

**NM OIL CONSERVATION
ARTESIA DISTRICT**

OCT 31 2018

RECEIVED

PERMIAN

NW DISTRICT - NM EZ NAD 83

PALMILLO 14-15 STATE PAD (205, 307)

PALMILLO 14-15 STATE COM 307H

PALMILLO 14-15 STATE COM 307H

30-015-45381

Plan: design 1 w/ targets

Standard Planning Report

12 October, 2018

apachecorp
Planning Report

Database:	PEDM	Local Co-ordinate Reference:	Well PALMILLO 14-15 STATE COM 307H
Company:	PERMIAN	TVD Reference:	WELL @ 3472.0ft (Original Well Elev)
Project:	NW DISTRICT - NM EZ NAD 83	MD Reference:	WELL @ 3472.0ft (Original Well Elev)
Site:	PALMILLO 14-15 STATE PAD (205, 307)	North Reference:	Grid
Well:	PALMILLO 14-15 STATE COM 307H	Survey Calculation Method:	Minimum Curvature
Wellbore:	PALMILLO 14-15 STATE COM 307H		
Design:	design 1 w/ targets		

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 14-15 STATE PAD (205, 307)				
Site Position:		Northing:	602,203.70 ft	Latitude:	32° 39' 19.349 N
From:	Map	Easting:	596,310.20 ft	Longitude:	104° 9' 16.981 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.10 °

Well	PALMILLO 14-15 STATE COM 307H					
Well Position	+N/-S	-32.4 ft	Northing:	602,171.30 ft	Latitude:	32° 39' 19.028 N
	+E/-W	23.6 ft	Easting:	596,333.80 ft	Longitude:	104° 9' 16.706 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	3,446.0 ft

Wellbore	PALMILLO 14-15 STATE COM 307H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/11/2018	7.30	60.45	48,029

Design	design 1 w/ targets			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	8,450.0	0.0	0.0	266.32

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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,345.6	3.46	170.77	2,345.4	-10.3	1.7	1.00	1.00	0.00	170.77	
4,686.6	3.46	170.77	4,682.1	-149.6	24.3	0.00	0.00	0.00	0.00	
5,032.2	0.00	0.00	5,027.5	-159.9	26.0	1.00	-1.00	0.00	180.00	
8,032.2	0.00	0.00	8,027.5	-159.9	26.0	0.00	0.00	0.00	0.00	kop PALMILLO 14-15
8,782.0	89.98	258.72	8,505.0	-253.2	-442.1	12.00	12.00	0.00	258.72	
8,822.7	89.93	259.59	8,505.0	-260.9	-482.1	2.13	-0.13	2.13	93.38	
8,825.0	89.93	259.59	8,505.0	-261.3	-484.3	0.00	0.00	0.00	0.00	t1 PALMILLO 14-15 S
9,317.7	90.33	269.43	8,503.9	-308.4	-974.2	2.00	0.08	2.00	87.68	
9,827.0	90.33	269.43	8,501.0	-313.4	-1,483.4	0.00	0.00	0.00	0.00	t2 PALMILLO 14-15 S
9,837.4	90.53	269.44	8,500.9	-313.5	-1,493.8	2.00	2.00	0.04	1.06	
11,328.8	90.53	269.44	8,487.0	-328.1	-2,985.1	0.00	0.00	0.00	0.00	t3 PALMILLO 14-15 S
11,338.4	90.34	269.44	8,486.9	-328.2	-2,994.7	2.00	-2.00	0.02	179.50	
12,831.1	90.34	269.44	8,478.0	-342.8	-4,487.2	0.00	0.00	0.00	0.00	t4 PALMILLO 14-15 S
12,895.6	91.63	269.40	8,476.9	-343.5	-4,551.8	2.00	2.00	-0.07	-1.96	
13,839.4	91.63	269.40	8,450.0	-353.4	-5,495.1	0.00	0.00	0.00	0.00	bhi PALMILLO 14-15

apachecorp
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Project: NW DISTRICT - NM EZ NAD 83
Site: PALMILLO 14-15 STATE PAD (205, 307)
Well: PALMILLO 14-15 STATE COM 307H
Wellbore: PALMILLO 14-15 STATE COM 307H
Design: design 1 w/ targets

Local Co-ordinate Reference: Well PALMILLO 14-15 STATE COM 307H
TVD Reference: WELL @ 3472.0ft (Original Well Elev)
MD Reference: WELL @ 3472.0ft (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)	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	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	1.00	170.77	2,100.0	-0.9	0.1	-0.1	1.00	1.00	0.00
2,200.0	2.00	170.77	2,200.0	-3.4	0.6	-0.3	1.00	1.00	0.00
2,300.0	3.00	170.77	2,299.9	-7.8	1.3	-0.8	1.00	1.00	0.00
2,345.6	3.46	170.77	2,345.4	-10.3	1.7	-1.0	1.00	1.00	0.00
2,400.0	3.46	170.77	2,399.7	-13.5	2.2	-1.3	0.00	0.00	0.00
2,500.0	3.46	170.77	2,499.5	-19.5	3.2	-1.9	0.00	0.00	0.00
2,600.0	3.46	170.77	2,599.3	-25.4	4.1	-2.5	0.00	0.00	0.00
2,700.0	3.46	170.77	2,699.1	-31.4	5.1	-3.1	0.00	0.00	0.00
2,800.0	3.46	170.77	2,799.0	-37.3	6.1	-3.7	0.00	0.00	0.00
2,900.0	3.46	170.77	2,898.8	-43.3	7.0	-4.2	0.00	0.00	0.00
3,000.0	3.46	170.77	2,998.6	-49.2	8.0	-4.8	0.00	0.00	0.00
3,100.0	3.46	170.77	3,098.4	-55.2	9.0	-5.4	0.00	0.00	0.00
3,200.0	3.46	170.77	3,198.2	-61.1	9.9	-6.0	0.00	0.00	0.00
3,300.0	3.46	170.77	3,298.1	-67.1	10.9	-6.6	0.00	0.00	0.00
3,400.0	3.46	170.77	3,397.9	-73.0	11.9	-7.2	0.00	0.00	0.00
3,500.0	3.46	170.77	3,497.7	-79.0	12.8	-7.7	0.00	0.00	0.00
3,600.0	3.46	170.77	3,597.5	-84.9	13.8	-8.3	0.00	0.00	0.00
3,700.0	3.46	170.77	3,697.3	-90.9	14.8	-8.9	0.00	0.00	0.00
3,800.0	3.46	170.77	3,797.1	-96.8	15.7	-9.5	0.00	0.00	0.00
3,900.0	3.46	170.77	3,897.0	-102.8	16.7	-10.1	0.00	0.00	0.00
4,000.0	3.46	170.77	3,996.8	-108.7	17.7	-10.7	0.00	0.00	0.00
4,100.0	3.46	170.77	4,096.6	-114.7	18.6	-11.2	0.00	0.00	0.00
4,200.0	3.46	170.77	4,196.4	-120.6	19.6	-11.8	0.00	0.00	0.00
4,300.0	3.46	170.77	4,296.2	-126.6	20.6	-12.4	0.00	0.00	0.00
4,400.0	3.46	170.77	4,396.1	-132.5	21.5	-13.0	0.00	0.00	0.00
4,500.0	3.46	170.77	4,495.9	-138.5	22.5	-13.6	0.00	0.00	0.00
4,600.0	3.46	170.77	4,595.7	-144.4	23.5	-14.2	0.00	0.00	0.00
4,686.6	3.46	170.77	4,682.1	-149.6	24.3	-14.7	0.00	0.00	0.00
4,700.0	3.32	170.77	4,695.5	-150.4	24.4	-14.7	1.00	-1.00	0.00
4,800.0	2.32	170.77	4,795.4	-155.2	25.2	-15.2	1.00	-1.00	0.00
4,900.0	1.32	170.77	4,895.3	-158.4	25.7	-15.5	1.00	-1.00	0.00
5,000.0	0.32	170.77	4,995.3	-159.8	26.0	-15.7	1.00	-1.00	0.00
5,032.2	0.00	0.00	5,027.5	-159.9	26.0	-15.7	1.00	-1.00	0.00

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5,100.0	0.00	0.00	5,095.3	-159.9	26.0	-15.7	0.00	0.00	0.00
5,200.0	0.00	0.00	5,195.3	-159.9	26.0	-15.7	0.00	0.00	0.00
5,300.0	0.00	0.00	5,295.3	-159.9	26.0	-15.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,395.3	-159.9	26.0	-15.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,495.3	-159.9	26.0	-15.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,595.3	-159.9	26.0	-15.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,695.3	-159.9	26.0	-15.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,795.3	-159.9	26.0	-15.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,895.3	-159.9	26.0	-15.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,995.3	-159.9	26.0	-15.7	0.00	0.00	0.00
6,100.0	0.00	0.00	6,095.3	-159.9	26.0	-15.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,195.3	-159.9	26.0	-15.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,295.3	-159.9	26.0	-15.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,395.3	-159.9	26.0	-15.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,495.3	-159.9	26.0	-15.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,595.3	-159.9	26.0	-15.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,695.3	-159.9	26.0	-15.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,795.3	-159.9	26.0	-15.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,895.3	-159.9	26.0	-15.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,995.3	-159.9	26.0	-15.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,095.3	-159.9	26.0	-15.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,195.3	-159.9	26.0	-15.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,295.3	-159.9	26.0	-15.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,395.3	-159.9	26.0	-15.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,495.3	-159.9	26.0	-15.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,595.3	-159.9	26.0	-15.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,695.3	-159.9	26.0	-15.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,795.3	-159.9	26.0	-15.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,895.3	-159.9	26.0	-15.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,995.3	-159.9	26.0	-15.7	0.00	0.00	0.00
8,032.2	0.00	0.00	8,027.5	-159.9	26.0	-15.7	0.00	0.00	0.00
8,100.0	8.14	258.72	8,095.1	-160.8	21.3	-10.9	12.00	12.00	0.00
8,200.0	20.14	258.72	8,191.9	-165.6	-2.6	13.3	12.00	12.00	0.00
8,300.0	32.14	258.72	8,281.5	-174.2	-45.8	56.9	12.00	12.00	0.00
8,400.0	44.14	258.72	8,360.0	-186.2	-106.2	118.0	12.00	12.00	0.00
8,500.0	56.14	258.72	8,424.0	-201.2	-181.4	193.9	12.00	12.00	0.00
8,600.0	68.14	258.72	8,470.6	-218.5	-267.9	281.4	12.00	12.00	0.00
8,700.0	80.14	258.72	8,497.9	-237.3	-362.1	376.6	12.00	12.00	0.00
8,782.0	89.98	258.72	8,505.0	-253.2	-442.1	457.4	12.00	12.00	0.00
8,800.0	89.96	259.10	8,505.0	-256.7	-459.8	475.3	2.13	-0.13	2.13
8,822.7	89.93	259.59	8,505.0	-260.9	-482.1	497.9	2.13	-0.13	2.13
8,825.0	89.93	259.59	8,505.0	-261.3	-484.3	500.1	0.00	0.00	0.00
8,900.0	89.99	261.09	8,505.1	-273.9	-558.3	574.7	2.00	0.08	2.00
9,000.0	90.07	263.09	8,505.0	-287.7	-657.3	674.4	2.00	0.08	2.00
9,100.0	90.15	265.08	8,504.8	-298.0	-756.8	774.3	2.00	0.08	2.00
9,200.0	90.23	267.08	8,504.5	-304.8	-856.5	874.3	2.00	0.08	2.00
9,300.0	90.31	269.08	8,504.0	-308.1	-956.5	974.3	2.00	0.08	2.00
9,317.7	90.33	269.43	8,503.9	-308.4	-974.2	992.0	2.00	0.08	2.00
9,400.0	90.33	269.43	8,503.4	-309.2	-1,056.5	1,074.1	0.00	0.00	0.00
9,500.0	90.33	269.43	8,502.9	-310.2	-1,156.4	1,174.0	0.00	0.00	0.00
9,600.0	90.33	269.43	8,502.3	-311.2	-1,256.4	1,273.8	0.00	0.00	0.00
9,700.0	90.33	269.43	8,501.7	-312.1	-1,356.4	1,373.7	0.00	0.00	0.00
9,800.0	90.33	269.43	8,501.2	-313.1	-1,456.4	1,473.5	0.00	0.00	0.00
9,827.0	90.33	269.43	8,501.0	-313.4	-1,483.4	1,500.5	0.00	0.00	0.00

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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)
9,837.4	90.53	269.44	8,500.9	-313.5	-1,493.8	1,510.9	2.00	2.00	0.04
9,900.0	90.53	269.44	8,500.3	-314.1	-1,556.4	1,573.4	0.00	0.00	0.00
10,000.0	90.53	269.44	8,499.4	-315.1	-1,656.4	1,673.2	0.00	0.00	0.00
10,100.0	90.53	269.44	8,498.5	-316.1	-1,756.4	1,773.1	0.00	0.00	0.00
10,200.0	90.53	269.44	8,497.5	-317.1	-1,856.4	1,872.9	0.00	0.00	0.00
10,300.0	90.53	269.44	8,496.6	-318.0	-1,956.4	1,972.8	0.00	0.00	0.00
10,400.0	90.53	269.44	8,495.7	-319.0	-2,056.4	2,072.6	0.00	0.00	0.00
10,500.0	90.53	269.44	8,494.7	-320.0	-2,156.4	2,172.5	0.00	0.00	0.00
10,600.0	90.53	269.44	8,493.8	-321.0	-2,256.4	2,272.3	0.00	0.00	0.00
10,700.0	90.53	269.44	8,492.9	-322.0	-2,356.3	2,372.2	0.00	0.00	0.00
10,800.0	90.53	269.44	8,491.9	-322.9	-2,456.3	2,472.0	0.00	0.00	0.00
10,900.0	90.53	269.44	8,491.0	-323.9	-2,556.3	2,571.8	0.00	0.00	0.00
11,000.0	90.53	269.44	8,490.1	-324.9	-2,656.3	2,671.7	0.00	0.00	0.00
11,100.0	90.53	269.44	8,489.1	-325.9	-2,756.3	2,771.5	0.00	0.00	0.00
11,200.0	90.53	269.44	8,488.2	-326.9	-2,856.3	2,871.4	0.00	0.00	0.00
11,300.0	90.53	269.44	8,487.3	-327.8	-2,956.3	2,971.2	0.00	0.00	0.00
11,328.8	90.53	269.44	8,487.0	-328.1	-2,985.1	3,000.0	0.00	0.00	0.00
11,338.4	90.34	269.44	8,486.9	-328.2	-2,994.7	3,009.6	2.00	-2.00	0.02
11,400.0	90.34	269.44	8,486.6	-328.8	-3,056.3	3,071.1	0.00	0.00	0.00
11,500.0	90.34	269.44	8,486.0	-329.8	-3,156.3	3,170.9	0.00	0.00	0.00
11,600.0	90.34	269.44	8,485.4	-330.8	-3,256.3	3,270.8	0.00	0.00	0.00
11,700.0	90.34	269.44	8,484.8	-331.7	-3,356.3	3,370.6	0.00	0.00	0.00
11,800.0	90.34	269.44	8,484.2	-332.7	-3,456.3	3,470.5	0.00	0.00	0.00
11,900.0	90.34	269.44	8,483.6	-333.7	-3,556.3	3,570.3	0.00	0.00	0.00
12,000.0	90.34	269.44	8,483.0	-334.7	-3,656.2	3,670.2	0.00	0.00	0.00
12,100.0	90.34	269.44	8,482.4	-335.7	-3,756.2	3,770.0	0.00	0.00	0.00
12,200.0	90.34	269.44	8,481.8	-336.6	-3,856.2	3,869.9	0.00	0.00	0.00
12,300.0	90.34	269.44	8,481.2	-337.6	-3,956.2	3,969.7	0.00	0.00	0.00
12,400.0	90.34	269.44	8,480.6	-338.6	-4,056.2	4,069.6	0.00	0.00	0.00
12,500.0	90.34	269.44	8,480.0	-339.6	-4,156.2	4,169.4	0.00	0.00	0.00
12,600.0	90.34	269.44	8,479.4	-340.5	-4,256.2	4,269.3	0.00	0.00	0.00
12,700.0	90.34	269.44	8,478.8	-341.5	-4,356.2	4,369.1	0.00	0.00	0.00
12,800.0	90.34	269.44	8,478.2	-342.5	-4,456.2	4,469.0	0.00	0.00	0.00
12,831.1	90.34	269.44	8,478.0	-342.8	-4,487.2	4,500.0	0.00	0.00	0.00
12,895.6	91.63	269.40	8,476.9	-343.5	-4,551.8	4,564.4	2.00	2.00	-0.07
12,900.0	91.63	269.40	8,476.8	-343.5	-4,556.2	4,568.8	0.00	0.00	0.00
13,000.0	91.63	269.40	8,473.9	-344.6	-4,656.1	4,668.6	0.00	0.00	0.00
13,100.0	91.63	269.40	8,471.1	-345.6	-4,756.1	4,768.5	0.00	0.00	0.00
13,200.0	91.63	269.40	8,468.2	-346.7	-4,856.0	4,868.3	0.00	0.00	0.00
13,300.0	91.63	269.40	8,465.4	-347.7	-4,956.0	4,968.1	0.00	0.00	0.00
13,400.0	91.63	269.40	8,462.5	-348.8	-5,055.9	5,067.9	0.00	0.00	0.00
13,500.0	91.63	269.40	8,459.7	-349.8	-5,155.9	5,167.7	0.00	0.00	0.00
13,600.0	91.63	269.40	8,456.8	-350.9	-5,255.9	5,267.5	0.00	0.00	0.00
13,700.0	91.63	269.40	8,454.0	-351.9	-5,355.8	5,367.4	0.00	0.00	0.00
13,800.0	91.63	269.40	8,451.1	-353.0	-5,455.8	5,467.2	0.00	0.00	0.00
13,839.4	91.63	269.40	8,450.0	-353.4	-5,495.1	5,506.5	0.00	0.00	0.00

apachecorp
Planning Report

Database: PEDM
Company: PERMIAN
Project: NW DISTRICT - NM EZ NAD 83
Site: PALMILLO 14-15 STATE PAD (205, 307)
Well: PALMILLO 14-15 STATE COM 307H
Wellbore: PALMILLO 14-15 STATE COM 307H
Design: design 1 w/ targets

Local Co-ordinate Reference: Well PALMILLO 14-15 STATE COM 307H
TVD Reference: WELL @ 3472.0ft (Original Well Elev)
MD Reference: WELL @ 3472.0ft (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
kop PALMILLO 14-15 ST - plan misses target center by 140.0ft at 8034.1ft MD (8029.4 TVD, -159.9 N, 26.0 E) - Point	0.00	0.00	8,027.5	-299.9	26.0	601,871.43	596,359.78	32° 39' 16.060 N	104° 9' 16.408 W
bhl PALMILLO 14-15 ST - plan hits target center - Point	0.00	0.00	8,450.0	-353.4	-5,495.1	601,817.90	590,838.70	32° 39' 15.618 N	104° 10' 20.990 W
t4 PALMILLO 14-15 STA - plan hits target center - Point	0.00	0.00	8,478.0	-342.8	-4,487.2	601,828.50	591,846.55	32° 39' 15.707 N	104° 10' 9.200 W
t3 PALMILLO 14-15 STA - plan hits target center - Point	0.00	0.00	8,487.0	-328.1	-2,985.1	601,843.18	593,348.70	32° 39' 15.829 N	104° 9' 51.629 W
t2 PALMILLO 14-15 STA - plan hits target center - Point	0.00	0.00	8,501.0	-313.4	-1,483.4	601,857.90	594,850.40	32° 39' 15.951 N	104° 9' 34.063 W
ftp PALMILLO 14-15 ST/ - plan misses target center by 48.5ft at 8800.7ft MD (8505.0 TVD, -256.8 N, -460.5 E) - Point	0.00	0.00	8,505.0	-304.5	-451.5	601,866.80	595,882.30	32° 39' 16.022 N	104° 9' 21.993 W
t1 PALMILLO 14-15 STA - plan hits target center - Point	0.00	0.00	8,505.0	-261.3	-484.3	601,910.00	595,849.50	32° 39' 16.450 N	104° 9' 22.376 W