



5D Plan Report

Apache Corporation

Field Name: *Apache NM (Nad 83 NMEZ)*
Site Name: *Palmillo 26 State COM 314H*
Well Name: *Palmillo 26 State COM 314H - 30-015-44906*
Plan: *P1:V1*

8 April 2018

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 25 2018

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Weatherford®



Palmillo 26 State COM 314H

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 314H	Units: US ft	North Reference: Grid	Convergence Angle: 0.10	
	Position:	Northing: 594674.50 US ft	Latitude: 32.634659955	
		Easting: 600955.60 US ft	Longitude: -104.139663731	
		Elevation above MSL:3350.00 US ft		
Comment: Eddy Co. New Mexico				
Slot: Palmillo 26 State COM 314H	Position (Relative to Site Centre)			
	+N/-S: 0.00 US ft	Northing: 594674.50 US ft	Latitude: 32.634659955	
	+E/-W: 0.00 US ft	Easting: 600955.60 US ft	Longitude: -104.139663731	
	Slot TVD Reference: Ground Elevation			
	Elevation above MSL: 3350.00 US ft			
	Comment:			
Well: Palmillo 26 State COM 314H	Type:Main well		UWI:	Plan:P1:V1
	File Number:	Comment: H&P 482		
	Closure Distance:4958.25US ft		Closure Azimuth:263.02°	
	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:	Declination: 7.23°	Dip: 60.32°
	48129.9nT		Date: 01/May/2018	

Drill floor: Plan: P1:V1

Rig Height (Drill Floor): 26.00us ft	Elevation above MSL: 3376.00us ft	Inclination: 0.00°	Azimuth: 0.00°
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Target set: P26 St Com 314H Comment:

Target Name:	Shape:	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (USFt)	Easting (USFt)	C.Pt.Distance (US ft)	Comment
KOP	Point	8267.00	-602.60	130.00	594071.90	601085.60	0.00	
LP	Point	8744.25	-602.60	-361.79	594071.90	600593.81	0.00	
T1	Point	8704.00	-602.60	-1703.21	594071.90	599252.39	0.00	
T2	Point	8679.00	-602.60	-2707.38	594071.90	598248.22	0.00	
T3	Point	8677.00	-602.60	-3912.38	594071.90	597043.22	0.00	
PBHL	Point	8662.00	-602.60	-4871.50	594071.90	596084.10	0.00	

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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
400.00	0.00	0.00	400.00	0.00	0.00	594674.50	600955.60	13 3/8 in
8040.52	0.00	0.00	8000.00	-602.60	130.00	594071.90	601085.60	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	594674.50	600955.60	0.00	
2781.00	0.00	0.00	2781.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	Nudge
3581.37	8.00	167.83	3578.77	-11.77	-54.56	11.77	594619.94	600967.37	1.00	Hold
7207.15	8.00	167.83	7169.23	-118.23	-548.04	118.23	594126.46	601073.83	0.00	Drop
8007.52	0.00	0.00	7967.00	-130.00	-602.60	130.00	594071.90	601085.60	1.00	Hold 300
8307.52	0.00	0.00	8267.00	-130.00	-602.60	130.00	594071.90	601085.60	0.00	KOP
9071.85	91.72	270.00	8744.25	361.79	-602.60	-361.79	594071.90	600593.81	12.00	Landing Pt
10401.60	91.72	270.00	8704.34	1690.95	-602.60	-1690.95	594071.90	599264.65	0.00	Drop
10413.87	91.47	270.00	8704.00	1703.21	-602.60	-1703.21	594071.90	599252.39	2.00	T1 - Hold
11348.70	91.47	270.00	8679.95	2637.73	-602.60	-2637.73	594071.90	598317.87	0.00	Drop
11418.36	90.08	270.00	8679.00	2707.38	-602.60	-2707.38	594071.90	598248.22	2.00	T2 - Hold
12582.63	90.08	270.00	8677.35	3871.65	-602.60	-3871.65	594071.90	597083.95	0.00	Build
12623.36	90.90	270.00	8677.00	3912.38	-602.60	-3912.38	594071.90	597043.22	2.00	T3
13582.60	90.90	270.00	8662.00	4871.50	-602.60	-4871.50	594071.90	596084.10	0.00	314H PBHL
13632.60	90.90	270.00	8661.22	4921.49	-602.60	-4921.49	594071.90	596034.11	0.00	50 Ft 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	594674.50	600955.60	0.00	
100.00	0.00	0.00	100.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
200.00	0.00	0.00	200.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
300.00	0.00	0.00	300.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
400.00	0.00	0.00	400.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	13 3/8 in
500.00	0.00	0.00	500.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
600.00	0.00	0.00	600.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
700.00	0.00	0.00	700.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
800.00	0.00	0.00	800.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
900.00	0.00	0.00	900.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
1000.00	0.00	0.00	1000.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
1100.00	0.00	0.00	1100.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
1200.00	0.00	0.00	1200.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
1300.00	0.00	0.00	1300.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
1400.00	0.00	0.00	1400.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
1500.00	0.00	0.00	1500.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
1600.00	0.00	0.00	1600.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
1700.00	0.00	0.00	1700.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
1800.00	0.00	0.00	1800.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
1900.00	0.00	0.00	1900.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
2000.00	0.00	0.00	2000.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
2100.00	0.00	0.00	2100.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
2200.00	0.00	0.00	2200.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
2300.00	0.00	0.00	2300.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
2400.00	0.00	0.00	2400.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
2500.00	0.00	0.00	2500.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
2600.00	0.00	0.00	2600.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
2700.00	0.00	0.00	2700.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	
2781.00	0.00	0.00	2781.00	-0.00	0.00	0.00	594674.50	600955.60	0.00	Nudge

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	
2800.00	0.19	167.83	2800.00	-0.01	-0.03	0.01	594674.47	600955.61	1.00	Delaware Sands :	
2900.00	1.19	167.83	2899.99	-0.26	-1.21	0.26	594673.29	600955.86	1.00		
3000.00	2.19	167.83	2999.95	-0.88	-4.09	0.88	594670.41	600956.48	1.00		
3091.05	3.10	167.83	3090.90	-1.77	-8.20	1.77	594666.30	600957.37	1.00		
3100.00	3.19	167.83	3099.84	-1.87	-8.68	1.87	594665.82	600957.47	1.00		
3200.00	4.19	167.83	3199.63	-3.23	-14.97	3.23	594659.53	600958.83	1.00	Hold	
3300.00	5.19	167.83	3299.29	-4.95	-22.96	4.95	594651.54	600960.55	1.00		
3400.00	6.19	167.83	3398.80	-7.04	-32.65	7.04	594641.85	600962.64	1.00		
3500.00	7.19	167.83	3498.11	-9.50	-44.04	9.50	594630.46	600965.10	1.00		
3581.37	8.00	167.83	3578.77	-11.77	-54.56	11.77	594619.94	600967.37	1.00		
3600.00	8.00	167.83	3597.22	-12.32	-57.09	12.32	594617.41	600967.92	0.00	1BSC :	
3700.00	8.00	167.83	3696.24	-15.25	-70.70	15.25	594603.80	600970.85	0.00		
3800.00	8.00	167.83	3795.27	-18.19	-84.31	18.19	594590.19	600973.79	0.00		
3900.00	8.00	167.83	3894.30	-21.13	-97.92	21.13	594576.58	600976.73	0.00		
4000.00	8.00	167.83	3993.32	-24.06	-111.53	24.06	594562.97	600979.66	0.00		
4083.49	8.00	167.83	4076.00	-26.51	-122.90	26.51	594551.60	600982.11	0.00	1BSC :	
4100.00	8.00	167.83	4092.35	-27.00	-125.14	27.00	594549.36	600982.60	0.00		
4200.00	8.00	167.83	4191.37	-29.93	-138.76	29.93	594535.74	600985.53	0.00		
4300.00	8.00	167.83	4290.40	-32.87	-152.37	32.87	594522.13	600988.47	0.00		
4400.00	8.00	167.83	4389.43	-35.81	-165.98	35.81	594508.52	600991.41	0.00		
4500.00	8.00	167.83	4488.45	-38.74	-179.59	38.74	594494.91	600994.34	0.00	1BSC :	
4600.00	8.00	167.83	4587.48	-41.68	-193.20	41.68	594481.30	600997.28	0.00		
4700.00	8.00	167.83	4686.50	-44.61	-206.81	44.61	594467.69	601000.21	0.00		
4800.00	8.00	167.83	4785.53	-47.55	-220.42	47.55	594454.08	601003.15	0.00		
4900.00	8.00	167.83	4884.55	-50.49	-234.03	50.49	594440.47	601006.09	0.00		
5000.00	8.00	167.83	4983.58	-53.42	-247.64	53.42	594426.86	601009.02	0.00	1BSC :	
5100.00	8.00	167.83	5082.61	-56.36	-261.25	56.36	594413.25	601011.96	0.00		
5200.00	8.00	167.83	5181.63	-59.30	-274.86	59.30	594399.64	601014.90	0.00		
5300.00	8.00	167.83	5280.66	-62.23	-288.47	62.23	594386.03	601017.83	0.00		
5400.00	8.00	167.83	5379.68	-65.17	-302.08	65.17	594372.42	601020.77	0.00		
5500.00	8.00	167.83	5478.71	-68.10	-315.69	68.10	594358.81	601023.70	0.00	1BSC :	
5600.00	8.00	167.83	5577.74	-71.04	-329.30	71.04	594345.20	601026.64	0.00		
5700.00	8.00	167.83	5676.76	-73.98	-342.91	73.98	594331.59	601029.58	0.00		
5800.00	8.00	167.83	5775.79	-76.91	-356.52	76.91	594317.98	601032.51	0.00		
5900.00	8.00	167.83	5874.81	-79.85	-370.13	79.85	594304.37	601035.45	0.00		
6000.00	8.00	167.83	5973.84	-82.79	-383.74	82.79	594290.76	601038.39	0.00	1BSC :	
6100.00	8.00	167.83	6072.87	-85.72	-397.35	85.72	594277.15	601041.32	0.00		
6200.00	8.00	167.83	6171.89	-88.66	-410.97	88.66	594263.53	601044.26	0.00		
6300.00	8.00	167.83	6270.92	-91.59	-424.58	91.59	594249.92	601047.19	0.00		
6400.00	8.00	167.83	6369.94	-94.53	-438.19	94.53	594236.31	601050.13	0.00		
6500.00	8.00	167.83	6468.97	-97.47	-451.80	97.47	594222.70	601053.07	0.00	1BSC :	
6600.00	8.00	167.83	6568.00	-100.40	-465.41	100.40	594209.09	601056.00	0.00		
6658.57	8.00	167.83	6626.00	-102.12	-473.38	102.12	594201.12	601057.72	0.00		
6700.00	8.00	167.83	6667.02	-103.34	-479.02	103.34	594195.48	601058.94	0.00		
6800.00	8.00	167.83	6766.05	-106.28	-492.63	106.28	594181.87	601061.88	0.00		
6830.24	8.00	167.83	6796.00	-107.16	-496.75	107.16	594177.75	601062.76	0.00	2 BSC :	
6900.00	8.00	167.83	6865.07	-109.21	-506.24	109.21	594168.26	601064.81	0.00		
7000.00	8.00	167.83	6964.10	-112.15	-519.85	112.15	594154.65	601067.75	0.00		
7100.00	8.00	167.83	7063.13	-115.08	-533.46	115.08	594141.04	601070.68	0.00		
7200.00	8.00	167.83	7162.15	-118.02	-547.07	118.02	594127.43	601073.62	0.00		
7207.15	8.00	167.83	7169.23	-118.23	-548.04	118.23	594126.46	601073.83	0.00	Drop	
7300.00	7.08	167.83	7261.28	-120.80	-559.95	120.80	594114.55	601076.40	1.00		
7400.00	6.08	167.83	7360.62	-123.21	-571.15	123.21	594103.35	601078.81	1.00		
7445.62	5.62	167.83	7406.00	-124.19	-575.69	124.19	594098.81	601079.79	1.00		
7500.00	5.08	167.83	7460.14	-125.26	-580.64	125.26	594093.86	601080.86	1.00		
7600.00	4.08	167.83	7559.82	-126.95	-588.44	126.95	594086.06	601082.55	1.00	2 BSS :	
7700.00	3.08	167.83	7659.63	-128.26	-594.53	128.26	594079.97	601083.86	1.00		
7766.45	2.41	167.83	7726.00	-128.93	-597.64	128.93	594076.86	601084.53	1.00		
											3 BSC :

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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
7800.00	2.08	167.83	7759.53	-129.21	-598.93	129.21	594075.57	601084.81	1.00	
7900.00	1.08	167.83	7859.49	-129.79	-601.61	129.79	594072.89	601085.39	1.00	
8000.00	0.08	167.83	7959.48	-130.00	-602.60	130.00	594071.90	601085.60	1.00	
8007.52	0.00	0.00	7967.00	-130.00	-602.60	130.00	594071.90	601085.60	1.00	Hold 300
8040.52	0.00	0.00	8000.00	-130.00	-602.60	130.00	594071.90	601085.60	0.00	9 5/8 in
8100.00	0.00	0.00	8059.48	-130.00	-602.60	130.00	594071.90	601085.60	0.00	
8200.00	0.00	0.00	8159.48	-130.00	-602.60	130.00	594071.90	601085.60	0.00	
8300.00	0.00	0.00	8259.48	-130.00	-602.60	130.00	594071.90	601085.60	0.00	
8307.52	0.00	0.00	8267.00	-130.00	-602.60	130.00	594071.90	601085.60	0.00	KOP
8400.00	11.10	270.00	8358.90	-121.07	-602.60	121.07	594071.90	601076.67	12.00	
8500.00	23.10	270.00	8454.31	-91.73	-602.60	91.73	594071.90	601047.33	12.00	
8593.27	34.29	270.00	8536.00	-47.01	-602.60	47.01	594071.90	601002.61	12.00	3 BSS :
8600.00	35.10	270.00	8541.53	-43.18	-602.60	43.18	594071.90	600998.78	12.00	
8700.00	47.10	270.00	8616.75	22.43	-602.60	-22.43	594071.90	600933.17	12.00	
8800.00	59.10	270.00	8676.69	102.25	-602.60	-102.25	594071.90	600853.35	12.00	
8900.00	71.10	270.00	8718.72	192.79	-602.60	-192.79	594071.90	600762.81	12.00	
8904.00	71.58	270.00	8720.00	196.58	-602.60	-196.58	594071.90	600759.02	12.00	Landing Top :
8962.28	78.57	270.00	8735.00	252.85	-602.60	-252.85	594071.90	600702.75	12.00	Target :
9000.00	83.10	270.00	8741.00	290.08	-602.60	-290.08	594071.90	600665.52	12.00	
9071.85	91.72	270.00	8744.25	361.79	-602.60	-361.79	594071.90	600593.81	12.00	Landing Pt
9100.00	91.72	270.00	8743.41	389.93	-602.60	-389.93	594071.90	600565.67	0.00	
9200.00	91.72	270.00	8740.40	489.89	-602.60	-489.89	594071.90	600465.71	0.00	
9300.00	91.72	270.00	8737.40	589.84	-602.60	-589.84	594071.90	600365.76	0.00	
9400.00	91.72	270.00	8734.40	689.80	-602.60	-689.80	594071.90	600265.80	0.00	
9500.00	91.72	270.00	8731.40	789.75	-602.60	-789.75	594071.90	600165.85	0.00	
9600.00	91.72	270.00	8728.40	889.71	-602.60	-889.71	594071.90	600065.89	0.00	
9700.00	91.72	270.00	8725.40	989.66	-602.60	-989.66	594071.90	599965.94	0.00	
9800.00	91.72	270.00	8722.40	1089.62	-602.60	-1089.62	594071.90	599865.98	0.00	
9900.00	91.72	270.00	8719.40	1189.57	-602.60	-1189.57	594071.90	599766.03	0.00	
10000.00	91.72	270.00	8716.39	1289.53	-602.60	-1289.53	594071.90	599666.07	0.00	
10100.00	91.72	270.00	8713.39	1389.48	-602.60	-1389.48	594071.90	599566.12	0.00	
10200.00	91.72	270.00	8710.39	1489.44	-602.60	-1489.44	594071.90	599466.16	0.00	
10300.00	91.72	270.00	8707.39	1589.39	-602.60	-1589.39	594071.90	599366.21	0.00	
10400.00	91.72	270.00	8704.39	1689.34	-602.60	-1689.34	594071.90	599266.26	0.00	
10401.60	91.72	270.00	8704.34	1690.95	-602.60	-1690.95	594071.90	599264.65	0.00	Drop
10413.87	91.47	270.00	8704.00	1703.21	-602.60	-1703.21	594071.90	599252.39	2.00	T1 - Hold
10500.00	91.47	270.00	8701.78	1789.31	-602.60	-1789.31	594071.90	599166.29	0.00	
10600.00	91.47	270.00	8699.21	1889.28	-602.60	-1889.28	594071.90	599066.32	0.00	
10700.00	91.47	270.00	8696.64	1989.24	-602.60	-1989.24	594071.90	598966.36	0.00	
10800.00	91.47	270.00	8694.06	2089.21	-602.60	-2089.21	594071.90	598866.39	0.00	
10900.00	91.47	270.00	8691.49	2189.18	-602.60	-2189.18	594071.90	598766.42	0.00	
11000.00	91.47	270.00	8688.92	2289.15	-602.60	-2289.15	594071.90	598666.45	0.00	
11100.00	91.47	270.00	8686.35	2389.11	-602.60	-2389.11	594071.90	598566.49	0.00	
11200.00	91.47	270.00	8683.77	2489.08	-602.60	-2489.08	594071.90	598466.52	0.00	
11300.00	91.47	270.00	8681.20	2589.05	-602.60	-2589.05	594071.90	598366.55	0.00	
11348.70	91.47	270.00	8679.95	2637.73	-602.60	-2637.73	594071.90	598317.87	0.00	Drop
11400.00	90.45	270.00	8679.08	2689.02	-602.60	-2689.02	594071.90	598266.58	2.00	
11418.36	90.08	270.00	8679.00	2707.38	-602.60	-2707.38	594071.90	598248.22	2.00	T2 - Hold
11500.00	90.08	270.00	8678.88	2789.02	-602.60	-2789.02	594071.90	598166.58	0.00	
11600.00	90.08	270.00	8678.74	2889.02	-602.60	-2889.02	594071.90	598066.58	0.00	
11700.00	90.08	270.00	8678.60	2989.02	-602.60	-2989.02	594071.90	597966.58	0.00	
11800.00	90.08	270.00	8678.46	3089.02	-602.60	-3089.02	594071.90	597866.58	0.00	
11900.00	90.08	270.00	8678.32	3189.02	-602.60	-3189.02	594071.90	597766.58	0.00	
12000.00	90.08	270.00	8678.17	3289.02	-602.60	-3289.02	594071.90	597666.58	0.00	
12100.00	90.08	270.00	8678.03	3389.02	-602.60	-3389.02	594071.90	597566.58	0.00	
12200.00	90.08	270.00	8677.89	3489.02	-602.60	-3489.02	594071.90	597466.58	0.00	
12300.00	90.08	270.00	8677.75	3589.02	-602.60	-3589.02	594071.90	597366.58	0.00	
12400.00	90.08	270.00	8677.61	3689.02	-602.60	-3689.02	594071.90	597266.58	0.00	

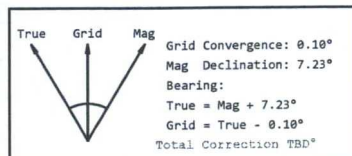
5D Plan Report

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)	
12500.00	90.08	270.00	8677.46	3789.02	-602.60	-3789.02	594071.90	597166.58	0.00	
12582.63	90.08	270.00	8677.35	3871.65	-602.60	-3871.65	594071.90	597083.95	0.00	Build
12600.00	90.43	270.00	8677.27	3889.02	-602.60	-3889.02	594071.90	597066.58	2.00	
12623.36	90.90	270.00	8677.00	3912.38	-602.60	-3912.38	594071.90	597043.22	2.00	T3
12700.00	90.90	270.00	8675.80	3989.01	-602.60	-3989.01	594071.90	596966.59	0.00	
12800.00	90.90	270.00	8674.24	4089.00	-602.60	-4089.00	594071.90	596866.60	0.00	
12900.00	90.90	270.00	8672.67	4188.99	-602.60	-4188.99	594071.90	596766.61	0.00	
13000.00	90.90	270.00	8671.11	4288.97	-602.60	-4288.97	594071.90	596666.63	0.00	
13100.00	90.90	270.00	8669.55	4388.96	-602.60	-4388.96	594071.90	596566.64	0.00	
13200.00	90.90	270.00	8667.98	4488.95	-602.60	-4488.95	594071.90	596466.65	0.00	
13300.00	90.90	270.00	8666.42	4588.94	-602.60	-4588.94	594071.90	596366.66	0.00	
13400.00	90.90	270.00	8664.86	4688.92	-602.60	-4688.92	594071.90	596266.68	0.00	
13500.00	90.90	270.00	8663.29	4788.91	-602.60	-4788.91	594071.90	596166.69	0.00	
13582.60	90.90	270.00	8662.00	4871.50	-602.60	-4871.50	594071.90	596084.10	0.00	314H PBHL
13600.00	90.90	270.00	8661.73	4888.90	-602.60	-4888.90	594071.90	596066.70	0.00	
13632.60	90.90	270.00	8661.22	4921.49	-602.60	-4921.49	594071.90	596034.11	0.00	50 Ft for Orio Valve

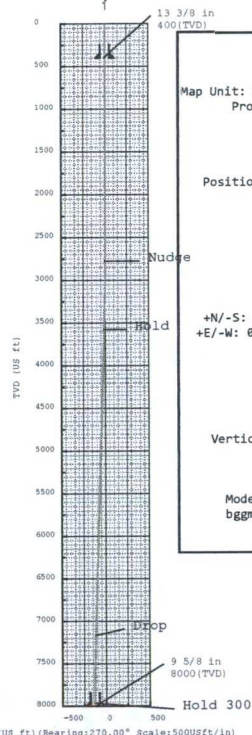
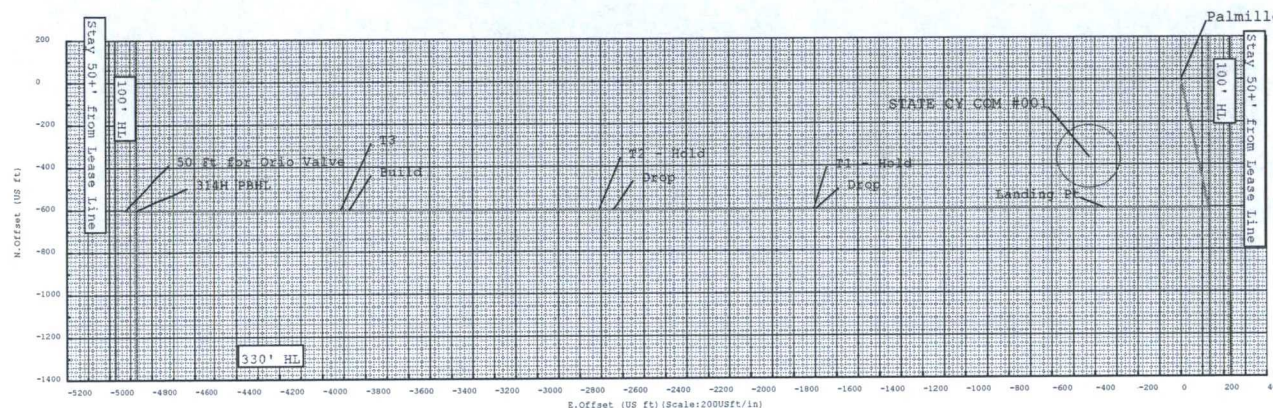
Formation Points: (Relative to Slot centre)(TVD relative to Drill Floor)								
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)
Landing Base	N/A	5.96	167.83	8750.00	-30.28	6.53	594644.22	600962.13
Wolfcamp	N/A	5.96	167.83	8926.00	-30.28	6.53	594644.22	600962.13
Delaware Sands	3091.05	3.10	167.83	3090.90	-8.20	1.77	594666.30	600957.37
1BSC	4083.49	8.00	167.83	4076.00	-122.90	26.51	594551.60	600982.11
1 BSS	6658.57	8.00	167.83	6626.00	-473.38	102.12	594201.12	601057.72
2 BSC	6830.24	8.00	167.83	6796.00	-496.75	107.16	594177.75	601062.76
2 BSS	7445.62	5.62	167.83	7406.00	-575.69	124.19	594098.81	601079.79
3 BSC	7766.45	2.41	167.83	7726.00	-597.64	128.93	594076.86	601084.53
3 BSS	8593.27	34.29	270.00	8536.00	-602.60	47.01	594071.90	601002.61
Landing Top	8904.00	71.58	270.00	8720.00	-602.60	-196.58	594071.90	600759.02
Target	8962.28	78.57	270.00	8735.00	-602.60	-252.85	594071.90	600702.75



Apache Corporation
Palmillo 26 State COM 314H
Eddy Co., New Mexico
Plan P1:V1



KB: 3376.00
GL: 3350.00



Plan Data for Palmillo 26 State COM 314H

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 314H
Unit: USFet TVD Reference:
Company Name: Apache Corporation
Position: Northing: 594674.50USft Latitude: 32.634660°
Easting: 600955.60USft Longitude: -104.139664°
North Reference: Grid Grid Convergence: 0.10°
Elevation Above VRD: 3350.00USft
Comment: Eddy Co. New Mexico

Slot: Palmillo 26 State COM 314H
Position: Offset is from Site centre
+N/-S: 0.00USft Northing: 594674.50USft Latitude: 32.634660°
+E/-W: 0.00USft Easting: 600955.60USft Longitude: -104.139664°
Elevation Above VRD: 3350.00USft

Well: Palmillo 26 State COM 314H
Type: Main-Well
File Number:
Plan Folder: P1 Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 270.00°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
bggm2017 48129(nT) 7.23° 60.32° 2018-05-01
Comment: H&P 482

Plan Data for Palmillo 26 State COM 314H

Target Set Information:
Name: P26 St COM 314H

Position offsets from Slot centre

Name	TVD	Elevation	+N/-S	+E/-W	Northing	Easting
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
KOP	8267.00	-4891.00	-602.60	130.00	594071.90	601085.60
LP	8744.25	-5368.25	-602.60	-361.79	594071.90	600593.81
T1	8704.00	-5328.00	-602.60	-1703.21	594071.90	599252.39
T2	8679.00	-5303.00	-602.60	-2707.38	594071.90	598248.22
T3	8677.00	-5301.00	-602.60	-3912.38	594071.90	597043.22
PBHL	8662.00	-5286.00	-602.60	-4871.50	594071.90	596084.10

Plan Data for Palmillo 26 State COM 314H

Formation Point Information:

Name	TVD	Elevation	MD
(USft)	(USft)	(USft)	(USft)
Landing Base	8750.00	0.00	-1.00
Wolfcamp	8926.00	0.00	-1.00
Delaware Sands	3090.90	285.10	3091.05
1 BSC	4076.00	-700.00	4083.49
1 BSS	6626.00	-3250.00	6658.57
2 BSC	6796.00	-3420.00	6830.24
2 BSS	7406.00	-4030.00	7445.62
3 BSC	7726.00	-4350.00	7766.45
3 BSS	8536.00	-5160.00	8593.27
Landing Top	8720.00	-5344.00	8904.00
Target	8735.00	-5359.00	8962.28

Plan Data for Palmillo 26 State COM 314H

Plan Point Information:

DogLeg Severity Unit: °/100.00ft

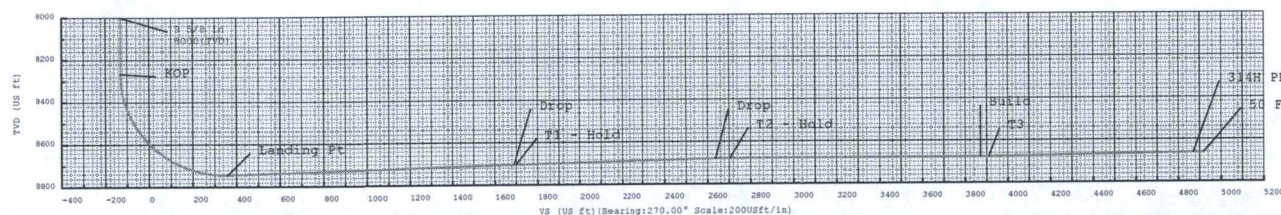
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS	Comments
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)	
0.00	0.00	0.00	0.00	0.00	0.00	594674.50	600955.60	0.00	0.00	
2781.00	0.00	0.00	2781.00	0.00	0.00	594674.50	600955.60	0.00	0.00	Nudge
3581.37	8.00	167.83	3578.77	-54.56	11.77	594619.94	600967.37	-11.77	1.00	Hold
7207.15	8.00	167.83	7169.23	-548.04	118.23	594126.46	601073.83	-118.23	0.00	Drop
8007.52	0.00	0.00	7967.00	-602.60	130.00	594071.90	601085.60	-130.00	1.00	Hold 300
8307.52	0.00	0.00	8267.00	-602.60	130.00	594071.90	601085.60	-130.00	0.00	KOP
9071.85	91.72	270.00	8744.25	-602.60	-361.79	594071.90	600593.81	361.79	12.00	Landing Pt
10401.60	91.72	270.00	8704.00	-602.60	-1690.95	594071.90	599264.65	1690.95	0.00	Drop
10413.87	91.47	270.00	8704.00	-602.60	-1703.21	594071.90	599252.39	1703.21	2.00	T1 - Hold
11348.70	91.47	270.00	8679.00	-602.60	-2637.73	594071.90	598317.87	2637.73	0.00	Drop
11418.36	90.08	270.00	8679.00	-602.60	-2707.38	594071.90	598248.22	2707.38	2.00	T2 - Hold
12582.63	90.08	270.00	8677.00	-602.60	-3871.65	594071.90	597083.95	3871.65	0.00	Build
12623.36	90.90	270.00	8677.00	-602.60	-3912.38	594071.90	597043.22	3912.38	2.00	T3
13582.60	90.90	270.00	8662.00	-602.60	-4871.50	594071.90	596084.10	4871.50	0.00	314H PBHL
13632.60	90.90	270.00	8661.22	-602.60	-4921.49	594071.90	596034.11	4921.49	0.00	50 Ft for Orio Valve

Plan Data for Palmillo 26 State COM 314H

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	594674.50	600955.60
9 5/8 in	8040.52	8000.00	-602.60	130.00	594071.90	601085.60



Drawing By: Ty Hardin Date: 5 April 2018
Office Name: Drilling Services - Houston.
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Houston, TX 77065
Phone: Office: +1.832.955.0032 | Cell: +1.713.882.8256