

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 12 2019

RECEIVED

PERMIAN

NW DISTRICT - NM EZ NAD 83

PALMILLO 10 STATE COM PAD (231,331,332)

PALMILLO 10 STATE COM 231H

PALMILLO 10 STATE COM 231H

30.015-45790

Plan: Design #1

Standard Planning Report

25 February, 2019

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well PALMILLO 10 STATE COM 231H
Company:	PERMIAN	TVD Reference:	WELL @ 3515.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 83	MD Reference:	WELL @ 3515.0ft (Original Well Elev)
Site:	PALMILLO 10 STATE COM PAD (231,331,332)	North Reference:	Grid
Well:	PALMILLO 10 STATE COM 231H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE COM 231H		
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 (231,331,332)			
Site Position:		Northing:	607,803.00 ft	Latitude: 32° 40' 14.764 N
From:	Map	Easting:	595,809.90 ft	Longitude: 104° 9' 22.724 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence: 0.10 °

Well	PALMILLO 10 STATE COM 231H			
Well Position	+N/-S	0.0 ft	Northing:	607,803.00 ft
	+E/-W	0.0 ft	Easting:	595,809.90 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:		Ground Level: 3,489.0 ft

Wellbore	PALMILLO 10 STATE COM 231H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/31/2018	7.28	60.45	48,001.40000000

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	265.55

Plan Survey Tool Program	Date	2/20/2019		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	12,317.3	Design #1 (PALMILLO 10 STATE	MWD+HDGM (MWD) OWSG MWD + HDGM

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Wellbore:	PALMILLO 10 STATE COM 231H		
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	
1,533.3	8.00	158.16	1,531.6	-34.5	13.8	1.50	1.50	0.00	158.16	
3,541.2	8.00	158.16	3,519.9	-293.9	117.8	0.00	0.00	0.00	0.00	
4,074.5	0.00	0.00	4,051.5	-328.4	131.6	1.50	-1.50	0.00	180.00	
6,949.5	0.00	0.00	6,926.5	-328.4	131.6	0.00	0.00	0.00	0.00	
7,747.2	95.72	269.36	7,401.6	-334.3	-393.4	12.00	12.00	-11.36	269.36	
8,836.8	95.72	269.36	7,293.0	-346.4	-1,477.6	0.00	0.00	0.00	0.00	T2 PALMILLO 10 STA
9,057.0	91.32	269.36	7,279.5	-348.9	-1,697.2	2.00	-2.00	0.00	-180.00	
10,341.0	91.32	269.36	7,250.0	-363.2	-2,980.8	0.00	0.00	0.00	0.00	T3 PALMILLO 10 STA
10,674.7	84.64	269.36	7,261.8	-366.9	-3,314.1	2.00	-2.00	0.00	180.00	
11,094.8	84.64	269.36	7,301.0	-371.6	-3,732.4	0.00	0.00	0.00	0.00	T4 PALMILLO 10 STA
11,443.6	91.62	269.36	7,312.4	-375.5	-4,080.7	2.00	2.00	0.00	0.00	
11,847.1	91.62	269.36	7,301.0	-380.0	-4,484.0	0.00	0.00	0.00	0.00	T5 PALMILLO 10 STA
11,873.8	91.08	269.36	7,300.4	-380.3	-4,510.8	2.00	-2.00	0.00	179.99	
12,317.3	91.08	269.36	7,292.0	-385.3	-4,954.2	0.00	0.00	0.00	0.00	BHL PALMILLO 10 S

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Well:	PALMILLO 10 STATE COM 231H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE COM 231H		
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	158.16	1,100.0	-1.2	0.5	-0.4	1.50	1.50	0.00
1,200.0	3.00	158.16	1,199.9	-4.9	1.9	-1.6	1.50	1.50	0.00
1,300.0	4.50	158.16	1,299.7	-10.9	4.4	-3.5	1.50	1.50	0.00
1,400.0	6.00	158.16	1,399.3	-19.4	7.8	-6.3	1.50	1.50	0.00
1,500.0	7.50	158.16	1,498.6	-30.3	12.2	-9.8	1.50	1.50	0.00
1,533.3	8.00	158.16	1,531.6	-34.5	13.8	-11.1	1.50	1.50	0.00
1,600.0	8.00	158.16	1,597.6	-43.1	17.3	-13.9	0.00	0.00	0.00
1,700.0	8.00	158.16	1,696.6	-56.0	22.5	-18.0	0.00	0.00	0.00
1,800.0	8.00	158.16	1,795.7	-69.0	27.6	-22.2	0.00	0.00	0.00
1,900.0	8.00	158.16	1,894.7	-81.9	32.8	-26.4	0.00	0.00	0.00
2,000.0	8.00	158.16	1,993.7	-94.8	38.0	-30.5	0.00	0.00	0.00
2,100.0	8.00	158.16	2,092.8	-107.7	43.2	-34.7	0.00	0.00	0.00
2,200.0	8.00	158.16	2,191.8	-120.6	48.3	-38.8	0.00	0.00	0.00
2,300.0	8.00	158.16	2,290.8	-133.5	53.5	-43.0	0.00	0.00	0.00
2,400.0	8.00	158.16	2,389.8	-146.5	58.7	-47.2	0.00	0.00	0.00
2,500.0	8.00	158.16	2,488.9	-159.4	63.9	-51.3	0.00	0.00	0.00
2,600.0	8.00	158.16	2,587.9	-172.3	69.0	-55.5	0.00	0.00	0.00
2,700.0	8.00	158.16	2,686.9	-185.2	74.2	-59.6	0.00	0.00	0.00
2,800.0	8.00	158.16	2,785.9	-198.1	79.4	-63.8	0.00	0.00	0.00
2,900.0	8.00	158.16	2,885.0	-211.1	84.6	-68.0	0.00	0.00	0.00
3,000.0	8.00	158.16	2,984.0	-224.0	89.8	-72.1	0.00	0.00	0.00
3,100.0	8.00	158.16	3,083.0	-236.9	94.9	-76.3	0.00	0.00	0.00
3,200.0	8.00	158.16	3,182.0	-249.8	100.1	-80.4	0.00	0.00	0.00
3,300.0	8.00	158.16	3,281.1	-262.7	105.3	-84.6	0.00	0.00	0.00
3,400.0	8.00	158.16	3,380.1	-275.7	110.5	-88.8	0.00	0.00	0.00
3,500.0	8.00	158.16	3,479.1	-288.6	115.6	-92.9	0.00	0.00	0.00
3,541.2	8.00	158.16	3,519.9	-293.9	117.8	-94.6	0.00	0.00	0.00
3,600.0	7.12	158.16	3,578.2	-301.1	120.6	-96.9	1.50	-1.50	0.00
3,700.0	5.62	158.16	3,677.6	-311.4	124.8	-100.3	1.50	-1.50	0.00
3,800.0	4.12	158.16	3,777.2	-319.2	127.9	-102.8	1.50	-1.50	0.00
3,900.0	2.62	158.16	3,877.1	-324.7	130.1	-104.5	1.50	-1.50	0.00
4,000.0	1.12	158.16	3,977.0	-327.7	131.3	-105.5	1.50	-1.50	0.00
4,074.5	0.00	0.00	4,051.5	-328.4	131.6	-105.7	1.50	-1.50	0.00
4,100.0	0.00	0.00	4,077.0	-328.4	131.6	-105.7	0.00	0.00	0.00
4,200.0	0.00	0.00	4,177.0	-328.4	131.6	-105.7	0.00	0.00	0.00
4,300.0	0.00	0.00	4,277.0	-328.4	131.6	-105.7	0.00	0.00	0.00
4,400.0	0.00	0.00	4,377.0	-328.4	131.6	-105.7	0.00	0.00	0.00
4,500.0	0.00	0.00	4,477.0	-328.4	131.6	-105.7	0.00	0.00	0.00
4,600.0	0.00	0.00	4,577.0	-328.4	131.6	-105.7	0.00	0.00	0.00
4,700.0	0.00	0.00	4,677.0	-328.4	131.6	-105.7	0.00	0.00	0.00
4,800.0	0.00	0.00	4,777.0	-328.4	131.6	-105.7	0.00	0.00	0.00
4,900.0	0.00	0.00	4,877.0	-328.4	131.6	-105.7	0.00	0.00	0.00

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Well:	PALMILLO 10 STATE COM 231H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE COM 231H		
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	4,977.0	-328.4	131.6	-105.7	0.00	0.00	0.00
5,100.0	0.00	0.00	5,077.0	-328.4	131.6	-105.7	0.00	0.00	0.00
5,200.0	0.00	0.00	5,177.0	-328.4	131.6	-105.7	0.00	0.00	0.00
5,300.0	0.00	0.00	5,277.0	-328.4	131.6	-105.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,377.0	-328.4	131.6	-105.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,477.0	-328.4	131.6	-105.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,577.0	-328.4	131.6	-105.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,677.0	-328.4	131.6	-105.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,777.0	-328.4	131.6	-105.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,877.0	-328.4	131.6	-105.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,977.0	-328.4	131.6	-105.7	0.00	0.00	0.00
6,100.0	0.00	0.00	6,077.0	-328.4	131.6	-105.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,177.0	-328.4	131.6	-105.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,277.0	-328.4	131.6	-105.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,377.0	-328.4	131.6	-105.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,477.0	-328.4	131.6	-105.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,577.0	-328.4	131.6	-105.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,677.0	-328.4	131.6	-105.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,777.0	-328.4	131.6	-105.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,877.0	-328.4	131.6	-105.7	0.00	0.00	0.00
6,949.5	0.00	0.00	6,926.5	-328.4	131.6	-105.7	0.00	0.00	0.00
7,000.0	6.06	269.36	6,976.9	-328.4	128.9	-103.1	12.00	12.00	0.00
7,100.0	18.06	269.36	7,074.5	-328.7	108.1	-82.3	12.00	12.00	0.00
7,200.0	30.06	269.36	7,165.7	-329.1	67.4	-41.7	12.00	12.00	0.00
7,300.0	42.06	269.36	7,246.4	-329.8	8.6	17.0	12.00	12.00	0.00
7,400.0	54.06	269.36	7,313.1	-330.6	-65.6	91.0	12.00	12.00	0.00
7,500.0	66.06	269.36	7,362.9	-331.6	-152.1	177.4	12.00	12.00	0.00
7,600.0	78.06	269.36	7,393.6	-332.6	-247.1	272.1	12.00	12.00	0.00
7,700.0	90.06	269.36	7,404.0	-333.7	-346.3	371.2	12.00	12.00	0.00
7,747.2	95.72	269.36	7,401.6	-334.3	-393.4	418.1	12.00	12.00	0.00
7,800.0	95.72	269.36	7,396.3	-334.9	-446.0	470.6	0.00	0.00	0.00
7,900.0	95.72	269.36	7,386.4	-336.0	-545.5	569.9	0.00	0.00	0.00
8,000.0	95.72	269.36	7,376.4	-337.1	-645.0	669.2	0.00	0.00	0.00
8,100.0	95.72	269.36	7,366.4	-338.2	-744.5	768.5	0.00	0.00	0.00
8,200.0	95.72	269.36	7,356.5	-339.3	-844.0	867.7	0.00	0.00	0.00
8,300.0	95.72	269.36	7,346.5	-340.4	-943.5	967.0	0.00	0.00	0.00
8,400.0	95.72	269.36	7,336.5	-341.5	-1,043.0	1,066.3	0.00	0.00	0.00
8,500.0	95.72	269.36	7,326.6	-342.7	-1,142.5	1,165.6	0.00	0.00	0.00
8,600.0	95.72	269.36	7,316.6	-343.8	-1,242.0	1,264.9	0.00	0.00	0.00
8,700.0	95.72	269.36	7,306.6	-344.9	-1,341.4	1,364.2	0.00	0.00	0.00
8,800.0	95.72	269.36	7,296.7	-346.0	-1,440.9	1,463.4	0.00	0.00	0.00
8,836.8	95.72	269.36	7,293.0	-346.4	-1,477.6	1,500.0	0.00	0.00	0.00
8,900.0	94.46	269.36	7,287.4	-347.1	-1,540.5	1,562.8	2.00	-2.00	0.00
9,000.0	92.46	269.36	7,281.4	-348.2	-1,640.3	1,662.4	2.00	-2.00	0.00
9,057.0	91.32	269.36	7,279.5	-348.9	-1,697.2	1,719.2	2.00	-2.00	0.00
9,100.0	91.32	269.36	7,278.5	-349.3	-1,740.3	1,762.1	0.00	0.00	0.00
9,200.0	91.32	269.36	7,276.2	-350.5	-1,840.2	1,861.9	0.00	0.00	0.00
9,300.0	91.32	269.36	7,273.9	-351.6	-1,940.2	1,961.6	0.00	0.00	0.00
9,400.0	91.32	269.36	7,271.6	-352.7	-2,040.2	2,061.4	0.00	0.00	0.00
9,500.0	91.32	269.36	7,269.3	-353.8	-2,140.1	2,161.1	0.00	0.00	0.00
9,600.0	91.32	269.36	7,267.0	-354.9	-2,240.1	2,260.9	0.00	0.00	0.00
9,700.0	91.32	269.36	7,264.7	-356.1	-2,340.1	2,360.6	0.00	0.00	0.00
9,800.0	91.32	269.36	7,262.4	-357.2	-2,440.0	2,460.4	0.00	0.00	0.00

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Wellbore:	PALMILLO 10 STATE COM 231H		
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)
9,900.0	91.32	269.36	7,260.1	-358.3	-2,540.0	2,560.1	0.00	0.00	0.00
10,000.0	91.32	269.36	7,257.8	-359.4	-2,640.0	2,659.9	0.00	0.00	0.00
10,100.0	91.32	269.36	7,255.5	-360.5	-2,739.9	2,759.6	0.00	0.00	0.00
10,200.0	91.32	269.36	7,253.2	-361.6	-2,839.9	2,859.4	0.00	0.00	0.00
10,300.0	91.32	269.36	7,250.9	-362.8	-2,939.9	2,959.1	0.00	0.00	0.00
10,341.0	91.32	269.36	7,250.0	-363.2	-2,980.8	3,000.0	0.00	0.00	0.00
10,400.0	90.14	269.36	7,249.3	-363.9	-3,039.8	3,058.9	2.00	-2.00	0.00
10,500.0	88.14	269.36	7,250.8	-365.0	-3,139.8	3,158.7	2.00	-2.00	0.00
10,600.0	86.14	269.36	7,255.8	-366.1	-3,239.7	3,258.3	2.00	-2.00	0.00
10,674.7	84.64	269.36	7,261.8	-366.9	-3,314.1	3,332.6	2.00	-2.00	0.00
10,700.0	84.64	269.36	7,264.1	-367.2	-3,339.3	3,357.7	0.00	0.00	0.00
10,800.0	84.64	269.36	7,273.5	-368.3	-3,438.9	3,457.1	0.00	0.00	0.00
10,900.0	84.64	269.36	7,282.8	-369.5	-3,538.4	3,556.4	0.00	0.00	0.00
11,000.0	84.64	269.36	7,292.1	-370.6	-3,638.0	3,655.8	0.00	0.00	0.00
11,094.8	84.64	269.36	7,301.0	-371.6	-3,732.4	3,750.0	0.00	0.00	0.00
11,100.0	84.74	269.36	7,301.5	-371.7	-3,737.6	3,755.1	2.00	2.00	0.00
11,200.0	86.74	269.36	7,308.9	-372.8	-3,837.3	3,854.6	2.00	2.00	0.00
11,300.0	88.74	269.36	7,312.8	-373.9	-3,937.2	3,954.3	2.00	2.00	0.00
11,400.0	90.74	269.36	7,313.3	-375.0	-4,037.2	4,054.1	2.00	2.00	0.00
11,443.6	91.62	269.36	7,312.4	-375.5	-4,080.7	4,097.6	2.00	2.00	0.00
11,500.0	91.62	269.36	7,310.8	-376.2	-4,137.1	4,153.8	0.00	0.00	0.00
11,600.0	91.62	269.36	7,308.0	-377.3	-4,237.1	4,253.6	0.00	0.00	0.00
11,700.0	91.62	269.36	7,305.1	-378.4	-4,337.0	4,353.3	0.00	0.00	0.00
11,800.0	91.62	269.36	7,302.3	-379.5	-4,437.0	4,453.1	0.00	0.00	0.00
11,847.1	91.62	269.36	7,301.0	-380.0	-4,484.0	4,500.0	0.00	0.00	0.00
11,873.8	91.08	269.36	7,300.4	-380.3	-4,510.8	4,526.7	2.00	-2.00	0.00
11,900.0	91.08	269.36	7,299.9	-380.6	-4,537.0	4,552.8	0.00	0.00	0.00
12,000.0	91.08	269.36	7,298.0	-381.8	-4,636.9	4,652.6	0.00	0.00	0.00
12,100.0	91.08	269.36	7,296.1	-382.9	-4,736.9	4,752.3	0.00	0.00	0.00
12,200.0	91.08	269.36	7,294.2	-384.0	-4,836.9	4,852.1	0.00	0.00	0.00
12,300.0	91.08	269.36	7,292.3	-385.1	-4,936.9	4,951.9	0.00	0.00	0.00
12,317.3	91.08	269.36	7,292.0	-385.3	-4,954.2	4,969.2	0.00	0.00	0.00

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well PALMILLO 10 STATE COM.231H
Company:	PERMIAN	TVD Reference:	WELL @ 3515.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 83	MD Reference:	WELL @ 3515.0ft (Original Well Elev)
Site:	PALMILLO 10 STATE COM PAD (231.331,332)	North Reference:	Grid
Well:	PALMILLO 10 STATE COM 231H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE COM 231H		
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	7,250.0	-363.2	-2,980.8	607,439.78	592,829.09	32° 40' 11.217 N	104° 9' 57.604 W
BHL PALMILLO 10 STA1 - plan hits target center - Point	0.00	0.00	7,292.0	-385.3	-4,954.2	607,417.70	590,855.70	32° 40' 11.029 N	104° 10' 20.691 W
T2 PALMILLO 10 STATE - plan hits target center - Point	0.00	0.00	7,293.0	-346.4	-1,477.6	607,456.60	594,332.31	32° 40' 11.360 N	104° 9' 40.017 W
T4 PALMILLO 10 STATE - plan hits target center - Point	0.00	0.00	7,301.0	-371.6	-3,732.4	607,431.37	592,077.48	32° 40' 11.146 N	104° 10' 6.397 W
T5 PALMILLO 10 STATE - plan hits target center - Point	0.00	0.01	7,301.0	-380.0	-4,484.0	607,422.96	591,325.87	32° 40' 11.074 N	104° 10' 15.191 W