NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 13 2019

RECEIVED

PERMIAN

NW DISTRICT - NM EZ NAD 83
PALMILLO 10 STATE COM PAD (232,333)
PALMILLO 10 STATE COM 333H

PALMILLO 10 STATE COM 333H

30-015-45808

Plan: Design #1

Standard Planning Report

26 February, 2019

Database:	PEDM	**Local Co-ordinate Reference:**	Well PALMILLO 10 STATE COM 333H
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 COM 333H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	PALMILLO 10 STATE COM 333H		
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	**Latitude:**	32° 40' 28.614 N
From:	Map	**Easting:**	595,805.40 ft	**Longitude:**	104° 9' 22.749 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.10 °

Well PALMILLO 10 STATE COM 333H

Well Position	**+N/-S**	39.9 ft	**Northing:**	609,242.60 ft	**Latitude:**	32° 40' 29.009 N
	+E/-W	-0.1 ft	**Easting:**	595,805.30 ft	**Longitude:**	104° 9' 22.750 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**		**Ground Level:**	3,490.0 ft

Wellbore PALMILLO 10 STATE COM 333H

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	12/20/2018	7.28	60.45	48,004.60000000

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	266.61

Plan Survey Tool Program **Date** 2/25/2019

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	13,424.2	Design #1 (PALMILLO 10 STATE	MWD+HDGM (MWD)	
				OWSG MWD + HDGM	

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Site:	PALMILLO 10 STATE COM PAD (232,333)	**North Reference:**	Grid
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Wellbore:	PALMILLO 10 STATE COM 333H		
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	
1,466.7	7.00	151.06	1,465.5	-24.9	13.8	1.50	1.50	0.00	151.06	
3,215.9	7.00	151.06	3,201.7	-211.5	116.9	0.00	0.00	0.00	0.00	
3,682.6	0.00	0.00	3,667.2	-236.4	130.7	1.50	-1.50	0.00	180.00	
8,068.9	0.00	0.00	8,053.5	-236.4	130.7	0.00	0.00	0.00	0.00	
8,831.9	91.56	269.36	8,530.8	-241.9	-359.8	12.00	12.00	-11.88	269.36	
9,960.2	91.56	269.36	8,500.0	-254.5	-1,487.6	0.00	0.00	0.00	0.00	T2 PALMILLO 10 STA
10,004.7	90.67	269.36	8,499.1	-255.0	-1,532.1	2.00	-2.00	0.00	179.98	
11,462.0	90.67	269.36	8,482.0	-271.3	-2,989.2	0.00	0.00	0.00	0.00	T3 PALMILLO 10 STA
11,519.7	89.52	269.36	8,481.9	-271.9	-3,046.9	2.00	-2.00	0.00	180.00	
12,963.8	89.52	269.36	8,494.0	-288.0	-4,490.8	0.00	0.00	0.00	0.00	T4 PALMILLO 10 STA
12,988.5	90.01	269.36	8,494.1	-288.3	-4,515.5	2.00	2.00	0.00	-0.08	
13,424.2	90.01	269.36	8,494.0	-293.2	-4,951.2	0.00	0.00	0.00	0.00	BHL PALMILLO 10 S

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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 COM 333H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	PALMILLO 10 STATE COM 333H		
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	151.06	1,100.0	-1.1	0.6	-0.6	1.50	1.50	0.00
1,200.0	3.00	151.06	1,199.9	-4.6	2.5	-2.3	1.50	1.50	0.00
1,300.0	4.50	151.06	1,299.7	-10.3	5.7	-5.1	1.50	1.50	0.00
1,400.0	6.00	151.06	1,399.3	-18.3	10.1	-9.0	1.50	1.50	0.00
1,466.7	7.00	151.06	1,465.5	-24.9	13.8	-12.3	1.50	1.50	0.00
1,500.0	7.00	151.06	1,498.6	-28.5	15.7	-14.0	0.00	0.00	0.00
1,600.0	7.00	151.06	1,597.8	-39.1	21.6	-19.3	0.00	0.00	0.00
1,700.0	7.00	151.06	1,697.1	-49.8	27.5	-24.5	0.00	0.00	0.00
1,800.0	7.00	151.06	1,796.4	-60.5	33.4	-29.8	0.00	0.00	0.00
1,900.0	7.00	151.06	1,895.6	-71.1	39.3	-35.1	0.00	0.00	0.00
2,000.0	7.00	151.06	1,994.9	-81.8	45.2	-40.3	0.00	0.00	0.00
2,100.0	7.00	151.06	2,094.1	-92.5	51.1	-45.6	0.00	0.00	0.00
2,200.0	7.00	151.06	2,193.4	-103.1	57.0	-50.8	0.00	0.00	0.00
2,300.0	7.00	151.06	2,292.6	-113.8	62.9	-56.1	0.00	0.00	0.00
2,400.0	7.00	151.06	2,391.9	-124.5	68.8	-61.3	0.00	0.00	0.00
2,500.0	7.00	151.06	2,491.1	-135.1	74.7	-66.6	0.00	0.00	0.00
2,600.0	7.00	151.06	2,590.4	-145.8	80.6	-71.8	0.00	0.00	0.00
2,700.0	7.00	151.06	2,689.6	-156.5	86.5	-77.1	0.00	0.00	0.00
2,800.0	7.00	151.06	2,788.9	-167.1	92.4	-82.4	0.00	0.00	0.00
2,900.0	7.00	151.06	2,888.2	-177.8	98.3	-87.6	0.00	0.00	0.00
3,000.0	7.00	151.06	2,987.4	-188.5	104.2	-92.9	0.00	0.00	0.00
3,100.0	7.00	151.06	3,086.7	-199.1	110.1	-98.1	0.00	0.00	0.00
3,200.0	7.00	151.06	3,185.9	-209.8	116.0	-103.4	0.00	0.00	0.00
3,215.9	7.00	151.06	3,201.7	-211.5	116.9	-104.2	0.00	0.00	0.00
3,300.0	5.74	151.06	3,285.3	-219.6	121.4	-108.2	1.50	-1.50	0.00
3,400.0	4.24	151.06	3,384.9	-227.3	125.6	-112.0	1.50	-1.50	0.00
3,500.0	2.74	151.06	3,484.7	-232.6	128.6	-114.6	1.50	-1.50	0.00
3,600.0	1.24	151.06	3,584.6	-235.6	130.3	-116.1	1.50	-1.50	0.00
3,682.6	0.00	0.00	3,667.2	-236.4	130.7	-116.5	1.50	-1.50	0.00
3,700.0	0.00	0.00	3,684.6	-236.4	130.7	-116.5	0.00	0.00	0.00
3,800.0	0.00	0.00	3,784.6	-236.4	130.7	-116.5	0.00	0.00	0.00
3,900.0	0.00	0.00	3,884.6	-236.4	130.7	-116.5	0.00	0.00	0.00
4,000.0	0.00	0.00	3,984.6	-236.4	130.7	-116.5	0.00	0.00	0.00
4,100.0	0.00	0.00	4,084.6	-236.4	130.7	-116.5	0.00	0.00	0.00
4,200.0	0.00	0.00	4,184.6	-236.4	130.7	-116.5	0.00	0.00	0.00
4,300.0	0.00	0.00	4,284.6	-236.4	130.7	-116.5	0.00	0.00	0.00
4,400.0	0.00	0.00	4,384.6	-236.4	130.7	-116.5	0.00	0.00	0.00
4,500.0	0.00	0.00	4,484.6	-236.4	130.7	-116.5	0.00	0.00	0.00
4,600.0	0.00	0.00	4,584.6	-236.4	130.7	-116.5	0.00	0.00	0.00
4,700.0	0.00	0.00	4,684.6	-236.4	130.7	-116.5	0.00	0.00	0.00
4,800.0	0.00	0.00	4,784.6	-236.4	130.7	-116.5	0.00	0.00	0.00
4,900.0	0.00	0.00	4,884.6	-236.4	130.7	-116.5	0.00	0.00	0.00
5,000.0	0.00	0.00	4,984.6	-236.4	130.7	-116.5	0.00	0.00	0.00

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Wellbore:	PALMILLO 10 STATE COM 333H		
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Planned Survey

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5,100.0	0.00	0.00	5,084.6	-236.4	130.7	-116.5	0.00	0.00	0.00
5,200.0	0.00	0.00	5,184.6	-236.4	130.7	-116.5	0.00	0.00	0.00
5,300.0	0.00	0.00	5,284.6	-236.4	130.7	-116.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,384.6	-236.4	130.7	-116.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,484.6	-236.4	130.7	-116.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,584.6	-236.4	130.7	-116.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,684.6	-236.4	130.7	-116.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,784.6	-236.4	130.7	-116.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,884.6	-236.4	130.7	-116.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,984.6	-236.4	130.7	-116.5	0.00	0.00	0.00
6,100.0	0.00	0.00	6,084.6	-236.4	130.7	-116.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,184.6	-236.4	130.7	-116.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,284.6	-236.4	130.7	-116.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,384.6	-236.4	130.7	-116.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,484.6	-236.4	130.7	-116.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,584.6	-236.4	130.7	-116.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,684.6	-236.4	130.7	-116.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,784.6	-236.4	130.7	-116.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,884.6	-236.4	130.7	-116.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,984.6	-236.4	130.7	-116.5	0.00	0.00	0.00
7,100.0	0.00	0.00	7,084.6	-236.4	130.7	-116.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,184.6	-236.4	130.7	-116.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,284.6	-236.4	130.7	-116.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,384.6	-236.4	130.7	-116.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,484.6	-236.4	130.7	-116.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,584.6	-236.4	130.7	-116.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,684.6	-236.4	130.7	-116.5	0.00	0.00	0.00
7,800.0	0.00	0.00	7,784.6	-236.4	130.7	-116.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,884.6	-236.4	130.7	-116.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,984.6	-236.4	130.7	-116.5	0.00	0.00	0.00
8,068.9	0.00	0.00	8,053.5	-236.4	130.7	-116.5	0.00	0.00	0.00
8,100.0	3.74	269.36	8,084.6	-236.4	129.7	-115.5	12.00	12.00	0.00
8,200.0	15.74	269.36	8,183.0	-236.6	112.8	-98.6	12.00	12.00	0.00
8,300.0	27.74	269.36	8,275.7	-237.0	75.8	-61.7	12.00	12.00	0.00
8,400.0	39.74	269.36	8,358.7	-237.6	20.4	-6.3	12.00	12.00	0.00
8,500.0	51.74	269.36	8,428.4	-238.4	-51.1	65.1	12.00	12.00	0.00
8,600.0	63.74	269.36	8,481.7	-239.4	-135.5	149.4	12.00	12.00	0.00
8,700.0	75.74	269.36	8,516.2	-240.4	-229.1	242.9	12.00	12.00	0.00
8,800.0	87.74	269.36	8,530.6	-241.5	-327.9	341.6	12.00	12.00	0.00
8,831.9	91.56	269.36	8,530.8	-241.9	-359.8	373.4	12.00	12.00	0.00
8,900.0	91.56	269.36	8,528.9	-242.6	-427.8	441.4	0.00	0.00	0.00
9,000.0	91.56	269.36	8,526.2	-243.8	-527.8	541.3	0.00	0.00	0.00
9,100.0	91.56	269.36	8,523.5	-244.9	-627.8	641.1	0.00	0.00	0.00
9,200.0	91.56	269.36	8,520.7	-246.0	-727.7	741.0	0.00	0.00	0.00
9,300.0	91.56	269.36	8,518.0	-247.1	-827.7	840.8	0.00	0.00	0.00
9,400.0	91.56	269.36	8,515.3	-248.2	-927.6	940.7	0.00	0.00	0.00
9,500.0	91.56	269.36	8,512.6	-249.3	-1,027.6	1,040.5	0.00	0.00	0.00
9,600.0	91.56	269.36	8,509.8	-250.5	-1,127.5	1,140.4	0.00	0.00	0.00
9,700.0	91.56	269.36	8,507.1	-251.6	-1,227.5	1,240.2	0.00	0.00	0.00
9,800.0	91.56	269.36	8,504.4	-252.7	-1,327.5	1,340.1	0.00	0.00	0.00
9,900.0	91.56	269.36	8,501.6	-253.8	-1,427.4	1,439.9	0.00	0.00	0.00
9,960.2	91.56	269.36	8,500.0	-254.5	-1,487.6	1,500.0	0.00	0.00	0.00
10,000.0	90.77	269.36	8,499.2	-254.9	-1,527.4	1,539.8	2.00	-2.00	0.00
10,004.7	90.67	269.36	8,499.1	-255.0	-1,532.1	1,544.4	2.00	-2.00	0.00

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Wellbore:	PALMILLO 10 STATE COM 333H		
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)
10,100.0	90.67	269.36	8,498.0	-256.1	-1,627.4	1,639.6	0.00	0.00	0.00
10,200.0	90.67	269.36	8,496.8	-257.2	-1,727.3	1,739.5	0.00	0.00	0.00
10,300.0	90.67	269.36	8,495.7	-258.3	-1,827.3	1,839.4	0.00	0.00	0.00
10,400.0	90.67	269.36	8,494.5	-259.4	-1,927.3	1,939.3	0.00	0.00	0.00
10,500.0	90.67	269.36	8,493.3	-260.5	-2,027.3	2,039.2	0.00	0.00	0.00
10,600.0	90.67	269.36	8,492.1	-261.6	-2,127.3	2,139.0	0.00	0.00	0.00
10,700.0	90.67	269.36	8,491.0	-262.8	-2,227.3	2,238.9	0.00	0.00	0.00
10,800.0	90.67	269.36	8,489.8	-263.9	-2,327.3	2,338.8	0.00	0.00	0.00
10,900.0	90.67	269.36	8,488.6	-265.0	-2,427.3	2,438.7	0.00	0.00	0.00
11,000.0	90.67	269.36	8,487.4	-266.1	-2,527.2	2,538.6	0.00	0.00	0.00
11,100.0	90.67	269.36	8,486.3	-267.2	-2,627.2	2,638.4	0.00	0.00	0.00
11,200.0	90.67	269.36	8,485.1	-268.3	-2,727.2	2,738.3	0.00	0.00	0.00
11,300.0	90.67	269.36	8,483.9	-269.5	-2,827.2	2,838.2	0.00	0.00	0.00
11,400.0	90.67	269.36	8,482.7	-270.6	-2,927.2	2,938.1	0.00	0.00	0.00
11,462.0	90.67	269.36	8,482.0	-271.3	-2,989.2	3,000.0	0.00	0.00	0.00
11,500.0	89.91	269.36	8,481.8	-271.7	-3,027.2	3,037.9	2.00	-2.00	0.00
11,519.7	89.52	269.36	8,481.9	-271.9	-3,046.9	3,057.6	2.00	-2.00	0.00
11,600.0	89.52	269.36	8,482.6	-272.8	-3,127.2	3,137.8	0.00	0.00	0.00
11,700.0	89.52	269.36	8,483.4	-273.9	-3,227.2	3,237.7	0.00	0.00	0.00
11,800.0	89.52	269.36	8,484.3	-275.0	-3,327.1	3,337.6	0.00	0.00	0.00
11,900.0	89.52	269.36	8,485.1	-276.2	-3,427.1	3,437.5	0.00	0.00	0.00
12,000.0	89.52	269.36	8,485.9	-277.3	-3,527.1	3,537.4	0.00	0.00	0.00
12,100.0	89.52	269.36	8,486.8	-278.4	-3,627.1	3,637.2	0.00	0.00	0.00
12,200.0	89.52	269.36	8,487.6	-279.5	-3,727.1	3,737.1	0.00	0.00	0.00
12,300.0	89.52	269.36	8,488.4	-280.6	-3,827.1	3,837.0	0.00	0.00	0.00
12,400.0	89.52	269.36	8,489.3	-281.8	-3,927.1	3,936.9	0.00	0.00	0.00
12,500.0	89.52	269.36	8,490.1	-282.9	-4,027.1	4,036.8	0.00	0.00	0.00
12,600.0	89.52	269.36	8,491.0	-284.0	-4,127.1	4,136.6	0.00	0.00	0.00
12,700.0	89.52	269.36	8,491.8	-285.1	-4,227.1	4,236.5	0.00	0.00	0.00
12,800.0	89.52	269.36	8,492.6	-286.2	-4,327.1	4,336.4	0.00	0.00	0.00
12,900.0	89.52	269.36	8,493.5	-287.3	-4,427.0	4,436.3	0.00	0.00	0.00
12,963.8	89.52	269.36	8,494.0	-288.0	-4,490.8	4,500.0	0.00	0.00	0.00
12,988.5	90.01	269.36	8,494.1	-288.3	-4,515.5	4,524.6	2.00	2.00	0.00
13,000.0	90.01	269.36	8,494.1	-288.5	-4,527.0	4,536.2	0.00	0.00	0.00
13,100.0	90.01	269.36	8,494.1	-289.6	-4,627.0	4,636.1	0.00	0.00	0.00
13,200.0	90.01	269.36	8,494.1	-290.7	-4,727.0	4,735.9	0.00	0.00	0.00
13,300.0	90.01	269.36	8,494.0	-291.8	-4,827.0	4,835.8	0.00	0.00	0.00
13,400.0	90.01	269.36	8,494.0	-292.9	-4,927.0	4,935.7	0.00	0.00	0.00
13,424.2	90.01	269.36	8,494.0	-293.2	-4,951.2	4,959.9	0.00	0.00	0.00

Database:	PEDM	**Local Co-ordinate Reference:**	Well PALMILLO 10 STATE COM 333H
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 COM 333H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	PALMILLO 10 STATE COM 333H		
Design:	Design #1		

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
T3 PALMILLO 10 STATE - plan hits target center - Point	0.00	0.00	8,482.0	-271.3	-2,989.2	608,971.33	592,816.11	32° 40' 26.373 N	104° 9' 57.728 W
BHL PALMILLO 10 STAT - plan hits target center - Point	0.00	0.00	8,494.0	-293.2	-4,951.2	608,949.40	590,854.10	32° 40' 26.186 N	104° 10' 20.683 W
T4 PALMILLO 10 STATE - plan hits target center - Point	0.00	0.00	8,494.0	-288.0	-4,490.8	608,954.55	591,314.47	32° 40' 26.230 N	104° 10' 15.297 W
T2 PALMILLO 10 STATE - plan hits target center - Point	0.00	0.00	8,500.0	-254.5	-1,487.6	608,988.11	594,317.74	32° 40' 26.515 N	104° 9' 40.159 W