

NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 25 2018

RECEIVED

WCDSC Permian NM

Eddy County (NAD 83 NM Eastern)

Sec 27-T19S-R29E

Turquoise PWU 27-9H

Wellbore #1

30-015-44983

Plan: Design #1

Standard Planning Report - Geographic

09 May, 2018

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Turquoise PWU, 27-9H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3373.00ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3373.00ft
Site:	Sec 27-T19S-R29E	North Reference:	Grid
Well:	Turquoise PWU 27-9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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
From:	Map	Easting:	622,012.70 usft
Position Uncertainty:	5.00 ft	Slot Radius:	13-3/16 "
		Latitude:	32.639037
		Longitude:	-104.071247
		Grid Convergence:	0.14 °

Well	Turquoise PWU 27-9H		
Well Position	+N-S	0.00 ft	Northing:
	+E-W	0.00 ft	Easting:
Position Uncertainty	0.50 ft	Wellhead Elevation:	
		Latitude:	32.636915
		Longitude:	-104.070724
		Ground Level:	3,343.80 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	4/20/2018	7.13
			Dip Angle
			(°)
			Field Strength
			(nT)
			60.35
			48,043.37470718

Design	Design #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
			(°)
			85.09

Plan Survey Tool Program	Date 5/9/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
1	0.00	13,852.19 Design #1 (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	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,938.75	4.39	343.84	2,938.33	16.13	-4.67	1.00	1.00	0.00	343.84	
7,902.76	4.39	343.84	7,887.78	380.89	-110.34	0.00	0.00	0.00	0.00	
8,195.26	0.00	0.00	8,180.00	391.64	-113.45	1.50	-1.50	0.00	180.00	VP - Turquoise 27-9H
8,535.30	0.00	0.00	8,520.04	391.64	-113.45	0.00	0.00	0.00	0.00	
9,429.50	89.42	89.68	9,092.97	394.77	453.70	10.00	10.00	0.00	89.68	PBHL - Turquoise 27-
13,852.42	89.42	89.68	9,137.74	419.18	4,876.32	0.00	0.00	0.00	0.00	PBHL - Turquoise 27-

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Site:	Sec 27-T19S-R29E	North Reference:	Grid
Well:	Turquoise PWU 27-9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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	595,540.32	622,175.82	32.636915	-104.070724
100.00	0.00	0.00	100.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
200.00	0.00	0.00	200.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
300.00	0.00	0.00	300.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
400.00	0.00	0.00	400.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
500.00	0.00	0.00	500.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
600.00	0.00	0.00	600.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
700.00	0.00	0.00	700.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
800.00	0.00	0.00	800.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
900.00	0.00	0.00	900.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
1,000.00	0.00	0.00	1,000.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
1,100.00	0.00	0.00	1,100.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
1,200.00	0.00	0.00	1,200.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
1,300.00	0.00	0.00	1,300.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
1,400.00	0.00	0.00	1,400.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
1,500.00	0.00	0.00	1,500.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
1,600.00	0.00	0.00	1,600.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
1,700.00	0.00	0.00	1,700.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
1,800.00	0.00	0.00	1,800.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
1,900.00	0.00	0.00	1,900.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
2,000.00	0.00	0.00	2,000.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
2,100.00	0.00	0.00	2,100.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
2,200.00	0.00	0.00	2,200.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
2,300.00	0.00	0.00	2,300.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
2,400.00	0.00	0.00	2,400.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
2,500.00	0.00	0.00	2,500.00	0.00	0.00	595,540.32	622,175.82	32.636915	-104.070724
Begin Nudge									
2,600.00	1.00	343.84	2,599.99	0.84	-0.24	595,541.16	622,175.58	32.636917	-104.070724
2,700.00	2.00	343.84	2,699.96	3.35	-0.97	595,543.68	622,174.85	32.636924	-104.070727
2,800.00	3.00	343.84	2,799.86	7.54	-2.18	595,547.87	622,173.64	32.636935	-104.070731
2,900.00	4.00	343.84	2,899.68	13.41	-3.88	595,553.73	622,171.94	32.636952	-104.070736
2,938.75	4.39	343.84	2,938.32	16.13	-4.67	595,556.45	622,171.15	32.636959	-104.070739
EOB									
3,000.00	4.39	343.84	2,999.39	20.63	-5.98	595,560.95	622,169.85	32.636971	-104.070743
3,100.00	4.39	343.84	3,099.10	27.98	-8.10	595,568.30	622,167.72	32.636992	-104.070750
3,200.00	4.39	343.84	3,198.81	35.32	-10.23	595,575.65	622,165.59	32.637012	-104.070757
3,300.00	4.39	343.84	3,298.51	42.67	-12.36	595,583.00	622,163.46	32.637032	-104.070763
3,400.00	4.39	343.84	3,398.22	50.02	-14.49	595,590.34	622,161.33	32.637052	-104.070770
3,500.00	4.39	343.84	3,497.93	57.37	-16.62	595,597.69	622,159.21	32.637072	-104.070777
3,600.00	4.39	343.84	3,597.63	64.72	-18.75	595,605.04	622,157.08	32.637093	-104.070784
3,700.00	4.39	343.84	3,697.34	72.07	-20.88	595,612.39	622,154.95	32.637113	-104.070791
3,800.00	4.39	343.84	3,797.05	79.41	-23.00	595,619.74	622,152.82	32.637133	-104.070798
3,900.00	4.39	343.84	3,896.75	86.76	-25.13	595,627.08	622,150.69	32.637153	-104.070805
4,000.00	4.39	343.84	3,996.46	94.11	-27.26	595,634.43	622,148.56	32.637174	-104.070811
4,100.00	4.39	343.84	4,096.17	101.46	-29.39	595,641.78	622,146.43	32.637194	-104.070818
4,200.00	4.39	343.84	4,195.88	108.81	-31.52	595,649.13	622,144.31	32.637214	-104.070825
4,300.00	4.39	343.84	4,295.58	116.15	-33.65	595,656.48	622,142.18	32.637234	-104.070832
4,400.00	4.39	343.84	4,395.29	123.50	-35.78	595,663.82	622,140.05	32.637254	-104.070839
4,500.00	4.39	343.84	4,495.00	130.85	-37.90	595,671.17	622,137.92	32.637275	-104.070846
4,600.00	4.39	343.84	4,594.70	138.20	-40.03	595,678.52	622,135.79	32.637295	-104.070853
4,700.00	4.39	343.84	4,694.41	145.55	-42.16	595,685.87	622,133.66	32.637315	-104.070859
4,800.00	4.39	343.84	4,794.12	152.89	-44.29	595,693.22	622,131.53	32.637335	-104.070866
4,900.00	4.39	343.84	4,893.82	160.24	-46.42	595,700.57	622,129.40	32.637355	-104.070873

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Wellbore:	Wellbore #1		
Design:	Design #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	4.39	343.84	4,993.53	167.59	-48.55	595,707.91	622,127.28	32.637376	-104.070880
5,100.00	4.39	343.84	5,093.24	174.94	-50.68	595,715.26	622,125.15	32.637396	-104.070887
5,200.00	4.39	343.84	5,192.94	182.29	-52.81	595,722.61	622,123.02	32.637416	-104.070894
5,300.00	4.39	343.84	5,292.65	189.63	-54.93	595,729.96	622,120.89	32.637436	-104.070901
5,400.00	4.39	343.84	5,392.36	196.98	-57.06	595,737.31	622,118.76	32.637457	-104.070907
5,500.00	4.39	343.84	5,492.07	204.33	-59.19	595,744.65	622,116.63	32.637477	-104.070914
5,600.00	4.39	343.84	5,591.77	211.68	-61.32	595,752.00	622,114.50	32.637497	-104.070921
5,700.00	4.39	343.84	5,691.48	219.03	-63.45	595,759.35	622,112.38	32.637517	-104.070928
5,800.00	4.39	343.84	5,791.19	226.38	-65.58	595,766.70	622,110.25	32.637537	-104.070935
5,900.00	4.39	343.84	5,890.89	233.72	-67.71	595,774.05	622,108.12	32.637558	-104.070942
6,000.00	4.39	343.84	5,990.60	241.07	-69.83	595,781.39	622,105.99	32.637578	-104.070949
6,100.00	4.39	343.84	6,090.31	248.42	-71.96	595,788.74	622,103.86	32.637598	-104.070955
6,200.00	4.39	343.84	6,190.01	255.77	-74.09	595,796.09	622,101.73	32.637618	-104.070962
6,300.00	4.39	343.84	6,289.72	263.12	-76.22	595,803.44	622,099.60	32.637638	-104.070969
6,400.00	4.39	343.84	6,389.43	270.46	-78.35	595,810.79	622,097.48	32.637659	-104.070976
6,500.00	4.39	343.84	6,489.13	277.81	-80.48	595,818.13	622,095.35	32.637679	-104.070983
6,600.00	4.39	343.84	6,588.84	285.16	-82.61	595,825.48	622,093.22	32.637699	-104.070990
6,700.00	4.39	343.84	6,688.55	292.51	-84.73	595,832.83	622,091.09	32.637719	-104.070997
6,800.00	4.39	343.84	6,788.26	299.86	-86.86	595,840.18	622,088.96	32.637739	-104.071003
6,900.00	4.39	343.84	6,887.96	307.20	-88.99	595,847.53	622,086.83	32.637760	-104.071010
7,000.00	4.39	343.84	6,987.67	314.55	-91.12	595,854.88	622,084.70	32.637780	-104.071017
7,100.00	4.39	343.84	7,087.38	321.90	-93.25	595,862.22	622,082.58	32.637800	-104.071024
7,200.00	4.39	343.84	7,187.08	329.25	-95.38	595,869.57	622,080.45	32.637820	-104.071031
7,300.00	4.39	343.84	7,286.79	336.60	-97.51	595,876.92	622,078.32	32.637841	-104.071038
7,400.00	4.39	343.84	7,386.50	343.94	-99.63	595,884.27	622,076.19	32.637861	-104.071045
7,500.00	4.39	343.84	7,486.20	351.29	-101.76	595,891.62	622,074.06	32.637881	-104.071051
7,600.00	4.39	343.84	7,585.91	358.64	-103.89	595,898.96	622,071.93	32.637901	-104.071058
7,700.00	4.39	343.84	7,685.62	365.99	-106.02	595,906.31	622,069.80	32.637921	-104.071065
7,800.00	4.39	343.84	7,785.33	373.34	-108.15	595,913.66	622,067.68	32.637942	-104.071072
7,900.00	4.39	343.84	7,885.03	380.69	-110.28	595,921.01	622,065.55	32.637962	-104.071079
7,902.76	4.39	343.84	7,887.78	380.89	-110.34	595,921.21	622,065.49	32.637962	-104.071079
EOH									
8,000.00	2.93	343.84	7,984.82	386.85	-112.06	595,927.17	622,063.76	32.637979	-104.071085
8,100.00	1.43	343.84	8,084.75	390.50	-113.12	595,930.82	622,062.70	32.637989	-104.071088
8,195.26	0.00	0.00	8,180.00	391.64	-113.45	595,931.96	622,062.37	32.637992	-104.071089
Drop to Vertical									
8,200.00	0.00	0.00	8,184.74	391.64	-113.45	595,931.96	622,062.37	32.637992	-104.071089
8,300.00	0.00	0.00	8,284.74	391.64	-113.45	595,931.96	622,062.37	32.637992	-104.071089
8,400.00	0.00	0.00	8,384.74	391.64	-113.45	595,931.96	622,062.37	32.637992	-104.071089
8,500.00	0.00	0.00	8,484.74	391.64	-113.45	595,931.96	622,062.37	32.637992	-104.071089
8,535.30	0.00	0.00	8,520.04	391.64	-113.45	595,931.96	622,062.37	32.637992	-104.071089
KOP @ 8535' MD, 378' FNL, 50' FWL									
8,600.00	6.47	89.68	8,584.60	391.66	-109.80	595,931.98	622,066.02	32.637992	-104.071077
8,700.00	16.47	89.68	8,682.48	391.77	-89.94	595,932.09	622,085.88	32.637992	-104.071013
8,800.00	26.47	89.68	8,775.42	391.97	-53.39	595,932.29	622,122.44	32.637992	-104.070894
8,900.00	36.47	89.68	8,860.61	392.26	-1.25	595,932.58	622,174.57	32.637993	-104.070725
8,902.10	36.68	89.68	8,862.29	392.27	0.00	595,932.59	622,175.82	32.637993	-104.070720
1st Take Point @ 8902' MD, 378' FNL, 165' FWL									
9,000.00	46.47	89.68	8,935.44	392.62	64.89	595,932.95	622,240.71	32.637993	-104.070510
9,100.00	56.47	89.68	8,997.66	393.06	143.01	595,933.38	622,318.84	32.637994	-104.070256
9,200.00	66.47	89.68	9,045.36	393.54	230.76	595,933.86	622,406.58	32.637995	-104.069971
9,300.00	76.47	89.68	9,077.10	394.06	325.45	595,934.39	622,501.28	32.637996	-104.069663
9,400.00	86.47	89.68	9,091.91	394.61	424.22	595,934.93	622,600.04	32.637996	-104.069342

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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
9,429.50	89.42	89.68	9,092.97	394.77	453.70	595,935.09	622,629.52	32.637997	-104.069247
Land Point									
9,500.00	89.42	89.68	9,093.68	395.16	524.19	595,935.48	622,700.01	32.637997	-104.069018
9,600.00	89.42	89.68	9,094.70	395.71	624.18	595,936.03	622,800.01	32.637998	-104.068693
9,700.00	89.42	89.68	9,095.71	396.26	724.18	595,936.59	622,900.00	32.637999	-104.068368
9,800.00	89.42	89.68	9,096.72	396.82	824.17	595,937.14	622,999.99	32.638000	-104.068043
9,900.00	89.42	89.68	9,097.73	397.37	924.16	595,937.69	623,099.99	32.638001	-104.067718
10,000.00	89.42	89.68	9,098.74	397.92	1,024.16	595,938.24	623,199.98	32.638001	-104.067393
10,100.00	89.42	89.68	9,099.76	398.47	1,124.15	595,938.79	623,299.97	32.638002	-104.067069
10,200.00	89.42	89.68	9,100.77	399.02	1,224.14	595,939.35	623,399.97	32.638003	-104.066744
10,300.00	89.42	89.68	9,101.78	399.57	1,324.14	595,939.90	623,499.96	32.638004	-104.066419
10,400.00	89.42	89.68	9,102.79	400.13	1,424.13	595,940.45	623,599.95	32.638005	-104.066094
10,500.00	89.42	89.68	9,103.81	400.68	1,524.12	595,941.00	623,699.95	32.638006	-104.065769
10,600.00	89.42	89.68	9,104.82	401.23	1,624.12	595,941.55	623,799.94	32.638006	-104.065444
10,700.00	89.42	89.68	9,105.83	401.78	1,724.11	595,942.10	623,899.93	32.638007	-104.065119
10,800.00	89.42	89.68	9,106.84	402.33	1,824.10	595,942.66	623,999.93	32.638008	-104.064795
10,900.00	89.42	89.68	9,107.86	402.89	1,924.10	595,943.21	624,099.92	32.638009	-104.064470
11,000.00	89.42	89.68	9,108.87	403.44	2,024.09	595,943.76	624,199.91	32.638010	-104.064145
11,100.00	89.42	89.68	9,109.88	403.99	2,124.08	595,944.31	624,299.90	32.638011	-104.063820
11,200.00	89.42	89.68	9,110.89	404.54	2,224.08	595,944.86	624,399.90	32.638011	-104.063495
11,300.00	89.42	89.68	9,111.90	405.09	2,324.07	595,945.42	624,499.89	32.638012	-104.063170
11,400.00	89.42	89.68	9,112.92	405.65	2,424.06	595,945.97	624,599.88	32.638013	-104.062846
11,500.00	89.42	89.68	9,113.93	406.20	2,524.06	595,946.52	624,699.88	32.638014	-104.062521
11,600.00	89.42	89.68	9,114.94	406.75	2,624.05	595,947.07	624,799.87	32.638015	-104.062196
11,700.00	89.42	89.68	9,115.95	407.30	2,724.05	595,947.62	624,899.86	32.638015	-104.061871
11,800.00	89.42	89.68	9,116.97	407.85	2,824.04	595,948.18	624,999.86	32.638016	-104.061546
11,900.00	89.42	89.68	9,117.98	408.41	2,924.03	595,948.73	625,099.85	32.638017	-104.061221
12,000.00	89.42	89.68	9,118.99	408.96	3,024.03	595,949.28	625,199.84	32.638018	-104.060897
12,100.00	89.42	89.68	9,120.00	409.51	3,124.02	595,949.83	625,299.84	32.638019	-104.060572
12,200.00	89.42	89.68	9,121.01	410.06	3,224.01	595,950.38	625,399.83	32.638019	-104.060247
12,300.00	89.42	89.68	9,122.03	410.61	3,324.01	595,950.94	625,499.82	32.638020	-104.059922
12,400.00	89.42	89.68	9,123.04	411.16	3,424.00	595,951.49	625,599.82	32.638021	-104.059597
12,500.00	89.42	89.68	9,124.05	411.72	3,523.99	595,952.04	625,699.81	32.638022	-104.059272
12,600.00	89.42	89.68	9,125.06	412.27	3,623.99	595,952.59	625,799.80	32.638023	-104.058947
12,700.00	89.42	89.68	9,126.08	412.82	3,723.98	595,953.14	625,899.80	32.638024	-104.058623
12,800.00	89.42	89.68	9,127.09	413.37	3,823.97	595,953.69	625,999.79	32.638024	-104.058298
12,900.00	89.42	89.68	9,128.10	413.92	3,923.97	595,954.25	626,099.78	32.638025	-104.057973
13,000.00	89.42	89.68	9,129.11	414.48	4,023.96	595,954.80	626,199.77	32.638026	-104.057648
13,100.00	89.42	89.68	9,130.13	415.03	4,123.95	595,955.35	626,299.77	32.638027	-104.057323
13,200.00	89.42	89.68	9,131.14	415.58	4,223.95	595,955.90	626,399.76	32.638028	-104.056998
13,300.00	89.42	89.68	9,132.15	416.13	4,323.94	595,956.45	626,499.75	32.638028	-104.056674
13,400.00	89.42	89.68	9,133.16	416.68	4,423.93	595,957.01	626,599.75	32.638029	-104.056349
13,500.00	89.42	89.68	9,134.17	417.24	4,523.93	595,957.56	626,699.74	32.638030	-104.056024
13,600.00	89.42	89.68	9,135.19	417.79	4,623.92	595,958.11	626,799.73	32.638031	-104.055699
13,700.00	89.42	89.68	9,136.20	418.34	4,723.91	595,958.66	626,899.73	32.638032	-104.055374
13,752.42	89.42	89.68	9,136.73	418.63	4,776.33	595,958.95	626,952.14	32.638032	-104.055204
Last Take Point @ 13752' MD, 330' FNL, 330' FEL									
13,800.00	89.42	89.68	9,137.21	418.89	4,823.91	595,959.21	626,999.72	32.638032	-104.055049
13,852.42	89.42	89.68	9,137.74	419.18	4,876.32	595,959.50	627,052.13	32.638033	-104.054879
PBHL; 330' FNL, 230' FEL									

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Turquoise PWU 27-9H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3373.00ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3373.00ft
Site:	Sec 27-T19S-R29E	North Reference:	Grid
Well:	Turquoise PWU 27-9H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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 - Turquoise 27-9H	0.00	0.00	0.00	419.18	4,876.32	595,959.50	627,052.13	32.638033	-104.054879
- plan misses target center by 4894.30ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
VP - Turquoise 27-9H	0.00	0.00	8,180.00	391.64	-113.45	595,931.96	622,062.37	32.637992	-104.071089
- plan hits target center									
- Point									

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
2,500.00	2,500.00	0.00	0.00	Begin Nudge
2,938.75	2,938.32	16.13	-4.67	EOB
7,902.76	7,887.78	380.89	-110.34	EOH
8,195.26	8,180.00	391.64	-113.45	Drop to Vertical
8,535.30	8,520.04	391.64	-113.45	KOP @ 8535' MD, 378' FNL, 50' FWL
8,902.10	8,862.29	392.27	0.00	1st Take Point @ 8902' MD, 378' FNL, 165' FWL
9,429.50	9,092.97	394.77	453.70	Land Point
13,752.42	9,136.73	418.63	4,776.33	Last Take Point @ 13752' MD, 330' FNL, 330' FEL
13,852.42	9,137.74	419.18	4,876.32	PBHL; 330' FNL, 230' FEL