

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-015-45802

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
<325175>

PALMILLO 10 STATE COM

8. Well Number **244H**

9. OGRID Number **873**

10. Pool name or Wildcat **<96413>**
PALMILLO; BONE SPRING, SW

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator

APACHE CORPORATION

3. Address of Operator **3000 VETERANS AIRPARK LN #1000**
MIDLAND, TX 79705

4. Well Location

Unit Letter **H**: **2050'** feet from the **NORTH** line and **180'** feet from the **EAST** line

Section **3**

Township **19S**

Range **28E**

NMPM

County **EDDY**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
GL:3483'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☒

PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

DOWNHOLE COMMINGLE ☐

CLOSED-LOOP SYSTEM ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ P AND A ☐

CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Apache respectfully request to change SHL and BHL for the Palmillo 3 State Com 244H. Moving SHL from West side of section to East side of section on pad with 3 other wells in order to reduce footprint and reduce facility costs. Surf & Interm csg/cmt will remain same. Only change will be to Prod csg/cmt listed below:

OLD: SHL - Sec 3, 785' FNL & 240' FWL BHL - Sec 3, 330' FNL & 50' FEL
NEW SHL - Sec 3, 2050' FNL & 180' FEL BHL - Sec 3, 380' FNL & 50' FWL

OLD Prod - 8-3/4" - setting depth: 7253' Est TOC: 2500' Total sx cmt: 527sx
8-1/2" - setting depth: 12197' Est TOC - 7253' Total sx cmt: 922sx

NEW Prod - 8-3/4" - setting depth: 7794' Est TOC: 2500' Total sx cmt: 607sx
8-1/2" - setting depth: 12693' Est TOC - 7794' Total sx cmt: 914sx

RECEIVED

DEC 13 2019

DISTRICT 7 - ARTESIA O.C.D.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Sorina L Flores TITLE Supv Drlg Services DATE 12/9/19

Type or print name Sorina L Flores E-mail address: sorina.flores@apachecorp.com PHONE: 432-818-1167

For State Use Only

APPROVED BY: Raymond A. Padany TITLE Geologist DATE 2-14-20

Conditions of Approval (if any):

**5D Plan Report****Apache Corporation**

Field Name: *Apache NM (Nad 83 NMEZ)*
Site Name: *Palmillo 3 State Com (356,244,243,354) Pad*
Well Name: *Palmillo 3 State Com 244H*
Plan: *P1:V4 (Current plan)*

25 November 2019

RECEIVED

DEC 13 2019

DISTRICT/ARTESIAO.C.D.

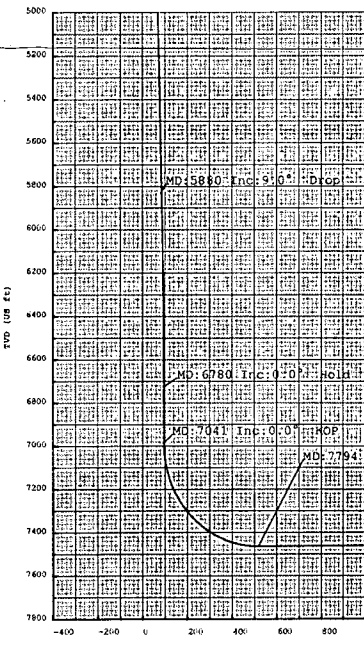
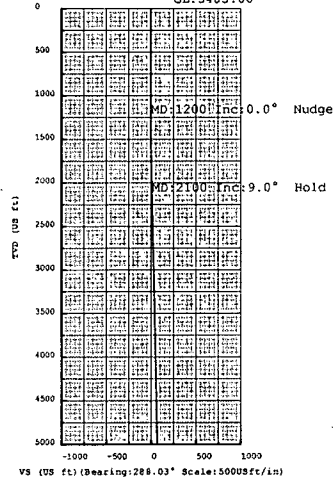
**Weatherford®**



Palmillo 3 State Com 244H Eddy Co, New Mexico



KB:3509.00'
GL:3483.00'

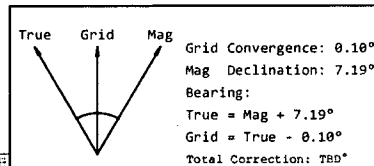


Plan Data for Palmillo 3 State Com 244H											
Plan Point Information:											
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS	Comments	
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)		
0.00	0.00	0.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	0.00		
1200.00	0.00	0.00	1200.00	-0.00	0.00	615331.80	595825.40	0.00	0.00	Nudge	
2100.11	9.00	10.62	2096.41	69.35	13.00	615401.15	595838.40	9.10	1.00	Hold	
5880.34	9.00	10.62	5830.09	658.65	122.00	615982.45	595947.40	85.38	0.00	Drop	
6780.45	0.00	0.00	6726.50	728.00	135.00	616051.80	595960.40	94.48	1.00	Hold	
7040.85	0.00	0.00	6986.90	728.00	135.00	616051.80	595960.40	94.48	0.00	KOP	
7794.33	90.42	315.91	7464.35	1065.45	-109.63	616397.25	595625.77	519.60	12.00	LP/Turn	
8994.27	90.42	382.61	7456.00	1600.35	-1154.35	616932.15	594671.05	1593.00	3.00	Build/Turn	
9437.19	96.17	267.66	7425.21	1648.01	-1682.50	616979.81	594142.90	2189.97	3.00	Drop/Turn	
9521.79	95.63	269.27	7416.51	1645.76	-1766.62	616977.56	594058.78	2189.26	2.00	Hold	
10016.05	95.63	269.27	7368.00	1639.52	-2258.45	616971.32	593566.95	2655.00	0.00	2655'VS	
10224.29	91.47	269.28	7355.11	1636.89	-2466.23	616968.69	593359.17	2851.76	2.00	Hold	
11506.14	91.47	269.28	7322.28	1620.69	-3747.56	616952.49	592077.84	4065.16	0.00	Build	
11649.79	94.34	269.27	7315.00	1618.88	-3891.00	616950.68	591934.40	4201.00	2.00	4201'VS	
12693.57	94.34	269.27	7236.00	1605.70	-4931.70	616937.50	590893.70	5186.51	0.00	PBL 244H	

Plan Data for Palmillo 3 State Com 244H											
Target Set Information:											
Name: Palmillo3 244H											
Position offsets from Slot centre											
Name	TVD Elevation	+N/-S	+E/-W	Northing	Easting						
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)						
VP 6965.10	-3456.10	728.00	135.00	616051.80	595960.40						
FTP 244H 0.00	3509.00	1670.90	95.40	617002.70	595920.80						
523'VS 7464.00	-3955.00	1067.14	-203.53	616398.94	595621.87						
1593'VS 7456.00	-3947.00	1600.35	-1154.35	616932.15	594671.05						
2060'VS 7420.00	-3911.00	1647.57	-1630.10	616979.81	594195.30						
2655'VS 7368.00	-3859.00	1639.52	-2258.45	616971.32	593566.95						
4201'VS 7315.00	-3806.00	1618.88	-3891.00	616950.68	591934.40						
LTP 244H 7239.78	-3730.78	1606.40	-4881.70	616938.20	590943.70						
PBL 244H 7236.00	-3727.00	1605.70	-4931.70	616937.50	590893.70						

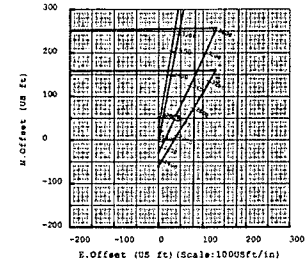


Weatherford



Grid Convergence: 0.10°
Mag Declination: 7.19°
Bearing:
True = Mag + 7.19°
Grid = True - 0.10°
Total Correction: 7.29°

Palmillo 3 State Com 244H	---
Palmillo 3 State Com 243H	---
Palmillo 3 State Com 354H	---
Palmillo 3 State Com 356H	---



Drawing By: Ty Hardin Date: 25 November 2019
Office Name: Drilling Services - Houston
Address: 12101 Cutten Road
Houston, TX 77066
Phone: +1.713.882.8256

5D Plan Report

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

Survey Tool Ranges: (Using Anticipated Survey Programme)

Name	Start MD(USFt)	End MD(USFt)	Source Survey
MWD + IFR1_OW2	0.00	6858.85	ASP
MWD+IFR1+SAG+FDIR	6858.85	12513.63	ASP
MWD	12513.63	12693.57	Default Tool

Wellpath created using minimum curvature.

Salient Points: (Relative to Slot centre)(TVD relative to Drill Floor)							Northing	Easting	DLS	Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	(US ft)	(US ft)	(°/100US ft)	
0.00	0.00	0.00	0.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	
1200.00	0.00	0.00	1200.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	Nudge
2100.11	9.00	10.62	2096.41	9.10	69.35	13.00	615401.15	595838.40	1.00	Hold
5880.34	9.00	10.62	5830.09	85.38	650.65	122.00	615982.45	595947.40	0.00	Drop
6780.45	0.00	0.00	6726.50	94.48	720.00	135.00	616051.80	595960.40	1.00	Hold
7040.85	0.00	0.00	6986.90	94.48	720.00	135.00	616051.80	595960.40	0.00	KOP
7794.33	90.42	315.91	7464.35	519.60	1065.45	-199.63	616397.25	595625.77	12.00	LP/Turn
8904.27	90.42	282.61	7456.00	1593.00	1600.35	-1154.35	616932.15	594671.05	3.00	Build/Turn
9437.19	96.17	267.66	7425.21	2109.97	1648.01	-1682.50	616979.81	594142.90	3.00	Drop/Turn
9521.79	95.63	269.27	7416.51	2189.26	1645.76	-1766.62	616977.56	594058.78	2.00	Hold
10016.05	95.63	269.27	7368.00	2655.00	1639.52	-2258.45	616971.32	593566.95	0.00	2655°VS
10224.29	91.47	269.28	7355.11	2851.76	1636.89	-2466.23	616968.69	593359.17	2.00	Hold
11506.14	91.47	269.28	7322.28	4065.16	1620.69	-3747.56	616952.49	592077.84	0.00	Build
11649.79	94.34	269.27	7315.00	4201.00	1618.88	-3891.00	616950.68	591934.40	2.00	4201°VS
12693.57	94.34	269.27	7236.00	5186.51	1605.70	-4931.70	616937.50	590893.70	0.00	PBHL 244H

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)							Northing	Easting	DLS	Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N. Offset (US ft)	E. Offset (US ft)	(US ft)	(US ft)	(°/100US ft)	
0.00	0.00	0.00	0.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	
100.00	0.00	0.00	100.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	
200.00	0.00	0.00	200.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	
300.00	0.00	0.00	300.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	
400.00	0.00	0.00	400.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	
500.00	0.00	0.00	500.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	
600.00	0.00	0.00	600.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	
700.00	0.00	0.00	700.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	
800.00	0.00	0.00	800.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	
900.00	0.00	0.00	900.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	
1000.00	0.00	0.00	1000.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	
1100.00	0.00	0.00	1100.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	
1200.00	0.00	0.00	1200.00	0.00	-0.00	0.00	615331.80	595825.40	0.00	Nudge
1300.00	1.00	10.62	1299.99	0.11	0.86	0.16	615332.66	595825.56	1.00	
1400.00	2.00	10.62	1399.96	0.45	3.43	0.64	615335.23	595826.04	1.00	
1500.00	3.00	10.62	1499.86	1.01	7.72	1.45	615339.52	595826.85	1.00	
1600.00	4.00	10.62	1599.68	1.80	13.72	2.57	615345.52	595827.97	1.00	
1700.00	5.00	10.62	1699.37	2.81	21.43	4.02	615353.23	595829.42	1.00	
1800.00	6.00	10.62	1798.90	4.05	30.85	5.78	615362.65	595831.18	1.00	
1900.00	7.00	10.62	1898.26	5.51	41.98	7.87	615373.78	595833.27	1.00	
2000.00	8.00	10.62	1997.40	7.19	54.80	10.28	615386.60	595835.68	1.00	
2100.00	9.00	10.62	2096.30	9.10	69.33	13.00	615401.13	595838.40	1.00	
2100.11	9.00	10.62	2096.41	9.10	69.35	13.00	615401.15	595838.40	0.00	Hold
2200.00	9.00	10.62	2195.07	11.12	84.71	15.88	615416.51	595841.28	0.00	
2300.00	9.00	10.62	2293.84	13.13	100.09	18.77	615431.89	595844.17	0.00	
2400.00	9.00	10.62	2392.61	15.15	115.46	21.65	615447.26	595847.05	0.00	
2500.00	9.00	10.62	2491.38	17.17	130.84	24.53	615462.64	595849.93	0.00	
2600.00	9.00	10.62	2590.15	19.19	146.22	27.42	615478.02	595852.82	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
2700.00	9.00	10.62	2688.91	21.21	161.60	30.30	615493.40	595855.70	0.00	
2800.00	9.00	10.62	2787.68	23.22	176.97	33.18	615508.77	595858.58	0.00	
2900.00	9.00	10.62	2886.45	25.24	192.35	36.07	615524.15	595861.47	0.00	
3000.00	9.00	10.62	2985.22	27.26	207.73	38.95	615539.53	595864.35	0.00	
3100.00	9.00	10.62	3083.99	29.28	223.11	41.83	615554.91	595867.23	0.00	
3200.00	9.00	10.62	3182.76	31.29	238.48	44.72	615570.28	595870.12	0.00	
3300.00	9.00	10.62	3281.53	33.31	253.86	47.60	615585.66	595873.00	0.00	
3400.00	9.00	10.62	3380.29	35.33	269.24	50.48	615601.04	595875.88	0.00	
3500.00	9.00	10.62	3479.06	37.35	284.62	53.37	615616.42	595878.77	0.00	
3600.00	9.00	10.62	3577.83	39.37	299.99	56.25	615631.79	595881.65	0.00	
3700.00	9.00	10.62	3676.60	41.38	315.37	59.13	615647.17	595884.53	0.00	
3800.00	9.00	10.62	3775.37	43.40	330.75	62.02	615662.55	595887.42	0.00	
3900.00	9.00	10.62	3874.14	45.42	346.13	64.90	615677.93	595890.30	0.00	
4000.00	9.00	10.62	3972.91	47.44	361.50	67.78	615693.30	595893.18	0.00	
4100.00	9.00	10.62	4071.67	49.46	376.88	70.67	615708.68	595896.07	0.00	
4200.00	9.00	10.62	4170.44	51.47	392.26	73.55	615724.06	595898.95	0.00	
4300.00	9.00	10.62	4269.21	53.49	407.64	76.43	615739.44	595901.83	0.00	
4400.00	9.00	10.62	4367.98	55.51	423.01	79.31	615754.81	595904.71	0.00	
4500.00	9.00	10.62	4466.75	57.53	438.39	82.20	615770.19	595907.60	0.00	
4600.00	9.00	10.62	4565.52	59.54	453.77	85.08	615785.57	595910.48	0.00	
4700.00	9.00	10.62	4664.29	61.56	469.15	87.96	615800.95	595913.36	0.00	
4800.00	9.00	10.62	4763.05	63.58	484.52	90.85	615816.32	595916.25	0.00	
4900.00	9.00	10.62	4861.82	65.60	499.90	93.73	615831.70	595919.13	0.00	
5000.00	9.00	10.62	4960.59	67.62	515.28	96.61	615847.08	595922.01	0.00	
5100.00	9.00	10.62	5059.36	69.63	530.65	99.50	615862.45	595924.90	0.00	
5200.00	9.00	10.62	5158.13	71.65	546.03	102.38	615877.83	595927.78	0.00	
5300.00	9.00	10.62	5256.90	73.67	561.41	105.26	615893.21	595930.66	0.00	
5400.00	9.00	10.62	5355.66	75.69	576.79	108.15	615908.59	595933.55	0.00	
5500.00	9.00	10.62	5454.43	77.71	592.16	111.03	615923.96	595936.43	0.00	
5600.00	9.00	10.62	5553.20	79.72	607.54	113.91	615939.34	595939.31	0.00	
5700.00	9.00	10.62	5651.97	81.74	622.92	116.80	615954.72	595942.20	0.00	
5800.00	9.00	10.62	5750.74	83.76	638.30	119.68	615970.10	595945.08	0.00	
5880.34	9.00	10.62	5830.09	85.38	650.65	122.00	615982.45	595947.40	0.00	Drop
5900.00	8.80	10.62	5849.51	85.77	653.64	122.56	615985.44	595947.96	1.00	
6000.00	7.80	10.62	5948.46	87.64	667.84	125.22	615999.64	595950.62	1.00	
6100.00	6.80	10.62	6047.65	89.27	680.33	127.56	616012.13	595952.96	1.00	
6200.00	5.80	10.62	6147.04	90.69	691.13	129.59	616022.93	595954.99	1.00	
6300.00	4.80	10.62	6246.61	91.88	700.21	131.29	616032.01	595956.69	1.00	
6400.00	3.80	10.62	6346.33	92.85	707.59	132.67	616039.39	595958.07	1.00	
6500.00	2.80	10.62	6446.16	93.59	713.26	133.74	616045.06	595959.14	1.00	
6600.00	1.80	10.62	6546.08	94.11	717.21	134.48	616049.01	595959.88	1.00	
6700.00	0.80	10.62	6646.05	94.41	719.44	134.90	616051.24	595960.30	1.00	
6780.45	0.00	0.00	6726.50	94.48	720.00	135.00	616051.80	595960.40	1.00	Hold
6800.00	0.00	0.00	6746.05	94.48	720.00	135.00	616051.80	595960.40	0.00	
6900.00	0.00	0.00	6846.05	94.48	720.00	135.00	616051.80	595960.40	0.00	
7000.00	0.00	0.00	6946.05	94.48	720.00	135.00	616051.80	595960.40	0.00	
7040.85	0.00	0.00	6986.90	94.48	720.00	135.00	616051.80	595960.40	0.00	KOP
7100.00	7.10	315.91	7045.90	97.71	722.63	132.45	616054.43	595957.85	12.00	
7200.00	19.10	315.91	7143.12	117.71	738.88	116.72	616070.68	595942.12	12.00	
7300.00	31.10	315.91	7233.51	155.13	769.29	87.26	616101.09	595912.66	12.00	
7400.00	43.10	315.91	7313.13	208.35	812.53	45.37	616144.33	595870.77	12.00	
7500.00	55.10	315.91	7378.49	275.04	866.72	-7.13	616198.52	595818.27	12.00	
7600.00	67.10	315.91	7426.73	352.28	929.49	-67.93	616261.29	595757.47	12.00	
7700.00	79.10	315.91	7455.75	436.70	998.09	-134.38	616329.89	595691.02	12.00	
7794.33	90.42	315.91	7464.35	519.60	1065.45	-199.63	616397.25	595625.77	12.00	LP/Turn
7800.00	90.42	315.74	7464.31	524.61	1069.51	-203.58	616401.31	595621.82	3.00	
7900.00	90.42	312.74	7463.58	614.32	1139.27	-275.21	616471.07	595550.19	3.00	
8000.00	90.43	309.74	7462.83	706.21	1205.18	-350.39	616536.98	595475.01	3.00	
8100.00	90.43	306.74	7462.08	800.04	1267.07	-428.92	616598.87	595396.48	3.00	

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Drill Floor)							Northing	Easting	DLS	Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	VS (US ft)	N.Offset (US ft)	E.Offset (US ft)	(US ft)	(US ft)	(°/100US ft)	
8200.00	90.44	303.74	7461.32	895.55	1324.76	-510.59	616656.56	595314.81	3.00	
8300.00	90.44	300.74	7460.56	992.48	1378.10	-595.16	616709.90	595230.24	3.00	
8400.00	90.44	297.74	7459.79	1090.55	1426.94	-682.40	616758.74	595143.00	3.00	
8500.00	90.44	294.74	7459.03	1189.51	1471.15	-772.09	616802.95	595053.31	3.00	
8600.00	90.43	291.74	7458.27	1289.09	1510.60	-863.96	616842.40	594961.44	3.00	
8700.00	90.43	288.74	7457.52	1389.00	1545.19	-957.77	616876.99	594867.63	3.00	
8800.00	90.43	285.74	7456.77	1488.97	1574.82	-1053.27	616906.62	594772.13	3.00	
8900.00	90.42	282.74	7456.03	1588.74	1599.41	-1150.18	616931.21	594675.22	3.00	
8904.27	90.42	282.61	7456.00	1593.00	1600.35	-1154.35	616932.15	594671.05	3.00	Build/Turn
9000.00	91.47	279.94	7454.42	1688.04	1619.06	-1248.21	616950.86	594577.19	3.00	
9100.00	92.56	277.14	7450.91	1786.59	1633.89	-1347.03	616965.69	594478.37	3.00	
9200.00	93.64	274.34	7445.51	1884.15	1643.87	-1446.37	616975.67	594379.03	3.00	
9300.00	94.71	271.53	7438.22	1980.43	1648.98	-1545.96	616980.78	594279.44	3.00	
9400.00	95.78	268.71	7429.08	2075.17	1649.18	-1645.53	616980.98	594179.87	3.00	
9437.19	96.17	267.66	7425.21	2109.97	1648.01	-1682.50	616979.81	594142.90	3.00	Drop/Turn
9500.00	95.77	268.86	7418.67	2168.75	1646.12	-1744.94	616977.92	594080.46	2.00	
9521.79	95.63	269.27	7416.51	2189.26	1645.76	-1766.62	616977.56	594058.78	2.00	Hold
9600.00	95.63	269.27	7408.83	2262.95	1644.77	-1844.44	616976.57	593980.96	0.00	
9700.00	95.63	269.27	7399.02	2357.19	1643.51	-1943.95	616975.31	593881.45	0.00	
9800.00	95.63	269.27	7389.20	2451.42	1642.25	-2043.46	616974.05	593781.94	0.00	
9900.00	95.63	269.27	7379.39	2545.65	1640.99	-2142.97	616972.79	593682.43	0.00	
10000.00	95.63	269.27	7369.58	2639.88	1639.72	-2242.48	616971.52	593582.92	0.00	
10016.05	95.63	269.27	7368.00	2655.00	1639.52	-2258.45	616971.32	593566.95	0.00	2655'VS
10100.00	93.95	269.27	7360.99	2734.22	1638.46	-2342.10	616970.26	593483.30	2.00	
10200.00	91.95	269.28	7355.83	2828.78	1637.20	-2441.95	616969.00	593383.45	2.00	
10224.29	91.47	269.28	7355.11	2851.76	1636.89	-2466.23	616968.69	593359.17	2.00	Hold
10300.00	91.47	269.28	7353.17	2923.43	1635.93	-2541.91	616967.73	593283.49	0.00	
10400.00	91.47	269.28	7350.61	3018.09	1634.67	-2641.87	616966.47	593183.53	0.00	
10500.00	91.47	269.28	7348.05	3112.75	1633.41	-2741.83	616965.21	593083.57	0.00	
10600.00	91.47	269.28	7345.49	3207.41	1632.14	-2841.79	616963.94	592983.61	0.00	
10700.00	91.47	269.28	7342.92	3302.07	1630.88	-2941.75	616962.68	592883.65	0.00	
10800.00	91.47	269.28	7340.36	3396.73	1629.62	-3041.70	616961.42	592783.70	0.00	
10900.00	91.47	269.28	7337.80	3491.39	1628.35	-3141.66	616960.15	592683.74	0.00	
11000.00	91.47	269.28	7335.24	3586.05	1627.09	-3241.62	616958.89	592583.78	0.00	
11100.00	91.47	269.28	7332.68	3680.71	1625.83	-3341.58	616957.63	592483.82	0.00	
11200.00	91.47	269.28	7330.12	3775.37	1624.56	-3441.54	616956.36	592383.86	0.00	
11300.00	91.47	269.28	7327.56	3870.03	1623.30	-3541.50	616955.10	592283.90	0.00	
11400.00	91.47	269.28	7325.00	3964.69	1622.04	-3641.46	616953.84	592183.94	0.00	
11500.00	91.47	269.28	7322.43	4059.35	1620.77	-3741.42	616952.57	592083.98	0.00	
11506.14	91.47	269.28	7322.28	4065.16	1620.69	-3747.56	616952.49	592077.84	0.00	Build
11600.00	93.34	269.27	7318.34	4153.95	1619.51	-3841.32	616951.31	591984.08	2.00	
11649.79	94.34	269.27	7315.00	4201.00	1618.88	-3891.00	616950.68	591934.40	2.00	4201'VS
11700.00	94.34	269.27	7311.20	4248.40	1618.25	-3941.06	616950.05	591884.34	0.00	
11800.00	94.34	269.27	7303.63	4342.82	1616.98	-4040.76	616948.78	591784.64	0.00	
11900.00	94.34	269.27	7296.06	4437.24	1615.72	-4140.47	616947.52	591684.93	0.00	
12000.00	94.34	269.27	7288.49	4531.66	1614.46	-4240.17	616946.26	591585.23	0.00	
12100.00	94.34	269.27	7280.93	4626.07	1613.20	-4339.88	616945.00	591485.52	0.00	
12200.00	94.34	269.27	7273.36	4720.49	1611.93	-4439.58	616943.73	591385.82	0.00	
12300.00	94.34	269.27	7265.79	4814.91	1610.67	-4539.29	616942.47	591286.11	0.00	
12400.00	94.34	269.27	7258.22	4909.33	1609.41	-4638.99	616941.21	591186.41	0.00	
12500.00	94.34	269.27	7250.65	5003.75	1608.14	-4738.70	616939.94	591086.70	0.00	
12600.00	94.34	269.27	7243.08	5098.17	1606.88	-4838.40	616938.68	590987.00	0.00	
12693.57	94.34	269.27	7236.00	5186.51	1605.70	-4931.70	616937.50	590893.70	0.00	PBHL 244H



5D Anti-Collision Report

Apache Corporation

Field Name: *Apache NM (Nad 83 NMEZ)*

Site Name: *Palmillo 3 State Com (356,244,243,354) Pad*

Well Name: *Palmillo 3 State Com 244H*

25 November 2019



Weatherford®



Palmillo 3 State Com 244H

Field Name: Apache NM (Nad 83 NMEZ)	Map Units: US ft Vertical Reference Datum (VRD): Mean Sea Level Projected Coordinate System: NAD83 / New Mexico East (ftUS) Comment:	Company Name: Apache Corporation
Site: Palmillo 3 State Com (356,244,243,354) Pad	Units: US ft North Reference: Grid Position: Northing: 615361.80 US ft Easting: 595825.60 US ft Elevation above MSL: 3484.00 US ft Comment: Eddy Co., NM	Convergence Angle: 0.10 Latitude: 32.691547774 Longitude: -104.156216364
Slot: Palmillo 3 State Com 244H	Position (Relative to Site Centre) +N/-S: 30.00 US ft Northing: 615331.80 US ft Latitude: 32.691465315 +E/-W: -0.20 US ft Easting: 595825.40 US ft Longitude: -104.156217176 Slot TVD Reference: Ground Elevation Elevation above MSL: 3483.00 US ft Comment:	
Well: Palmillo 3 State Com 244H	Type: Main well File Number: Comment: Closure Distance: 5186.51 US ft Vertical Section: Position of Origin (Relative to Slot centre) + N/-S: -0.00 US ft + E/-W: 0.00 US ft Magnetic Parameters: Model: bggm2019 Field Strength: 47870.9 nT	UWI: Plan: P1:V4 Closure Azimuth: 288.03° Az: 288.03° Declination: 7.19° Dip: 60.40° Date: 25/Dec/2019
Drill floor: Plan: P1:V4 Rig Height (Drill Floor): 26.00 US ft Elevation above MSL: 3509.00 US ft Inclination: 0.00° Azimuth: 0.00°		

5D Anti-Collision Report

Anti-Collision Analysis Criteria			
Primary Well		Palmillo 3 State Com 244H (p)	
Depth Range	0.00 - 12693.57 US ft	Analysis Interval	100.00US ft
Orientation of Ellipsoid dimensions	Wellbore (High Side, Lateral, Along Hole)	AC Filter Info:	Separation Factor: 5
Separation Factor Method	STANDARD	Uncertainties computed at	2σ
Analysis Method	Vector Separation	Ellipsoid Combination Method	Independent
Surface uncertainty	Not Applied		
Secondary Well Names:		Palmillo 3 State Com 243H (p), Palmillo 3 State Com 354H (p), Palmillo 3 State Com 356H (p)	

Report Terminology	
Ellipsoid Parameters	
TVD Spread:	Dimension in the TVD Direction.
Ellipse Parameters	
S.Minor, S.Major:	Dimensions of the bounding ellipse in the High Side, Lateral plane.
PHI:	Angle between HS and S.Minor axes.
AC Parameters	
ES:	Distance between the extremities of the primary and secondary uncertainty ellipsoids in the direction Cr-Cr.
CC:	3D closest approach distance from a point on the primary well to the secondary well.
T.Face to Sec:	Angle between the Hi-Side vector of the primary well at the current location and line of closest approach between the two wells.

Survey Tool Ranges: (Using Anticipated Survey Programme)			
Name	Start MD(USft)	End MD(USft)	Source Survey
MWD + IFR1_OW2	0.00	6858.85	ASP
MWD+IFR1+SAG+FDIR	6858.85	12513.63	ASP
MWD	12513.63	12693.57	Default Tool

Wellpath created using minimum curvature.

Anti-Collision Summary (TVD relative to Drill Floor)								
SF								
Secondary Well Name	Pri MD (US ft)	Pri TVD (US ft)	Sec MD (US ft)	Sec TVD (US ft)	ES (US ft)	CC (US ft)	SF	Risk
Palmillo 3 State Com 243H (p)	1716.80	1716.10	1720.60	1716.70	7.97	18.47	1.76	SF(Lo); CC (Med)
Palmillo 3 State Com 356H (p)	7392.38	7307.53	7379.27	7307.53	66.38	117.64	2.29	SF(Lo)
Palmillo 3 State Com 354H (p)	1855.27	1853.84	1861.81	1856.87	36.02	49.65	3.64	
CC								
Secondary Well Name	Pri MD (US ft)	Pri TVD (US ft)	Sec MD (US ft)	Sec TVD (US ft)	ES (US ft)	CC (US ft)	SF	Risk
Palmillo 3 State Com 243H (p)	1635.16	1634.74	1638.94	1635.62	8.03	18.02	1.80	SF(Lo); CC (Med)
Palmillo 3 State Com 356H (p)	0.00	0.00	1.00	0.00	29.27	30.00	40.93	
Palmillo 3 State Com 354H (p)	1704.10	1703.45	1710.79	1706.97	35.03	47.55	3.80	

Range Summary						
Secondary Well Name: Palmillo 3 State Com 243H (p)						
SF			CC			
Start MD (US ft)	End MD (US ft)	Risk	Start MD (US ft)	End MD (US ft)	Risk	
1400.00	2200.00	SF (Lo)	1100.00	1400.00	CC (Lo)	
			1500.00	1800.00	CC (Med)	
			1900.00	2100.00	CC (Lo)	
Secondary Well Name: Palmillo 3 State Com 356H (p)						
SF						
Start MD (US ft)	End MD (US ft)	Risk				
7400.00	7400.00	SF (Lo)				

5D Anti-Collision Report

Primary Well: Palmillo 3 State Com 244H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Inc (°)	Az (°)	Pri TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	ES (US ft)	CC (US ft)	SF	Nearest Well	Risk
800.00	0.00	0.00	800.00	2.69	2.69	0.38	23.89	30.00	4.91	Palmillo 3 State Com 356H (p)	
900.00	0.00	0.00	900.00	3.05	3.05	0.38	23.17	30.00	4.39	Palmillo 3 State Com 356H (p)	
1000.00	0.00	0.00	1000.00	3.41	3.41	0.38	22.46	30.00	3.98	Palmillo 3 State Com 356H (p)	
1100.00	0.00	0.00	1100.00	3.76	3.76	0.63	22.62	30.88	3.74	Palmillo 3 State Com 356H (p)	
1100.00	0.00	0.00	1100.00	3.76	3.76	180.03	22.31	29.17	4.25	Palmillo 3 State Com 243H (p)	CC (Lo)
1200.00	0.00	0.00	1200.00	4.12	4.12	177.64	19.34	26.77	3.60	Palmillo 3 State Com 243H (p)	CC (Lo)
1300.00	1.00	10.62	1299.99	4.48	4.48	162.64	15.75	23.76	2.97	Palmillo 3 State Com 243H (p)	CC (Lo)
1400.00	2.00	10.62	1399.96	4.84	4.84	156.01	12.55	21.14	2.46	Palmillo 3 State Com 243H (p)	SF(Lo); CC (Lo)
1500.00	3.00	10.62	1499.86	5.19	5.19	146.67	9.97	19.14	2.09	Palmillo 3 State Com 243H (p)	SF(Lo); CC (Med)
1600.00	4.00	10.62	1599.67	5.55	5.55	134.69	8.33	18.10	1.85	Palmillo 3 State Com 243H (p)	SF(Lo); CC (Med)
1700.00	5.00	10.62	1699.36	5.91	5.90	121.30	7.91	18.30	1.76	Palmillo 3 State Com 243H (p)	SF(Lo); CC (Med)
1716.80	5.17	10.62	1716.10	5.97	5.96	119.07	7.97	18.47	1.76	Palmillo 3 State Com 243H (p)	SF(Lo); CC (Med)
1800.00	6.00	10.62	1798.90	6.27	6.25	108.62	8.84	19.87	1.80	Palmillo 3 State Com 243H (p)	SF(Lo); CC (Med)
1900.00	7.00	10.62	1898.26	6.62	6.60	100.53	10.94	22.60	1.94	Palmillo 3 State Com 243H (p)	SF(Lo); CC (Lo)
2000.00	8.00	10.62	1997.40	6.98	6.95	98.12	13.57	25.87	2.10	Palmillo 3 State Com 243H (p)	SF(Lo); CC (Lo)
2100.00	9.00	10.62	2096.30	7.34	7.30	99.62	16.47	29.41	2.27	Palmillo 3 State Com 243H (p)	SF(Lo); CC (Lo)
2200.00	9.00	10.62	2195.07	7.70	7.66	102.32	19.54	33.15	2.44	Palmillo 3 State Com 243H (p)	SF(Lo)
2300.00	9.00	10.62	2293.84	8.07	8.02	104.46	22.67	36.95	2.59	Palmillo 3 State Com 243H (p)	
2400.00	9.00	10.62	2392.61	8.43	8.39	106.21	25.84	40.78	2.73	Palmillo 3 State Com 243H (p)	
2500.00	9.00	10.62	2491.38	8.79	8.76	107.65	29.04	44.65	2.86	Palmillo 3 State Com 243H (p)	
2600.00	9.00	10.62	2590.14	9.16	9.12	108.86	32.26	48.54	2.98	Palmillo 3 State Com 243H (p)	
2700.00	9.00	10.62	2688.91	9.53	9.49	109.89	35.49	52.45	3.09	Palmillo 3 State Com 243H (p)	
2800.00	9.00	10.62	2787.68	9.90	9.86	110.78	38.74	56.38	3.20	Palmillo 3 State Com 243H (p)	
2900.00	9.00	10.62	2886.45	10.26	10.23	111.55	41.99	60.32	3.29	Palmillo 3 State Com 243H (p)	
3000.00	9.00	10.62	2985.22	10.63	10.59	112.23	45.26	64.26	3.38	Palmillo 3 State Com 243H (p)	
3100.00	9.00	10.62	3083.99	11.00	10.96	112.83	48.53	68.22	3.47	Palmillo 3 State Com 243H (p)	

5D Anti-Collision Report

Primary Well: Palmillo 3 State Com 244H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Inc (°)	Az (°)	Pri TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	ES (US ft)	CC (US ft)	SF	Nearest Well	Risk
3200.00	9.00	10.62	3182.76	11.37	11.33	113.36	51.81	72.18	3.54	Palmillo 3 State Com 243H (p)	
3300.00	9.00	10.62	3281.53	11.74	11.70	350.98	61.31	85.00	3.59	Palmillo 3 State Com 243H (p)	
3300.00	9.00	10.62	3281.53	11.74	11.70	113.92	55.12	76.16	3.62	Palmillo 3 State Com 356H (p)	
3400.00	9.00	10.62	3380.29	12.11	12.07	350.86	62.36	86.79	3.55	Palmillo 3 State Com 243H (p)	
3400.00	9.00	10.62	3380.29	12.11	12.07	115.38	58.77	80.41	3.72	Palmillo 3 State Com 356H (p)	
3500.00	9.00	10.62	3479.06	12.48	12.44	350.76	63.40	88.58	3.52	Palmillo 3 State Com 243H (p)	
3500.00	9.00	10.62	3479.06	12.48	12.44	117.82	62.90	85.11	3.83	Palmillo 3 State Com 356H (p)	
3600.00	9.00	10.62	3577.83	12.86	12.82	350.66	64.44	90.37	3.49	Palmillo 3 State Com 243H (p)	
3700.00	9.00	10.62	3676.60	13.23	13.19	350.56	65.48	92.16	3.45	Palmillo 3 State Com 356H (p)	
3800.00	9.00	10.62	3775.37	13.60	13.56	350.46	66.52	93.95	3.43	Palmillo 3 State Com 356H (p)	
3900.00	9.00	10.62	3874.14	13.97	13.93	350.37	67.56	95.74	3.40	Palmillo 3 State Com 356H (p)	
4000.00	9.00	10.62	3972.91	14.35	14.30	350.29	68.60	97.53	3.37	Palmillo 3 State Com 356H (p)	
4100.00	9.00	10.62	4071.67	14.72	14.67	350.20	69.64	99.32	3.35	Palmillo 3 State Com 356H (p)	
4200.00	9.00	10.62	4170.44	15.09	15.05	350.12	70.67	101.11	3.32	Palmillo 3 State Com 356H (p)	
4300.00	9.00	10.62	4269.21	15.46	15.42	350.04	71.71	102.90	3.30	Palmillo 3 State Com 356H (p)	
4400.00	9.00	10.62	4367.98	15.84	15.79	349.97	72.75	104.69	3.28	Palmillo 3 State Com 356H (p)	
4500.00	9.00	10.62	4466.75	16.21	16.16	349.89	73.79	106.48	3.26	Palmillo 3 State Com 356H (p)	
4600.00	9.00	10.62	4565.52	16.59	16.53	349.82	74.83	108.27	3.24	Palmillo 3 State Com 356H (p)	
4700.00	9.00	10.62	4664.29	16.96	16.91	349.75	75.86	110.06	3.22	Palmillo 3 State Com 356H (p)	
4800.00	9.00	10.62	4763.05	17.33	17.28	349.69	76.90	111.85	3.20	Palmillo 3 State Com 356H (p)	
4900.00	9.00	10.62	4861.82	17.71	17.65	349.62	77.94	113.64	3.18	Palmillo 3 State Com 356H (p)	
5000.00	9.00	10.62	4960.59	18.08	18.03	349.56	78.98	115.44	3.17	Palmillo 3 State Com 356H (p)	
5100.00	9.00	10.62	5059.36	18.46	18.40	349.50	80.01	117.23	3.15	Palmillo 3 State Com 356H (p)	
5200.00	9.00	10.62	5158.13	18.83	18.77	349.44	81.05	119.02	3.13	Palmillo 3 State Com 356H (p)	
5300.00	9.00	10.62	5256.90	19.21	19.15	349.39	82.09	120.81	3.12	Palmillo 3 State Com 356H (p)	

5D Anti-Collision Report

Primary Well: Palmillo 3 State Com 244H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)											
Pri MD (US ft)	Inc (°)	Az (°)	Pri TVD (US ft)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	ES (US ft)	CC (US ft)	SF	Nearest Well	Risk
5400.00	9.00	10.62	5355.66	19.58	19.52	349.33	83.12	122.60	3.11	Palmillo 3 State Com 356H (p)	
5500.00	9.00	10.62	5454.43	19.95	19.89	349.28	84.16	124.40	3.09	Palmillo 3 State Com 356H (p)	
5600.00	9.00	10.62	5553.20	20.33	20.27	349.23	85.20	126.19	3.08	Palmillo 3 State Com 356H (p)	
5700.00	9.00	10.62	5651.97	20.70	20.64	349.17	86.23	127.98	3.07	Palmillo 3 State Com 356H (p)	
5800.00	9.00	10.62	5750.74	21.08	21.01	349.13	87.27	129.77	3.05	Palmillo 3 State Com 356H (p)	
5900.00	8.80	10.62	5849.51	21.45	21.39	349.08	88.34	131.60	3.04	Palmillo 3 State Com 356H (p)	
6000.00	7.80	10.62	5948.46	21.83	21.77	349.13	90.56	134.58	3.06	Palmillo 3 State Com 356H (p)	
6100.00	6.80	10.62	6047.65	22.20	22.15	349.24	93.32	138.33	3.07	Palmillo 3 State Com 356H (p)	
6200.00	5.80	10.62	6147.04	22.56	22.51	349.37	96.14	142.03	3.10	Palmillo 3 State Com 356H (p)	
6300.00	4.80	10.62	6246.61	22.93	22.87	349.50	99.03	145.69	3.12	Palmillo 3 State Com 356H (p)	
6400.00	3.80	10.62	6346.33	23.29	23.21	349.64	101.98	149.29	3.16	Palmillo 3 State Com 356H (p)	
6500.00	2.80	10.62	6446.16	23.64	23.55	349.79	104.98	152.84	3.19	Palmillo 3 State Com 356H (p)	
6600.00	1.80	10.62	6546.08	24.00	23.88	349.95	108.04	156.34	3.24	Palmillo 3 State Com 356H (p)	
6700.00	0.80	10.62	6646.05	24.34	24.20	350.11	111.14	159.78	3.28	Palmillo 3 State Com 356H (p)	
6800.00	0.00	0.00	6746.05	24.69	24.52	0.90	114.25	163.14	3.34	Palmillo 3 State Com 356H (p)	
6900.00	0.00	0.00	6846.05	24.96	24.79	1.01	116.44	165.29	3.38	Palmillo 3 State Com 356H (p)	
7000.00	0.00	0.00	6946.05	24.97	24.80	1.04	116.93	165.73	3.40	Palmillo 3 State Com 356H (p)	
7100.00	7.10	315.91	7045.90	24.98	24.83	46.26	113.96	163.17	3.32	Palmillo 3 State Com 356H (p)	
7200.00	19.10	315.91	7143.12	24.98	24.16	53.89	98.77	148.36	2.99	Palmillo 3 State Com 356H (p)	
7300.00	31.10	315.91	7233.51	25.02	22.57	70.60	76.88	126.99	2.53	Palmillo 3 State Com 356H (p)	
7392.38	42.18	315.91	7307.53	25.09	20.42	92.43	66.38	117.64	2.29	Palmillo 3 State Com 356H (p)	SF(Lo)
7400.00	43.10	315.91	7313.13	25.09	20.22	94.23	66.65	118.05	2.30	Palmillo 3 State Com 356H (p)	SF(Lo)
7500.00	55.10	315.91	7378.49	25.19	17.29	113.05	93.46	146.36	2.77	Palmillo 3 State Com 356H (p)	
7600.00	67.10	315.91	7426.73	25.34	14.12	120.07	157.15	210.53	3.94	Palmillo 3 State Com 356H (p)	

5D Anti-Collision Report

Secondary Well: Palmillo 3 State Com 243H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)												
Pri MD (US ft)	Sec MD (US ft)	Sec TVD (US ft)	Pri TVD (US ft)	Inc (°)	Az (°)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	ES (US ft)	CC (US ft)	SF	Risk
1000.00	1002.01	1000.01	1000.00	0.02	24.70	2.14	2.14	180.76	23.73	30.00	4.78	
1100.00	1102.48	1100.47	1100.00	1.02	24.70	2.36	2.36	180.03	22.31	29.17	4.25	CC (Lo)
1200.00	1202.89	1200.84	1200.00	2.03	24.70	2.59	2.59	177.64	19.34	26.77	3.60	CC (Lo)
1300.00	1303.21	1301.07	1299.99	3.03	24.70	2.81	2.81	162.64	15.75	23.76	2.97	CC (Lo)
1400.00	1403.46	1401.13	1399.96	4.03	24.70	3.04	3.03	156.01	12.55	21.14	2.46	SF(Lo); CC (Lo)
1500.00	1503.65	1501.00	1499.86	5.04	24.70	3.27	3.26	146.67	9.97	19.14	2.09	SF(Lo); CC (Med)
1600.00	1603.76	1600.65	1599.67	6.04	24.70	3.52	3.48	134.69	8.33	18.10	1.85	SF(Lo); CC (Med)
1700.00	1703.80	1700.03	1699.36	7.04	24.70	3.77	3.70	121.30	7.91	18.30	1.76	SF(Lo); CC (Med)
1716.80	1720.60	1716.70	1716.10	7.21	24.70	3.81	3.74	119.07	7.97	18.47	1.76	SF(Lo); CC (Med)
1800.00	1803.76	1799.13	1798.90	8.00	24.70	4.03	3.93	108.62	8.84	19.87	1.80	SF(Lo); CC (Med)
1900.00	1903.68	1898.07	1898.26	8.00	24.70	4.31	4.16	100.53	10.94	22.60	1.94	SF(Lo); CC (Lo)
2000.00	2003.62	1997.04	1997.40	8.00	24.70	4.59	4.39	98.12	13.57	25.87	2.10	SF(Lo); CC (Lo)
2100.00	2103.55	2096.00	2096.30	8.00	24.70	4.88	4.63	99.62	16.47	29.41	2.27	SF(Lo); CC (Lo)
2200.00	2203.47	2194.94	2195.07	8.00	24.70	5.18	4.86	102.32	19.54	33.15	2.44	SF(Lo)
2300.00	2303.39	2293.89	2293.84	8.00	24.70	5.48	5.10	104.46	22.67	36.95	2.59	
2400.00	2403.31	2392.83	2392.61	8.00	24.70	5.78	5.34	106.21	25.84	40.78	2.73	
2500.00	2503.23	2491.78	2491.38	8.00	24.70	6.09	5.57	107.65	29.04	44.65	2.86	
2600.00	2603.14	2590.73	2590.14	8.00	24.70	6.40	5.81	108.86	32.26	48.54	2.98	
2700.00	2703.06	2689.67	2688.91	8.00	24.70	6.71	6.05	109.89	35.49	52.45	3.09	
2800.00	2802.98	2788.62	2787.68	8.00	24.70	7.02	6.29	110.78	38.74	56.38	3.20	
2900.00	2902.91	2887.57	2886.45	8.00	24.70	7.34	6.53	111.55	41.99	60.32	3.29	
3000.00	3002.83	2986.51	2985.22	8.00	24.70	7.65	6.77	112.23	45.26	64.26	3.38	
3100.00	3102.74	3085.46	3083.99	8.00	24.70	7.97	7.01	112.83	48.53	68.22	3.47	
3200.00	3202.66	3184.41	3182.76	8.00	24.70	8.29	7.25	113.36	51.81	72.18	3.54	
3300.00	3302.50	3283.29	3281.53	7.65	24.70	8.60	7.49	113.92	55.12	76.16	3.62	
3400.00	3402.14	3382.15	3380.29	6.66	24.70	8.85	7.68	115.38	58.77	80.41	3.72	
3500.00	3501.65	3481.08	3479.06	5.66	24.70	9.08	7.86	117.82	62.90	85.11	3.83	
3600.00	3600.98	3580.00	3577.83	4.67	24.70	9.31	8.05	121.06	67.69	90.45	3.97	
3700.00	3700.06	3678.82	3676.60	3.68	24.70	9.52	8.23	124.87	73.39	96.65	4.16	
3800.00	3798.84	3777.45	3775.37	2.69	24.70	9.72	8.41	129.07	80.23	103.94	4.38	
3900.00	3897.26	3875.80	3874.14	1.71	24.70	9.90	8.58	133.45	88.45	112.57	4.67	

Secondary Well: Palmillo 3 State Com 354H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)												
Pri MD (US ft)	Sec MD (US ft)	Sec TVD (US ft)	Pri TVD (US ft)	Inc (°)	Az (°)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	ES (US ft)	CC (US ft)	SF	Risk
1400.00	1405.19	1402.85	1399.96	4.05	30.73	4.85	4.84	162.63	41.18	51.56	4.96	
1500.00	1505.79	1503.13	1499.86	5.06	30.73	5.21	5.20	158.52	38.46	49.54	4.47	
1600.00	1606.30	1603.17	1599.67	6.06	30.73	5.57	5.55	153.49	36.37	48.15	4.09	
1700.00	1706.69	1702.90	1699.36	7.00	30.73	5.93	5.90	147.66	35.06	47.55	3.81	
1800.00	1806.59	1802.05	1798.90	7.00	30.73	6.29	6.26	142.28	35.19	48.42	3.66	
1900.00	1906.50	1901.22	1898.26	7.00	30.73	6.65	6.62	138.44	37.03	50.99	3.65	
2000.00	2006.40	2000.37	1997.40	7.00	30.73	7.01	6.98	136.26	40.33	55.02	3.75	
2100.00	2106.25	2099.48	2096.30	7.00	30.73	7.37	7.35	135.55	44.93	60.34	3.91	
2200.00	2206.07	2198.56	2195.07	7.00	30.73	7.74	7.71	135.53	50.15	66.29	4.11	
2300.00	2305.89	2297.64	2293.84	7.00	30.73	8.10	8.07	135.50	55.37	72.25	4.28	
2400.00	2405.72	2396.72	2392.61	7.00	30.73	8.46	8.43	135.48	60.59	78.20	4.44	
2500.00	2505.54	2495.80	2491.38	7.00	30.73	8.83	8.80	135.47	65.81	84.15	4.59	
2600.00	2605.36	2594.87	2590.14	7.00	30.73	9.19	9.16	135.45	71.03	90.10	4.73	
2700.00	2705.18	2693.95	2688.91	7.00	30.73	9.56	9.52	135.44	76.25	96.05	4.85	
2800.00	2805.01	2793.03	2787.68	7.00	30.73	9.92	9.89	135.43	81.47	102.01	4.97	

5D Anti-Collision Report

Secondary Well: Palmillo 3 State Com 356H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)												
Pri MD (US ft)	Sec MD (US ft)	Sec TVD (US ft)	Pri TVD (US ft)	Inc (°)	Az (°)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	ES (US ft)	CC (US ft)	SF	Risk
800.00	801.00	800.00	800.00	0.00	0.00	2.69	2.69	0.38	23.89	30.00	4.91	
900.00	901.00	900.00	900.00	0.00	0.00	3.05	3.05	0.38	23.17	30.00	4.39	
1000.00	1000.99	999.99	1000.00	0.01	9.15	3.41	3.41	0.38	22.46	30.00	3.98	
1100.00	1100.47	1099.46	1100.00	1.00	9.15	3.77	3.77	0.63	22.62	30.88	3.74	
1200.00	1199.88	1198.84	1200.00	2.00	9.15	4.12	4.12	1.29	24.50	33.47	3.73	
1300.00	1299.22	1298.08	1299.99	2.99	9.15	4.48	4.47	351.38	27.26	36.93	3.82	
1400.00	1398.49	1397.17	1399.96	3.98	9.15	4.83	4.83	351.90	30.03	40.38	3.90	
1500.00	1497.71	1496.08	1499.86	4.98	9.15	5.18	5.18	352.28	32.80	43.83	3.98	
1600.00	1596.86	1594.79	1599.67	5.97	9.15	5.54	5.53	352.55	35.59	47.27	4.05	
1700.00	1695.96	1693.25	1699.36	6.96	9.15	5.89	5.88	352.73	38.38	50.70	4.11	
1800.00	1795.00	1791.45	1798.90	7.95	9.15	6.25	6.22	352.84	41.17	54.13	4.18	
1900.00	1893.98	1889.36	1898.26	8.94	9.15	6.61	6.57	352.89	43.97	57.54	4.24	
2000.00	1992.91	1986.95	1997.40	9.93	9.15	6.96	6.92	352.89	46.78	60.93	4.31	
2100.00	2092.80	2085.32	2096.30	10.00	9.15	7.33	7.28	352.79	48.73	63.58	4.28	
2200.00	2192.78	2183.78	2195.07	10.00	9.15	7.69	7.65	352.59	49.79	65.36	4.20	
2300.00	2292.76	2282.24	2293.84	10.00	9.15	8.06	8.02	352.40	50.84	67.14	4.12	
2400.00	2392.75	2380.71	2392.61	10.00	9.15	8.43	8.38	352.23	51.90	68.93	4.05	
2500.00	2492.73	2479.17	2491.38	10.00	9.15	8.80	8.75	352.06	52.95	70.71	3.98	
2600.00	2592.71	2577.64	2590.14	10.00	9.15	9.17	9.12	351.90	54.00	72.49	3.92	
2700.00	2692.70	2676.10	2688.91	10.00	9.15	9.54	9.50	351.75	55.05	74.28	3.86	
2800.00	2792.68	2774.57	2787.68	10.00	9.15	9.92	9.87	351.61	56.09	76.07	3.81	
2900.00	2892.67	2873.03	2886.45	10.00	9.15	10.29	10.24	351.47	57.14	77.85	3.76	
3000.00	2992.65	2971.50	2985.22	10.00	9.15	10.66	10.61	351.34	58.18	79.64	3.71	
3100.00	3092.64	3069.96	3083.99	10.00	9.15	11.04	10.99	351.21	59.23	81.43	3.67	
3200.00	3192.62	3168.43	3182.76	10.00	9.15	11.41	11.36	351.09	60.27	83.21	3.63	
3300.00	3292.60	3266.89	3281.53	10.00	9.15	11.79	11.73	350.98	61.31	85.00	3.59	
3400.00	3392.59	3365.36	3380.29	10.00	9.15	12.16	12.11	350.86	62.36	86.79	3.55	
3500.00	3492.57	3463.82	3479.06	10.00	9.15	12.54	12.48	350.76	63.40	88.58	3.52	
3600.00	3592.56	3562.29	3577.83	10.00	9.15	12.91	12.86	350.66	64.44	90.37	3.49	
3700.00	3692.54	3660.75	3676.60	10.00	9.15	13.29	13.23	350.56	65.48	92.16	3.45	
3800.00	3792.52	3759.21	3775.37	10.00	9.15	13.67	13.61	350.46	66.52	93.95	3.43	
3900.00	3892.51	3857.68	3874.14	10.00	9.15	14.04	13.98	350.37	67.56	95.74	3.40	
4000.00	3992.49	3956.14	3972.91	10.00	9.15	14.42	14.36	350.29	68.60	97.53	3.37	
4100.00	4092.47	4054.61	4071.67	10.00	9.15	14.80	14.73	350.20	69.64	99.32	3.35	
4200.00	4192.46	4153.07	4170.44	10.00	9.15	15.18	15.11	350.12	70.67	101.11	3.32	
4300.00	4292.44	4251.54	4269.21	10.00	9.15	15.55	15.48	350.04	71.71	102.90	3.30	
4400.00	4392.43	4350.00	4367.98	10.00	9.15	15.93	15.86	349.97	72.75	104.69	3.28	
4500.00	4492.41	4448.47	4466.75	10.00	9.15	16.31	16.24	349.89	73.79	106.48	3.26	
4600.00	4592.39	4546.93	4565.52	10.00	9.15	16.69	16.61	349.82	74.83	108.27	3.24	
4700.00	4692.38	4645.40	4664.29	10.00	9.15	17.07	16.99	349.75	75.86	110.06	3.22	
4800.00	4792.36	4743.86	4763.05	10.00	9.15	17.45	17.37	349.69	76.90	111.85	3.20	
4900.00	4892.35	4842.32	4861.82	10.00	9.15	17.83	17.74	349.62	77.94	113.64	3.18	
5000.00	4992.33	4940.79	4960.59	10.00	9.15	18.20	18.12	349.56	78.98	115.44	3.17	
5100.00	5092.31	5039.25	5059.36	10.00	9.15	18.58	18.50	349.50	80.01	117.23	3.15	
5200.00	5192.30	5137.72	5158.13	10.00	9.15	18.96	18.87	349.44	81.05	119.02	3.13	
5300.00	5292.28	5236.18	5256.90	10.00	9.15	19.34	19.25	349.39	82.09	120.81	3.12	
5400.00	5392.27	5334.65	5355.66	10.00	9.15	19.72	19.63	349.33	83.12	122.60	3.11	
5500.00	5492.25	5433.11	5454.43	10.00	9.15	20.10	20.01	349.28	84.16	124.40	3.09	
5600.00	5592.23	5531.58	5553.20	10.00	9.15	20.48	20.38	349.23	85.20	126.19	3.08	
5700.00	5692.22	5630.04	5651.97	10.00	9.15	20.86	20.76	349.17	86.23	127.98	3.07	
5800.00	5792.20	5728.51	5750.74	10.00	9.15	21.24	21.14	349.13	87.27	129.77	3.05	
5900.00	5892.18	5826.97	5849.51	10.00	9.15	21.62	21.52	349.08	88.34	131.60	3.04	
6000.00	5992.23	5925.50	5948.46	9.96	9.15	22.00	21.89	349.13	90.56	134.58	3.06	
6100.00	6094.57	6026.44	6047.65	8.94	9.15	22.39	22.29	349.24	93.32	138.33	3.07	
6200.00	6196.97	6127.74	6147.04	7.91	9.15	22.77	22.68	349.37	96.14	142.03	3.10	
6300.00	6299.44	6229.36	6246.61	6.89	9.15	23.15	23.05	349.50	99.03	145.69	3.12	
6400.00	6401.99	6331.27	6346.33	5.86	9.15	23.52	23.42	349.64	101.98	149.29	3.16	
6500.00	6504.60	6433.43	6446.16	4.84	9.15	23.90	23.78	349.79	104.98	152.84	3.19	

5D Anti-Collision Report

Secondary Well: Palmillo 3 State Com 356H (p)(TVD relative to Drill Floor)(All Azimuth Relative to GRID NORTH)													
Pri MD (US ft)	Sec MD (US ft)	Sec TVD (US ft)	Pri TVD (US ft)	Inc (°)	Az (°)	S.Major (US ft)	S.Minor (US ft)	T.Face to Sec (°)	ES (US ft)	CC (US ft)	SF	Risk	
6600.00	6607.27	6535.81	6546.08	3.81	9.15	24.26	24.13	349.95	108.04	156.34	3.24		
6700.00	6710.02	6638.38	6646.05	2.78	9.15	24.63	24.46	350.11	111.14	159.78	3.28		
6800.00	6812.83	6741.11	6746.05	1.75	9.15	24.99	24.79	0.90	114.25	163.14	3.34		
6900.00	6915.72	6843.98	6846.05	0.73	9.15	25.34	25.11	1.01	116.44	165.29	3.38		
7000.00	7017.80	6946.05	6946.05	0.00	0.00	25.69	25.43	1.04	116.93	165.73	3.40		
7100.00	7117.64	7045.90	7045.90	0.00	0.00	26.03	25.77	46.26	113.96	163.17	3.32		
7200.00	7214.86	7143.12	7143.12	0.00	0.00	26.36	26.11	53.89	98.77	148.36	2.99		
7300.00	7305.26	7233.51	7233.51	0.00	0.00	26.67	26.42	70.60	76.88	126.99	2.53		
7392.38	7379.27	7307.53	7307.53	0.00	0.00	26.93	26.67	92.43	66.38	117.64	2.29	SF(Lo)	
7400.00	7384.87	7313.13	7313.13	0.00	0.00	26.95	26.69	94.23	66.65	118.05	2.30	SF(Lo)	
7500.00	7450.23	7378.49	7378.49	0.00	0.00	27.17	26.92	113.05	93.46	146.36	2.77		
7600.00	7498.47	7426.73	7426.73	0.00	0.00	27.34	27.09	120.07	157.15	210.53	3.94		