

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 19 2019

RECEIVED

PERMIAN

NW DISTRICT - NM EZ NAD 83

PALMILLO 3 STATE COM PAD (241,351,352)

PALMILLO 3 STATE COM 241H

PALMILLO 3 STATE COM 241H

30-015-45799

Plan: Design #1

Standard Planning Report

04 March, 2019

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well PALMILLO 3 STATE COM 241H
Company:	PERMIAN	TVD Reference:	WELL @ 3507.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 83	MD Reference:	WELL @ 3507.0ft (Original Well Elev)
Site:	PALMILLO 3 STATE COM PAD (241,351,352)	North Reference:	Grid
Well:	PALMILLO 3 STATE COM 241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 3 STATE COM 241H		
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 3 STATE COM PAD (241,351,352)				
Site Position:		Northing:	612,782.80 ft	Latitude:	32° 41' 4.040 N
From:	Map	Easting:	595,800.90 ft	Longitude:	104° 9' 22.732 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.10 °

Well	PALMILLO 3 STATE COM 241H				
Well Position	+N/-S	0.0 ft	Northing:	612,782.80 ft	Latitude: 32° 41' 4.040 N
	+E/-W	0.0 ft	Easting:	595,800.90 ft	Longitude: 104° 9' 22.732 W
Position Uncertainty		0.0 ft	Wellhead Elevation:		Ground Level: 3,481.0 ft

Wellbore	PALMILLO 3 STATE COM 241H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/26/2018	7.30	60.45	48,001.90000000

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	268.92

Plan Survey Tool Program	Date	3/1/2019		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(ft)	(ft)			
1	0.0	12,331.8	Design #1 (PALMILLO 3 STATE C	MWD+HDGM (MWD)
				OWSG MWD + HDGM

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Wellbore:	PALMILLO 3 STATE COM 241H		
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	
1,233.3	3.50	103.19	1,233.2	-1.6	6.9	1.50	1.50	0.00	103.19	
3,182.0	3.50	103.19	3,178.3	-28.8	122.8	0.00	0.00	0.00	0.00	
3,415.4	0.00	0.00	3,411.5	-30.4	129.7	1.50	-1.50	0.00	180.00	
6,978.4	0.00	0.00	6,974.5	-30.4	129.7	0.00	0.00	0.00	0.00	
7,765.4	94.44	269.30	7,450.5	-36.7	-384.7	12.00	12.00	-11.53	269.30	
8,883.5	94.44	269.30	7,364.0	-50.4	-1,499.3	0.00	0.00	0.00	0.00	T2 PALMILLO 3 STAT
8,950.5	93.10	269.30	7,359.6	-51.3	-1,566.2	2.00	-2.00	0.00	-179.99	
10,385.8	93.10	269.30	7,282.0	-68.9	-2,999.2	0.00	0.00	0.00	0.00	T3 PALMILLO 3 STAT
10,436.6	92.08	269.30	7,279.7	-69.5	-3,050.0	2.00	-2.00	0.00	179.98	
11,886.8	92.08	269.30	7,227.0	-87.3	-4,499.1	0.00	0.00	0.00	0.00	T4 PALMILLO 3 STAT
12,007.2	89.67	269.30	7,225.2	-88.8	-4,619.5	2.00	-2.00	0.00	-179.99	
12,332.3	89.67	269.30	7,227.0	-92.8	-4,944.6	0.00	0.00	0.00	0.00	BHL PALMILLO 3 ST/

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Well:	PALMILLO 3 STATE COM 241H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 3 STATE COM 241H		
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	103.19	1,100.0	-0.3	1.3	-1.3	1.50	1.50	0.00
1,200.0	3.00	103.19	1,199.9	-1.2	5.1	-5.1	1.50	1.50	0.00
1,233.3	3.50	103.19	1,233.2	-1.6	6.9	-6.9	1.50	1.50	0.00
1,300.0	3.50	103.19	1,299.7	-2.6	10.9	-10.8	0.00	0.00	0.00
1,400.0	3.50	103.19	1,399.5	-3.9	16.8	-16.8	0.00	0.00	0.00
1,500.0	3.50	103.19	1,499.4	-5.3	22.8	-22.7	0.00	0.00	0.00
1,600.0	3.50	103.19	1,599.2	-6.7	28.7	-28.6	0.00	0.00	0.00
1,700.0	3.50	103.19	1,699.0	-8.1	34.7	-34.5	0.00	0.00	0.00
1,800.0	3.50	103.19	1,798.8	-9.5	40.6	-40.4	0.00	0.00	0.00
1,900.0	3.50	103.19	1,898.6	-10.9	46.6	-46.3	0.00	0.00	0.00
2,000.0	3.50	103.19	1,998.4	-12.3	52.5	-52.3	0.00	0.00	0.00
2,100.0	3.50	103.19	2,098.2	-13.7	58.4	-58.2	0.00	0.00	0.00
2,200.0	3.50	103.19	2,198.1	-15.1	64.4	-64.1	0.00	0.00	0.00
2,300.0	3.50	103.19	2,297.9	-16.5	70.3	-70.0	0.00	0.00	0.00
2,400.0	3.50	103.19	2,397.7	-17.9	76.3	-75.9	0.00	0.00	0.00
2,500.0	3.50	103.19	2,497.5	-19.3	82.2	-81.8	0.00	0.00	0.00
2,600.0	3.50	103.19	2,597.3	-20.7	88.2	-87.8	0.00	0.00	0.00
2,700.0	3.50	103.19	2,697.1	-22.1	94.1	-93.7	0.00	0.00	0.00
2,800.0	3.50	103.19	2,796.9	-23.5	100.1	-99.6	0.00	0.00	0.00
2,900.0	3.50	103.19	2,896.7	-24.8	106.0	-105.5	0.00	0.00	0.00
3,000.0	3.50	103.19	2,996.6	-26.2	111.9	-111.4	0.00	0.00	0.00
3,100.0	3.50	103.19	3,096.4	-27.6	117.9	-117.3	0.00	0.00	0.00
3,182.0	3.50	103.19	3,178.3	-28.8	122.8	-122.2	0.00	0.00	0.00
3,200.0	3.23	103.19	3,196.2	-29.0	123.8	-123.2	1.50	-1.50	0.00
3,300.0	1.73	103.19	3,296.1	-30.0	128.0	-127.4	1.50	-1.50	0.00
3,400.0	0.23	103.19	3,396.1	-30.4	129.7	-129.1	1.50	-1.50	0.00
3,415.4	0.00	0.00	3,411.5	-30.4	129.7	-129.1	1.50	-1.50	0.00
3,500.0	0.00	0.00	3,496.1	-30.4	129.7	-129.1	0.00	0.00	0.00
3,600.0	0.00	0.00	3,596.1	-30.4	129.7	-129.1	0.00	0.00	0.00
3,700.0	0.00	0.00	3,696.1	-30.4	129.7	-129.1	0.00	0.00	0.00
3,800.0	0.00	0.00	3,796.1	-30.4	129.7	-129.1	0.00	0.00	0.00
3,900.0	0.00	0.00	3,896.1	-30.4	129.7	-129.1	0.00	0.00	0.00
4,000.0	0.00	0.00	3,996.1	-30.4	129.7	-129.1	0.00	0.00	0.00
4,100.0	0.00	0.00	4,096.1	-30.4	129.7	-129.1	0.00	0.00	0.00
4,200.0	0.00	0.00	4,196.1	-30.4	129.7	-129.1	0.00	0.00	0.00
4,300.0	0.00	0.00	4,296.1	-30.4	129.7	-129.1	0.00	0.00	0.00
4,400.0	0.00	0.00	4,396.1	-30.4	129.7	-129.1	0.00	0.00	0.00
4,500.0	0.00	0.00	4,496.1	-30.4	129.7	-129.1	0.00	0.00	0.00
4,600.0	0.00	0.00	4,596.1	-30.4	129.7	-129.1	0.00	0.00	0.00
4,700.0	0.00	0.00	4,696.1	-30.4	129.7	-129.1	0.00	0.00	0.00
4,800.0	0.00	0.00	4,796.1	-30.4	129.7	-129.1	0.00	0.00	0.00
4,900.0	0.00	0.00	4,896.1	-30.4	129.7	-129.1	0.00	0.00	0.00
5,000.0	0.00	0.00	4,996.1	-30.4	129.7	-129.1	0.00	0.00	0.00

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Wellbore:	PALMILLO 3 STATE COM 241H		
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)	
5,100.0	0.00	0.00	5,096.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,196.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,296.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,396.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,496.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,596.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,696.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,796.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,896.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,996.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,096.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,196.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,296.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,396.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,496.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,596.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,696.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,796.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,896.1	-30.4	129.7	-129.1	0.00	0.00	0.00	
6,978.4	0.00	0.00	6,974.5	-30.4	129.7	-129.1	0.00	0.00	0.00	
7,000.0	2.59	269.30	6,996.1	-30.4	129.2	-128.6	12.00	12.00	0.00	
7,100.0	14.59	269.30	7,094.8	-30.6	114.3	-113.7	12.00	12.00	0.00	
7,200.0	26.59	269.30	7,188.2	-31.0	79.2	-78.6	12.00	12.00	0.00	
7,300.0	38.59	269.30	7,272.3	-31.7	25.4	-24.8	12.00	12.00	0.00	
7,400.0	50.59	269.30	7,343.4	-32.5	-44.6	45.2	12.00	12.00	0.00	
7,500.0	62.59	269.30	7,398.4	-33.6	-127.9	128.5	12.00	12.00	0.00	
7,600.0	74.59	269.30	7,434.8	-34.7	-220.9	221.5	12.00	12.00	0.00	
7,700.0	86.59	269.30	7,451.1	-35.9	-319.3	319.9	12.00	12.00	0.00	
7,765.4	94.44	269.30	7,450.5	-36.7	-384.7	385.3	12.00	12.00	0.00	
7,800.0	94.44	269.30	7,447.9	-37.1	-419.2	419.8	0.00	0.00	0.00	
7,900.0	94.44	269.30	7,440.1	-38.4	-518.9	519.5	0.00	0.00	0.00	
8,000.0	94.44	269.30	7,432.4	-39.6	-618.5	619.2	0.00	0.00	0.00	
8,100.0	94.44	269.30	7,424.6	-40.8	-718.2	718.9	0.00	0.00	0.00	
8,200.0	94.44	269.30	7,416.9	-42.1	-817.9	818.6	0.00	0.00	0.00	
8,300.0	94.44	269.30	7,409.2	-43.3	-917.6	918.3	0.00	0.00	0.00	
8,400.0	94.44	269.30	7,401.4	-44.5	-1,017.3	1,018.0	0.00	0.00	0.00	
8,500.0	94.44	269.30	7,393.7	-45.7	-1,117.0	1,117.7	0.00	0.00	0.00	
8,600.0	94.44	269.30	7,385.9	-47.0	-1,216.7	1,217.4	0.00	0.00	0.00	
8,700.0	94.44	269.30	7,378.2	-48.2	-1,316.4	1,317.1	0.00	0.00	0.00	
8,800.0	94.44	269.30	7,370.5	-49.4	-1,416.1	1,416.8	0.00	0.00	0.00	
8,883.5	94.44	269.30	7,364.0	-50.4	-1,499.3	1,500.0	0.00	0.00	0.00	
8,900.0	94.11	269.30	7,362.8	-50.6	-1,515.8	1,516.5	2.00	-2.00	0.00	
8,950.5	93.10	269.30	7,359.6	-51.3	-1,566.2	1,566.8	2.00	-2.00	0.00	
9,000.0	93.10	269.30	7,356.9	-51.9	-1,615.6	1,616.3	0.00	0.00	0.00	
9,100.0	93.10	269.30	7,351.5	-53.1	-1,715.4	1,716.1	0.00	0.00	0.00	
9,200.0	93.10	269.30	7,346.1	-54.3	-1,815.3	1,816.0	0.00	0.00	0.00	
9,300.0	93.10	269.30	7,340.7	-55.5	-1,915.1	1,915.8	0.00	0.00	0.00	
9,400.0	93.10	269.30	7,335.3	-56.8	-2,015.0	2,015.7	0.00	0.00	0.00	
9,500.0	93.10	269.30	7,329.9	-58.0	-2,114.8	2,115.5	0.00	0.00	0.00	
9,600.0	93.10	269.30	7,324.5	-59.2	-2,214.7	2,215.4	0.00	0.00	0.00	
9,700.0	93.10	269.30	7,319.1	-60.5	-2,314.5	2,315.2	0.00	0.00	0.00	
9,800.0	93.10	269.30	7,313.7	-61.7	-2,414.4	2,415.1	0.00	0.00	0.00	
9,900.0	93.10	269.30	7,308.3	-62.9	-2,514.2	2,515.0	0.00	0.00	0.00	
10,000.0	93.10	269.30	7,302.9	-64.1	-2,614.1	2,614.8	0.00	0.00	0.00	

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Wellbore:	PALMILLO 3 STATE COM 241H		
Design:	Design #1		

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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	93.10	269.30	7,297.4	-65.4	-2,713.9	2,714.7	0.00	0.00	0.00
10,200.0	93.10	269.30	7,292.0	-66.6	-2,813.8	2,814.5	0.00	0.00	0.00
10,300.0	93.10	269.30	7,286.6	-67.8	-2,913.6	2,914.4	0.00	0.00	0.00
10,385.8	93.10	269.30	7,282.0	-68.9	-2,999.2	3,000.0	0.00	0.00	0.00
10,400.0	92.81	269.30	7,281.3	-69.1	-3,013.4	3,014.2	2.00	-2.00	0.00
10,436.6	92.08	269.30	7,279.7	-69.5	-3,050.0	3,050.8	2.00	-2.00	0.00
10,500.0	92.08	269.30	7,277.4	-70.3	-3,113.4	3,114.1	0.00	0.00	0.00
10,600.0	92.08	269.30	7,273.8	-71.5	-3,213.3	3,214.1	0.00	0.00	0.00
10,700.0	92.08	269.30	7,270.1	-72.7	-3,313.2	3,314.0	0.00	0.00	0.00
10,800.0	92.08	269.30	7,266.5	-74.0	-3,413.1	3,413.9	0.00	0.00	0.00
10,900.0	92.08	269.30	7,262.9	-75.2	-3,513.1	3,513.9	0.00	0.00	0.00
11,000.0	92.08	269.30	7,259.2	-76.4	-3,613.0	3,613.8	0.00	0.00	0.00
11,100.0	92.08	269.30	7,255.6	-77.7	-3,712.9	3,713.7	0.00	0.00	0.00
11,200.0	92.08	269.30	7,252.0	-78.9	-3,812.8	3,813.7	0.00	0.00	0.00
11,300.0	92.08	269.30	7,248.3	-80.1	-3,912.8	3,913.6	0.00	0.00	0.00
11,400.0	92.08	269.30	7,244.7	-81.3	-4,012.7	4,013.5	0.00	0.00	0.00
11,500.0	92.08	269.30	7,241.1	-82.6	-4,112.6	4,113.5	0.00	0.00	0.00
11,600.0	92.08	269.30	7,237.4	-83.8	-4,212.6	4,213.4	0.00	0.00	0.00
11,700.0	92.08	269.30	7,233.8	-85.0	-4,312.5	4,313.3	0.00	0.00	0.00
11,800.0	92.08	269.30	7,230.2	-86.3	-4,412.4	4,413.2	0.00	0.00	0.00
11,886.8	92.08	269.30	7,227.0	-87.3	-4,499.1	4,500.0	0.00	0.00	0.00
11,900.0	91.82	269.30	7,226.6	-87.5	-4,512.3	4,513.2	2.00	-2.00	0.00
12,000.0	89.82	269.30	7,225.1	-88.7	-4,612.3	4,613.2	2.00	-2.00	0.00
12,007.2	89.67	269.30	7,225.2	-88.8	-4,619.5	4,620.4	2.00	-2.00	0.00
12,100.0	89.67	269.30	7,225.7	-89.9	-4,712.3	4,713.2	0.00	0.00	0.00
12,200.0	89.67	269.30	7,226.2	-91.2	-4,812.3	4,813.2	0.00	0.00	0.00
12,300.0	89.67	269.30	7,226.8	-92.4	-4,912.3	4,913.2	0.00	0.00	0.00
12,332.3	89.67	269.30	7,227.0	-92.8	-4,944.6	4,945.5	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
T4 PALMILLO 3 STATE - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	7,227.0	-87.3	-4,499.1	612,695.48	591,301.75	32° 41' 3.248 N	104° 10' 15.379 W
BHL PALMILLO 3 STATE - plan hits target center - Point	0.00	0.01	7,227.0	-92.8	-4,944.6	612,690.00	590,856.30	32° 41' 3.200 N	104° 10' 20.591 W
T3 PALMILLO 3 STATE - plan hits target center - Point	0.00	0.00	7,282.0	-68.9	-2,999.2	612,713.92	592,801.66	32° 41' 3.407 N	104° 9' 57.828 W
T2 PALMILLO 3 STATE - plan hits target center - Point	0.00	0.00	7,364.0	-50.4	-1,499.3	612,732.37	594,301.58	32° 41' 3.566 N	104° 9' 40.277 W