

5D Plan Report

Apache

NM OIL CONSERVATION
ARTESIA DISTRICT5D Plan Report

JUN 14 2018

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Apache Corporation**Field Name:** *Apache NM (Nad 83 NMEZ)***Site Name:** *Palmillo 26 State COM (315H, 316H, 214H)***Well Name:** *Palmillo 26 State COM 214H***Plan:** *P1:V2* *30-015-45041*

13 June 2018

**Weatherford®**



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Palmillo 26 State COM 214H

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 (315H,316H, 214H)	Units: US ft	North Reference: Grid	Convergence Angle: 0.10	
	Position:	Northing: 595474.30 US ft	Latitude: 32.636858387	
		Easting: 600953.20 US ft	Longitude: -104.139666791	
	Elevation above MSL:3360.00 US ft			
Comment: Eddy Co. New Mexico				
Slot: Palmillo 26 State COM 214H	Position (Relative to Site Centre)			
	+N/-S: 80.00 US ft	Northing: 595554.30 US ft	Latitude: 32.637078285	
	+E/-W: -0.20 US ft	Easting: 600953.00 US ft	Longitude: -104.139666967	
	Slot TVD Reference: Ground Elevation			
Elevation above MSL: 3359.00 US ft				
Comment:				
Well: Palmillo 26 State COM 214H	Type:Main well	UWI:	Plan:P1:V2	
	File Number:	Comment: H&P 482		
	Closure Distance:4923.95US ft	Closure Azimuth:272.62°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
+N/-S: 0.00 US ft		+E/-W: -0.00 US ft	Az: 272.62°	
Magnetic Parameters:				
Model: bggm2018		Field Strength: 48075.8nT	Declination: 7.18°	Dip: 60.31°
				Date: 01/Aug/2018

Drill floor: Plan: P1:V2

Rig Height (Drill Floor): 26.00 US ft **Elevation above MSL:** 3385.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00°

Target set: P26 St Com 214H Comment:

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northings (US ft)	Easting (US ft)	C.Pt.Distance (US ft)	Comment
VP	Point	7096.90	225.20	0.00	595779.50	600953.00	0.00	
T0	Point	7575.00	225.20	-464.00	595779.50	600489.00	0.82	
T1	Point	7563.00	225.20	-859.00	595779.50	600094.00	0.00	
T2	Point	7523.00	225.20	-1662.00	595779.50	599291.00	0.00	
T3	Point	7471.00	225.20	-2778.00	595779.50	598175.00	0.00	
T4	Point	7447.00	225.20	-3939.00	595779.50	597014.00	0.00	
PBHL	Point	7421.00	225.20	-4918.80	595779.50	596034.20	0.00	

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)	Northings (US ft)	Easting (US ft)	Name
400.00	0.00	0.00	400.00	0.00	-0.00	595554.30	600953.00	13 3/8 in

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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
3000.00	0.00	0.00	3000.00	0.00	-0.00	595554.30	600953.00	9 5/8 in

Wellpath created using minimum curvature.

Tie Point:					
MD: 0.00USFt	Inclination: 0.00°	Azimuth: 0.00°	TVD: - 0.00USFt	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	595554.30	600953.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	Nudge
3800.05	7.00	0.00	3798.31	1.95	42.71	-0.00	595597.01	600953.00	1.00	Hold
4946.88	7.00	0.00	4936.59	8.34	182.49	-0.00	595736.79	600953.00	0.00	Drop
5646.93	0.00	0.00	5634.90	10.29	225.20	0.00	595779.50	600953.00	1.00	Hold
7108.93	0.00	0.00	7096.90	10.29	225.20	0.00	595779.50	600953.00	0.00	KOP
7873.42	91.74	270.00	7574.14	501.74	225.20	-491.96	595779.50	600461.04	12.00	LP
8240.64	91.74	270.00	7563.00	868.40	225.20	-859.00	595779.50	600094.00	0.00	P26 St Com 214H T1
8298.38	92.89	270.00	7560.67	926.04	225.20	-916.70	595779.50	600036.30	2.00	
9035.97	92.89	270.00	7523.42	1661.91	225.20	-1653.34	595779.50	599299.66	0.00	
9044.64	92.72	270.00	7523.00	1670.56	225.20	-1662.00	595779.50	599291.00	2.00	P26 St Com 214H T2
10084.91	92.72	270.00	7473.62	2708.57	225.20	-2701.10	595779.50	598251.90	0.00	
10161.86	91.18	270.00	7471.00	2785.39	225.20	-2778.00	595779.50	598175.00	2.00	P26 St Com 214H T3
11306.19	91.18	270.00	7447.40	3928.29	225.20	-3922.09	595779.50	597030.91	0.00	
11323.10	91.52	270.00	7447.00	3945.18	225.20	-3939.00	595779.50	597014.00	2.00	P26 St Com 214H T4
12303.25	91.52	270.00	7421.00	4923.95	225.20	-4918.80	595779.50	596034.20	0.00	P26 St Com 214H PBHL

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	595554.30	600953.00	0.00	13 3/8 in
100.00	0.00	0.00	100.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	

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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
2700.00	0.00	0.00	2700.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	9 5/8 In
3099.90	0.00	0.00	3099.90	0.00	0.00	-0.00	595554.30	600953.00	0.00	Delaware
										Sands :
3100.00	0.00	0.00	3100.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	Nudge
3200.00	1.00	0.00	3199.99	0.04	0.87	-0.00	595555.17	600953.00	1.00	
3300.00	2.00	0.00	3299.96	0.16	3.49	-0.00	595557.79	600953.00	1.00	
3400.00	3.00	0.00	3399.86	0.36	7.85	-0.00	595562.15	600953.00	1.00	
3500.00	4.00	0.00	3499.68	0.64	13.96	-0.00	595568.26	600953.00	1.00	
3600.00	5.00	0.00	3599.37	1.00	21.80	-0.00	595576.10	600953.00	1.00	
3700.00	6.00	0.00	3698.90	1.43	31.39	-0.00	595585.69	600953.00	1.00	
3800.00	7.00	0.00	3798.26	1.95	42.71	-0.00	595597.01	600953.00	1.00	
3800.05	7.00	0.00	3798.31	1.95	42.71	-0.00	595597.01	600953.00	0.00	Hold
3900.00	7.00	0.00	3897.51	2.51	54.90	-0.00	595609.20	600953.00	0.00	
3947.84	7.00	0.00	3945.00	2.78	60.73	-0.00	595615.03	600953.00	0.00	1BSC :
4000.00	7.00	0.00	3996.77	3.07	67.08	-0.00	595621.38	600953.00	0.00	
4100.00	7.00	0.00	4096.02	3.62	79.27	-0.00	595633.57	600953.00	0.00	
4200.00	7.00	0.00	4195.28	4.18	91.46	-0.00	595645.76	600953.00	0.00	
4300.00	7.00	0.00	4294.53	4.74	103.65	-0.00	595657.95	600953.00	0.00	
4400.00	7.00	0.00	4393.79	5.29	115.83	-0.00	595670.13	600953.00	0.00	
4500.00	7.00	0.00	4493.04	5.85	128.02	-0.00	595682.32	600953.00	0.00	
4600.00	7.00	0.00	4592.30	6.41	140.21	-0.00	595694.51	600953.00	0.00	
4700.00	7.00	0.00	4691.55	6.97	152.40	-0.00	595706.70	600953.00	0.00	
4800.00	7.00	0.00	4790.81	7.52	164.59	-0.00	595718.89	600953.00	0.00	
4900.00	7.00	0.00	4890.06	8.08	176.77	-0.00	595731.07	600953.00	0.00	
4946.88	7.00	0.00	4936.59	8.34	182.49	-0.00	595736.79	600953.00	0.00	Drop
5000.00	6.47	0.00	4989.34	8.63	188.72	-0.00	595743.02	600953.00	1.00	
5100.00	5.47	0.00	5088.80	9.10	199.12	-0.00	595753.42	600953.00	1.00	
5200.00	4.47	0.00	5188.42	9.50	207.78	-0.00	595762.08	600953.00	1.00	
5300.00	3.47	0.00	5288.18	9.81	214.70	-0.00	595769.00	600953.00	1.00	
5400.00	2.47	0.00	5388.05	10.05	219.88	-0.00	595774.18	600953.00	1.00	
5500.00	1.47	0.00	5487.99	10.21	223.32	-0.00	595777.62	600953.00	1.00	
5600.00	0.47	0.00	5587.97	10.29	225.01	-0.00	595779.31	600953.00	1.00	
5646.93	0.00	0.00	5634.90	10.29	225.20	0.00	595779.50	600953.00	1.00	Hold
5700.00	0.00	0.00	5687.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
5800.00	0.00	0.00	5787.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
5900.00	0.00	0.00	5887.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
6000.00	0.00	0.00	5987.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
6100.00	0.00	0.00	6087.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
6200.00	0.00	0.00	6187.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
6300.00	0.00	0.00	6287.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
6400.00	0.00	0.00	6387.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
6500.00	0.00	0.00	6487.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
6600.00	0.00	0.00	6587.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
6637.03	0.00	0.00	6625.00	10.29	225.20	0.00	595779.50	600953.00	0.00	1 BSS :
6700.00	0.00	0.00	6687.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
6800.00	0.00	0.00	6787.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
6807.03	0.00	0.00	6795.00	10.29	225.20	0.00	595779.50	600953.00	0.00	2 BSC :
6900.00	0.00	0.00	6887.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
7000.00	0.00	0.00	6987.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
7100.00	0.00	0.00	7087.97	10.29	225.20	0.00	595779.50	600953.00	0.00	
7108.93	0.00	0.00	7096.90	10.29	225.20	0.00	595779.50	600953.00	0.00	KOP
7200.00	10.93	270.00	7187.42	18.94	225.20	-8.66	595779.50	600944.34	12.00	
7300.00	22.93	270.00	7282.91	47.98	225.20	-37.72	595779.50	600915.28	12.00	
7400.00	34.93	270.00	7370.27	96.21	225.20	-86.01	595779.50	600866.99	12.00	
7418.21	37.11	270.00	7385.00	106.91	225.20	-96.71	595779.50	600856.29	12.00	2 BSS :
7500.00	46.93	270.00	7445.69	161.53	225.20	-151.40	595779.50	600801.60	12.00	

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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
7600.00	58.93	270.00	7505.86	241.09	225.20	-231.04	595779.50	600721.96	12.00	
7700.00	70.93	270.00	7548.16	331.41	225.20	-321.45	595779.50	600631.55	12.00	
7722.48	73.63	270.00	7555.00	352.80	225.20	-342.86	595779.50	600610.14	12.00	Landing Top
7800.00	82.93	270.00	7570.73	428.54	225.20	-418.68	595779.50	600534.32	12.00	
7873.42	91.74	270.00	7574.14	501.74	225.20	-491.96	595779.50	600461.04	12.00	LP
7900.00	91.74	270.00	7573.34	528.27	225.20	-518.52	595779.50	600434.48	0.00	
8000.00	91.74	270.00	7570.30	628.12	225.20	-618.47	595779.50	600334.53	0.00	
8100.00	91.74	270.00	7567.27	727.97	225.20	-718.43	595779.50	600234.57	0.00	
8200.00	91.74	270.00	7564.23	827.82	225.20	-818.38	595779.50	600134.62	0.00	
8240.64	91.74	270.00	7563.00	868.40	225.20	-859.00	595779.50	600094.00	0.00	P26 St Com 214H T1
8298.38	92.89	270.00	7560.67	926.04	225.20	-916.70	595779.50	600036.30	2.00	
8300.00	92.89	270.00	7560.58	927.65	225.20	-918.31	595779.50	600034.69	0.00	
8400.00	92.89	270.00	7555.54	1027.42	225.20	-1018.19	595779.50	599934.81	0.00	
8500.00	92.89	270.00	7550.49	1127.18	225.20	-1118.06	595779.50	599834.94	0.00	
8600.00	92.89	270.00	7545.44	1226.95	225.20	-1217.93	595779.50	599735.07	0.00	
8700.00	92.89	270.00	7540.39	1326.72	225.20	-1317.80	595779.50	599635.20	0.00	
8800.00	92.89	270.00	7535.34	1426.49	225.20	-1417.68	595779.50	599535.32	0.00	
8900.00	92.89	270.00	7530.29	1526.26	225.20	-1517.55	595779.50	599435.45	0.00	
9000.00	92.89	270.00	7525.24	1626.02	225.20	-1617.42	595779.50	599335.58	0.00	
9035.97	92.89	270.00	7523.42	1661.91	225.20	-1653.34	595779.50	599299.66	0.00	
9044.64	92.72	270.00	7523.00	1670.56	225.20	-1662.00	595779.50	599291.00	2.00	P26 St Com 214H T2
9100.00	92.72	270.00	7520.37	1725.80	225.20	-1717.30	595779.50	599235.70	0.00	
9200.00	92.72	270.00	7515.63	1825.58	225.20	-1817.19	595779.50	599135.81	0.00	
9300.00	92.72	270.00	7510.88	1925.37	225.20	-1917.08	595779.50	599035.92	0.00	
9400.00	92.72	270.00	7506.13	2025.15	225.20	-2016.96	595779.50	598936.04	0.00	
9500.00	92.72	270.00	7501.38	2124.93	225.20	-2116.85	595779.50	598836.15	0.00	
9600.00	92.72	270.00	7496.64	2224.71	225.20	-2216.74	595779.50	598736.26	0.00	
9700.00	92.72	270.00	7491.89	2324.50	225.20	-2316.62	595779.50	598636.38	0.00	
9800.00	92.72	270.00	7487.14	2424.28	225.20	-2416.51	595779.50	598536.49	0.00	
9900.00	92.72	270.00	7482.40	2524.06	225.20	-2516.40	595779.50	598436.60	0.00	
10000.00	92.72	270.00	7477.65	2623.85	225.20	-2616.29	595779.50	598336.71	0.00	
10084.91	92.72	270.00	7473.62	2708.57	225.20	-2701.10	595779.50	598251.90	0.00	
10100.00	92.42	270.00	7472.94	2723.63	225.20	-2716.18	595779.50	598236.82	2.00	
10161.86	91.18	270.00	7471.00	2785.39	225.20	-2778.00	595779.50	598175.00	2.00	P26 St Com 214H T3
10200.00	91.18	270.00	7470.21	2823.49	225.20	-2816.14	595779.50	598136.86	0.00	
10300.00	91.18	270.00	7468.15	2923.36	225.20	-2916.11	595779.50	598036.89	0.00	
10400.00	91.18	270.00	7466.09	3023.23	225.20	-3016.09	595779.50	597936.91	0.00	
10500.00	91.18	270.00	7464.03	3123.11	225.20	-3116.07	595779.50	597836.93	0.00	
10600.00	91.18	270.00	7461.96	3222.98	225.20	-3216.05	595779.50	597736.95	0.00	
10700.00	91.18	270.00	7459.90	3322.86	225.20	-3316.03	595779.50	597636.97	0.00	
10800.00	91.18	270.00	7457.84	3422.73	225.20	-3416.01	595779.50	597536.99	0.00	
10900.00	91.18	270.00	7455.78	3522.61	225.20	-3515.99	595779.50	597437.01	0.00	
11000.00	91.18	270.00	7453.71	3622.48	225.20	-3615.97	595779.50	597337.03	0.00	
11100.00	91.18	270.00	7451.65	3722.35	225.20	-3715.94	595779.50	597237.06	0.00	
11200.00	91.18	270.00	7449.59	3822.23	225.20	-3815.92	595779.50	597137.08	0.00	
11300.00	91.18	270.00	7447.53	3922.10	225.20	-3915.90	595779.50	597037.10	0.00	
11306.19	91.18	270.00	7447.40	3928.29	225.20	-3922.09	595779.50	597030.91	0.00	
11323.10	91.52	270.00	7447.00	3945.18	225.20	-3939.00	595779.50	597014.00	2.00	P26 St Com 214H T4
11400.00	91.52	270.00	7444.96	4021.97	225.20	-4015.87	595779.50	596937.13	0.00	
11500.00	91.52	270.00	7442.31	4121.83	225.20	-4115.83	595779.50	596837.17	0.00	
11600.00	91.52	270.00	7439.65	4221.69	225.20	-4215.80	595779.50	596737.20	0.00	
11700.00	91.52	270.00	7437.00	4321.55	225.20	-4315.76	595779.50	596637.24	0.00	
11800.00	91.52	270.00	7434.35	4421.41	225.20	-4415.73	595779.50	596537.27	0.00	
11900.00	91.52	270.00	7431.70	4521.27	225.20	-4515.69	595779.50	596437.31	0.00	
12000.00	91.52	270.00	7429.04	4621.13	225.20	-4615.66	595779.50	596337.34	0.00	

5D Plan Report

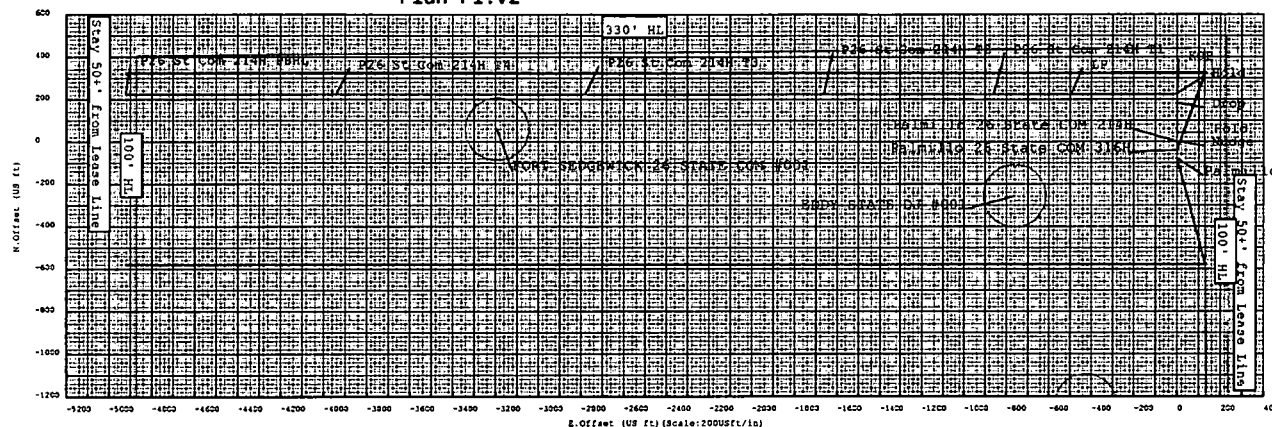
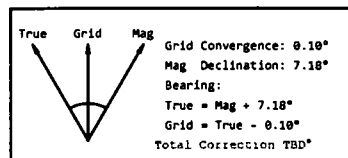
Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	DLS (°/100US ft)	Comment
12100.00	91.52	270.00	7426.39	4720.99	225.20	-4715.62	595779.50	596237.38	0.00	
12200.00	91.52	270.00	7423.74	4820.85	225.20	-4815.59	595779.50	596137.41	0.00	
12300.00	91.52	270.00	7421.09	4920.71	225.20	-4915.55	595779.50	596037.45	0.00	
12303.25	91.52	270.00	7421.00	4923.95	225.20	-4918.80	595779.50	596034.20	0.00	P26 St Com 214H PBHL

Formation Points: (Relative to Slot centre)(TVD relative to Drill Floor)										
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	TVD (MSL) (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Comment
Target	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Landing Base	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
3 BSC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Delaware Sands	3099.90	0.00	0.00	3099.90	-285.10	0.00	-0.00	595554.30	600953.00	
1BSC	3947.84	7.00	0.00	3945.00	560.00	60.73	-0.00	595615.03	600953.00	
1 BSS	6637.03	0.00	0.00	6625.00	3240.00	225.20	0.00	595779.50	600953.00	
2 BSC	6807.03	0.00	0.00	6795.00	3410.00	225.20	0.00	595779.50	600953.00	
2 BSS	7418.21	37.11	270.00	7385.00	4000.00	225.20	-96.71	595779.50	600856.29	
Landing Top	7722.48	73.63	270.00	7555.00	4170.00	225.20	-342.86	595779.50	600610.14	

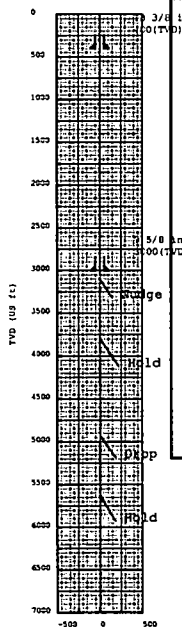
Apache

Apache Corporation
Palmillo 26 State COM 214H
Eddy Co., New Mexico
Plan P1:V2

Weatherford



KB: 3385.00
GL: 3359.00



VS (US ft) (Bearing: 272.62° Scale: 500USft/in)

Plan Data for Palmillo 26 State COM 214H

Field: Apache NM (Mad 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 (315H, 316H, 214H)
Unit: USFeet
Company Name: Apache Corporation
Position: Northing: 595474.30USft Latitude: 32.636858°
Easting: 600953.20USft Longitude: -104.139667°
North Reference: Grid Grid Convergence: 0.10°
Elevation Above VRD: 3360.00USft
Comment: Eddy Co. New Mexico

Slot: Palmillo 26 State COM 214H
Position:
Offset is from Slot centre
+N/-S: 80.00USft Northing: 595554.30USft Latitude: 32.637078°
+E/-W: -0.20USft Easting: 600953.00USft Longitude: -104.139667°
Elevation Above VRD: 3359.00USft

Well: Palmillo 26 State COM 214H
Type: Main-Well
File Number:
Plan Folder: P1 Plan: P1:V2
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 272.62°
+E/-W: -0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bgm2018 48075(nT) 7.18° 60.31° 2018-08-01
Comment: H&P 482

Plan Data for Palmillo 26 State COM 214H

Target Set Information:
Name: P26 St Com 214H
Position offsets from Slot centre

Name	TVD	Elevation	+N/-S	+E/-W	Northing	Easting
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
VP 7096.90	-3711.90	225.20	0.00	595779.50	600953.00	
T0 7575.00	-4190.00	225.20	-464.00	595779.50	600489.00	
T1 7563.00	-4178.00	225.20	-859.00	595779.50	600094.00	
T2 7523.00	-4138.00	225.20	-1662.00	595779.50	599291.00	
T3 7471.00	-4086.00	225.20	-2778.00	595779.50	598175.00	
T4 7447.00	-4062.00	225.20	-3939.00	595779.50	597814.00	
PBHL 7421.00	-4036.00	225.20	-4918.80	595779.50	596834.20	

Plan Data for Palmillo 26 State COM 214H

Formation Point Information:

Name	TVD	Elevation	MD
(USft)	(USft)	(USft)	(USft)
Target 7575.00	-4190.00	-1.00	
Landing Base 7595.00	-4210.00	-1.00	
3 BSC 7665.00	-4280.00	-1.00	
Delaware Sands 3099.90	285.10	3099.90	
1 BSC 3945.00	-560.00	3947.84	
1 BSC 6625.00	-3240.00	6637.03	
2 BSC 6795.00	-3410.00	6807.03	
2 BSC 7385.00	-4000.00	7418.21	
Landing Top 7555.00	-4170.00	7722.48	

Plan Data for Palmillo 26 State COM 214H

Dogleg Severity Unit: °/100.00ft

Position offsets from Slot centre

MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS	Comments
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
0.00	0.00	0.00	0.00	-0.00	595554.30	600953.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	-0.00	595554.30	600953.00	0.00	0.00	Nudge
3800.05	7.00	0.00	3798.31	42.71	-0.00	595597.01	600953.00	1.95	1.00	Hold
4946.88	7.00	0.00	4936.59	182.49	-0.00	595736.79	600953.00	8.34	0.00	Drop
5646.93	0.00	0.00	5634.98	225.20	0.00	595779.50	600953.00	10.29	1.00	Hold
7108.93	0.00	0.00	7096.90	225.20	0.00	595779.50	600953.00	10.29	0.00	KOP
7873.42	91.74	270.00	7574.14	225.20	-491.96	595779.50	600461.04	501.74	12.00	LP
8240.64	91.74	270.00	7563.00	225.20	-859.00	595779.50	600094.00	868.40	0.00	P26 St Com 214H T1
8298.38	92.89	270.00	7560.67	225.20	-916.70	595779.50	600036.30	926.04	2.00	
9035.97	92.89	270.00	7523.42	225.20	-1653.34	595779.50	599299.66	1661.91	0.00	
9044.64	92.72	270.00	7523.00	225.20	-1662.00	595779.50	599291.00	1670.56	2.00	P26 St Com 214H T2
10084.91	92.72	270.00	7473.62	225.20	-2781.10	595779.50	598251.90	2708.57	0.00	
10161.86	91.18	270.00	7471.00	225.20	-2778.00	595779.50	598175.00	2785.39	2.00	P26 St Com 214H T3
11306.19	91.18	270.00	7447.40	225.20	-3922.09	595779.50	597030.91	3928.29	0.00	
11323.10	91.52	270.00	7447.00	225.20	-3939.00	595779.50	597014.00	3945.18	2.00	P26 St Com 214H T4
12303.25	91.52	270.00	7421.00	225.20	-4918.80	595779.50	596834.20	4923.95	0.00	P26 St Com 214H PBHL

Plan Data for Palmillo 26 State COM 214H

Casing Point Information:

Position offsets from Slot centre

Name	MD	TVD	+N/-S	+E/-W	Northing	Easting
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
13 3/8 in	400.00	400.00	0.00	-0.00	595554.30	600953.00
9 5/8 in	3000.00	3000.00	0.00	-0.00	595554.30	600953.00

Drawing By: Ty Hardin Date: 12 June 2018
Office Name: Drilling Services - Houston
Address: 12101 Cutten Road
Houston, TX 77066
Phone: Office: +1.832.955.0032 | Cell: +1.713.882.8256