

**NM OIL CONSERVATION
ARTESIA DISTRICT**

SEP 28 2018

RECEIVED

PERMIAN

NW DISTRICT - NM EZ NAD 28

PALMILLO 21 STATE PAD (227, 324, 325)

Palmillo 21 State 325H

Palmillo 21 State 325H

Plan: Design #1

Standard Planning Report

24 September, 2018

30-015-45282

apachecorp
Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well Palmillo 21 State 325H
Company:	PERMIAN	TVD Reference:	WELL @ 3483.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 28	MD Reference:	WELL @ 3483.0ft (Original Well Elev)
Site:	PALMILLO 21 STATE PAD (227, 324, 325)	North Reference:	Grid
Well:	Palmillo 21 State 325H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Palmillo 21 State 325H		
Design:	Design #1		

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	Latitude: 32° 38' 55.316 N
From:	Map	Easting:	585,960.40 ft	Longitude: 104° 11' 18.084 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence: 0.08 °

Well	Palmillo 21 State 325H			
Well Position	+N/-S	0.0 ft	Northing:	599,759.30 ft
	+E/-W	0.0 ft	Easting:	585,960.40 ft
Position Uncertainty	0.0 ft		Wellhead Elevation:	0.0 ft
			Ground Level:	3,458.0 ft

Wellbore	Palmillo 21 State 325H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/18/2018	7.28	60.43	48,035

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	84.34

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	322.36	1,663.3	46.0	-35.4	1.50	1.50	0.00	322.36	
4,016.2	10.00	322.36	3,977.1	369.0	-284.6	0.00	0.00	0.00	0.00	
4,682.8	0.00	0.00	4,640.4	415.0	-320.0	1.50	-1.50	0.00	180.00	
8,023.5	0.00	0.00	7,981.0	415.0	-320.0	0.00	0.00	0.00	0.00	
8,769.6	89.54	89.35	8,458.4	420.4	153.6	12.00	12.00	0.00	89.35	LP Palmillo 21 State 3
10,080.4	89.54	89.35	8,469.0	435.4	1,464.2	0.00	0.00	0.00	0.00	T1 Palmillo 21 State 3
10,097.9	89.72	89.35	8,469.1	435.6	1,481.7	1.00	1.00	0.00	-0.27	
11,084.2	89.72	89.35	8,474.0	446.8	2,468.0	0.00	0.00	0.00	0.00	T2 Palmillo 21 State 3
12,088.0	89.72	89.35	8,479.0	458.3	3,471.7	0.00	0.00	0.00	0.00	T3 Palmillo 21 State 3
12,177.7	88.82	89.35	8,480.1	459.3	3,561.4	1.00	-1.00	0.00	179.95	
13,092.1	88.82	89.35	8,499.0	469.8	4,475.5	0.00	0.00	0.00	0.00	T4 Palmillo 21 State 3
13,253.4	90.43	89.35	8,500.1	471.6	4,636.8	1.00	1.00	0.00	0.01	
13,393.5	90.43	89.35	8,499.0	473.2	4,776.9	0.00	0.00	0.00	0.00	BHL Palmillo 21 State

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

Local Co-ordinate Reference: Well Palmillo 21 State 325H
TVD Reference: WELL @ 3483.0ft (Original Well Elev)
MD Reference: WELL @ 3483.0ft (Original Well Elev)
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)	Builde 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	322.36	1,100.0	1.0	-0.8	-0.7	1.50	1.50	0.00
1,200.0	3.00	322.36	1,199.9	4.1	-3.2	-2.8	1.50	1.50	0.00
1,300.0	4.50	322.36	1,299.7	9.3	-7.2	-6.2	1.50	1.50	0.00
1,400.0	6.00	322.36	1,399.3	16.6	-12.8	-11.1	1.50	1.50	0.00
1,500.0	7.50	322.36	1,498.6	25.9	-20.0	-17.3	1.50	1.50	0.00
1,600.0	9.00	322.36	1,597.5	37.2	-28.7	-24.9	1.50	1.50	0.00
1,666.7	10.00	322.36	1,663.3	46.0	-35.4	-30.7	1.50	1.50	0.00
1,700.0	10.00	322.36	1,696.1	50.5	-39.0	-33.8	0.00	0.00	0.00
1,800.0	10.00	322.36	1,794.6	64.3	-49.6	-43.0	0.00	0.00	0.00
1,900.0	10.00	322.36	1,893.1	78.0	-60.2	-52.2	0.00	0.00	0.00
2,000.0	10.00	322.36	1,991.6	91.8	-70.8	-61.4	0.00	0.00	0.00
2,100.0	10.00	322.36	2,090.0	105.5	-81.4	-70.6	0.00	0.00	0.00
2,200.0	10.00	322.36	2,188.5	119.3	-92.0	-79.8	0.00	0.00	0.00
2,300.0	10.00	322.36	2,287.0	133.0	-102.6	-89.0	0.00	0.00	0.00
2,400.0	10.00	322.36	2,385.5	146.8	-113.2	-98.2	0.00	0.00	0.00
2,500.0	10.00	322.36	2,484.0	160.6	-123.8	-107.4	0.00	0.00	0.00
2,600.0	10.00	322.36	2,582.4	174.3	-134.4	-116.6	0.00	0.00	0.00
2,700.0	10.00	322.36	2,680.9	188.1	-145.0	-125.8	0.00	0.00	0.00
2,800.0	10.00	322.36	2,779.4	201.8	-155.6	-135.0	0.00	0.00	0.00
2,900.0	10.00	322.36	2,877.9	215.6	-166.2	-144.2	0.00	0.00	0.00
3,000.0	10.00	322.36	2,976.4	229.3	-176.8	-153.3	0.00	0.00	0.00
3,100.0	10.00	322.36	3,074.8	243.1	-187.4	-162.5	0.00	0.00	0.00
3,200.0	10.00	322.36	3,173.3	256.8	-198.0	-171.7	0.00	0.00	0.00
3,300.0	10.00	322.36	3,271.8	270.6	-208.6	-180.9	0.00	0.00	0.00
3,400.0	10.00	322.36	3,370.3	284.3	-219.2	-190.1	0.00	0.00	0.00
3,500.0	10.00	322.36	3,468.8	298.1	-229.8	-199.3	0.00	0.00	0.00
3,600.0	10.00	322.36	3,567.2	311.8	-240.4	-208.5	0.00	0.00	0.00
3,700.0	10.00	322.36	3,665.7	325.6	-251.0	-217.7	0.00	0.00	0.00
3,800.0	10.00	322.36	3,764.2	339.3	-261.6	-226.9	0.00	0.00	0.00
3,900.0	10.00	322.36	3,862.7	353.1	-272.2	-236.1	0.00	0.00	0.00
4,000.0	10.00	322.36	3,961.2	366.8	-282.9	-245.3	0.00	0.00	0.00
4,016.2	10.00	322.36	3,977.1	369.0	-284.6	-246.8	0.00	0.00	0.00
4,100.0	8.74	322.36	4,059.8	379.9	-292.9	-254.0	1.50	-1.50	0.00
4,200.0	7.24	322.36	4,158.8	390.9	-301.4	-261.4	1.50	-1.50	0.00
4,300.0	5.74	322.36	4,258.2	399.8	-308.3	-267.4	1.50	-1.50	0.00
4,400.0	4.24	322.36	4,357.8	406.7	-313.6	-272.0	1.50	-1.50	0.00
4,500.0	2.74	322.36	4,457.6	411.5	-317.3	-275.2	1.50	-1.50	0.00
4,600.0	1.24	322.36	4,557.6	414.3	-319.5	-277.1	1.50	-1.50	0.00
4,682.8	0.00	0.00	4,640.4	415.0	-320.0	-277.5	1.50	-1.50	0.00
4,700.0	0.00	0.00	4,657.5	415.0	-320.0	-277.5	0.00	0.00	0.00
4,800.0	0.00	0.00	4,757.5	415.0	-320.0	-277.5	0.00	0.00	0.00
4,900.0	0.00	0.00	4,857.5	415.0	-320.0	-277.5	0.00	0.00	0.00
5,000.0	0.00	0.00	4,957.5	415.0	-320.0	-277.5	0.00	0.00	0.00

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5,100.0	0.00	0.00	5,057.5	415.0	-320.0	-277.5	0.00	0.00	0.00
5,200.0	0.00	0.00	5,157.5	415.0	-320.0	-277.5	0.00	0.00	0.00
5,300.0	0.00	0.00	5,257.5	415.0	-320.0	-277.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,357.5	415.0	-320.0	-277.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,457.5	415.0	-320.0	-277.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,557.5	415.0	-320.0	-277.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,657.5	415.0	-320.0	-277.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,757.5	415.0	-320.0	-277.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,857.5	415.0	-320.0	-277.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,957.5	415.0	-320.0	-277.5	0.00	0.00	0.00
6,100.0	0.00	0.00	6,057.5	415.0	-320.0	-277.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,157.5	415.0	-320.0	-277.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,257.5	415.0	-320.0	-277.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,357.5	415.0	-320.0	-277.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,457.5	415.0	-320.0	-277.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,557.5	415.0	-320.0	-277.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,657.5	415.0	-320.0	-277.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,757.5	415.0	-320.0	-277.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,857.5	415.0	-320.0	-277.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,957.5	415.0	-320.0	-277.5	0.00	0.00	0.00
7,100.0	0.00	0.00	7,057.5	415.0	-320.0	-277.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,157.5	415.0	-320.0	-277.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,257.5	415.0	-320.0	-277.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,357.5	415.0	-320.0	-277.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,457.5	415.0	-320.0	-277.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,557.5	415.0	-320.0	-277.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,657.5	415.0	-320.0	-277.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,757.5	415.0	-320.0	-277.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,857.5	415.0	-320.0	-277.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,957.5	415.0	-320.0	-277.5	0.00	0.00	0.00
8,023.5	0.00	0.00	7,981.0	415.0	-320.0	-277.5	0.00	0.00	0.00
8,100.0	9.19	89.35	8,057.2	415.1	-313.9	-271.4	12.00	12.00	0.00
8,200.0	21.19	89.35	8,153.6	415.4	-287.7	-245.4	12.00	12.00	0.00
8,300.0	33.19	89.35	8,242.3	415.9	-242.1	-200.0	12.00	12.00	0.00
8,400.0	45.19	89.35	8,319.7	416.6	-179.1	-137.1	12.00	12.00	0.00
8,500.0	57.19	89.35	8,382.3	417.5	-101.3	-59.6	12.00	12.00	0.00
8,600.0	69.19	89.35	8,427.3	418.5	-12.2	29.1	12.00	12.00	0.00
8,700.0	81.19	89.35	8,452.8	419.6	84.3	125.2	12.00	12.00	0.00
8,769.6	89.54	89.35	8,458.4	420.4	153.6	194.3	12.00	12.00	0.00
8,800.0	89.54	89.35	8,458.7	420.8	184.0	224.6	0.00	0.00	0.00
8,900.0	89.54	89.35	8,459.5	421.9	284.0	324.2	0.00	0.00	0.00
9,000.0	89.54	89.35	8,460.3	423.0	384.0	423.8	0.00	0.00	0.00
9,100.0	89.54	89.35	8,461.1	424.2	483.9	523.4	0.00	0.00	0.00
9,200.0	89.54	89.35	8,461.9	425.3	583.9	623.0	0.00	0.00	0.00
9,300.0	89.54	89.35	8,462.7	426.5	683.9	722.6	0.00	0.00	0.00
9,400.0	89.54	89.35	8,463.5	427.6	783.9	822.3	0.00	0.00	0.00
9,500.0	89.54	89.35	8,464.3	428.7	883.9	921.9	0.00	0.00	0.00
9,600.0	89.54	89.35	8,465.1	429.9	983.9	1,021.5	0.00	0.00	0.00
9,700.0	89.54	89.35	8,465.9	431.0	1,083.9	1,121.1	0.00	0.00	0.00
9,800.0	89.54	89.35	8,466.7	432.2	1,183.9	1,220.7	0.00	0.00	0.00
9,900.0	89.54	89.35	8,467.5	433.3	1,283.9	1,320.3	0.00	0.00	0.00
10,000.0	89.54	89.35	8,468.3	434.5	1,383.9	1,419.9	0.00	0.00	0.00
10,080.4	89.54	89.35	8,469.0	435.4	1,464.2	1,500.0	0.00	0.00	0.00
10,097.9	89.72	89.35	8,469.1	435.6	1,481.7	1,517.5	1.00	1.00	0.00

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Site: PALMILLO 21 STATE PAD (227, 324, 325)
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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)
10,100.0	89.72	89.35	8,469.1	435.6	1,483.9	1,519.6	0.00	0.00	0.00
10,200.0	89.72	89.35	8,469.6	436.7	1,583.8	1,619.2	0.00	0.00	0.00
10,300.0	89.72	89.35	8,470.1	437.9	1,683.8	1,718.8	0.00	0.00	0.00
10,400.0	89.72	89.35	8,470.6	439.0	1,783.8	1,818.4	0.00	0.00	0.00
10,500.0	89.72	89.35	8,471.1	440.2	1,883.8	1,918.0	0.00	0.00	0.00
10,600.0	89.72	89.35	8,471.6	441.3	1,983.8	2,017.7	0.00	0.00	0.00
10,700.0	89.72	89.35	8,472.1	442.4	2,083.8	2,117.3	0.00	0.00	0.00
10,800.0	89.72	89.35	8,472.6	443.6	2,183.8	2,216.9	0.00	0.00	0.00
10,900.0	89.72	89.35	8,473.1	444.7	2,283.8	2,316.5	0.00	0.00	0.00
11,000.0	89.72	89.35	8,473.6	445.9	2,383.8	2,416.1	0.00	0.00	0.00
11,084.2	89.72	89.35	8,474.0	446.8	2,468.0	2,500.0	0.00	0.00	0.00
11,100.0	89.72	89.35	8,474.1	447.0	2,483.8	2,515.7	0.00	0.00	0.00
11,200.0	89.72	89.35	8,474.6	448.2	2,583.8	2,615.4	0.00	0.00	0.00
11,300.0	89.72	89.35	8,475.1	449.3	2,683.8	2,715.0	0.00	0.00	0.00
11,400.0	89.72	89.35	8,475.6	450.4	2,783.8	2,814.6	0.00	0.00	0.00
11,500.0	89.72	89.35	8,476.1	451.6	2,883.7	2,914.2	0.00	0.00	0.00
11,600.0	89.72	89.35	8,476.6	452.7	2,983.7	3,013.8	0.00	0.00	0.00
11,700.0	89.72	89.35	8,477.1	453.9	3,083.7	3,113.4	0.00	0.00	0.00
11,800.0	89.72	89.35	8,477.6	455.0	3,183.7	3,213.1	0.00	0.00	0.00
11,900.0	89.72	89.35	8,478.1	456.2	3,283.7	3,312.7	0.00	0.00	0.00
12,000.0	89.72	89.35	8,478.6	457.3	3,383.7	3,412.3	0.00	0.00	0.00
12,088.0	89.72	89.35	8,479.0	458.3	3,471.7	3,500.0	0.00	0.00	0.00
12,100.0	89.60	89.35	8,479.1	458.4	3,483.7	3,511.9	1.00	-1.00	0.00
12,177.7	88.82	89.35	8,480.1	459.3	3,561.4	3,589.3	1.00	-1.00	0.00
12,200.0	88.82	89.35	8,480.6	459.6	3,583.7	3,611.5	0.00	0.00	0.00
12,300.0	88.82	89.35	8,482.7	460.7	3,683.6	3,711.1	0.00	0.00	0.00
12,400.0	88.82	89.35	8,484.7	461.9	3,783.6	3,810.7	0.00	0.00	0.00
12,500.0	88.82	89.35	8,486.8	463.0	3,883.6	3,910.3	0.00	0.00	0.00
12,600.0	88.82	89.35	8,488.9	464.1	3,983.6	4,009.9	0.00	0.00	0.00
12,700.0	88.82	89.35	8,490.9	465.3	4,083.5	4,109.5	0.00	0.00	0.00
12,800.0	88.82	89.35	8,493.0	466.4	4,183.5	4,209.1	0.00	0.00	0.00
12,900.0	88.82	89.35	8,495.0	467.6	4,283.5	4,308.7	0.00	0.00	0.00
13,000.0	88.82	89.35	8,497.1	468.7	4,383.5	4,408.3	0.00	0.00	0.00
13,092.1	88.82	89.35	8,499.0	469.8	4,475.5	4,500.0	0.00	0.00	0.00
13,100.0	88.90	89.35	8,499.2	469.9	4,483.4	4,507.9	1.00	1.00	0.00
13,200.0	89.90	89.35	8,500.2	471.0	4,583.4	4,607.5	1.00	1.00	0.00
13,253.4	90.43	89.35	8,500.1	471.6	4,636.8	4,660.7	1.00	1.00	0.00
13,300.0	90.43	89.35	8,499.7	472.1	4,683.4	4,707.1	0.00	0.00	0.00
13,393.5	90.43	89.35	8,499.0	473.2	4,776.9	4,800.3	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 325H
Wellbore: Palmillo 21 State 325H
Design: Design #1

Local Co-ordinate Reference: Well Palmillo 21 State 325H
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
LP Palmillo 21 State 325 - plan hits target center - Point	0.00	0.00	8,458.5	420.4	157.4	600,179.75	586,117.83	32° 38' 59.475 N	104° 11' 16.236 W
T1 Palmillo 21 State 325 - plan hits target center - Point	0.00	0.00	8,469.0	435.4	1,464.2	600,194.67	587,424.61	32° 38' 59.605 N	104° 11' 0.951 W
T2 Palmillo 21 State 325 - plan hits target center - Point	0.00	0.00	8,474.0	446.8	2,468.0	600,206.14	588,428.37	32° 38' 59.704 N	104° 10' 49.211 W
T3 Palmillo 21 State 325 - plan hits target center - Point	0.00	0.00	8,479.0	458.3	3,471.7	600,217.60	589,432.13	32° 38' 59.803 N	104° 10' 37.470 W
T4 Palmillo 21 State 325 - plan hits target center - Point	0.00	0.01	8,499.0	469.8	4,475.5	600,229.06	590,435.89	32° 38' 59.901 N	104° 10' 25.729 W
BHL Palmillo 21 State 3; - plan hits target center - Point	0.00	0.01	8,499.0	473.2	4,776.9	600,232.50	590,737.30	32° 38' 59.931 N	104° 10' 22.204 W