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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis
Santa Fe, NM 87505

RECEIVED

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

DISTRICT-ARTESIA O.C.D.

AMENDED REPORT

AS Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-45381		2 Pool Code 96413		3 Pool Name PALMILLO, BONE SPRING, SOUTHWEST		
4 Property Code 317303		5 Property Name PALMILLO 14-15 STATE			6 Well Number 307H	
7 GRID NO. 873		8 Operator Name APACHE CORPORATION			9 Elevation 3446'	

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
M	14	19S	28E		631	SOUTH	351	WEST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	15	19S	28E		349	SOUTH	54	WEST	EDDY

12 Dedicated Acres 160	13 Joint or Infill	14 Consolidation Code	15 Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

16 GEODETIC DATA NAD 83 GRID - NM EAST KICK OFF POINT (KOP) 461' FSL & 363' FWL SEC 14 N 602001.3 - E 596345.1 LAT: 32.6548215° N LONG: 104.1546008° W MD: 8058 - TVD: 8053.7 FIRST TAKE POINT (FTP) 411' FSL & 44' FEL SEC 15 N: 601948.6 - E: 595938.2 LAT: 32.6546785° N LONG: 104.1559232° W MD: 8709 - TVD: 8508.9 LAST TAKE POINT (LTP) 349' FSL & 146' FWL SEC 15 N: 601838.3 - E: 590934.8 LAT: 32.6543971° N LONG: 104.1721808° W MD: 13721 - TVD: 8485.1		CORNER DATA NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1941" N 601487.4 - E 590787.6 B: FOUND BRASS CAP "1941" N 604120.4 - E 590796.6 C: FOUND BRASS CAP "1941" N 606757.2 - E 590806.5 D: FOUND BRASS CAP "1941" N 606785.9 - E 593400.0 E: FOUND BRASS CAP "1941" N 606815.2 - E 595993.1 F: FOUND BRASS CAP "1941" N 606837.6 - E 598589.8		C: FOUND BRASS CAP "1941" N 606860.6 - E 601187.3 H: FOUND BRASS CAP "1941" N 604227.7 - E 601181.4 I: FOUND BRASS CAP "1941" N 601577.6 - E 601175.4 J: FOUND BRASS CAP "1941" N 601556.9 - E 598579.0 K: FOUND BRASS CAP "1941" N 601537.8 - E 595981.6 L: FOUND BRASS CAP "1941" N 601514.2 - E 593387.0 CALCULATED POINTS 1: N 602803.9 - E 590792.1 2: N 602857.2 - E 595984.4 3: N 602868.5 - E 597283.1 4: N 601547.4 - E 597280.3		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Alicia Fulton</u> Date: <u>11/21/19</u> Printed Name: <u>Alicia Fulton</u> E-mail Address: <u>alicia.fulton@apachecorp.com</u>	
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 6-21-2018 Date of Survey Signature and Seal of Professional Surveyor: <u>Jeffrey L. Fansler</u> 10034 Certificate Number 11/18/19 - KOP/FTP/LTP Job No.: LS1806807AD							



Weatherford

Drilling Services
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Apache Corporation
303 Veterans Airpark Lane
Midland, TX, 79705

Date: June 7, 2019

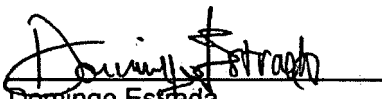
Attention: Taylor Thetford

Re: Apache Corporation
Well: Palmillo 14-15 State Com 307H
Eddy County, New Mexico

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

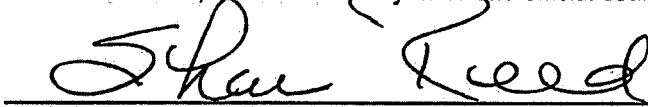
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Domingo Estrada MWD Ops. Coordinator	307H	7,941 MD 13,750 MD	5/31/2019 6/7/2019	Measurement While Drilling

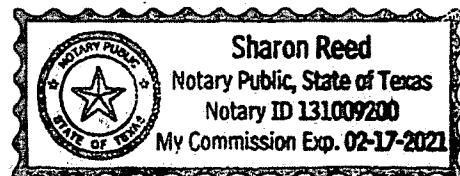
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Domingo Estrada
MWD Ops. Coordinator

On this, the 7th day of June, 2019, before me a notary public, the undersigned officer, personally appeared Domingo Estrada, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.


Notary Public



**5D Survey Report****Apache Corporation**

Field Name: *Apache NM (Nad 83 NMEZ)*
Site Name: *Palmillo 14-15 State Com 307H*
Well Name: *Palmillo 14-15 State Com 307H*
File number: *13754435*
Survey: *Definitive survey*

7 June 2019

**Weatherford[®]**



Weatherford

Palmillo 14-15 State Com 307H

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 14-15 State Com 307H	Units: US ft North Reference: Grid Position: Northing: 602171.30 US ft Easting: 596333.80 US ft Elevation above MSL: 3446.00 US ft Comment: Eddy County, New Mexico	Convergence Angle: 0.10 Latitude: 32.655288742 Longitude: -104.154636626
Slot: Palmillo 14-15 State Com 307H	Position (Relative to Site Centre) +N/-S: 0.00 US ft Northing: 602171.30 US ft Latitude: 32.655288742 +E/-W: 0.00 US ft Easting: 596333.80 US ft Longitude: -104.154636626 Slot TVD Reference: Ground Elevation Elevation above MSL: 3446.00 US ft Comment:	
Well: Palmillo 14-15 State Com 307H	Type: Main well UWI: File Number: 13754435 Comment: Closure Distance: 5501.04 US ft Closure Azimuth: 266.51° Vertical Section: Position of Origin (Relative to Slot centre) +N/-S: -0.00 US ft +E/-W: -0.00 US ft Az: 266.32°	

Drill floor: Survey Name: Definitive Survey
Rig Height (Drill Floor): 26.00 US ft **Elevation above MSL:** 3472.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00°

Survey Name: Definitive Survey
Date: 01/Nov/2018
Survey Tool: See Survey
 Tool Ranges below.
Comment:**Company:****Magnetic Model:****Model Name:** Surcon IFR**Date:** 26/May/2019
Field Strength:
 47895.0nT

Declination: 7.42° **Dip:** 60.39°
Tie Point:**MD:** 0.00 US ft
Inclination:
 0.00°
Azimuth: 0.00°
TVD: -0.00
 US ft

North Offset: -0.00
 US ft

East Offset: -0.00
 US ft

Survey Tool Ranges:

Name	Start MD(usft)	End MD(usft)	Source Survey
GYRO_GC_WIR+DPIPE\GYD	0.00	7888.21	GyroData Gyro-Good

5D Survey Report

Survey Tool Ranges			
Name	Start MD(usft)	End MD(usft)	Source Survey
MWD + IFR + MS	7888.21	8883.00	WFT MWD 04
MWD + IFR + Sag Corr. + MS	8883.00	11266.00	WFT MWD 05
MWD + IFR + Sag Corr. + MS	11266.00	13813.00	WFT MWD 06

Wellpath created using minimum curvature

Survey 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)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Comment
7888.21	0.85	158.52	7884.03	-1.17	-165.53	11.82	0.30	602005.77	596345.62	Tieon GyroData Gyro
7941.00	1.41	164.24	7936.81	-1.43	-166.52	12.14	1.08	602004.78	596345.94	First WFT MWD Svy
8035.00	1.82	189.15	8030.78	-1.34	-169.10	12.22	0.85	602002.20	596346.02	
8082.00	4.91	239.74	8077.70	0.63	-170.85	10.36	8.53	602000.45	596344.16	
8130.00	12.01	256.46	8125.15	7.39	-173.06	3.72	15.50	601998.24	596337.52	
8177.00	19.92	264.11	8170.31	20.23	-175.03	-9.02	17.38	601996.27	596324.78	
8224.00	27.35	267.32	8213.34	39.06	-176.36	-27.80	16.04	601994.94	596306.00	
8271.00	34.81	268.39	8253.56	63.29	-177.24	-52.02	15.92	601994.06	596281.78	
8318.00	39.24	265.46	8291.08	91.58	-178.80	-80.27	10.14	601992.50	596253.53	
8365.00	42.97	262.81	8326.49	122.44	-181.98	-110.99	8.76	601989.32	596222.81	
8412.00	47.21	261.21	8359.66	155.63	-186.62	-143.94	9.34	601984.68	596189.86	
8459.00	51.80	260.37	8390.18	191.19	-192.35	-179.21	9.86	601978.95	596154.59	
8506.00	55.54	260.33	8418.02	228.84	-198.70	-216.54	7.96	601972.60	596117.26	
8553.00	58.89	260.45	8443.46	268.14	-205.29	-255.49	7.13	601966.01	596078.31	
8600.00	62.35	261.65	8466.52	308.91	-211.65	-295.94	7.69	601959.65	596037.86	
8647.00	66.21	263.75	8486.91	351.16	-217.02	-337.93	9.15	601954.28	595995.87	
8695.00	70.52	264.73	8504.61	395.74	-221.49	-382.31	9.18	601949.81	595951.49	
8742.00	74.19	265.20	8518.85	440.51	-225.42	-426.92	7.87	601945.88	595906.88	
8789.00	79.02	265.46	8529.74	486.21	-229.14	-472.48	10.29	601942.16	595861.32	
8836.00	83.62	265.16	8536.83	532.65	-232.94	-518.77	9.81	601938.36	595815.03	
8883.00	89.16	265.04	8539.78	579.53	-236.94	-565.49	11.79	601934.36	595768.31	
8911.00	90.88	265.06	8539.77	607.52	-239.36	-593.38	6.14	601931.94	595740.42	
9005.00	90.95	262.81	8538.27	701.42	-249.29	-686.84	2.39	601922.01	595646.96	
9099.00	91.09	261.95	8536.60	795.18	-261.75	-779.99	0.93	601909.55	595553.81	
9193.00	89.55	263.91	8536.08	889.01	-273.32	-873.27	2.65	601897.98	595460.53	
9288.00	89.76	263.52	8536.65	983.91	-283.72	-967.70	0.47	601887.58	595366.10	
9382.00	89.13	266.56	8537.56	1077.87	-291.85	-1061.33	3.30	601879.45	595272.47	
9476.00	90.25	269.77	8538.07	1171.81	-294.86	-1155.26	3.62	601876.44	595178.54	
9571.00	91.65	270.04	8536.49	1266.61	-295.01	-1250.25	1.50	601876.29	595083.55	
9665.00	89.97	269.42	8535.16	1360.43	-295.46	-1344.23	1.91	601875.84	594989.57	
9759.00	89.48	269.39	8535.61	1454.29	-296.43	-1438.23	0.52	601874.87	594895.57	
9853.00	88.85	269.45	8536.98	1548.14	-297.38	-1532.21	0.67	601873.92	594801.59	
9947.00	89.34	269.49	8538.47	1641.99	-298.25	-1626.20	0.52	601873.05	594707.60	
10042.00	89.62	269.32	8539.33	1736.85	-299.24	-1721.19	0.34	601872.06	594612.61	
10136.00	89.83	268.64	8539.78	1830.74	-300.91	-1815.17	0.76	601870.39	594518.63	
10230.00	89.90	269.43	8540.00	1924.64	-302.50	-1909.16	0.84	601868.80	594424.64	
10324.00	90.95	270.43	8539.31	2018.44	-302.61	-2003.15	1.54	601868.69	594330.65	
10419.00	92.14	270.86	8536.74	2113.14	-301.54	-2098.11	1.33	601869.76	594235.69	
10513.00	92.70	270.32	8532.78	2206.79	-300.58	-2192.02	0.83	601870.72	594141.78	
10607.00	91.79	269.19	8529.09	2300.55	-300.98	-2285.94	1.54	601870.32	594047.86	
10701.00	90.18	269.24	8527.48	2394.41	-302.27	-2379.92	1.71	601869.03	593953.88	
10795.00	90.32	269.12	8527.07	2488.29	-303.61	-2473.91	0.20	601867.69	593859.89	
10890.00	90.81	268.64	8526.13	2583.19	-305.47	-2568.88	0.72	601865.83	593764.92	
10984.00	91.16	268.88	8524.51	2677.09	-307.50	-2662.85	0.45	601863.80	593670.95	
11078.00	90.81	269.48	8522.90	2770.96	-308.85	-2756.82	0.74	601862.45	593576.98	
11172.00	91.02	269.33	8521.40	2864.81	-309.82	-2850.81	0.27	601861.48	593482.99	
11266.00	90.39	269.22	8520.24	2958.68	-311.01	-2944.79	0.68	601860.29	593389.01	
11360.00	90.23	269.74	8519.73	3052.54	-311.86	-3038.79	0.58	601859.44	593295.01	
11455.00	91.28	269.20	8518.48	3147.38	-312.74	-3133.77	1.24	601858.56	593200.03	

5D Survey Report

Survey Points (Relative to Slot centre) (TVD relative to Drill Floor)										
MD (USft)	Inc (°)	Az (°)	TVD (USft)	VS (USft)	N Offset (USft)	E Offset (USft)	D.S (ft/100USft)	Northing (USft)	Easting (USft)	Comment
11549.00	92.40	268.86	8515.46	3241.23	-314.33	-3227.71	1.25	601856.97	593106.09	
11643.00	91.49	269.99	8512.27	3335.03	-315.28	-3321.65	1.54	601856.02	593012.15	
11737.00	89.11	269.84	8511.78	3428.84	-315.42	-3415.64	2.54	601855.88	592918.16	
11832.00	89.46	269.54	8512.97	3523.67	-315.93	-3510.63	0.49	601855.37	592823.17	
11926.00	89.95	269.43	8513.45	3617.52	-316.77	-3604.62	0.53	601854.53	592729.18	
12020.00	90.37	269.15	8513.19	3711.40	-317.94	-3698.62	0.54	601853.36	592635.18	
12115.00	91.28	269.07	8511.82	3806.27	-319.41	-3793.59	0.96	601851.89	592540.21	
12209.00	92.89	269.21	8508.40	3900.09	-320.82	-3887.52	1.72	601850.48	592446.28	
12303.00	90.44	269.78	8505.67	3993.90	-321.65	-3981.47	2.68	601849.65	592352.33	
12397.00	91.14	269.68	8504.37	4087.73	-322.10	-4075.46	0.75	601849.20	592258.34	
12491.00	92.19	269.65	8501.64	4181.53	-322.64	-4169.41	1.12	601848.66	592164.39	
12586.00	91.77	269.62	8498.36	4276.31	-323.25	-4264.36	0.44	601848.05	592069.44	
12680.00	90.93	270.48	8496.14	4370.08	-323.17	-4358.33	1.28	601848.13	591975.47	
12774.00	91.35	270.37	8494.27	4463.82	-322.47	-4452.31	0.46	601848.83	591881.49	
12869.00	90.23	270.44	8492.96	4558.57	-321.80	-4547.29	1.18	601849.50	591786.51	
12963.00	90.93	270.50	8492.01	4652.32	-321.03	-4641.29	0.75	601850.27	591692.51	
13057.00	91.91	270.37	8489.68	4746.05	-320.31	-4735.25	1.05	601850.99	591598.55	
13151.00	91.07	269.06	8487.24	4839.85	-320.78	-4829.22	1.66	601850.52	591504.58	
13245.00	88.62	269.12	8487.49	4933.73	-322.27	-4923.20	2.61	601849.03	591410.60	
13340.00	88.97	268.52	8489.49	5028.62	-324.23	-5018.16	0.73	601847.07	591315.64	
13434.00	89.67	268.60	8490.61	5122.54	-326.59	-5112.12	0.75	601844.71	591221.68	
13528.00	90.65	268.61	8490.34	5216.46	-328.88	-5206.09	1.04	601842.42	591127.71	
13623.00	91.63	268.66	8488.45	5311.37	-331.14	-5301.04	1.03	601840.16	591032.76	
13717.00	92.26	269.11	8485.26	5405.22	-332.97	-5394.97	0.82	601838.33	590938.83	
13750.00	92.61	269.04	8483.86	5438.15	-333.50	-5427.94	1.08	601837.80	590905.86	
13813.00	92.61	269.04	8480.99	5501.01	-334.56	-5490.86	0.00	601836.74	590842.94	Last WFT MWD Svy TD@13813' MD / PTB