

PERMIAN

NW DISTRICT - NM EZ NAD 83

PALMILLO 10 STATE COM PAD (232,333)

PALMILLO 10 STATE 232H

PALMILLO 10 STATE 232H

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 12 2019

Plan: Design #1

RECEIVED

30-015-45785

Standard Planning Report

26 February, 2019

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well PALMILLO 10 STATE 232H
Company:	PERMIAN	TVD Reference:	WELL @ 3516.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 83	MD Reference:	WELL @ 3516.0ft (Original Well Elev)
Site:	PALMILLO 10 STATE COM PAD (232.333)	North Reference:	Grid
Well:	PALMILLO 10 STATE 232H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE 232H		
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 (232.333)		
Site Position:		Northing:	609,202.70 ft
From:	Map	Easting:	595,805.40 ft
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in
		Grid Convergence:	0.10 °

Well:	PALMILLO 10 STATE 232H		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	0.0 ft	Wellhead Elevation:	Ground Level:

Wellbore:	PALMILLO 10 STATE 232H		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM_FILE	12/20/2018	7.28
			Dip Angle (°)
			60.45
			Field Strength (nT)
			48,004.60000000

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 (°)
			264.63

Plan Survey Tool Program	Date	2/20/2019		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	12,301.5	Design #1 (PALMILLO 10 STATE	MWD+HDGM (MWD)
				OWSG MWD + HDGM

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Well:	PALMILLO 10 STATE 232H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE 232H		
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	162.18	1,663.3	-55.2	17.8	1.50	1.50	0.00	162.18	
3,468.7	10.00	162.18	3,438.0	-353.2	113.5	0.00	0.00	0.00	0.00	
4,135.4	0.00	0.00	4,101.3	-408.4	131.3	1.50	-1.50	0.00	180.00	
6,940.6	0.00	0.00	6,906.5	-408.4	131.3	0.00	0.00	0.00	0.00	
7,721.3	93.67	269.36	7,383.0	-414.1	-376.7	12.00	12.00	-11.61	269.36	
8,813.4	93.67	269.36	7,313.0	-426.3	-1,466.5	0.00	0.00	0.00	0.00	T2 PALMILLO 10 STA
8,847.2	93.00	269.36	7,311.0	-426.7	-1,500.3	2.00	-2.00	0.00	-179.99	
9,918.7	93.00	269.36	7,255.0	-438.6	-2,570.2	0.00	0.00	0.00	0.00	T3 PALMILLO 10 STA
10,254.5	86.28	269.36	7,257.1	-442.4	-2,905.9	2.00	-2.00	0.00	179.99	
10,823.1	86.28	269.36	7,294.0	-448.7	-3,473.2	0.00	0.00	0.00	0.00	T4 PALMILLO 10 STA
11,090.3	91.62	269.36	7,298.9	-451.7	-3,740.3	2.00	2.00	0.00	-0.01	
11,827.0	91.62	269.36	7,278.0	-460.0	-4,476.6	0.00	0.00	0.00	0.00	T5 PALMILLO 10 STA
11,916.7	89.83	269.36	7,276.9	-461.0	-4,566.3	2.00	-2.00	0.00	179.97	
12,301.5	89.83	269.36	7,278.0	-465.3	-4,951.1	0.00	0.00	0.00	0.00	BHL PALMILLO 10 S

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Site:	PALMILLO 10 STATE COM PAD (232.333)	North Reference:	Grid
Well:	PALMILLO 10 STATE 232H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE 232H		
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	162.18	1,100.0	-1.2	0.4	-0.3	1.50	1.50	0.00
1,200.0	3.00	162.18	1,199.9	-5.0	1.6	-1.1	1.50	1.50	0.00
1,300.0	4.50	162.18	1,299.7	-11.2	3.6	-2.5	1.50	1.50	0.00
1,400.0	6.00	162.18	1,399.3	-19.9	6.4	-4.5	1.50	1.50	0.00
1,500.0	7.50	162.18	1,498.6	-31.1	10.0	-7.0	1.50	1.50	0.00
1,600.0	9.00	162.18	1,597.5	-44.8	14.4	-10.1	1.50	1.50	0.00
1,666.7	10.00	162.18	1,663.3	-55.2	17.8	-12.5	1.50	1.50	0.00
1,700.0	10.00	162.18	1,696.1	-60.8	19.5	-13.8	0.00	0.00	0.00
1,800.0	10.00	162.18	1,794.6	-77.3	24.8	-17.5	0.00	0.00	0.00
1,900.0	10.00	162.18	1,893.1	-93.8	30.2	-21.3	0.00	0.00	0.00
2,000.0	10.00	162.18	1,991.6	-110.4	35.5	-25.0	0.00	0.00	0.00
2,100.0	10.00	162.18	2,090.0	-126.9	40.8	-28.7	0.00	0.00	0.00
2,200.0	10.00	162.18	2,188.5	-143.4	46.1	-32.5	0.00	0.00	0.00
2,300.0	10.00	162.18	2,287.0	-159.9	51.4	-36.2	0.00	0.00	0.00
2,400.0	10.00	162.18	2,385.5	-176.5	56.7	-40.0	0.00	0.00	0.00
2,500.0	10.00	162.18	2,484.0	-193.0	62.1	-43.7	0.00	0.00	0.00
2,600.0	10.00	162.18	2,582.4	-209.5	67.4	-47.5	0.00	0.00	0.00
2,700.0	10.00	162.18	2,680.9	-226.1	72.7	-51.2	0.00	0.00	0.00
2,800.0	10.00	162.18	2,779.4	-242.6	78.0	-55.0	0.00	0.00	0.00
2,900.0	10.00	162.18	2,877.9	-259.1	83.3	-58.7	0.00	0.00	0.00
3,000.0	10.00	162.18	2,976.4	-275.7	88.6	-62.4	0.00	0.00	0.00
3,100.0	10.00	162.18	3,074.8	-292.2	93.9	-66.2	0.00	0.00	0.00
3,200.0	10.00	162.18	3,173.3	-308.7	99.3	-69.9	0.00	0.00	0.00
3,300.0	10.00	162.18	3,271.8	-325.3	104.6	-73.7	0.00	0.00	0.00
3,400.0	10.00	162.18	3,370.3	-341.8	109.9	-77.4	0.00	0.00	0.00
3,468.7	10.00	162.18	3,438.0	-353.2	113.5	-80.0	0.00	0.00	0.00
3,500.0	9.53	162.18	3,468.8	-358.2	115.2	-81.1	1.50	-1.50	0.00
3,600.0	8.03	162.18	3,567.6	-372.7	119.8	-84.4	1.50	-1.50	0.00
3,700.0	6.53	162.18	3,666.8	-384.8	123.7	-87.2	1.50	-1.50	0.00
3,800.0	5.03	162.18	3,766.3	-394.4	126.8	-89.3	1.50	-1.50	0.00
3,900.0	3.53	162.18	3,866.0	-401.5	129.1	-90.9	1.50	-1.50	0.00
4,000.0	2.03	162.18	3,965.9	-406.1	130.6	-92.0	1.50	-1.50	0.00
4,100.0	0.53	162.18	4,065.9	-408.2	131.2	-92.5	1.50	-1.50	0.00
4,135.4	0.00	0.00	4,101.3	-408.4	131.3	-92.5	1.50	-1.50	0.00
4,200.0	0.00	0.00	4,165.9	-408.4	131.3	-92.5	0.00	0.00	0.00
4,300.0	0.00	0.00	4,265.9	-408.4	131.3	-92.5	0.00	0.00	0.00
4,400.0	0.00	0.00	4,365.9	-408.4	131.3	-92.5	0.00	0.00	0.00
4,500.0	0.00	0.00	4,465.9	-408.4	131.3	-92.5	0.00	0.00	0.00
4,600.0	0.00	0.00	4,565.9	-408.4	131.3	-92.5	0.00	0.00	0.00
4,700.0	0.00	0.00	4,665.9	-408.4	131.3	-92.5	0.00	0.00	0.00
4,800.0	0.00	0.00	4,765.9	-408.4	131.3	-92.5	0.00	0.00	0.00
4,900.0	0.00	0.00	4,865.9	-408.4	131.3	-92.5	0.00	0.00	0.00
5,000.0	0.00	0.00	4,965.9	-408.4	131.3	-92.5	0.00	0.00	0.00

Planning Report

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Company:	PERMIAN	TVD Reference:	WELL @ 3516.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 83	MD Reference:	WELL @ 3516.0ft (Original Well Elev)
Site:	PALMILLO 10 STATE COM PAD (232.333)	North Reference:	Gnd
Well:	PALMILLO 10 STATE 232H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE 232H		
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	5,065.9	-408.4	131.3	-92.5	0.00	0.00	0.00
5,200.0	0.00	0.00	5,165.9	-408.4	131.3	-92.5	0.00	0.00	0.00
5,300.0	0.00	0.00	5,265.9	-408.4	131.3	-92.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,365.9	-408.4	131.3	-92.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,465.9	-408.4	131.3	-92.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,565.9	-408.4	131.3	-92.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,665.9	-408.4	131.3	-92.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,765.9	-408.4	131.3	-92.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,865.9	-408.4	131.3	-92.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,965.9	-408.4	131.3	-92.5	0.00	0.00	0.00
6,100.0	0.00	0.00	6,065.9	-408.4	131.3	-92.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,165.9	-408.4	131.3	-92.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,265.9	-408.4	131.3	-92.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,365.9	-408.4	131.3	-92.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,465.9	-408.4	131.3	-92.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,565.9	-408.4	131.3	-92.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,665.9	-408.4	131.3	-92.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,765.9	-408.4	131.3	-92.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,865.9	-408.4	131.3	-92.5	0.00	0.00	0.00
6,940.6	0.00	0.00	6,906.5	-408.4	131.3	-92.5	0.00	0.00	0.00
7,000.0	7.12	269.36	6,965.7	-408.4	127.6	-88.8	12.00	12.00	0.00
7,100.0	19.12	269.36	7,062.9	-408.7	105.0	-66.3	12.00	12.00	0.00
7,200.0	31.12	269.36	7,153.3	-409.2	62.6	-24.0	12.00	12.00	0.00
7,300.0	43.12	269.36	7,232.9	-409.8	2.3	36.0	12.00	12.00	0.00
7,400.0	55.12	269.36	7,298.2	-410.7	-73.1	111.2	12.00	12.00	0.00
7,500.0	67.12	269.36	7,346.4	-411.7	-160.5	198.3	12.00	12.00	0.00
7,600.0	79.12	269.36	7,375.4	-412.7	-256.0	293.5	12.00	12.00	0.00
7,700.0	91.12	269.36	7,383.9	-413.9	-355.5	392.7	12.00	12.00	0.00
7,721.3	93.67	269.36	7,383.0	-414.1	-376.7	413.8	12.00	12.00	0.00
7,800.0	93.67	269.36	7,377.9	-415.0	-455.3	492.1	0.00	0.00	0.00
7,900.0	93.67	269.36	7,371.5	-416.1	-555.1	591.6	0.00	0.00	0.00
8,000.0	93.67	269.36	7,365.1	-417.2	-654.9	691.0	0.00	0.00	0.00
8,100.0	93.67	269.36	7,358.7	-418.3	-754.7	790.5	0.00	0.00	0.00
8,200.0	93.67	269.36	7,352.3	-419.4	-854.5	890.0	0.00	0.00	0.00
8,300.0	93.67	269.36	7,345.9	-420.6	-954.2	989.4	0.00	0.00	0.00
8,400.0	93.67	269.36	7,339.5	-421.7	-1,054.0	1,088.9	0.00	0.00	0.00
8,500.0	93.67	269.36	7,333.1	-422.8	-1,153.8	1,188.3	0.00	0.00	0.00
8,600.0	93.67	269.36	7,326.7	-423.9	-1,253.6	1,287.8	0.00	0.00	0.00
8,700.0	93.67	269.36	7,320.3	-425.0	-1,353.4	1,387.2	0.00	0.00	0.00
8,800.0	93.67	269.36	7,313.9	-426.1	-1,453.2	1,486.7	0.00	0.00	0.00
8,813.4	93.67	269.36	7,313.0	-426.3	-1,466.5	1,500.0	0.00	0.00	0.00
8,847.2	93.00	269.36	7,311.0	-426.7	-1,500.3	1,533.6	2.00	-2.00	0.00
8,900.0	93.00	269.36	7,308.3	-427.3	-1,553.0	1,586.2	0.00	0.00	0.00
9,000.0	93.00	269.36	7,303.0	-428.4	-1,652.9	1,685.7	0.00	0.00	0.00
9,100.0	93.00	269.36	7,297.8	-429.5	-1,752.7	1,785.2	0.00	0.00	0.00
9,200.0	93.00	269.36	7,292.6	-430.6	-1,852.6	1,884.8	0.00	0.00	0.00
9,300.0	93.00	269.36	7,287.4	-431.7	-1,952.5	1,984.3	0.00	0.00	0.00
9,400.0	93.00	269.36	7,282.1	-432.8	-2,052.3	2,083.8	0.00	0.00	0.00
9,500.0	93.00	269.36	7,276.9	-434.0	-2,152.2	2,183.3	0.00	0.00	0.00
9,600.0	93.00	269.36	7,271.7	-435.1	-2,252.0	2,282.9	0.00	0.00	0.00
9,700.0	93.00	269.36	7,266.4	-436.2	-2,351.9	2,382.4	0.00	0.00	0.00
9,800.0	93.00	269.36	7,261.2	-437.3	-2,451.7	2,481.9	0.00	0.00	0.00
9,900.0	93.00	269.36	7,256.0	-438.4	-2,551.6	2,581.4	0.00	0.00	0.00
9,918.7	93.00	269.36	7,255.0	-438.6	-2,570.2	2,600.0	0.00	0.00	0.00

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Database:	PEDM	Local Co-ordinate Reference:	Well PALMILLO 10 STATE 232H
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Well:	PALMILLO 10 STATE 232H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE 232H		
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	91.37	269.36	7,251.9	-439.6	-2,651.5	2,681.0	2.00	-2.00	0.00
10,100.0	89.37	269.36	7,251.3	-440.7	-2,751.5	2,780.7	2.00	-2.00	0.00
10,200.0	87.37	269.36	7,254.1	-441.8	-2,851.4	2,880.3	2.00	-2.00	0.00
10,254.5	86.28	269.36	7,257.1	-442.4	-2,905.9	2,934.5	2.00	-2.00	0.00
10,300.0	86.28	269.36	7,260.1	-442.9	-2,951.3	2,979.7	0.00	0.00	0.00
10,400.0	86.28	269.36	7,266.6	-444.0	-3,051.0	3,079.2	0.00	0.00	0.00
10,500.0	86.28	269.36	7,273.0	-445.1	-3,150.8	3,178.6	0.00	0.00	0.00
10,600.0	86.28	269.36	7,279.5	-446.3	-3,250.6	3,278.1	0.00	0.00	0.00
10,700.0	86.28	269.36	7,286.0	-447.4	-3,350.4	3,377.5	0.00	0.00	0.00
10,800.0	86.28	269.36	7,292.5	-448.5	-3,450.2	3,477.0	0.00	0.00	0.00
10,823.1	86.28	269.36	7,294.0	-448.7	-3,473.2	3,500.0	0.00	0.00	0.00
10,900.0	87.82	269.36	7,298.0	-449.6	-3,550.0	3,576.5	2.00	2.00	0.00
11,000.0	89.82	269.36	7,300.0	-450.7	-3,650.0	3,676.1	2.00	2.00	0.00
11,090.3	91.62	269.36	7,298.9	-451.7	-3,740.3	3,766.1	2.00	2.00	0.00
11,100.0	91.62	269.36	7,298.6	-451.8	-3,750.0	3,775.8	0.00	0.00	0.00
11,200.0	91.62	269.36	7,295.8	-453.0	-3,849.9	3,875.4	0.00	0.00	0.00
11,300.0	91.62	269.36	7,292.9	-454.1	-3,949.9	3,975.0	0.00	0.00	0.00
11,400.0	91.62	269.36	7,290.1	-455.2	-4,049.8	4,074.6	0.00	0.00	0.00
11,500.0	91.62	269.36	7,287.3	-456.3	-4,149.8	4,174.3	0.00	0.00	0.00
11,600.0	91.62	269.36	7,284.4	-457.4	-4,249.7	4,273.9	0.00	0.00	0.00
11,700.0	91.62	269.36	7,281.6	-458.6	-4,349.7	4,373.5	0.00	0.00	0.00
11,800.0	91.62	269.36	7,278.8	-459.7	-4,449.6	4,473.1	0.00	0.00	0.00
11,827.0	91.62	269.36	7,278.0	-460.0	-4,476.6	4,500.0	0.00	0.00	0.00
11,900.0	90.16	269.36	7,276.9	-460.8	-4,549.6	4,572.8	2.00	-2.00	0.00
11,916.7	89.83	269.36	7,276.9	-461.0	-4,566.3	4,589.4	2.00	-2.00	0.00
12,000.0	89.83	269.36	7,277.1	-461.9	-4,649.6	4,672.4	0.00	0.00	0.00
12,100.0	89.83	269.36	7,277.4	-463.0	-4,749.6	4,772.1	0.00	0.00	0.00
12,200.0	89.83	269.36	7,277.7	-464.2	-4,849.6	4,871.7	0.00	0.00	0.00
12,300.0	89.83	269.36	7,278.0	-465.3	-4,949.6	4,971.4	0.00	0.00	0.00
12,301.5	89.83	269.36	7,278.0	-465.3	-4,951.1	4,972.9	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
T3 PALMILLO 10 STATE - plan hits target center - Point	0.00	0.00	7,255.0	-438.6	-2,570.2	608,764.05	593,235.17	32° 40' 24.315 N	104° 9' 52.829 W
T5 PALMILLO 10 STATE - plan hits target center - Point	0.00	0.00	7,278.0	-460.0	-4,476.6	608,742.71	591,328.80	32° 40' 24.133 N	104° 10' 15.133 W
BHL PALMILLO 10 STA - plan hits target center - Point	0.00	0.00	7,278.0	-465.3	-4,951.1	608,737.40	590,854.30	32° 40' 24.088 N	104° 10' 20.684 W
T4 PALMILLO 10 STATE - plan hits target center - Point	0.00	0.00	7,294.0	-448.7	-3,473.2	608,753.95	592,332.15	32° 40' 24.229 N	104° 10' 3.394 W
T2 PALMILLO 10 STATE - plan hits target center - Point	0.00	0.00	7,313.0	-426.3	-1,466.5	608,776.41	594,338.85	32° 40' 24.420 N	104° 9' 39.916 W

Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well PALMILLO 10 STATE 232H
Company:	PERMIAN	TVD Reference:	WELL @ 3516.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 83	MD Reference:	WELL @ 3516.0ft (Original Well Elev)
Site:	PALMILLO 10 STATE COM PAD (232.333)	North Reference:	Grid
Well:	PALMILLO 10 STATE 232H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 10 STATE 232H		
Design:	Design #1		