral PV	0.00	0.00	8,275.00	-845.89	-446.10	591,395.21	619,019.40	32.625542	-104.081009
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,664.67	8,577.04	-845.89	-446.10	KOP @ 8665' MD, 374' FSL, 2987' FEL
9,214.67	9,046.38	-847.70	-201.78	1st Take Point @ 9215' MD, 372' FSL, 2743' FEL
16,937.69	9,150.00	-904.63	7,499.66	Last Take Point @ 16938' MD, 330' FSL, 330' FEL
17,037.69	9,150.00	-905.37	7,599.66	PBHL; 330' FSL, 230' FEL