

PERMIAN

NW DISTRICT - NM EZ NAD 28

PALMILLO 21 STATE PAD (227, 324, 325)

Palmillo 21 State 227H

Palmillo 21 State 227H

30-015-4527A

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 01 2018

RECEIVED

Plan: Design #1

Standard Planning Report

24 September, 2018

apachecorp
Planning Report

Database: PEDM
Company: PERMIAN
Project: NW DISTRICT - NM EZ NAD 28
Site: PALMILLO 21 STATE PAD (227, 324, 325)
Well: Palmillo 21 State 227H
Wellbore: Palmillo 21 State 227H
Design: Design #1

Local Co-ordinate Reference: Well Palmillo 21 State 227H
TVD Reference: WELL @ 3483.0ft (Original Well Elev)
MD Reference: WELL @ 3483.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	NW DISTRICT - NM EZ NAD 28		
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 21 STATE PAD (227, 324, 325)		
Site Position:		Northing:	599,759.30 ft
From:	Map	Easting:	585,960.40 ft
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in
		Latitude:	32° 38' 55.316 N
		Longitude:	104° 11' 18.084 W
		Grid Convergence:	0.08 °

Well	Palmillo 21 State 227H		
Well Position	+N/-S	-40.1 ft	Northing: 599,719.20 ft
	+E/-W	-0.1 ft	Easting: 585,960.30 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	0.0 ft
		Latitude:	32° 38' 54.920 N
		Longitude:	104° 11' 18.086 W
		Ground Level:	3,458.0 ft

Wellbore	Palmillo 21 State 227H		
Magnetics	Model Name	Sample Date	Declination
	HDGM	9/18/2018	7.28
		Dip Angle	60.43
		Field Strength	48,035
		(°)	
		(nT)	

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	91.42
		(°)	

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	
1,800.0	8.00	241.33	1,797.4	-26.8	-48.9	1.00	1.00	0.00	241.33	
3,619.4	8.00	241.33	3,599.1	-148.2	-271.1	0.00	0.00	0.00	0.00	
4,419.4	0.00	0.00	4,396.5	-175.0	-320.0	1.00	-1.00	0.00	180.00	
6,865.1	0.00	0.00	6,842.2	-175.0	-320.0	0.00	0.00	0.00	0.00	
7,615.1	90.00	89.37	7,319.7	-169.7	157.4	12.00	12.00	0.00	89.37	BHL Palmillo 21 State
7,927.7	90.00	89.37	7,319.7	-166.3	470.0	0.00	0.00	0.00	0.00	T1 Palmillo 21 State 2
7,989.6	89.38	89.37	7,320.0	-165.6	531.9	1.00	-1.00	0.00	-179.99	
9,286.7	89.38	89.37	7,334.0	-151.2	1,828.8	0.00	0.00	0.00	0.00	T2 Palmillo 21 State 2
9,360.6	88.64	89.37	7,335.3	-150.4	1,902.7	1.00	-1.00	0.00	179.99	
10,277.6	88.64	89.37	7,357.0	-140.3	2,819.4	0.00	0.00	0.00	0.00	T3 Palmillo 21 State 2
10,908.1	94.95	89.37	7,337.3	-133.3	3,449.3	1.00	1.00	0.00	-0.01	
11,050.2	94.95	89.37	7,325.0	-131.7	3,590.8	0.00	0.00	0.00	0.00	T4 Palmillo 21 State 2
11,093.0	94.52	89.37	7,321.5	-131.2	3,633.5	1.00	-1.00	0.00	179.86	
11,720.7	94.52	89.37	7,272.0	-124.3	4,259.2	0.00	0.00	0.00	0.00	T5 Palmillo 21 State 2
12,240.1	94.52	89.37	7,231.1	-118.6	4,776.9	0.00	0.00	0.00	0.00	BHL Palmillo 21 State

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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)	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	1.00	241.33	1,100.0	-0.4	-0.8	-0.8	1.00	1.00	0.00
1,200.0	2.00	241.33	1,200.0	-1.7	-3.1	-3.0	1.00	1.00	0.00
1,300.0	3.00	241.33	1,299.9	-3.8	-6.9	-6.8	1.00	1.00	0.00
1,400.0	4.00	241.33	1,399.7	-6.7	-12.2	-12.1	1.00	1.00	0.00
1,500.0	5.00	241.33	1,499.4	-10.5	-19.1	-18.9	1.00	1.00	0.00
1,600.0	6.00	241.33	1,598.9	-15.1	-27.5	-27.2	1.00	1.00	0.00
1,700.0	7.00	241.33	1,698.3	-20.5	-37.5	-37.0	1.00	1.00	0.00
1,800.0	8.00	241.33	1,797.4	-26.8	-48.9	-48.2	1.00	1.00	0.00
1,900.0	8.00	241.33	1,896.4	-33.4	-61.1	-60.3	0.00	0.00	0.00
2,000.0	8.00	241.33	1,995.5	-40.1	-73.3	-72.3	0.00	0.00	0.00
2,100.0	8.00	241.33	2,094.5	-46.8	-85.6	-84.4	0.00	0.00	0.00
2,200.0	8.00	241.33	2,193.5	-53.5	-97.8	-96.4	0.00	0.00	0.00
2,300.0	8.00	241.33	2,292.5	-60.1	-110.0	-108.4	0.00	0.00	0.00
2,400.0	8.00	241.33	2,391.6	-66.8	-122.2	-120.5	0.00	0.00	0.00
2,500.0	8.00	241.33	2,490.6	-73.5	-134.4	-132.5	0.00	0.00	0.00
2,600.0	8.00	241.33	2,589.6	-80.2	-146.6	-144.6	0.00	0.00	0.00
2,700.0	8.00	241.33	2,688.6	-86.9	-158.8	-156.6	0.00	0.00	0.00
2,800.0	8.00	241.33	2,787.7	-93.5	-171.0	-168.7	0.00	0.00	0.00
2,900.0	8.00	241.33	2,886.7	-100.2	-183.2	-180.7	0.00	0.00	0.00
3,000.0	8.00	241.33	2,985.7	-106.9	-195.4	-192.7	0.00	0.00	0.00
3,100.0	8.00	241.33	3,084.8	-113.6	-207.7	-204.8	0.00	0.00	0.00
3,200.0	8.00	241.33	3,183.8	-120.2	-219.9	-216.8	0.00	0.00	0.00
3,300.0	8.00	241.33	3,282.8	-126.9	-232.1	-228.9	0.00	0.00	0.00
3,400.0	8.00	241.33	3,381.8	-133.6	-244.3	-240.9	0.00	0.00	0.00
3,500.0	8.00	241.33	3,480.9	-140.3	-256.5	-252.9	0.00	0.00	0.00
3,600.0	8.00	241.33	3,579.9	-147.0	-268.7	-265.0	0.00	0.00	0.00
3,619.4	8.00	241.33	3,599.1	-148.2	-271.1	-267.3	0.00	0.00	0.00
3,700.0	7.19	241.33	3,679.0	-153.4	-280.4	-276.5	1.00	-1.00	0.00
3,800.0	6.19	241.33	3,778.3	-159.0	-290.7	-286.6	1.00	-1.00	0.00
3,900.0	5.19	241.33	3,877.8	-163.7	-299.4	-295.2	1.00	-1.00	0.00
4,000.0	4.19	241.33	3,977.5	-167.6	-306.5	-302.3	1.00	-1.00	0.00
4,100.0	3.19	241.33	4,077.3	-170.7	-312.2	-307.9	1.00	-1.00	0.00
4,200.0	2.19	241.33	4,177.2	-173.0	-316.3	-311.9	1.00	-1.00	0.00
4,300.0	1.19	241.33	4,277.1	-174.4	-318.9	-314.5	1.00	-1.00	0.00
4,400.0	0.19	241.33	4,377.1	-175.0	-320.0	-315.5	1.00	-1.00	0.00
4,419.4	0.00	0.00	4,396.5	-175.0	-320.0	-315.6	1.00	-1.00	0.00
4,500.0	0.00	0.00	4,477.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
4,600.0	0.00	0.00	4,577.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
4,700.0	0.00	0.00	4,677.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
4,800.0	0.00	0.00	4,777.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
4,900.0	0.00	0.00	4,877.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
5,000.0	0.00	0.00	4,977.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
5,100.0	0.00	0.00	5,077.1	-175.0	-320.0	-315.6	0.00	0.00	0.00

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5,200.0	0.00	0.00	5,177.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
5,300.0	0.00	0.00	5,277.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
5,400.0	0.00	0.00	5,377.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
5,500.0	0.00	0.00	5,477.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
5,600.0	0.00	0.00	5,577.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
5,700.0	0.00	0.00	5,677.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
5,800.0	0.00	0.00	5,777.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
5,900.0	0.00	0.00	5,877.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
6,000.0	0.00	0.00	5,977.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
6,100.0	0.00	0.00	6,077.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
6,200.0	0.00	0.00	6,177.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
6,300.0	0.00	0.00	6,277.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
6,400.0	0.00	0.00	6,377.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
6,500.0	0.00	0.00	6,477.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
6,600.0	0.00	0.00	6,577.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
6,700.0	0.00	0.00	6,677.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,777.1	-175.0	-320.0	-315.6	0.00	0.00	0.00
6,865.1	0.00	0.00	6,842.2	-175.0	-320.0	-315.6	0.00	0.00	0.00
6,900.0	4.19	89.37	6,877.1	-175.0	-318.7	-314.3	12.00	12.00	0.00
7,000.0	16.19	89.37	6,975.3	-174.8	-301.1	-296.6	12.00	12.00	0.00
7,100.0	28.19	89.37	7,067.7	-174.4	-263.4	-259.0	12.00	12.00	0.00
7,200.0	40.19	89.37	7,150.3	-173.8	-207.3	-202.9	12.00	12.00	0.00
7,300.0	52.19	89.37	7,219.4	-173.0	-135.3	-130.9	12.00	12.00	0.00
7,400.0	64.19	89.37	7,272.0	-172.0	-50.4	-46.2	12.00	12.00	0.00
7,500.0	76.19	89.37	7,305.9	-171.0	43.5	47.7	12.00	12.00	0.00
7,600.0	88.19	89.37	7,319.4	-169.9	142.3	146.5	12.00	12.00	0.00
7,615.1	90.00	89.37	7,319.7	-169.7	157.4	161.6	12.00	12.00	0.00
7,700.0	90.00	89.37	7,319.7	-168.8	242.3	246.4	0.00	0.00	0.00
7,800.0	90.00	89.37	7,319.7	-167.7	342.3	346.4	0.00	0.00	0.00
7,900.0	90.00	89.37	7,319.7	-166.6	442.3	446.3	0.00	0.00	0.00
7,927.7	90.00	89.37	7,319.7	-166.3	470.0	474.0	0.00	0.00	0.00
7,989.6	89.38	89.37	7,320.0	-165.6	531.9	535.8	1.00	-1.00	0.00
8,000.0	89.38	89.37	7,320.1	-165.5	542.3	546.3	0.00	0.00	0.00
8,100.0	89.38	89.37	7,321.2	-164.4	642.3	646.2	0.00	0.00	0.00
8,200.0	89.38	89.37	7,322.3	-163.2	742.3	746.1	0.00	0.00	0.00
8,300.0	89.38	89.37	7,323.3	-162.1	842.3	846.0	0.00	0.00	0.00
8,400.0	89.38	89.37	7,324.4	-161.0	942.3	946.0	0.00	0.00	0.00
8,500.0	89.38	89.37	7,325.5	-159.9	1,042.3	1,045.9	0.00	0.00	0.00
8,600.0	89.38	89.37	7,326.6	-158.8	1,142.2	1,145.8	0.00	0.00	0.00
8,700.0	89.38	89.37	7,327.7	-157.7	1,242.2	1,245.8	0.00	0.00	0.00
8,800.0	89.38	89.37	7,328.7	-156.6	1,342.2	1,345.7	0.00	0.00	0.00
8,900.0	89.38	89.37	7,329.8	-155.5	1,442.2	1,445.6	0.00	0.00	0.00
9,000.0	89.38	89.37	7,330.9	-154.4	1,542.2	1,545.5	0.00	0.00	0.00
9,100.0	89.38	89.37	7,332.0	-153.3	1,642.2	1,645.5	0.00	0.00	0.00
9,200.0	89.38	89.37	7,333.1	-152.2	1,742.2	1,745.4	0.00	0.00	0.00
9,286.7	89.38	89.37	7,334.0	-151.2	1,828.8	1,832.0	0.00	0.00	0.00
9,300.0	89.25	89.37	7,334.2	-151.1	1,842.2	1,845.3	1.00	-1.00	0.00
9,360.6	88.64	89.37	7,335.3	-150.4	1,902.7	1,905.9	1.00	-1.00	0.00
9,400.0	88.64	89.37	7,336.2	-150.0	1,942.1	1,945.3	0.00	0.00	0.00
9,500.0	88.64	89.37	7,338.6	-148.9	2,042.1	2,045.2	0.00	0.00	0.00
9,600.0	88.64	89.37	7,340.9	-147.8	2,142.1	2,145.1	0.00	0.00	0.00
9,700.0	88.64	89.37	7,343.3	-146.6	2,242.0	2,245.0	0.00	0.00	0.00
9,800.0	88.64	89.37	7,345.7	-145.5	2,342.0	2,344.9	0.00	0.00	0.00
9,900.0	88.64	89.37	7,348.1	-144.4	2,442.0	2,444.8	0.00	0.00	0.00

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10,000.0	88.64	89.37	7,350.4	-143.3	2,541.9	2,544.7	0.00	0.00	0.00
10,100.0	88.64	89.37	7,352.8	-142.2	2,641.9	2,644.6	0.00	0.00	0.00
10,200.0	88.64	89.37	7,355.2	-141.1	2,741.9	2,744.5	0.00	0.00	0.00
10,277.6	88.64	89.37	7,357.0	-140.3	2,819.4	2,822.0	0.00	0.00	0.00
10,300.0	88.87	89.37	7,357.5	-140.0	2,841.8	2,844.4	1.00	1.00	0.00
10,400.0	89.87	89.37	7,358.6	-138.9	2,941.8	2,944.3	1.00	1.00	0.00
10,500.0	90.87	89.37	7,358.0	-137.8	3,041.8	3,044.3	1.00	1.00	0.00
10,600.0	91.87	89.37	7,355.6	-136.7	3,141.8	3,144.2	1.00	1.00	0.00
10,700.0	92.87	89.37	7,351.4	-135.6	3,241.7	3,244.0	1.00	1.00	0.00
10,800.0	93.87	89.37	7,345.6	-134.5	3,341.5	3,343.8	1.00	1.00	0.00
10,900.0	94.87	89.37	7,338.0	-133.4	3,441.2	3,443.4	1.00	1.00	0.00
10,908.1	94.95	89.37	7,337.3	-133.3	3,449.3	3,451.5	1.00	1.00	0.00
11,000.0	94.95	89.37	7,329.3	-132.3	3,540.8	3,543.0	0.00	0.00	0.00
11,050.2	94.95	89.37	7,325.0	-131.7	3,590.8	3,593.0	0.00	0.00	0.00
11,093.0	94.52	89.37	7,321.5	-131.2	3,633.5	3,635.7	1.00	-1.00	0.00
11,100.0	94.52	89.37	7,320.9	-131.2	3,640.5	3,642.6	0.00	0.00	0.00
11,200.0	94.52	89.37	7,313.0	-130.1	3,740.1	3,742.2	0.00	0.00	0.00
11,300.0	94.52	89.37	7,305.2	-129.0	3,839.8	3,841.8	0.00	0.00	0.00
11,400.0	94.52	89.37	7,297.3	-127.9	3,939.5	3,941.5	0.00	0.00	0.00
11,500.0	94.52	89.37	7,289.4	-126.8	4,039.2	4,041.1	0.00	0.00	0.00
11,600.0	94.52	89.37	7,281.5	-125.7	4,138.9	4,140.7	0.00	0.00	0.00
11,700.0	94.52	89.37	7,273.6	-124.6	4,238.5	4,240.3	0.00	0.00	0.00
11,720.7	94.52	89.37	7,272.0	-124.3	4,259.2	4,261.0	0.00	0.00	0.00
11,800.0	94.52	89.37	7,265.8	-123.5	4,338.2	4,340.0	0.00	0.00	0.00
11,900.0	94.52	89.37	7,257.9	-122.4	4,437.9	4,439.6	0.00	0.00	0.00
12,000.0	94.52	89.37	7,250.0	-121.3	4,537.6	4,539.2	0.00	0.00	0.00
12,100.0	94.52	89.37	7,242.1	-120.2	4,637.3	4,638.8	0.00	0.00	0.00
12,200.0	94.52	89.37	7,234.2	-119.0	4,737.0	4,738.5	0.00	0.00	0.00
12,240.1	94.52	89.37	7,231.1	-118.6	4,776.9	4,778.4	0.00	0.00	0.00

apachecorp
Planning Report

Database: PEDM
Company: PERMIAN
Project: NW DISTRICT - NM EZ NAD 28
Site: PALMILLO 21 STATE PAD (227, 324, 325)
Well: Palmillo 21 State 227H
Wellbore: Palmillo 21 State 227H
Design: Design #1

Local Co-ordinate Reference: Well Palmillo 21 State 227H
TVD Reference: WELL @ 3483.0ft (Original Well Elev)
MD Reference: WELL @ 3483.0ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
T6 Palmillo 21 State 227 - plan misses target center by 253.2ft at 12240.1ft MD (7231.1 TVD, -118.6 N, 4776.9 E) - Point	0.00	0.00	7,258.0	-115.8	5,028.7	599,603.39	590,988.97	32° 38' 53.702 N	104° 10' 19.271 W
T5 Palmillo 21 State 227 - plan hits target center - Point	0.00	0.00	7,272.0	-124.3	4,259.2	599,594.87	590,219.53	32° 38' 53.629 N	104° 10' 28.271 W
BHL Palmillo 21 State 227 - plan misses target center by 88.6ft at 12233.1ft MD (7231.6 TVD, -118.7 N, 4769.9 E) - Point	0.00	0.00	7,320.0	-118.6	4,776.9	599,600.60	590,737.20	32° 38' 53.678 N	104° 10' 22.216 W
T1 Palmillo 21 State 227 - plan misses target center by 0.3ft at 7927.7ft MD (7319.7 TVD, -166.3 N, 470.0 E) - Point	0.00	0.00	7,320.0	-166.3	470.0	599,552.94	586,430.32	32° 38' 53.268 N	104° 11' 12.591 W
T4 Palmillo 21 State 227 - plan hits target center - Point	0.00	0.00	7,325.0	-131.7	3,590.8	599,587.48	589,551.14	32° 38' 53.566 N	104° 10' 36.089 W
T2 Palmillo 21 State 227 - plan hits target center - Point	0.00	0.00	7,334.0	-151.2	1,828.8	599,567.98	587,789.11	32° 38' 53.398 N	104° 10' 56.698 W
T3 Palmillo 21 State 227 - plan hits target center - Point	0.00	0.00	7,357.0	-140.3	2,819.4	599,578.94	588,779.69	32° 38' 53.492 N	104° 10' 45.112 W