

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.
30-015-45815

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 **356H**

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**: **2020'** 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:3484'

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 356H. 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, 745' FNL & 240' FWL BHL - Sec 3, 330' FNL & 50' FEL
NEW SHL - Sec 3, 2020' FNL & 180' FEL BHL - Sec 3, 330' FNL & 50' FWL

OLD Prod - 8-3/4" - setting depth: 8652' Est TOC: 2500' Total sx cmt: 704sx
8-1/2" - setting depth: 13264' Est TOC - 8252' Total sx cmt: 860sx

NEW Prod - 8-3/4" - setting depth: 8784' Est TOC: 2500' Total sx cmt: 706sx
8-1/2" - setting depth: 13600' Est TOC - 8784' Total sx cmt: 898sx

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 H. 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 356H*
Plan: *P1:V4 (Current plan)*

25 November 2019

RECEIVED

DEC 13 2019

DISTRICT/ARTESIAO.C.D.

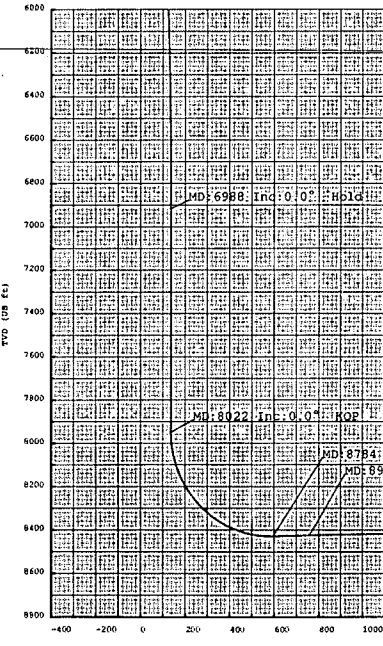
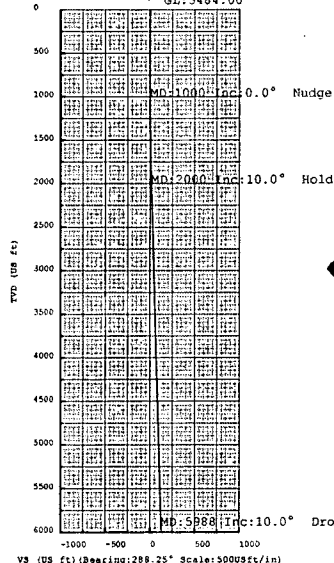
**Weatherford®**

Apache

Palmillo 3 State Com 356H Eddy Co, New Mexico



KB: 3510.00'
GL: 3484.00'



Plan Data for Palmillo 3 State Com 356H

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)	(DLS)	
0.00	0.00	0.00	0.00	-0.00	0.00	615361.00	595825.60	0.00	0.00	
1000.00	0.00	0.00	1000.00	-0.00	0.00	615361.00	595825.60	0.00	0.00	Nudge
2000.12	10.00	9.15	1995.05	85.96	13.84	615447.76	595839.44	13.77	1.00	Hold
5988.12	10.00	9.15	5922.45	769.74	123.96	616131.54	595949.56	123.33	0.00	Drop
6988.24	0.00	0.00	6917.50	855.70	137.80	616217.50	595963.40	137.11	1.00	Hold
8022.04	0.00	0.00	7951.30	855.70	137.80	616217.50	595963.40	137.11	0.00	KOP
8784.46	91.49	308.24	8428.60	1158.92	-246.96	616520.72	595578.64	597.47	12.00	LP
8957.89	91.49	308.24	8424.09	1266.23	-383.13	616628.03	595442.47	760.39	0.00	Drop/Turn
10018.81	88.73	276.53	8422.00	1665.08	-1351.54	617026.88	594474.06	1805.00	3.00	1805 VS
10269.42	89.96	269.11	8424.86	1677.40	-1601.65	617039.20	594223.95	2046.39	3.00	Hold
10482.83	89.96	269.11	8425.00	1674.10	-1815.03	617035.90	594010.57	2248.00	0.00	2248 VS
10551.64	91.34	269.11	8424.22	1673.03	-1883.83	617034.83	593941.77	2313.00	2.00	Hold
12355.55	91.34	269.11	8382.06	1645.02	-3687.02	617006.82	592138.58	4016.72	0.00	Drop
12357.95	91.29	269.11	8382.00	1644.98	-3689.43	617006.78	592136.17	4018.99	2.00	4019 VS
13600.49	91.29	269.11	8354.00	1625.70	-4931.50	616987.50	590894.10	5192.55	0.00	PBHL 356H

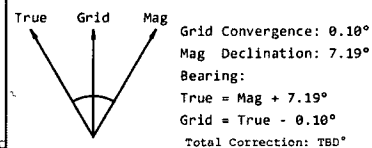
Plan Data for Palmillo 3 State Com 356H

Target Set Information:

Name: Palmillo3 356H

Position offsets from Slot centre

Name	TVD Elevation	+N/-S	+E/-W	Northing	Easting
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)
VP 7946.90	-4436.90	855.70	137.80	616217.50	595963.40
FTP 356H 0.00	3510.00	1691.00	95.60	617052.80	595921.20
605 VS 8432.00	-4922.00	1163.12	-253.50	616524.92	595572.10
1356 VS 8412.00	-4902.00	1560.97	-913.09	616592.77	594912.53
1805 VS 8412.00	-4912.00	1665.08	-1351.54	617026.88	594474.06
2248 VS 8425.00	-4915.00	1674.10	-1815.03	617035.90	594810.57
4019 VS 8382.00	-4872.00	1644.98	-3689.43	617006.78	592136.17
LTP 356H 8355.13	-4845.13	1625.40	-4881.40	616988.20	590944.20
PBHL 356H 8354.00	-4844.00	1625.70	-4931.50	616987.50	590894.10



Plan Data for Palmillo 3 State Com 356H

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 3 State Com (356,244,243,354) Pad

Unit: USFt

TVD Reference:

Company Name: Apache Corporation

Position: Northing: 615361.80USft Latitude: 32.691548°

Easting: 595825.60USft Longitude: -104.156216°

North Reference: Grid

Grid Convergence: 0.10°

Elevation Above VRD: 3484.00USft

Comment: Eddy Co., NM

Slot: Palmillo 3 State Com 356H

Position:

Offset is from Site centre

Northing: 615361.80USft Latitude: 32.691548°

Easting: 595825.60USft Longitude: -104.156216°

Elevation Above VRD: 3484.00USft

Well: Palmillo 3 State Com 356H

Type: Main-Well

File Number:

Plan Folder: P1

Plan: P1:V4

Vertical Section: Position offset of origin from Slot centre:

+N/-S: -0.00USft

Azimuth: 288.25°

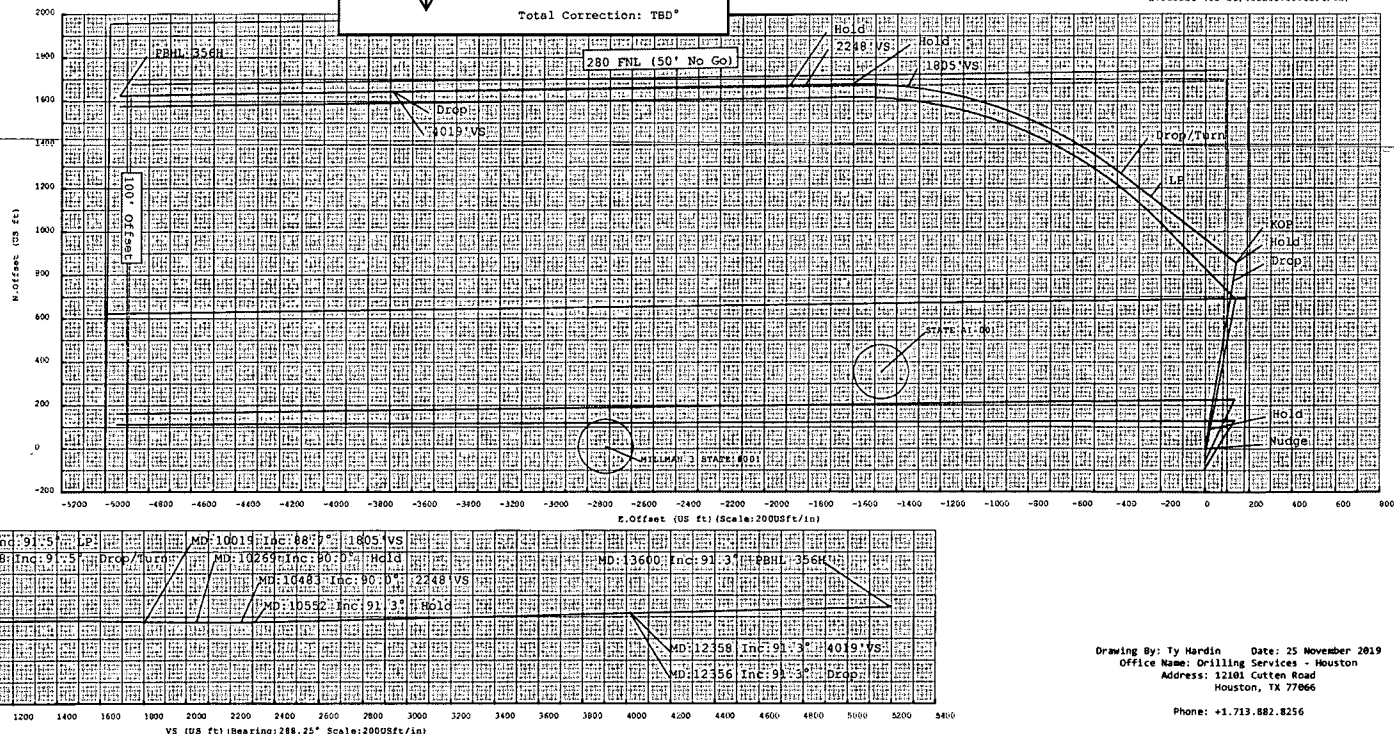
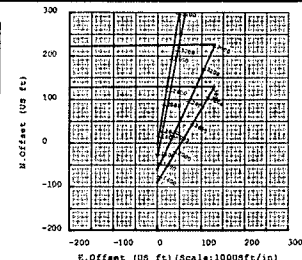
+E/-W: 0.00USft

Magnetic Parameters:

Model: Field Strength: Declination: Dip: Date:

bgm2019 47870(nT) 7.19° 60.40° 2019-12-25

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



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


Weatherford®

Palmillo 3 State Com 356H

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 356H	Position (Relative to Site Centre) +N/-S: 0.00 US ft Northing: 615361.80 US ft Latitude: 32.691547774 +E/-W: 0.00 US ft Easting: 595825.60 US ft Longitude: -104.156216364 Slot TVD Reference: Ground Elevation Elevation above MSL: 3484.00 US ft Comment:	
Well: Palmillo 3 State Com 356H	Type: Main well UWI: Plan: P1:V4 (Current plan) File Number: Comment: Closure Distance: 5192.55 US ft Closure Azimuth: 288.25° Vertical Section: Position of Origin (Relative to Slot centre) +N/-S: -0.00 US ft +E/-W: 0.00 US ft Az: 288.25° Magnetic Parameters: Model: bggm2019 Field Strength: 47870.9nT Declination: 7.19° Dip: 60.40° Date: 25/Dec/2019	

Drill floor: Plan: P1:V4 (Current plan)
Rig Height (Drill Floor): 26.00 US ft **Elevation above MSL:** 3510.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00°

Target set: Palmillo3 356H 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
VP	Point	7946.90	855.70	137.80	616217.50	595963.40	0.00	
FTP 356H	Point	0.00	1691.00	95.60	617052.80	595921.20	1693.70	
605'VS	Point	8432.00	1163.12	-253.50	616524.92	595572.10	3.67	
1356'VS	Point	8412.00	1560.97	-913.09	616922.77	594912.51	4.64	
1805'VS	Point	8422.00	1665.08	-1351.54	617026.88	594474.06	0.00	
2248'VS	Point	8425.00	1674.10	-1815.03	617035.90	594010.57	0.00	
4019'VS	Point	8382.00	1644.98	-3689.43	617006.78	592136.17	0.00	
LTP 356H	Point	8355.13	1626.40	-4881.40	616988.20	590944.20	0.08	
PBHL 356H	Point	8354.00	1625.70	-4931.50	616987.50	590894.10	0.00	

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	7945.64	ASP
MWD+IFR1+SAG+FDIR	7945.64	13542.09	ASP
MWD	13542.09	13600.49	Default Tool

Wellpath created using minimum curvature.

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	615361.80	595825.60	0.00	
1000.00	0.00	0.00	1000.00	0.00	-0.00	0.00	615361.80	595825.60	0.00	Nudge
2000.12	10.00	9.15	1995.05	13.77	85.96	13.84	615447.76	595839.44	1.00	Hold
5988.12	10.00	9.15	5922.45	123.33	769.74	123.96	616131.54	595949.56	0.00	Drop
6988.24	0.00	0.00	6917.50	137.11	855.70	137.80	616217.50	595963.40	1.00	Hold
8022.04	0.00	0.00	7951.30	137.11	855.70	137.80	616217.50	595963.40	0.00	KOP
8784.46	91.49	308.24	8428.60	597.47	1158.92	-246.96	616520.72	595578.64	12.00	LP
8957.89	91.49	308.24	8424.09	760.39	1266.23	-383.13	616628.03	595442.47	0.00	Drop/Turn
10018.81	88.73	276.53	8422.00	1805.00	1665.08	-1351.54	617026.88	594474.06	3.00	1805°VS
10269.42	89.96	269.11	8424.86	2046.39	1677.40	-1601.65	617039.20	594223.95	3.00	Hold
10482.83	89.96	269.11	8425.00	2248.00	1674.10	-1815.03	617035.90	594010.57	0.00	2248°VS
10551.64	91.34	269.11	8424.22	2313.00	1673.03	-1883.83	617034.83	593941.77	2.00	Hold
12355.55	91.34	269.11	8382.06	4016.72	1645.02	-3687.02	617006.82	592138.58	0.00	Drop
12357.95	91.29	269.11	8382.00	4018.99	1644.98	-3689.43	617006.78	592136.17	2.00	4019°VS
13600.49	91.29	269.11	8354.00	5192.55	1625.70	-4931.50	616987.50	590894.10	0.00	PBHL 356H

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	615361.80	595825.60	0.00	
100.00	0.00	0.00	100.00	0.00	-0.00	0.00	615361.80	595825.60	0.00	
200.00	0.00	0.00	200.00	0.00	-0.00	0.00	615361.80	595825.60	0.00	
300.00	0.00	0.00	300.00	0.00	-0.00	0.00	615361.80	595825.60	0.00	
400.00	0.00	0.00	400.00	0.00	-0.00	0.00	615361.80	595825.60	0.00	
500.00	0.00	0.00	500.00	0.00	-0.00	0.00	615361.80	595825.60	0.00	
600.00	0.00	0.00	600.00	0.00	-0.00	0.00	615361.80	595825.60	0.00	
700.00	0.00	0.00	700.00	0.00	-0.00	0.00	615361.80	595825.60	0.00	
800.00	0.00	0.00	800.00	0.00	-0.00	0.00	615361.80	595825.60	0.00	
900.00	0.00	0.00	900.00	0.00	-0.00	0.00	615361.80	595825.60	0.00	
1000.00	0.00	0.00	1000.00	0.00	-0.00	0.00	615361.80	595825.60	0.00	Nudge
1100.00	1.00	9.15	1099.99	0.14	0.86	0.14	615362.66	595825.74	1.00	
1200.00	2.00	9.15	1199.96	0.55	3.45	0.55	615365.25	595826.15	1.00	
1300.00	3.00	9.15	1299.86	1.24	7.75	1.25	615369.55	595826.85	1.00	
1400.00	4.00	9.15	1399.68	2.21	13.78	2.22	615375.58	595827.82	1.00	
1500.00	5.00	9.15	1499.37	3.45	21.53	3.47	615383.33	595829.07	1.00	
1600.00	6.00	9.15	1598.90	4.97	30.99	4.99	615392.79	595830.59	1.00	
1700.00	7.00	9.15	1698.26	6.76	42.16	6.79	615403.96	595832.39	1.00	
1800.00	8.00	9.15	1797.40	8.82	55.05	8.87	615416.85	595834.47	1.00	
1900.00	9.00	9.15	1896.30	11.16	69.64	11.22	615431.44	595836.82	1.00	
2000.00	10.00	9.15	1994.93	13.77	85.94	13.84	615447.74	595839.44	1.00	
2000.12	10.00	9.15	1995.05	13.77	85.96	13.84	615447.76	595839.44	0.00	Hold
2100.00	10.00	9.15	2093.41	16.52	103.08	16.60	615464.88	595842.20	0.00	
2200.00	10.00	9.15	2191.89	19.26	120.23	19.36	615482.03	595844.96	0.00	
2300.00	10.00	9.15	2290.37	22.01	137.38	22.12	615499.18	595847.72	0.00	
2400.00	10.00	9.15	2388.85	24.76	154.52	24.88	615516.32	595850.48	0.00	
2500.00	10.00	9.15	2487.33	27.51	171.67	27.65	615533.47	595853.25	0.00	
2600.00	10.00	9.15	2585.81	30.25	188.81	30.41	615550.61	595856.01	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)	
2700.00	10.00	9.15	2684.29	33.00	205.96	33.17	615567.76	595858.77	0.00	
2800.00	10.00	9.15	2782.77	35.75	223.11	35.93	615584.91	595861.53	0.00	
2900.00	10.00	9.15	2881.25	38.49	240.25	38.69	615602.05	595864.29	0.00	
3000.00	10.00	9.15	2979.73	41.24	257.40	41.45	615619.20	595867.05	0.00	
3100.00	10.00	9.15	3078.22	43.99	274.54	44.21	615636.34	595869.81	0.00	
3200.00	10.00	9.15	3176.70	46.74	291.69	46.97	615653.49	595872.57	0.00	
3300.00	10.00	9.15	3275.18	49.48	308.84	49.73	615670.64	595875.33	0.00	
3400.00	10.00	9.15	3373.66	52.23	325.98	52.50	615687.78	595878.10	0.00	
3500.00	10.00	9.15	3472.14	54.98	343.13	55.26	615704.93	595880.86	0.00	
3600.00	10.00	9.15	3570.62	57.73	360.27	58.02	615722.07	595883.62	0.00	
3700.00	10.00	9.15	3669.10	60.47	377.42	60.78	615739.22	595886.38	0.00	
3800.00	10.00	9.15	3767.58	63.22	394.57	63.54	615756.37	595889.14	0.00	
3900.00	10.00	9.15	3866.06	65.97	411.71	66.30	615773.51	595891.90	0.00	
4000.00	10.00	9.15	3964.54	68.71	428.86	69.06	615790.66	595894.66	0.00	
4100.00	10.00	9.15	4063.02	71.46	446.00	71.82	615807.80	595897.42	0.00	
4200.00	10.00	9.15	4161.50	74.21	463.15	74.58	615824.95	595900.18	0.00	
4300.00	10.00	9.15	4259.98	76.96	480.30	77.35	615842.10	595902.95	0.00	
4400.00	10.00	9.15	4358.46	79.70	497.44	80.11	615859.24	595905.71	0.00	
4500.00	10.00	9.15	4456.94	82.45	514.59	82.87	615876.39	595908.47	0.00	
4600.00	10.00	9.15	4555.42	85.20	531.73	85.63	615893.53	595911.23	0.00	
4700.00	10.00	9.15	4653.90	87.95	548.88	88.39	615910.68	595913.99	0.00	
4800.00	10.00	9.15	4752.38	90.69	566.03	91.15	615927.83	595916.75	0.00	
4900.00	10.00	9.15	4850.86	93.44	583.17	93.91	615944.97	595919.51	0.00	
5000.00	10.00	9.15	4949.34	96.19	600.32	96.67	615962.12	595922.27	0.00	
5100.00	10.00	9.15	5047.82	98.93	617.46	99.43	615979.26	595925.03	0.00	
5200.00	10.00	9.15	5146.30	101.68	634.61	102.20	615996.41	595927.80	0.00	
5300.00	10.00	9.15	5244.78	104.43	651.76	104.96	616013.56	595930.56	0.00	
5400.00	10.00	9.15	5343.26	107.18	668.90	107.72	616030.70	595933.32	0.00	
5500.00	10.00	9.15	5441.75	109.92	686.05	110.48	616047.85	595936.08	0.00	
5600.00	10.00	9.15	5540.23	112.67	703.19	113.24	616064.99	595938.84	0.00	
5700.00	10.00	9.15	5638.71	115.42	720.34	116.00	616082.14	595941.60	0.00	
5800.00	10.00	9.15	5737.19	118.16	737.49	118.76	616099.29	595944.36	0.00	
5900.00	10.00	9.15	5835.67	120.91	754.63	121.52	616116.43	595947.12	0.00	
5988.12	10.00	9.15	5922.45	123.33	769.74	123.96	616131.54	595949.56	0.00	Drop
6000.00	9.88	9.15	5934.15	123.66	771.77	124.28	616133.57	595949.88	1.00	
6100.00	8.88	9.15	6032.81	126.24	787.86	126.88	616149.66	595952.48	1.00	
6200.00	7.88	9.15	6131.74	128.54	802.25	129.19	616164.05	595954.79	1.00	
6300.00	6.88	9.15	6230.91	130.57	814.94	131.24	616176.74	595956.84	1.00	
6400.00	5.88	9.15	6330.29	132.33	825.91	133.00	616187.71	595958.60	1.00	
6500.00	4.88	9.15	6429.85	133.82	835.17	134.49	616196.97	595960.09	1.00	
6600.00	3.88	9.15	6529.55	135.03	842.72	135.71	616204.52	595961.31	1.00	
6700.00	2.88	9.15	6629.38	135.96	848.54	136.65	616210.34	595962.25	1.00	
6800.00	1.88	9.15	6729.29	136.62	852.65	137.31	616214.45	595962.91	1.00	
6900.00	0.88	9.15	6829.26	137.00	855.03	137.69	616216.83	595963.29	1.00	
6988.24	0.00	0.00	6917.50	137.11	855.70	137.80	616217.50	595963.40	1.00	Hold
7000.00	0.00	0.00	6929.26	137.11	855.70	137.80	616217.50	595963.40	0.00	
7100.00	0.00	0.00	7029.26	137.11	855.70	137.80	616217.50	595963.40	0.00	
7200.00	0.00	0.00	7129.26	137.11	855.70	137.80	616217.50	595963.40	0.00	
7300.00	0.00	0.00	7229.26	137.11	855.70	137.80	616217.50	595963.40	0.00	
7400.00	0.00	0.00	7329.26	137.11	855.70	137.80	616217.50	595963.40	0.00	
7500.00	0.00	0.00	7429.26	137.11	855.70	137.80	616217.50	595963.40	0.00	
7600.00	0.00	0.00	7529.26	137.11	855.70	137.80	616217.50	595963.40	0.00	
7700.00	0.00	0.00	7629.26	137.11	855.70	137.80	616217.50	595963.40	0.00	
7800.00	0.00	0.00	7729.26	137.11	855.70	137.80	616217.50	595963.40	0.00	
7900.00	0.00	0.00	7829.26	137.11	855.70	137.80	616217.50	595963.40	0.00	
8000.00	0.00	0.00	7929.26	137.11	855.70	137.80	616217.50	595963.40	0.00	
8022.04	0.00	0.00	7951.30	137.11	855.70	137.80	616217.50	595963.40	0.00	KOP
8100.00	9.35	308.24	8028.91	143.07	859.63	132.81	616221.43	595958.41	12.00	
8200.00	21.35	308.24	8125.16	167.91	875.99	112.05	616237.79	595937.65	12.00	

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)	
8300.00	33.35	308.24	8213.82	211.01	904.38	76.03	616266.18	595901.63	12.00	
8400.00	45.35	308.24	8291.00	270.50	943.56	26.32	616305.36	595851.92	12.00	
8500.00	57.35	308.24	8353.34	343.76	991.81	-34.92	616353.61	595790.68	12.00	
8600.00	69.35	308.24	8398.10	427.60	1047.04	-104.99	616408.84	595720.61	12.00	
8700.00	81.35	308.24	8423.34	518.36	1106.81	-180.84	616468.61	595644.76	12.00	
8784.46	91.49	308.24	8428.60	597.47	1158.92	-246.96	616520.72	595578.64	12.00	LP
8800.00	91.49	308.24	8428.20	612.07	1168.54	-259.16	616530.34	595566.44	0.00	
8900.00	91.49	308.24	8425.60	706.01	1230.41	-337.68	616592.21	595487.92	0.00	
8957.89	91.49	308.24	8424.09	760.39	1266.23	-383.13	616628.03	595442.47	0.00	Drop/Turn
9000.00	91.38	306.98	8423.04	800.11	1291.92	-416.47	616653.72	595409.13	3.00	
9100.00	91.13	303.99	8420.84	895.58	1349.95	-497.87	616711.75	595327.73	3.00	
9200.00	90.87	301.00	8419.10	992.48	1403.67	-582.19	616765.47	595243.41	3.00	
9300.00	90.61	298.01	8417.81	1090.54	1452.91	-669.20	616814.71	595156.40	3.00	
9400.00	90.35	295.02	8416.97	1189.48	1497.55	-758.67	616859.35	595066.93	3.00	
9500.00	90.08	292.04	8416.60	1289.05	1537.47	-850.34	616899.27	594975.26	3.00	
9600.00	89.82	289.05	8416.68	1388.96	1572.56	-943.97	616934.36	594881.63	3.00	
9700.00	89.56	286.06	8417.22	1488.94	1602.72	-1039.30	616964.52	594786.30	3.00	
9800.00	89.30	283.07	8418.23	1588.71	1627.86	-1136.07	616989.66	594689.53	3.00	
9900.00	89.04	280.08	8419.68	1688.01	1647.92	-1234.02	617009.72	594591.58	3.00	
10000.00	88.78	277.09	8421.59	1786.57	1662.85	-1332.87	617024.65	594492.73	3.00	
10018.81	88.73	276.53	8422.00	1805.00	1665.08	-1351.54	617026.88	594474.06	3.00	1805°VS
10100.00	89.13	274.13	8423.52	1884.11	1672.62	-1432.36	617034.42	594393.24	3.00	
10200.00	89.62	271.17	8424.61	1980.41	1677.23	-1532.23	617039.03	594293.37	3.00	
10269.42	89.96	269.11	8424.86	2046.39	1677.40	-1601.65	617039.20	594223.95	3.00	Hold
10300.00	89.96	269.11	8424.88	2075.28	1676.93	-1632.23	617038.73	594193.37	0.00	
10400.00	89.96	269.11	8424.95	2169.75	1675.38	-1732.21	617037.18	594093.39	0.00	
10482.83	89.96	269.11	8425.00	2248.00	1674.10	-1815.03	617035.90	594010.57	0.00	2248°VS
10500.00	90.31	269.11	8424.96	2264.22	1673.83	-1832.20	617035.63	593993.40	2.00	
10551.64	91.34	269.11	8424.22	2313.00	1673.03	-1883.83	617034.83	593941.77	2.00	Hold
10600.00	91.34	269.11	8423.09	2358.68	1672.28	-1932.17	617034.08	593893.43	0.00	
10700.00	91.34	269.11	8420.75	2453.12	1670.73	-2032.13	617032.53	593793.47	0.00	
10800.00	91.34	269.11	8418.41	2547.57	1669.18	-2132.09	617030.98	593693.51	0.00	
10900.00	91.34	269.11	8416.08	2642.02	1667.62	-2232.05	617029.42	593593.55	0.00	
11000.00	91.34	269.11	8413.74	2736.46	1666.07	-2332.01	617027.87	593493.59	0.00	
11100.00	91.34	269.11	8411.40	2830.91	1664.52	-2431.97	617026.32	593393.63	0.00	
11200.00	91.34	269.11	8409.06	2925.36	1662.96	-2531.93	617024.76	593293.67	0.00	
11300.00	91.34	269.11	8406.73	3019.80	1661.41	-2631.89	617023.21	593193.71	0.00	
11400.00	91.34	269.11	8404.39	3114.25	1659.86	-2731.86	617021.66	593093.74	0.00	
11500.00	91.34	269.11	8402.05	3208.69	1658.30	-2831.82	617020.10	592993.78	0.00	
11600.00	91.34	269.11	8399.71	3303.14	1656.75	-2931.78	617018.55	592893.82	0.00	
11700.00	91.34	269.11	8397.38	3397.59	1655.20	-3031.74	617017.00	592793.86	0.00	
11800.00	91.34	269.11	8395.04	3492.03	1653.65	-3131.70	617015.45	592693.90	0.00	
11900.00	91.34	269.11	8392.70	3586.48	1652.09	-3231.66	617013.89	592593.94	0.00	
12000.00	91.34	269.11	8390.37	3680.92	1650.54	-3331.62	617012.34	592493.98	0.00	
12100.00	91.34	269.11	8388.03	3775.37	1648.99	-3431.58	617010.79	592394.02	0.00	
12200.00	91.34	269.11	8385.69	3869.82	1647.43	-3531.54	617009.23	592294.06	0.00	
12300.00	91.34	269.11	8383.35	3964.26	1645.88	-3631.50	617007.68	592194.10	0.00	
12355.55	91.34	269.11	8382.06	4016.72	1645.02	-3687.02	617006.82	592138.58	0.00	Drop
12357.95	91.29	269.11	8382.00	4018.99	1644.98	-3689.43	617006.78	592136.17	2.00	4019°VS
12400.00	91.29	269.11	8381.05	4058.71	1644.33	-3731.46	617006.13	592094.14	0.00	
12500.00	91.29	269.11	8378.80	4153.16	1642.78	-3831.42	617004.58	591994.18	0.00	
12600.00	91.29	269.11	8376.55	4247.61	1641.22	-3931.39	617003.02	591894.21	0.00	
12700.00	91.29	269.11	8374.29	4342.06	1639.67	-4031.35	617001.47	591794.25	0.00	
12800.00	91.29	269.11	8372.04	4436.50	1638.12	-4131.31	616999.92	591694.29	0.00	
12900.00	91.29	269.11	8369.79	4530.95	1636.57	-4231.28	616998.37	591594.32	0.00	
13000.00	91.29	269.11	8367.53	4625.40	1635.02	-4331.24	616996.82	591494.36	0.00	
13100.00	91.29	269.11	8365.28	4719.85	1633.47	-4431.20	616995.27	591394.40	0.00	
13200.00	91.29	269.11	8363.02	4814.30	1631.91	-4531.16	616993.71	591294.44	0.00	
13300.00	91.29	269.11	8360.77	4908.75	1630.36	-4631.13	616992.16	591194.47	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)	
13400.00	91.29	269.11	8358.52	5003.19	1628.81	-4731.09	616990.61	591094.51	0.00	
13500.00	91.29	269.11	8356.26	5097.64	1627.26	-4831.05	616989.06	590994.55	0.00	
13600.00	91.29	269.11	8354.01	5192.09	1625.71	-4931.01	616987.51	590894.59	0.00	
13600.49	91.29	269.11	8354.00	5192.55	1625.70	-4931.50	616987.50	590894.10	0.00	PBHL 356H

**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 356H*

25 November 2019

**Weatherford®**

Palmillo 3 State Com 356H

5D 9.0.1 (64 bit) : 25 November 2019, 12:29:53 UTC-6

5D Anti-Collision Report

Anti-Collision Analysis Criteria			
Primary Well		Palmillo 3 State Com 356H (p)	
Depth Range	0.00 - 13600.49 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 244H (p), Palmillo 3 State Com 243H (p), Palmillo 3 State Com 354H (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	7945.64	ASP
MWD+IFR1+SAG+FDIR	7945.64	13542.09	ASP
MWD	13542.09	13600.49	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 244H (p)	7351.76	7281.01	7366.77	7289.10	65.79	118.14	2.26	SF(Lo)
Palmillo 3 State Com 243H (p)	1908.40	1904.60	1916.64	1911.91	56.81	68.37	5.91	
Palmillo 3 State Com 354H (p)	1885.35	1881.83	1895.20	1891.01	89.29	103.11	7.46	
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 244H (p)	50.00	50.00	49.00	50.00	29.09	30.00	33.01	
Palmillo 3 State Com 243H (p)	1013.67	1013.67	1014.81	1013.81	53.65	60.00	9.45	
Palmillo 3 State Com 354H (p)	1007.81	1007.81	1008.93	1007.93	82.40	90.00	11.84	

Range Summary			
Secondary Well Name: Palmillo 3 State Com 244H (p)			
SF			
Start MD (US ft)	End MD (US ft)	Risk	
7300.00	7300.00	SF (Lo)	

Primary Well: Palmillo 3 State Com 356H (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	180.38	23.90	30.00	4.92		

5D Anti-Collision Report

Primary Well: Palmillo 3 State Com 356H (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
900.00	0.00	0.00	900.00	3.05	3.05	180.38	23.18	30.00	4.40	Palmillo 3 State Com 244H (p)	
1000.00	0.00	0.00	1000.00	3.41	3.41	180.38	22.46	30.00	3.98	Palmillo 3 State Com 244H (p)	
1100.00	1.00	9.15	1099.99	3.76	3.76	171.48	22.61	30.86	3.74	Palmillo 3 State Com 244H (p)	
1200.00	2.00	9.15	1199.96	4.12	4.12	172.14	24.48	33.45	3.73	Palmillo 3 State Com 244H (p)	
1300.00	3.00	9.15	1299.86	4.48	4.48	172.85	27.25	36.93	3.81	Palmillo 3 State Com 244H (p)	
1400.00	4.00	9.15	1399.67	4.84	4.83	173.37	30.01	40.41	3.89	Palmillo 3 State Com 244H (p)	
1500.00	5.00	9.15	1499.36	5.19	5.18	173.75	32.79	43.88	3.96	Palmillo 3 State Com 244H (p)	
1600.00	6.00	9.15	1598.90	5.55	5.54	174.02	35.57	47.35	4.02	Palmillo 3 State Com 244H (p)	
1700.00	7.00	9.15	1698.26	5.91	5.89	174.19	38.36	50.81	4.08	Palmillo 3 State Com 244H (p)	
1800.00	8.00	9.15	1797.40	6.27	6.24	174.30	41.15	54.27	4.14	Palmillo 3 State Com 244H (p)	
1900.00	9.00	9.15	1896.30	6.63	6.59	174.35	43.94	57.71	4.19	Palmillo 3 State Com 244H (p)	
2000.00	10.00	9.15	1994.93	6.99	6.94	174.34	46.74	61.14	4.25	Palmillo 3 State Com 244H (p)	
2100.00	10.00	9.15	2093.41	7.35	7.31	174.23	48.67	63.69	4.24	Palmillo 3 State Com 244H (p)	
2200.00	10.00	9.15	2191.89	7.72	7.68	174.03	49.73	65.48	4.16	Palmillo 3 State Com 244H (p)	
2300.00	10.00	9.15	2290.37	8.09	8.04	173.84	50.77	67.26	4.08	Palmillo 3 State Com 244H (p)	
2400.00	10.00	9.15	2388.85	8.46	8.41	173.67	51.82	69.04	4.01	Palmillo 3 State Com 244H (p)	
2500.00	10.00	9.15	2487.33	8.83	8.78	173.50	52.87	70.83	3.94	Palmillo 3 State Com 244H (p)	
2600.00	10.00	9.15	2585.81	9.20	9.15	173.34	53.91	72.61	3.88	Palmillo 3 State Com 244H (p)	
2700.00	10.00	9.15	2684.29	9.57	9.52	173.19	54.95	74.40	3.83	Palmillo 3 State Com 244H (p)	
2800.00	10.00	9.15	2782.77	9.94	9.89	173.05	55.99	76.18	3.77	Palmillo 3 State Com 244H (p)	
2900.00	10.00	9.15	2881.25	10.32	10.27	172.91	57.03	77.97	3.72	Palmillo 3 State Com 244H (p)	
3000.00	10.00	9.15	2979.73	10.69	10.64	172.78	58.07	79.76	3.68	Palmillo 3 State Com 244H (p)	
3100.00	10.00	9.15	3078.22	11.06	11.01	172.65	59.11	81.55	3.64	Palmillo 3 State Com 244H (p)	
3200.00	10.00	9.15	3176.70	11.44	11.39	172.53	60.15	83.33	3.59	Palmillo 3 State Com 244H (p)	
3300.00	10.00	9.15	3275.18	11.81	11.76	172.42	61.19	85.12	3.56	Palmillo 3 State Com 244H (p)	

5D Anti-Collision Report

Primary Well: Palmillo 3 State Com 356H (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
3400.00	10.00	9.15	3373.66	12.19	12.13	172.31	62.23	86.91	3.52	Palmillo 3 State Com 244H (p)	
3500.00	10.00	9.15	3472.14	12.57	12.51	172.20	63.26	88.70	3.49	Palmillo 3 State Com 244H (p)	
3600.00	10.00	9.15	3570.62	12.94	12.88	172.10	64.30	90.49	3.46	Palmillo 3 State Com 244H (p)	
3700.00	10.00	9.15	3669.10	13.32	13.26	172.00	65.34	92.28	3.43	Palmillo 3 State Com 244H (p)	
3800.00	10.00	9.15	3767.58	13.70	13.63	171.91	66.37	94.07	3.40	Palmillo 3 State Com 244H (p)	
3900.00	10.00	9.15	3866.06	14.07	14.01	171.82	67.41	95.86	3.37	Palmillo 3 State Com 244H (p)	
4000.00	10.00	9.15	3964.54	14.45	14.39	171.73	68.45	97.65	3.34	Palmillo 3 State Com 244H (p)	
4100.00	10.00	9.15	4063.02	14.83	14.76	171.65	69.48	99.44	3.32	Palmillo 3 State Com 244H (p)	
4200.00	10.00	9.15	4161.50	15.21	15.14	171.57	70.52	101.23	3.30	Palmillo 3 State Com 244H (p)	
4300.00	10.00	9.15	4259.98	15.58	15.51	171.49	71.56	103.02	3.27	Palmillo 3 State Com 244H (p)	
4400.00	10.00	9.15	4358.46	15.96	15.89	171.41	72.59	104.81	3.25	Palmillo 3 State Com 244H (p)	
4500.00	10.00	9.15	4456.94	16.34	16.27	171.34	73.63	106.60	3.23	Palmillo 3 State Com 244H (p)	
4600.00	10.00	9.15	4555.42	16.72	16.64	171.27	74.66	108.39	3.21	Palmillo 3 State Com 244H (p)	
4700.00	10.00	9.15	4653.90	17.10	17.02	171.20	75.70	110.18	3.20	Palmillo 3 State Com 244H (p)	
4800.00	10.00	9.15	4752.38	17.48	17.40	171.13	76.74	111.97	3.18	Palmillo 3 State Com 244H (p)	
4900.00	10.00	9.15	4850.86	17.85	17.77	171.07	77.77	113.76	3.16	Palmillo 3 State Com 244H (p)	
5000.00	10.00	9.15	4949.34	18.23	18.15	171.01	78.81	115.56	3.14	Palmillo 3 State Com 244H (p)	
5100.00	10.00	9.15	5047.82	18.61	18.53	170.95	79.84	117.35	3.13	Palmillo 3 State Com 244H (p)	
5200.00	10.00	9.15	5146.30	18.99	18.90	170.89	80.88	119.14	3.11	Palmillo 3 State Com 244H (p)	
5300.00	10.00	9.15	5244.78	19.37	19.28	170.83	81.92	120.93	3.10	Palmillo 3 State Com 244H (p)	
5400.00	10.00	9.15	5343.26	19.75	19.66	170.78	82.95	122.72	3.09	Palmillo 3 State Com 244H (p)	
5500.00	10.00	9.15	5441.75	20.13	20.04	170.73	83.99	124.52	3.07	Palmillo 3 State Com 244H (p)	
5600.00	10.00	9.15	5540.23	20.51	20.41	170.67	85.03	126.31	3.06	Palmillo 3 State Com 244H (p)	
5700.00	10.00	9.15	5638.71	20.89	20.79	170.62	86.06	128.10	3.05	Palmillo 3 State Com 244H (p)	
5800.00	10.00	9.15	5737.19	21.27	21.17	170.57	87.10	129.89	3.04	Palmillo 3 State Com 244H (p)	

5D Anti-Collision Report

Primary Well: Palmillo 3 State Com 356H (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
5900.00	10.00	9.15	5835.67	21.65	21.55	170.53	88.15	131.74	3.02	Palmillo 3 State Com 244H (p)	
6000.00	9.88	9.15	5934.15	22.03	21.93	170.59	90.34	134.78	3.03	Palmillo 3 State Com 244H (p)	
6100.00	8.88	9.15	6032.81	22.41	22.31	170.70	93.25	138.44	3.06	Palmillo 3 State Com 244H (p)	
6200.00	7.88	9.15	6131.74	22.78	22.69	170.83	96.22	142.05	3.10	Palmillo 3 State Com 244H (p)	
6300.00	6.88	9.15	6230.91	23.15	23.06	170.96	99.25	145.61	3.14	Palmillo 3 State Com 244H (p)	
6400.00	5.88	9.15	6330.29	23.52	23.41	171.10	102.32	149.13	3.19	Palmillo 3 State Com 244H (p)	
6500.00	4.88	9.15	6429.85	23.88	23.76	171.25	105.42	152.59	3.24	Palmillo 3 State Com 244H (p)	
6600.00	3.88	9.15	6529.55	24.24	24.10	171.41	108.56	156.00	3.29	Palmillo 3 State Com 244H (p)	
6700.00	2.88	9.15	6629.38	24.59	24.43	171.57	111.72	159.36	3.35	Palmillo 3 State Com 244H (p)	
6800.00	1.88	9.15	6729.29	24.94	24.75	171.73	114.89	162.67	3.40	Palmillo 3 State Com 244H (p)	
6900.00	0.88	9.15	6829.26	25.29	25.06	171.85	116.68	165.05	3.41	Palmillo 3 State Com 244H (p)	
7000.00	0.00	0.00	6929.26	25.63	25.36	181.04	117.00	165.73	3.40	Palmillo 3 State Com 244H (p)	
7100.00	0.00	0.00	7029.26	25.97	25.71	181.81	112.80	164.07	3.20	Palmillo 3 State Com 244H (p)	
7200.00	0.00	0.00	7129.26	26.31	26.05	190.34	97.79	148.09	2.94	Palmillo 3 State Com 244H (p)	
7300.00	0.00	0.00	7229.26	26.66	26.40	208.77	73.96	125.28	2.44	Palmillo 3 State Com 244H (p)	SF(Lo)
7351.76	0.00	0.00	7281.01	26.83	26.58	221.07	65.79	118.14	2.26	Palmillo 3 State Com 244H (p)	SF(Lo)
7400.00	0.00	0.00	7329.26	27.00	26.75	232.62	71.77	118.98	2.52	Palmillo 3 State Com 244H (p)	
7500.00	0.00	0.00	7429.26	27.34	27.09	252.38	117.21	149.45	4.64	Palmillo 3 State Com 244H (p)	

Secondary Well: Palmillo 3 State Com 244H (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	799.00	800.00	800.00	0.00	0.00	2.69	2.69	180.38	23.90	30.00	4.92	
900.00	899.00	900.00	900.00	0.00	0.00	3.04	3.04	180.38	23.18	30.00	4.40	
1000.00	999.00	1000.00	1000.00	0.00	0.00	3.40	3.40	180.38	22.46	30.00	3.98	
1100.00	1098.99	1099.99	1099.99	0.00	0.00	3.76	3.76	171.48	22.61	30.86	3.74	
1200.00	1198.96	1199.96	1199.96	0.00	0.00	4.12	4.12	172.14	24.48	33.45	3.73	
1300.00	1299.50	1300.50	1299.86	1.00	10.62	4.48	4.48	172.85	27.25	36.93	3.81	
1400.00	1400.11	1401.07	1399.67	2.00	10.62	4.84	4.84	173.37	30.01	40.41	3.89	
1500.00	1500.78	1501.65	1499.36	3.01	10.62	5.20	5.19	173.75	32.79	43.88	3.96	
1600.00	1601.52	1602.19	1598.90	4.02	10.62	5.56	5.55	174.02	35.57	47.35	4.02	
1700.00	1702.32	1702.67	1698.26	5.02	10.62	5.92	5.91	174.19	38.36	50.81	4.08	
1800.00	1803.17	1803.06	1797.40	6.03	10.62	6.28	6.26	174.30	41.15	54.27	4.14	

5D Anti-Collision Report

Secondary Well: Palmillo 3 State Com 244H (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
1900.00	1904.09	1903.32	1896.30	7.04	10.62	6.64	6.61	174.35	43.94	57.71	4.19	
2000.00	2005.07	2003.43	1994.93	8.05	10.62	7.00	6.97	174.34	46.74	61.14	4.25	
2100.00	2106.07	2103.30	2093.41	9.00	10.62	7.36	7.32	174.23	48.67	63.69	4.24	
2200.00	2206.05	2202.05	2191.89	9.00	10.62	7.72	7.68	174.03	49.73	65.48	4.16	
2300.00	2306.03	2300.80	2290.37	9.00	10.62	8.09	8.05	173.84	50.77	67.26	4.08	
2400.00	2406.02	2399.55	2388.85	9.00	10.62	8.45	8.41	173.67	51.82	69.04	4.01	
2500.00	2506.00	2498.30	2487.33	9.00	10.62	8.82	8.78	173.50	52.87	70.83	3.94	
2600.00	2605.98	2597.06	2585.81	9.00	10.62	9.18	9.14	173.34	53.91	72.61	3.88	
2700.00	2705.97	2695.81	2684.29	9.00	10.62	9.55	9.51	173.19	54.95	74.40	3.83	
2800.00	2805.96	2794.57	2782.77	9.00	10.62	9.92	9.88	173.05	55.99	76.18	3.77	
2900.00	2905.94	2893.32	2881.25	9.00	10.62	10.29	10.25	172.91	57.03	77.97	3.72	
3000.00	3005.92	2992.07	2979.73	9.00	10.62	10.65	10.62	172.78	58.07	79.76	3.68	
3100.00	3105.91	3090.82	3078.22	9.00	10.62	11.02	10.99	172.65	59.11	81.55	3.64	
3200.00	3205.89	3189.58	3176.70	9.00	10.62	11.39	11.35	172.53	60.15	83.33	3.59	
3300.00	3305.88	3288.33	3275.18	9.00	10.62	11.76	11.72	172.42	61.19	85.12	3.56	
3400.00	3405.86	3387.08	3373.66	9.00	10.62	12.14	12.10	172.31	62.23	86.91	3.52	
3500.00	3505.84	3485.83	3472.14	9.00	10.62	12.51	12.47	172.20	63.26	88.70	3.49	
3600.00	3605.83	3584.59	3570.62	9.00	10.62	12.88	12.84	172.10	64.30	90.49	3.46	
3700.00	3705.81	3683.34	3669.10	9.00	10.62	13.25	13.21	172.00	65.34	92.28	3.43	
3800.00	3805.79	3782.09	3767.58	9.00	10.62	13.62	13.58	171.91	66.37	94.07	3.40	
3900.00	3905.78	3880.84	3866.06	9.00	10.62	13.99	13.95	171.82	67.41	95.86	3.37	
4000.00	4005.76	3979.60	3964.54	9.00	10.62	14.37	14.32	171.73	68.45	97.65	3.34	
4100.00	4105.75	4078.35	4063.02	9.00	10.62	14.74	14.69	171.65	69.48	99.44	3.32	
4200.00	4205.73	4177.10	4161.50	9.00	10.62	15.11	15.07	171.57	70.52	101.23	3.30	
4300.00	4305.71	4275.85	4259.98	9.00	10.62	15.49	15.44	171.49	71.56	103.02	3.27	
4400.00	4405.70	4374.61	4358.46	9.00	10.62	15.86	15.81	171.41	72.59	104.81	3.25	
4500.00	4505.68	4473.36	4456.94	9.00	10.62	16.23	16.18	171.34	73.63	106.60	3.23	
4600.00	4605.67	4572.11	4555.42	9.00	10.62	16.61	16.56	171.27	74.66	108.39	3.21	
4700.00	4705.65	4670.86	4653.90	9.00	10.62	16.98	16.93	171.20	75.70	110.18	3.20	
4800.00	4805.63	4769.62	4752.38	9.00	10.62	17.35	17.30	171.13	76.74	111.97	3.18	
4900.00	4905.62	4868.37	4850.86	9.00	10.62	17.73	17.67	171.07	77.77	113.76	3.16	
5000.00	5005.60	4967.12	4949.34	9.00	10.62	18.10	18.05	171.01	78.81	115.56	3.14	
5100.00	5105.58	5065.88	5047.82	9.00	10.62	18.48	18.42	170.95	79.84	117.35	3.13	
5200.00	5205.57	5164.63	5146.30	9.00	10.62	18.85	18.79	170.89	80.88	119.14	3.11	
5300.00	5305.55	5263.38	5244.78	9.00	10.62	19.23	19.17	170.83	81.92	120.93	3.10	
5400.00	5405.54	5362.13	5343.26	9.00	10.62	19.60	19.54	170.78	82.95	122.72	3.09	
5500.00	5505.52	5460.89	5441.75	9.00	10.62	19.98	19.91	170.73	83.99	124.52	3.07	
5600.00	5605.50	5559.64	5540.23	9.00	10.62	20.35	20.29	170.67	85.03	126.31	3.06	
5700.00	5705.49	5658.39	5638.71	9.00	10.62	20.72	20.66	170.62	86.06	128.10	3.05	
5800.00	5805.47	5757.14	5737.19	9.00	10.62	21.10	21.03	170.57	87.10	129.89	3.04	
5900.00	5904.90	5855.36	5835.67	8.76	10.62	21.47	21.41	170.53	88.15	131.74	3.02	
6000.00	6002.62	5952.06	5934.15	7.78	10.62	21.84	21.78	170.59	90.34	134.78	3.03	
6100.00	6100.27	6048.92	6032.81	6.80	10.62	22.20	22.15	170.70	93.25	138.44	3.06	
6200.00	6197.86	6145.91	6131.74	5.83	10.62	22.56	22.50	170.83	96.22	142.05	3.10	
6300.00	6295.39	6243.02	6230.91	4.85	10.62	22.91	22.85	170.96	99.25	145.61	3.14	
6400.00	6392.86	6340.21	6330.29	3.88	10.62	23.26	23.19	171.10	102.32	149.13	3.19	
6500.00	6490.27	6437.45	6429.85	2.90	10.62	23.61	23.52	171.25	105.42	152.59	3.24	
6600.00	6587.63	6534.72	6529.55	1.93	10.62	23.95	23.84	171.41	108.56	156.00	3.29	
6700.00	6684.94	6631.99	6629.38	0.96	10.62	24.29	24.15	171.57	111.72	159.36	3.35	
6800.00	6782.24	6729.29	6729.29	0.00	0.00	24.63	24.45	171.73	114.89	162.67	3.40	
6900.00	6882.21	6829.26	6829.26	0.00	0.00	24.93	24.76	171.85	116.68	165.05	3.41	
7000.00	6982.20	6929.26	6929.26	0.00	0.00	24.97	24.80	181.04	117.00	165.73	3.40	
7100.00	7095.38	7042.31	7029.26	6.54	315.91	24.98	24.84	181.81	112.80	164.07	3.20	
7200.00	7219.26	7162.18	7129.26	21.41	315.91	24.99	23.92	190.34	97.79	148.09	2.94	
7300.00	7322.51	7253.51	7229.26	33.80	315.91	25.04	22.11	208.77	73.96	125.28	2.44	SF(Lo)
7351.76	7366.77	7289.10	7281.01	39.11	315.91	25.07	21.08	221.07	65.79	118.14	2.26	SF(Lo)
7400.00	7402.80	7316.17	7329.26	43.43	315.91	25.09	20.14	232.62	71.77	118.98	2.52	
7500.00	7463.81	7357.67	7429.26	50.76	315.91	25.16	18.40	252.38	117.21	149.45	4.64	

5D Anti-Collision Report

