



NM OIL CONSERVATION
ARTESIA DISTRICT

APR 25 2018

RECEIVED

5D Plan Report

Apache Corporation

Field Name: *Apache NM (Nad 83 NMEZ)*
Site Name: *Palmillo 26 State COM 313H*
Well Name: *Palmillo 26 State COM 313H ST01 - 30-015-44905*
Plan: *P1:V1*

7 April 2018





Palmillo 26 State COM 313H ST01

Field Name: Apache NM (Nad 83 NMEZ)	Map Units: US ft		Company Name: Apache Corporation	
	Vertical Reference Datum (VRD): Mean Sea Level			
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)			
	Comment:			
Site: Palmillo 26 State COM 313H	Units: US ft	North Reference: Grid	Convergence Angle: 0.10	
	Position:	Northing: 592687.30 US ft	Latitude: 32.629197904	
		Easting: 600917.40 US ft	Longitude: -104.139799581	
	Elevation above MSL:3339.00 US ft			
Comment: Eddy Co. New Mexico				
Slot: Palmillo 26 State COM 313H	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 592687.30 US ft	Latitude: 32.629197904	
	+E/-W: 0.00 US ft	Easting: 600917.40 US ft	Longitude: -104.139799581	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 3339.00 US ft			
	Comment:			
Well: Palmillo 26 State COM 313H ST01	Type:Sidetrack	UWI:	Plan:P1:V1	
	Parent: Palmillo 26 State COM 313H (Pilot)	Tie Point Method: TVD	Tie Point: 8100.00 US ft	
	File Number:	Comment:		
	Closure Distance:4907.12US ft	Closure Azimuth:275.64°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00 US ft	+E/-W: 0.00 US ft	Az: 270.00°	
	Magnetic Parameters:			
	Model: bggm2017	Field Strength: 48099.0nT	Declination: 7.20°	Dip: 60.31°
				Date: 01/Aug/2018

Drill floor: Plan: P1:V1

Rig Height (Drill Floor): 26.00 US ft	Elevation above MSL: 3365.00 US ft	Inclination: 0.00°	Azimuth: 0.00°
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Target set: P26 St Com 313H Comment:

Target Name:	Shape:	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Northing (US ft)	Easting (US ft)	C. Pt. Distance (US ft)	Comment
LPr0	Point	8589.19	172.72	-444.39	592860.02	600473.01	0.00	
T1	Point	8594.00	481.91	-2385.96	593169.21	598531.44	0.00	
T2	Point	8605.00	481.91	-3761.76	593169.21	597155.64	0.00	
PBHL	Point	8600.00	481.90	-4833.40	593169.20	596084.00	0.00	

5D Plan Report

Casing Points: (Relative to Slot centre)(TVD relative to Drill Floor)								
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Name
N/A	N/A	N/A	400.00	N/A	N/A	N/A	N/A	13 3/8 in

Wellpath created using minimum curvature.

Tie Point:						
MD: 8100.00USFt	Inclination: 0.00°	Azimuth: 0.00°	TVD: 8100.00USFt	North Offset: 0.00USFt	East Offset: 0.00USFt	

Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
8100.00	0.00	0.00	8100.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	Top of WS
8115.00	2.00	291.24	8115.00	0.24	0.09	-0.24	592687.39	600917.16	13.33	15 Ft / 3° WS
8128.40	2.00	291.24	8128.39	0.68	0.26	-0.68	592687.56	600916.72	0.00	KOP Build 12°DLS
8860.60	89.86	291.24	8589.19	444.39	172.72	-444.39	592860.02	600473.01	12.00	LP
9176.97	89.86	291.24	8589.94	739.26	287.32	-739.26	592974.62	600178.14	0.00	Turn 2°DLS
10238.93	89.86	270.00	8592.50	1777.06	481.91	-1777.06	593169.21	599140.34	2.00	Hold
10831.26	89.86	270.00	8593.91	2369.40	481.91	-2369.40	593169.21	598548.00	0.00	Drop
10847.83	89.53	270.00	8594.00	2385.96	481.91	-2385.96	593169.21	598531.44	2.00	T1 - Hold
12186.91	89.53	270.00	8604.94	3725.00	481.91	-3725.00	593169.21	597192.40	0.00	Build
12223.67	90.27	270.00	8605.00	3761.76	481.91	-3761.76	593169.21	597155.64	2.00	T2
13295.32	90.27	270.00	8600.00	4833.40	481.90	-4833.40	593169.20	596084.00	0.00	313H PBHL
13345.32	90.27	270.00	8599.77	4883.40	481.90	-4883.40	593169.20	596034.00	0.00	50' for Orio Valve

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
0.00	0.00	0.00	0.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
100.00	0.00	0.00	100.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
200.00	0.00	0.00	200.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
300.00	0.00	0.00	300.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
400.00	0.00	0.00	400.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	13 3/8 in
500.00	0.00	0.00	500.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
600.00	0.00	0.00	600.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
700.00	0.00	0.00	700.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
800.00	0.00	0.00	800.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
900.00	0.00	0.00	900.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
1000.00	0.00	0.00	1000.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
1100.00	0.00	0.00	1100.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
1200.00	0.00	0.00	1200.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
1300.00	0.00	0.00	1300.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
1400.00	0.00	0.00	1400.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
1500.00	0.00	0.00	1500.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
1600.00	0.00	0.00	1600.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
1700.00	0.00	0.00	1700.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
1800.00	0.00	0.00	1800.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
1900.00	0.00	0.00	1900.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
2000.00	0.00	0.00	2000.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
2100.00	0.00	0.00	2100.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
2200.00	0.00	0.00	2200.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
2300.00	0.00	0.00	2300.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
2400.00	0.00	0.00	2400.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
2500.00	0.00	0.00	2500.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
2600.00	0.00	0.00	2600.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
2700.00	0.00	0.00	2700.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
2800.00	0.00	0.00	2800.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
2900.00	0.00	0.00	2900.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	
3000.00	0.00	0.00	3000.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	Delaware Sands :
3100.00	0.00	0.00	3100.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
3106.20	0.00	0.00	3106.20	-0.00	0.00	0.00	592687.30	600917.40	0.00	
3200.00	0.00	0.00	3200.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
3300.00	0.00	0.00	3300.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
3400.00	0.00	0.00	3400.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
3500.00	0.00	0.00	3500.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
3600.00	0.00	0.00	3600.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
3700.00	0.00	0.00	3700.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
3800.00	0.00	0.00	3800.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
3900.00	0.00	0.00	3900.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	1BSC :
4000.00	0.00	0.00	4000.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
4100.00	0.00	0.00	4100.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
4200.00	0.00	0.00	4200.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
4300.00	0.00	0.00	4300.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
4314.00	0.00	0.00	4314.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
4400.00	0.00	0.00	4400.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
4500.00	0.00	0.00	4500.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
4600.00	0.00	0.00	4600.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
4700.00	0.00	0.00	4700.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
4800.00	0.00	0.00	4800.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	1 BSS :
4900.00	0.00	0.00	4900.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
5000.00	0.00	0.00	5000.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
5100.00	0.00	0.00	5100.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
5200.00	0.00	0.00	5200.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
5300.00	0.00	0.00	5300.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
5400.00	0.00	0.00	5400.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
5500.00	0.00	0.00	5500.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
5600.00	0.00	0.00	5600.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
5700.00	0.00	0.00	5700.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
5800.00	0.00	0.00	5800.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	2 BSC :
5900.00	0.00	0.00	5900.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
6000.00	0.00	0.00	6000.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
6100.00	0.00	0.00	6100.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
6200.00	0.00	0.00	6200.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
6300.00	0.00	0.00	6300.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
6400.00	0.00	0.00	6400.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
6500.00	0.00	0.00	6500.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
6600.00	0.00	0.00	6600.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
6614.00	0.00	0.00	6614.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
6700.00	0.00	0.00	6700.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	2 BSS :
6800.00	0.00	0.00	6800.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
6805.00	0.00	0.00	6805.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
6900.00	0.00	0.00	6900.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
7000.00	0.00	0.00	7000.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
7100.00	0.00	0.00	7100.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
7200.00	0.00	0.00	7200.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
7300.00	0.00	0.00	7300.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
7400.00	0.00	0.00	7400.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
7460.00	0.00	0.00	7460.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
7500.00	0.00	0.00	7500.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	3 BSC :
7600.00	0.00	0.00	7600.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
7700.00	0.00	0.00	7700.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
7750.00	0.00	0.00	7750.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
7800.00	0.00	0.00	7800.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
7900.00	0.00	0.00	7900.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
8000.00	0.00	0.00	8000.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
8100.00	0.00	0.00	8100.00	-0.00	0.00	0.00	592687.30	600917.40	0.00	
										Top of WS

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
8115.00	2.00	291.24	8115.00	0.24	0.09	-0.24	592687.39	600917.16	13.33	15 Ft / 3° WS
8128.40	2.00	291.24	8128.39	0.68	0.26	-0.68	592687.56	600916.72	0.00	KOP Build 12°DLS
8200.00	10.59	291.24	8199.49	7.99	3.11	-7.99	592690.41	600909.41	12.00	
8300.00	22.59	291.24	8295.15	34.56	13.43	-34.56	592700.73	600882.84	12.00	
8400.00	34.59	291.24	8382.80	79.08	30.74	-79.08	592718.04	600838.32	12.00	
8500.00	46.59	291.24	8458.59	139.62	54.26	-139.62	592741.56	600777.78	12.00	
8600.00	58.59	291.24	8519.23	213.52	82.99	-213.52	592770.29	600703.88	12.00	
8700.00	70.59	291.24	8562.06	297.56	115.65	-297.56	592802.95	600619.84	12.00	
8725.88	73.70	291.24	8570.00	320.52	124.57	-320.52	592811.87	600596.88	12.00	3 BSS :
8740.95	75.51	291.24	8574.00	334.05	129.83	-334.05	592817.13	600583.35	12.00	Landing Top :
8800.00	82.59	291.24	8585.21	388.06	150.82	-388.06	592838.12	600529.34	12.00	
8848.00	88.35	291.24	8589.00	432.64	168.15	-432.64	592855.45	600484.76	12.00	Target :
8860.60	89.86	291.24	8589.19	444.39	172.72	-444.39	592860.02	600473.01	12.00	LP
8900.00	89.86	291.24	8589.29	481.11	186.99	-481.11	592874.29	600436.29	0.00	
9000.00	89.86	291.24	8589.52	574.31	223.21	-574.31	592910.51	600343.09	0.00	
9100.00	89.86	291.24	8589.76	667.52	259.44	-667.52	592946.74	600249.88	0.00	
9176.97	89.86	291.24	8589.94	739.26	287.32	-739.26	592974.62	600178.14	0.00	Turn 2°DLS
9200.00	89.86	290.78	8590.00	760.76	295.58	-760.76	592982.88	600156.64	2.00	
9300.00	89.86	288.78	8590.24	854.86	329.42	-854.86	593016.72	600062.54	2.00	
9400.00	89.86	286.78	8590.48	950.08	359.95	-950.08	593047.25	599967.32	2.00	
9500.00	89.86	284.78	8590.72	1046.30	387.14	-1046.30	593074.44	599871.10	2.00	
9600.00	89.86	282.78	8590.96	1143.42	410.96	-1143.42	593098.26	599773.98	2.00	
9700.00	89.86	280.78	8591.20	1241.31	431.37	-1241.31	593118.67	599676.09	2.00	
9800.00	89.86	278.78	8591.44	1339.85	448.35	-1339.85	593135.65	599577.55	2.00	
9900.00	89.86	276.78	8591.69	1438.93	461.88	-1438.93	593149.18	599478.47	2.00	
10000.00	89.86	274.78	8591.93	1538.41	471.95	-1538.41	593159.25	599378.99	2.00	
10100.00	89.86	272.78	8592.17	1638.19	478.54	-1638.19	593165.84	599279.21	2.00	
10200.00	89.86	270.78	8592.41	1738.14	481.65	-1738.14	593168.95	599179.26	2.00	
10238.93	89.86	270.00	8592.50	1777.06	481.91	-1777.06	593169.21	599140.34	2.00	Hold
10300.00	89.86	270.00	8592.65	1838.13	481.91	-1838.13	593169.21	599079.27	0.00	
10400.00	89.86	270.00	8592.88	1938.13	481.91	-1938.13	593169.21	598979.27	0.00	
10500.00	89.86	270.00	8593.12	2038.13	481.91	-2038.13	593169.21	598879.27	0.00	
10600.00	89.86	270.00	8593.36	2138.13	481.91	-2138.13	593169.21	598779.27	0.00	
10700.00	89.86	270.00	8593.60	2238.13	481.91	-2238.13	593169.21	598679.27	0.00	
10800.00	89.86	270.00	8593.84	2338.13	481.91	-2338.13	593169.21	598579.27	0.00	
10831.26	89.86	270.00	8593.91	2369.40	481.91	-2369.40	593169.21	598548.00	0.00	Drop
10847.83	89.53	270.00	8594.00	2385.96	481.91	-2385.96	593169.21	598531.44	2.00	T1 - Hold
10900.00	89.53	270.00	8594.43	2438.13	481.91	-2438.13	593169.21	598479.27	0.00	
11000.00	89.53	270.00	8595.24	2538.13	481.91	-2538.13	593169.21	598379.27	0.00	
11100.00	89.53	270.00	8596.06	2638.12	481.91	-2638.12	593169.21	598279.28	0.00	
11200.00	89.53	270.00	8596.88	2738.12	481.91	-2738.12	593169.21	598179.28	0.00	
11300.00	89.53	270.00	8597.69	2838.12	481.91	-2838.12	593169.21	598079.28	0.00	
11400.00	89.53	270.00	8598.51	2938.11	481.91	-2938.11	593169.21	597979.29	0.00	
11500.00	89.53	270.00	8599.33	3038.11	481.91	-3038.11	593169.21	597879.29	0.00	
11600.00	89.53	270.00	8600.14	3138.11	481.91	-3138.11	593169.21	597779.29	0.00	
11700.00	89.53	270.00	8600.96	3238.10	481.91	-3238.10	593169.21	597679.30	0.00	
11800.00	89.53	270.00	8601.78	3338.10	481.91	-3338.10	593169.21	597579.30	0.00	
11900.00	89.53	270.00	8602.59	3438.10	481.91	-3438.10	593169.21	597479.30	0.00	
12000.00	89.53	270.00	8603.41	3538.09	481.91	-3538.09	593169.21	597379.31	0.00	
12071.94	89.53	270.00	8604.00	3610.03	481.91	-3610.03	593169.21	597307.37	0.00	Landing Base :
12100.00	89.53	270.00	8604.23	3638.09	481.91	-3638.09	593169.21	597279.31	0.00	
12186.91	89.53	270.00	8604.94	3725.00	481.91	-3725.00	593169.21	597192.40	0.00	Build
12200.00	89.79	270.00	8605.01	3738.09	481.91	-3738.09	593169.21	597179.31	2.00	
12223.67	90.27	270.00	8605.00	3761.76	481.91	-3761.76	593169.21	597155.64	2.00	T2
12300.00	90.27	270.00	8604.64	3838.09	481.91	-3838.09	593169.21	597079.31	0.00	
12400.00	90.27	270.00	8604.18	3938.09	481.91	-3938.09	593169.21	596979.31	0.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
12500.00	90.27	270.00	8603.71	4038.08	481.91	-4038.08	593169.21	596879.32	0.00	
12600.00	90.27	270.00	8603.24	4138.08	481.91	-4138.08	593169.21	596779.32	0.00	
12700.00	90.27	270.00	8602.78	4238.08	481.91	-4238.08	593169.21	596679.32	0.00	
12800.00	90.27	270.00	8602.31	4338.08	481.90	-4338.08	593169.20	596579.32	0.00	
12900.00	90.27	270.00	8601.84	4438.08	481.90	-4438.08	593169.20	596479.32	0.00	
13000.00	90.27	270.00	8601.38	4538.08	481.90	-4538.08	593169.20	596379.32	0.00	
13100.00	90.27	270.00	8600.91	4638.08	481.90	-4638.08	593169.20	596279.32	0.00	
13200.00	90.27	270.00	8600.44	4738.08	481.90	-4738.08	593169.20	596179.32	0.00	
13295.32	90.27	270.00	8600.00	4833.40	481.90	-4833.40	593169.20	596084.00	0.00	313H PBHL
13300.00	90.27	270.00	8599.98	4838.08	481.90	-4838.08	593169.20	596079.32	0.00	
13345.32	90.27	270.00	8599.77	4883.40	481.90	-4883.40	593169.20	596034.00	0.00	50' for Orio Valve

Formation Points: (Relative to Slot centre)(TVD relative to Drill Floor)									
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	
Delaware Sands	N/A	N/A	N/A	3106.20	N/A	N/A	N/A	N/A	
1BSC	N/A	N/A	N/A	4314.00	N/A	N/A	N/A	N/A	
1 BSS	N/A	N/A	N/A	6614.00	N/A	N/A	N/A	N/A	
2 BSC	N/A	N/A	N/A	6805.00	N/A	N/A	N/A	N/A	
2 BSS	N/A	N/A	N/A	7460.00	N/A	N/A	N/A	N/A	
3 BSC	N/A	N/A	N/A	7750.00	N/A	N/A	N/A	N/A	
3 BSS	N/A	N/A	N/A	8570.00	N/A	N/A	N/A	N/A	
Landing Top	N/A	N/A	N/A	8574.00	N/A	N/A	N/A	N/A	
Target	N/A	N/A	N/A	8589.00	N/A	N/A	N/A	N/A	
Landing Base	N/A	N/A	N/A	8604.00	N/A	N/A	N/A	N/A	
Wolfcamp	N/A	N/A	N/A	8960.00	N/A	N/A	N/A	N/A	
Canyon	N/A	N/A	N/A	9530.00	N/A	N/A	N/A	N/A	
Strawn	N/A	N/A	N/A	10170.00	N/A	N/A	N/A	N/A	

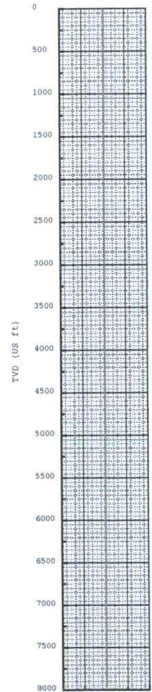
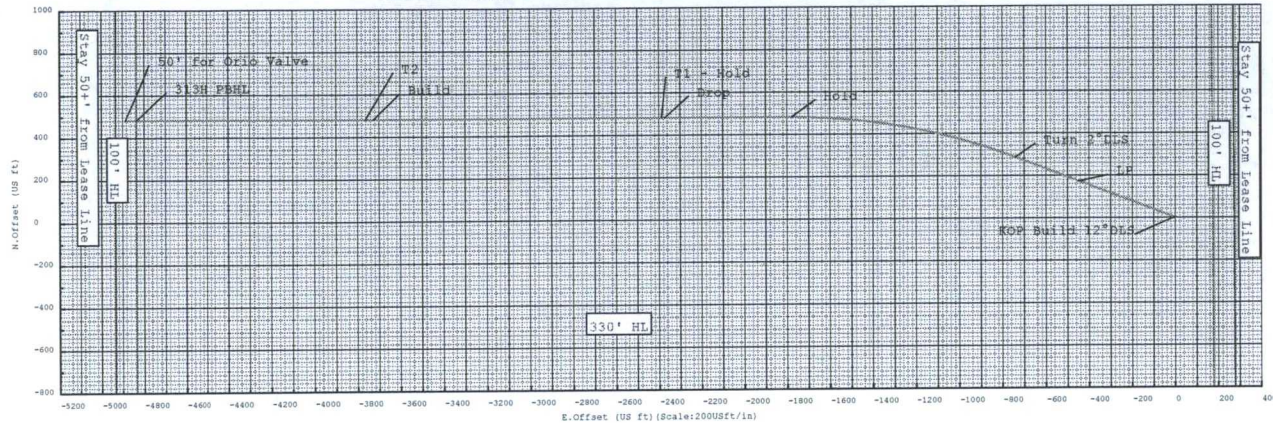


Apache Corporation
Palmillo 26 State COM 313H ST01
Eddy Co., New Mexico
Plan P1:V1

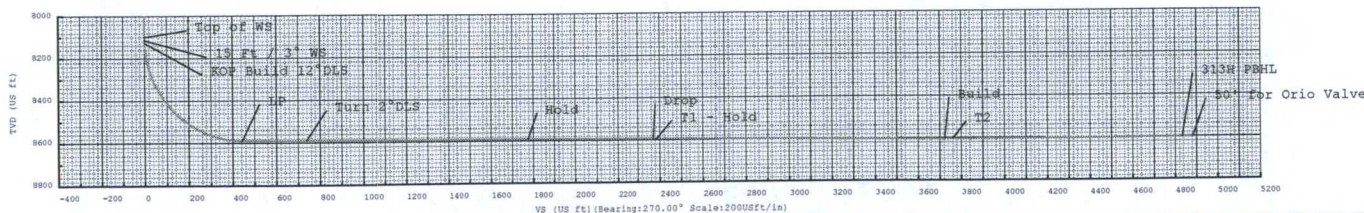


True Grid Mag
Grid Convergence: 0.10°
Mag Declination: 7.20°
Bearing:
True = Mag + 7.20°
Grid = True - 0.10°
Total Correction TBD°

KB: 3365.00
GL: 3339.00



VS (US ft) (Bearing: 270.00° Scale: 500USft/in)



Plan Data for Palmillo 26 State COM 313H ST01

Field: Apache NM (Nad 83 NMEZ)
Map Unit: USFt Vertical Reference Datum (VRD): Mean Sea Level
Projected Coordinate System: NAD83 / New Mexico East (ftUS)

Site: Palmillo 26 State COM 313H
Unit: USFt
Company Name: Apache Corporation
Position: Northing: 592687.30USFt Latitude: 32.629198°
Easting: 600917.40USFt Longitude: -104.139800°
North Reference: Grid Grid Convergence: 0.10°
Elevation Above VRD: 3339.00USFt
Comment: Eddy Co. New Mexico

Slot: Palmillo 26 State COM 313H
Position:
Offset is from Site centre
+N/-S: 0.00USFt Northing: 592687.30USFt Latitude: 32.629198°
+E/-W: 0.00USFt Easting: 600917.40USFt Longitude: -104.139800°
Elevation Above VRD: 3339.00USFt

Well: Palmillo 26 State COM 313H ST01
Type: Side-Track
File Number:
Plan Folder: P1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USFt +E/-W: 0.00USFt Azimuth: 270.00°
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bgm2017 48099(NT) 7.20° 60.31° 2018-08-01

Plan Data for Palmillo 26 State COM 313H ST01

Target Set Information:
Name: P26 St Com 313H
Position offsets from Slot centre

Name	TVD	Elevation	+N/-S	+E/-W	Northing	Easting
(USFt)	(USFt)	(USFt)	(USFt)	(USFt)	(USFt)	(USFt)
LP#0	8589.19	-5224.19	172.72	-444.39	592860.02	600473.01
T1	8594.00	-5229.00	481.91	-2385.96	593169.21	598531.44
T2	8605.00	-5240.00	481.91	-3761.76	593169.21	597155.64
PBHL	8600.00	-5235.00	481.90	-4833.40	593169.20	596084.00

Plan Data for Palmillo 26 State COM 313H ST01

Formation Point Information:

Name	TVD	Elevation	MD
(USFt)	(USFt)	(USFt)	(USFt)
Delaware Sands	N/A	N/A	N/A
18SC	4314.00	0.00	-1.00
1 BSS	6614.00	0.00	-1.00
2 BSC	6805.00	0.00	-1.00
2 BSS	7460.00	0.00	-1.00
3 BSC	7750.00	0.00	-1.00
3 BSS	8570.00	0.00	-1.00
Landing Top	8574.00	0.00	-1.00
Target	8589.00	0.00	-1.00
Landing Base	8604.00	0.00	-1.00
Wolfcamp	8960.00	0.00	-1.00
Canyon	9530.00	0.00	-1.00
Strawn	10170.00	0.00	-1.00

Plan Data for Palmillo 26 State COM 313H ST01

Plan Point Information:

MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS	Comments
(USFt)	(°)	(°)	(USFt)	(USFt)	(USFt)	(USFt)	(USFt)	(USFt)	(DLSU)	
0.00	0.00	0.00	0.00	0.00	0.00	592687.30	600917.40	0.00	0.00	
8100.00	0.00	0.00	8100.00	0.00	0.00	592687.30	600917.40	0.00	0.00	Top of WS
8115.00	2.00	291.24	8115.00	0.09	-0.24	592687.39	600917.16	0.24	13.33	15 Ft / 3° WS
8128.40	2.00	291.24	8128.39	0.26	-0.68	592687.56	600916.72	0.68	0.00	KOP Build 12° DLS
8860.60	89.86	291.24	8589.19	172.72	-444.39	592860.02	600473.01	444.39	12.00	LP
9176.97	89.86	291.24	8589.94	287.32	-739.26	592974.62	600178.14	739.26	0.00	Turn 2° DLS
10238.93	89.86	270.00	8592.50	481.91	-1777.06	593169.21	599140.34	1777.06	2.00	Hold
10831.26	89.86	270.00	8593.91	481.91	-2369.40	593169.21	598548.00	2369.40	0.00	Drop
10847.83	89.53	270.00	8594.00	481.91	-2385.96	593169.21	598531.44	2385.96	2.00	T1 - Hold
12186.91	89.53	270.00	8604.94	481.91	-3725.00	593169.21	597192.40	3725.00	0.00	Build
12223.67	90.27	270.00	8605.00	481.91	-3761.76	593169.21	597155.64	3761.76	2.00	T2
13295.32	90.27	270.00	8600.00	481.90	-4833.40	593169.20	596084.00	4833.40	0.00	313H PBHL
13345.32	90.27	270.00	8599.77	481.90	-4883.40	593169.20	596034.00	4883.40	0.00	50' for Oris Valve

Plan Data for Palmillo 26 State COM 313H ST01

Casing Point Information:

Name	MD	TVD	+N/-S	+E/-W	Northing	Easting
(USFt)	(USFt)	(USFt)	(USFt)	(USFt)	(USFt)	(USFt)
13 3/8 in	-3.28	400.00	-1.00	-1.00	-1.00	-1.00

Drawing By: Ty Hardin Date: 5 April 2018
Office Name: Drilling Services - Houston
Address: 12101 Cutten Road
Houston, TX 77066
Phone: Office: +1.832.955.0032 | Cell: +1.713.882.8256