

PERMIAN

NW DISTRICT - NM EZ NAD 83
PALMILLO 10 STATE COM PAD (234,335,336)
PALMILLO 10 STATE COM 335H

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 15 2019

PALMILLO 10 STATE COM 335H

RECEIVED

30.015.45795

Plan: Design #1

Standard Planning Report

26 February, 2019

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well PALMILLO 10 STATE COM 335H
Company:	PERMIAN	TVD Reference:	WELL @ 3520.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 83	MD Reference:	WELL @ 3520.0ft (Original Well Elev)
Site:	PALMILLO 10 STATE COM PAD (234,335,336)	North Reference:	Grid
Well:	PALMILLO 10 STATE COM 335H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE COM 335H		
Design:	Design #1		

Project:	NW DISTRICT - NM EZ NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	PALMILLO 10 STATE COM PAD (234,335,336)		
Site Position:	Map	Northing:	611,241.00 ft
From:		Easting:	595,797.60 ft
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in
		Latitude:	32° 40' 48.784 N
		Longitude:	104° 9' 22.801 W
		Grid Convergence:	0.10 °

Well:	PALMILLO 10 STATE COM 335H		
Well Position	+N/-S	-39.9 ft	Northing:
	+E/-W	0.1 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	Ground Level:
			3,494.0 ft

Wellbore:	PALMILLO 10 STATE COM 335H		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM_FILE	12/21/2018	7.30
			Dip Angle
			(°)
			Field Strength
			(nT)
			48,003.80000000

Design:	Design #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction
			(°)
			264.61

Plan Survey Tool Program	Date 2/21/2019		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
1	0.0	13,458.2	Design #1 (PALMILLO 10 STATE
			MWD+HDGM (MWD)
			OWSG MWD + HDGM

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well PALMILLO 10 STATE COM 335H
Company:	PERMIAN	TVD Reference:	WELL @ 3520.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 83	MD Reference:	WELL @ 3520.0ft (Original Well Elev)
Site:	PALMILLO 10 STATE COM PAD (234,335,336)	North Reference:	Grid
Well:	PALMILLO 10 STATE COM 335H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE COM 335H		
Design:	Design #1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,666.7	10.00	161.97	1,663.3	-55.2	18.0	1.50	1.50	0.00	161.97	
3,446.8	10.00	161.97	3,416.4	-349.1	113.6	0.00	0.00	0.00	0.00	
4,113.5	0.00	0.00	4,079.7	-404.3	131.6	1.50	-1.50	0.00	180.00	
8,104.3	0.00	0.00	8,070.5	-404.3	131.6	0.00	0.00	0.00	0.00	
8,891.5	94.46	269.29	8,546.5	-410.6	-382.9	12.00	12.00	-11.52	269.29	
9,978.5	94.46	269.29	8,462.0	-424.0	-1,466.6	0.00	0.00	0.00	0.00	T2 PALMILLO 10 STA
10,150.4	91.02	269.29	8,453.8	-426.1	-1,638.3	2.00	-2.00	0.00	-179.99	
11,484.0	91.02	269.29	8,430.0	-442.5	-2,971.6	0.00	0.00	0.00	0.00	T3 PALMILLO 10 STA
11,567.9	89.34	269.29	8,429.7	-443.5	-3,055.4	2.00	-2.00	0.00	180.00	
12,989.1	89.34	269.29	8,446.0	-461.0	-4,476.5	0.00	0.00	0.00	0.00	T4 PALMILLO 10 STA
13,023.2	90.02	269.30	8,446.2	-461.4	-4,510.5	2.00	2.00	0.00	0.05	
13,458.2	90.02	269.30	8,446.0	-466.8	-4,945.5	0.00	0.00	0.00	0.00	BHL PALMILLO 10 S

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well PALMILLO 10 STATE COM 335H
Company:	PERMIAN	TVD Reference:	WELL @ 3520.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 83	MD Reference:	WELL @ 3520.0ft (Original Well Elev)
Site:	PALMILLO 10 STATE COM PAD (234,335,336)	North Reference:	Grid
Well:	PALMILLO 10 STATE COM 335H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE COM 335H		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	1.50	161.97	1,100.0	-1.2	0.4	-0.3	1.50	1.50	0.00
1,200.0	3.00	161.97	1,199.9	-5.0	1.6	-1.1	1.50	1.50	0.00
1,300.0	4.50	161.97	1,299.7	-11.2	3.6	-2.6	1.50	1.50	0.00
1,400.0	6.00	161.97	1,399.3	-19.9	6.5	-4.6	1.50	1.50	0.00
1,500.0	7.50	161.97	1,498.6	-31.1	10.1	-7.1	1.50	1.50	0.00
1,600.0	9.00	161.97	1,597.5	-44.7	14.6	-10.3	1.50	1.50	0.00
1,666.7	10.00	161.97	1,663.3	-55.2	18.0	-12.7	1.50	1.50	0.00
1,700.0	10.00	161.97	1,696.1	-60.7	19.8	-14.0	0.00	0.00	0.00
1,800.0	10.00	161.97	1,794.6	-77.2	25.1	-17.8	0.00	0.00	0.00
1,900.0	10.00	161.97	1,893.1	-93.7	30.5	-21.6	0.00	0.00	0.00
2,000.0	10.00	161.97	1,991.6	-110.2	35.9	-25.4	0.00	0.00	0.00
2,100.0	10.00	161.97	2,090.0	-126.7	41.3	-29.2	0.00	0.00	0.00
2,200.0	10.00	161.97	2,188.5	-143.2	46.6	-33.0	0.00	0.00	0.00
2,300.0	10.00	161.97	2,287.0	-159.8	52.0	-36.8	0.00	0.00	0.00
2,400.0	10.00	161.97	2,385.5	-176.3	57.4	-40.6	0.00	0.00	0.00
2,500.0	10.00	161.97	2,484.0	-192.8	62.8	-44.4	0.00	0.00	0.00
2,600.0	10.00	161.97	2,582.4	-209.3	68.1	-48.2	0.00	0.00	0.00
2,700.0	10.00	161.97	2,680.9	-225.8	73.5	-52.0	0.00	0.00	0.00
2,800.0	10.00	161.97	2,779.4	-242.3	78.9	-55.8	0.00	0.00	0.00
2,900.0	10.00	161.97	2,877.9	-258.8	84.2	-59.6	0.00	0.00	0.00
3,000.0	10.00	161.97	2,976.4	-275.3	89.6	-63.4	0.00	0.00	0.00
3,100.0	10.00	161.97	3,074.8	-291.9	95.0	-67.2	0.00	0.00	0.00
3,200.0	10.00	161.97	3,173.3	-308.4	100.4	-71.0	0.00	0.00	0.00
3,300.0	10.00	161.97	3,271.8	-324.9	105.7	-74.8	0.00	0.00	0.00
3,400.0	10.00	161.97	3,370.3	-341.4	111.1	-78.6	0.00	0.00	0.00
3,446.8	10.00	161.97	3,416.4	-349.1	113.6	-80.3	0.00	0.00	0.00
3,500.0	9.20	161.97	3,468.8	-357.6	116.4	-82.3	1.50	-1.50	0.00
3,600.0	7.70	161.97	3,567.7	-371.5	120.9	-85.5	1.50	-1.50	0.00
3,700.0	6.20	161.97	3,667.0	-383.0	124.7	-88.1	1.50	-1.50	0.00
3,800.0	4.70	161.97	3,766.5	-392.1	127.6	-90.2	1.50	-1.50	0.00
3,900.0	3.20	161.97	3,866.3	-398.6	129.8	-91.7	1.50	-1.50	0.00
4,000.0	1.70	161.97	3,966.2	-402.7	131.1	-92.7	1.50	-1.50	0.00
4,100.0	0.20	161.97	4,066.2	-404.3	131.6	-93.0	1.50	-1.50	0.00
4,113.5	0.00	0.00	4,079.7	-404.3	131.6	-93.0	1.50	-1.50	0.00
4,200.0	0.00	0.00	4,166.2	-404.3	131.6	-93.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,266.2	-404.3	131.6	-93.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,366.2	-404.3	131.6	-93.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,466.2	-404.3	131.6	-93.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,566.2	-404.3	131.6	-93.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,666.2	-404.3	131.6	-93.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,766.2	-404.3	131.6	-93.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,866.2	-404.3	131.6	-93.0	0.00	0.00	0.00

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well PALMILLO 10 STATE COM 335H
Company:	PERMIAN	TVD Reference:	WELL @ 3520.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 83	MD Reference:	WELL @ 3520.0ft (Original Well Elev)
Site:	PALMILLO 10 STATE COM PAD (234,335,336)	North Reference:	Grid
Well:	PALMILLO 10 STATE COM 335H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE COM 335H		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,000.0	0.00	0.00	4,966.2	-404.3	131.6	-93.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,066.2	-404.3	131.6	-93.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,166.2	-404.3	131.6	-93.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,266.2	-404.3	131.6	-93.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,366.2	-404.3	131.6	-93.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,466.2	-404.3	131.6	-93.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,566.2	-404.3	131.6	-93.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,666.2	-404.3	131.6	-93.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,766.2	-404.3	131.6	-93.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,866.2	-404.3	131.6	-93.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,966.2	-404.3	131.6	-93.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,066.2	-404.3	131.6	-93.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,166.2	-404.3	131.6	-93.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,266.2	-404.3	131.6	-93.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,366.2	-404.3	131.6	-93.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,466.2	-404.3	131.6	-93.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,566.2	-404.3	131.6	-93.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,666.2	-404.3	131.6	-93.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,766.2	-404.3	131.6	-93.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,866.2	-404.3	131.6	-93.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,966.2	-404.3	131.6	-93.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,066.2	-404.3	131.6	-93.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,166.2	-404.3	131.6	-93.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,266.2	-404.3	131.6	-93.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,366.2	-404.3	131.6	-93.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,466.2	-404.3	131.6	-93.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,566.2	-404.3	131.6	-93.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,666.2	-404.3	131.6	-93.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,766.2	-404.3	131.6	-93.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,866.2	-404.3	131.6	-93.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,966.2	-404.3	131.6	-93.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,066.2	-404.3	131.6	-93.0	0.00	0.00	0.00
8,104.3	0.00	0.00	8,070.5	-404.3	131.6	-93.0	0.00	0.00	0.00
8,200.0	11.48	269.29	8,165.6	-404.4	122.0	-83.5	12.00	12.00	0.00
8,300.0	23.48	269.29	8,260.8	-404.8	92.1	-53.6	12.00	12.00	0.00
8,400.0	35.48	269.29	8,347.7	-405.4	42.9	-4.6	12.00	12.00	0.00
8,500.0	47.48	269.29	8,422.4	-406.2	-23.2	61.3	12.00	12.00	0.00
8,600.0	59.48	269.29	8,481.8	-407.2	-103.4	141.2	12.00	12.00	0.00
8,700.0	71.48	269.29	8,523.2	-408.3	-194.2	231.7	12.00	12.00	0.00
8,800.0	83.48	269.29	8,544.9	-409.5	-291.6	328.8	12.00	12.00	0.00
8,891.5	94.46	269.29	8,546.5	-410.6	-382.9	419.8	12.00	12.00	0.00
8,900.0	94.46	269.29	8,545.9	-410.7	-391.5	428.3	0.00	0.00	0.00
9,000.0	94.46	269.29	8,538.1	-412.0	-491.1	527.7	0.00	0.00	0.00
9,100.0	94.46	269.29	8,530.3	-413.2	-590.8	627.1	0.00	0.00	0.00
9,200.0	94.46	269.29	8,522.5	-414.4	-690.5	726.4	0.00	0.00	0.00
9,300.0	94.46	269.29	8,514.8	-415.6	-790.2	825.8	0.00	0.00	0.00
9,400.0	94.46	269.29	8,507.0	-416.9	-889.9	925.1	0.00	0.00	0.00
9,500.0	94.46	269.29	8,499.2	-418.1	-989.6	1,024.5	0.00	0.00	0.00
9,600.0	94.46	269.29	8,491.4	-419.3	-1,089.3	1,123.9	0.00	0.00	0.00
9,700.0	94.46	269.29	8,483.7	-420.6	-1,189.0	1,223.2	0.00	0.00	0.00
9,800.0	94.46	269.29	8,475.9	-421.8	-1,288.7	1,322.6	0.00	0.00	0.00
9,900.0	94.46	269.29	8,468.1	-423.0	-1,388.4	1,422.0	0.00	0.00	0.00
9,978.5	94.46	269.29	8,462.0	-424.0	-1,466.6	1,500.0	0.00	0.00	0.00

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well PALMILLO 10 STATE COM 335H
Company:	PERMIAN	TVD Reference:	WELL @ 3520.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 83	MD Reference:	WELL @ 3520.0ft (Original Well Elev)
Site:	PALMILLO 10 STATE COM PAD (234,335,336)	North Reference:	Grid
Well:	PALMILLO 10 STATE COM 335H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE COM 335H		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,000.0	94.03	269.29	8,460.4	-424.2	-1,488.1	1,521.3	2.00	-2.00	0.00
10,100.0	92.03	269.29	8,455.1	-425.5	-1,587.9	1,620.9	2.00	-2.00	0.00
10,150.4	91.02	269.29	8,453.8	-426.1	-1,638.3	1,671.1	2.00	-2.00	0.00
10,200.0	91.02	269.29	8,452.9	-426.7	-1,687.9	1,720.5	0.00	0.00	0.00
10,300.0	91.02	269.29	8,451.1	-427.9	-1,787.8	1,820.1	0.00	0.00	0.00
10,400.0	91.02	269.29	8,449.3	-429.2	-1,887.8	1,919.8	0.00	0.00	0.00
10,500.0	91.02	269.29	8,447.5	-430.4	-1,987.8	2,019.4	0.00	0.00	0.00
10,600.0	91.02	269.29	8,445.8	-431.6	-2,087.8	2,119.1	0.00	0.00	0.00
10,700.0	91.02	269.29	8,444.0	-432.8	-2,187.7	2,218.7	0.00	0.00	0.00
10,800.0	91.02	269.29	8,442.2	-434.1	-2,287.7	2,318.4	0.00	0.00	0.00
10,900.0	91.02	269.29	8,440.4	-435.3	-2,387.7	2,418.0	0.00	0.00	0.00
11,000.0	91.02	269.29	8,438.6	-436.5	-2,487.7	2,517.7	0.00	0.00	0.00
11,100.0	91.02	269.29	8,436.8	-437.8	-2,587.7	2,617.3	0.00	0.00	0.00
11,200.0	91.02	269.29	8,435.1	-439.0	-2,687.6	2,717.0	0.00	0.00	0.00
11,300.0	91.02	269.29	8,433.3	-440.2	-2,787.6	2,816.6	0.00	0.00	0.00
11,400.0	91.02	269.29	8,431.5	-441.5	-2,887.6	2,916.3	0.00	0.00	0.00
11,484.0	91.02	269.29	8,430.0	-442.5	-2,971.6	3,000.0	0.00	0.00	0.00
11,500.0	90.70	269.29	8,429.8	-442.7	-2,987.6	3,015.9	2.00	-2.00	0.00
11,567.9	89.34	269.29	8,429.7	-443.5	-3,055.4	3,083.6	2.00	-2.00	0.00
11,600.0	89.34	269.29	8,430.1	-443.9	-3,087.5	3,115.6	0.00	0.00	0.00
11,700.0	89.34	269.29	8,431.2	-445.2	-3,187.5	3,215.3	0.00	0.00	0.00
11,800.0	89.34	269.29	8,432.4	-446.4	-3,287.5	3,314.9	0.00	0.00	0.00
11,900.0	89.34	269.29	8,433.5	-447.6	-3,387.5	3,414.6	0.00	0.00	0.00
12,000.0	89.34	269.29	8,434.7	-448.9	-3,487.5	3,514.2	0.00	0.00	0.00
12,100.0	89.34	269.29	8,435.8	-450.1	-3,587.5	3,613.9	0.00	0.00	0.00
12,200.0	89.34	269.29	8,437.0	-451.3	-3,687.5	3,713.6	0.00	0.00	0.00
12,300.0	89.34	269.29	8,438.1	-452.5	-3,787.5	3,813.2	0.00	0.00	0.00
12,400.0	89.34	269.29	8,439.3	-453.8	-3,887.4	3,912.9	0.00	0.00	0.00
12,500.0	89.34	269.29	8,440.4	-455.0	-3,987.4	4,012.5	0.00	0.00	0.00
12,600.0	89.34	269.29	8,441.5	-456.2	-4,087.4	4,112.2	0.00	0.00	0.00
12,700.0	89.34	269.29	8,442.7	-457.5	-4,187.4	4,211.9	0.00	0.00	0.00
12,800.0	89.34	269.29	8,443.8	-458.7	-4,287.4	4,311.5	0.00	0.00	0.00
12,900.0	89.34	269.29	8,445.0	-459.9	-4,387.4	4,411.2	0.00	0.00	0.00
12,989.1	89.34	269.29	8,446.0	-461.0	-4,476.5	4,500.0	0.00	0.00	0.00
13,000.0	89.56	269.29	8,446.1	-461.2	-4,487.4	4,510.8	2.00	2.00	0.00
13,023.2	90.02	269.30	8,446.2	-461.4	-4,510.5	4,533.9	2.00	2.00	0.00
13,100.0	90.02	269.30	8,446.2	-462.4	-4,587.3	4,610.5	0.00	0.00	0.00
13,200.0	90.02	269.30	8,446.1	-463.6	-4,687.3	4,710.2	0.00	0.00	0.00
13,300.0	90.02	269.30	8,446.1	-464.9	-4,787.3	4,809.8	0.00	0.00	0.00
13,400.0	90.02	269.30	8,446.0	-466.1	-4,887.3	4,909.5	0.00	0.00	0.00
13,458.2	90.02	269.30	8,446.0	-466.8	-4,945.5	4,967.5	0.00	0.00	0.00

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well: PALMILLO 10 STATE COM 335H
Company:	PERMIAN	TVD Reference:	WELL @ 3520.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 83	MD Reference:	WELL @ 3520.0ft (Original Well Elev)
Site:	PALMILLO 10 STATE COM PAD (234,335,336)	North Reference:	Grid
Well:	PALMILLO 10 STATE COM 335H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE COM 335H		
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)	(ft)	(ft)		
- Shape									
T3 PALMILLO 10 STATE - plan hits target center - Point	0.00	0.00	8,430.0	-442.5	-2,971.6	610,758.60	592,826.13	32° 40' 44.058 N	104° 9' 57.577 W
BHL PALMILLO 10 STA1 - plan hits target center - Point	0.00	0.00	8,446.0	-466.8	-4,945.5	610,734.30	590,852.20	32° 40' 43.848 N	104° 10' 20.674 W
T4 PALMILLO 10 STATE - plan hits target center - Point	0.00	0.00	8,446.0	-461.0	-4,476.5	610,740.07	591,321.21	32° 40' 43.898 N	104° 10' 15.186 W
T2 PALMILLO 10 STATE - plan hits target center - Point	0.00	0.00	8,462.0	-424.0	-1,466.6	610,777.13	594,331.05	32° 40' 44.218 N	104° 9' 39.969 W