

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

AMENDED REPORT

AS Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45282	² Pool Code 97569	³ Pool Name Winchester; Bone Spring, West
⁴ Property Code 322494	⁵ Property Name PALMILLO 21 STATE COM	⁶ Well Number 325H
⁷ GRID NO. 873	⁸ Operator Name APACHE COPORATION	⁹ Elevation 3458'

¹⁰ Surface Location

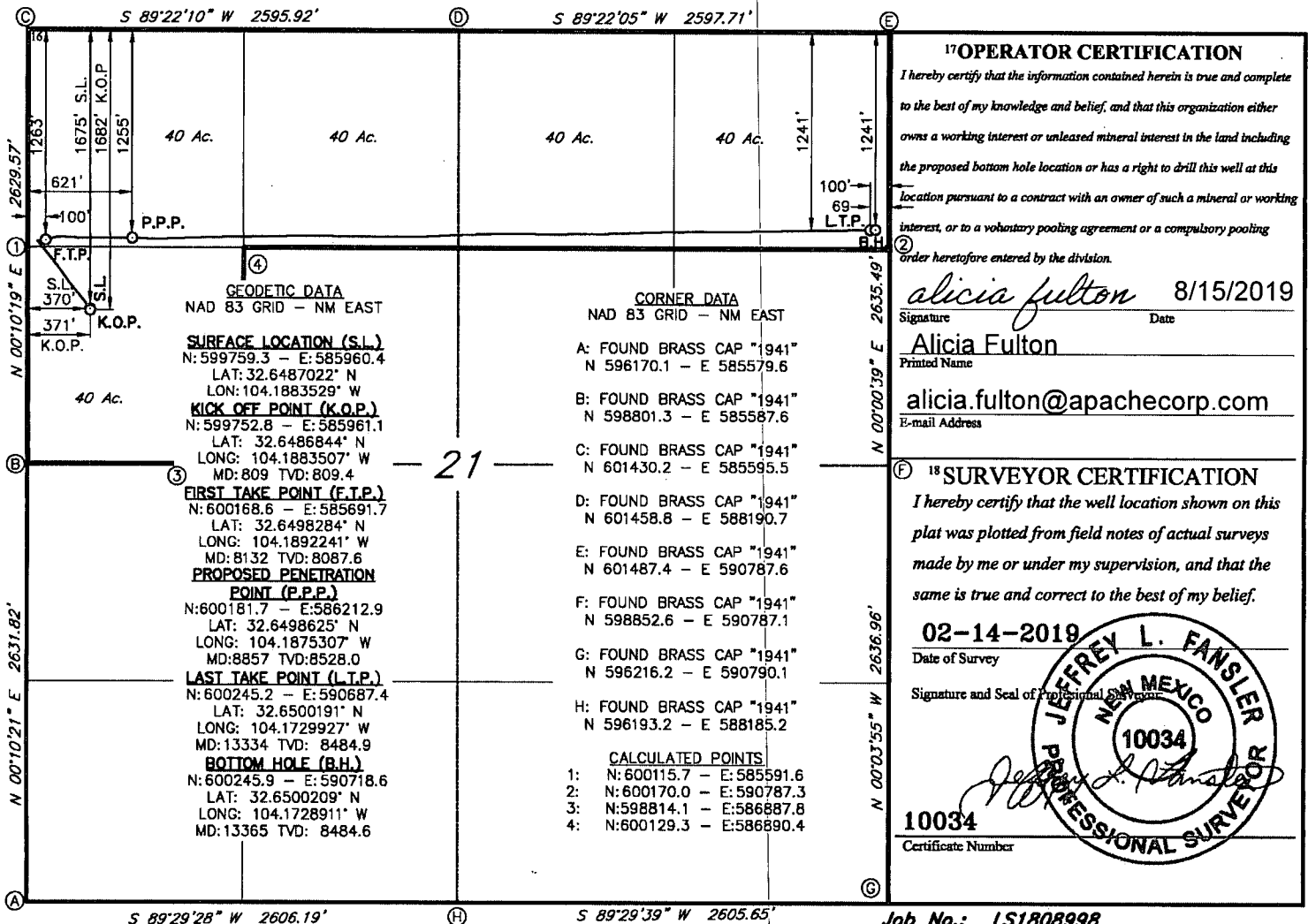
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
E	21	19S	28E		1675	NORTH	370	WEST	EDDY

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
A	21	19S	28E		1241	NORTH	69	EAST	EDDY

¹² Dedicated Acres	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.



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: *alicia fulton* Date: 8/15/2019
Printed Name: Alicia Fulton
E-mail Address: alicia.fulton@apachecorp.com

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.

Date of Survey: 02-14-2019

Signature and Seal of Professional Surveyor

10034
Certificate Number

Job No.: LS1808998

NM OIL CONSERVATION

ARTESIA DISTRICT

OCT 15 2019



Weatherford

RECEIVED

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

Date: February 14, 2019

Apache Corporation
303 Veterans Airpark Lane
Midland, TX, 79705

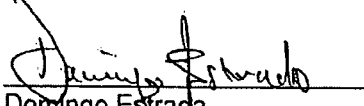
Attention: John Vacek

Re: Apache Corporation
Well: Apache Palmillo 21 State Com 325H
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:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Domingo Estrada MWD Ops. Coordinator	325H	7,951 MD 13,303 MD	2/9/2019 2/14/2019	Measurement While Drilling

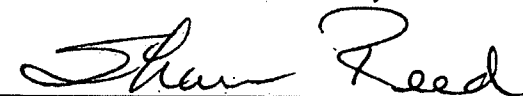
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.



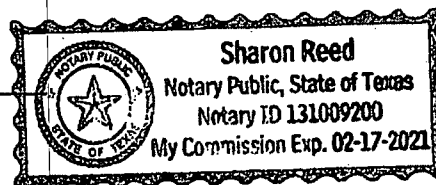
Domingo Estrada
MWD Ops. Coordinator

On this, the 18th day of February, 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 21 State Com Pad (325H,227H,324H)*
Well Name: *Palmillo 21 State Com 325H*
File number: *13600993*
Survey: *Definitive survey*

14 February 2019



5D Survey Report

Apache



Weatherford

Palmillo 21 State Com 325H

Field Name: Apache NM (Nad 183 NMEZ)	Map Units: US ft	Company Name: Apache Corporation	
	Vertical Reference Datum (VRD): Mean Sea Level		
	Projected Coordinate System: NAD83 / New Mexico East (ftUS)		
Comment:			
Site: Palmillo 21 State Com Pad (325H, 227H, 324H)	Units: US ft	North Reference: Grid	Convergence Angle: 0.08
	Position:		
	Northing: 599759.30 US ft Latitude: 32.648702310° Easting: 585960.40 US ft Longitude: -104.188352988°		
Elevation above MSL: 3458.00 US ft			
Comment: Eddy Co., NM			
Slot: Palmillo 21 State Com 325H	Position (Relative to Site Centre)		
	+N/-S: 0.00 US ft Northing: 599759.30 US ft Latitude: 32.648702310° +E/-W: 0.00 US ft Easting: 585960.40 US ft Longitude: -104.188352988°		
	Slot TVD Reference: Ground Elevation		
Elevation above MSL: 3458.00 US ft			
Comment:			
Well: Palmillo 21 State Com 325H	Type: Main well	UWI:	
	File Number: 13600993	Comment: H&P 482	
	Closure Distance: 4783.01 US ft	Closure Azimuth: 84.16°	
Vertical Section: Position of Origin (Relative to Slot centre)			
+N/-S: -0.00 US ft +E/-W: 0.00 US ft Az: 84.34°			

Drill floor: Survey Name: Definitive Survey
Rig Height (Drill Floor): 26.00 US ft **Elevation above MSL:** 3484.00 US ft **Inclination:** 0.00° **Azimuth:** 0.00°

Survey Name: Definitive Survey

Date: 24/Sep/2018	Survey Tool: See Survey Tool Ranges below.	Comment:	Company:
Magnetic Model:			
Model Name: Surcon MVHD	Date: 13/Jan/2019	Field Strength: 48018.0nT	Declination: 7.31° Dip: 60.41°
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	

SD Survey Report

Survey Tool Ranges			
Name	Start MD (US ft)	End MD (US ft)	Source / Survey
VES GyroFlex V3	0.00	7835.00	VES Gyro
MWD	7835.00	7951.00	WFT MWD 2
MWD + HDGM + MSJ	7951.00	8857.00	WFT MWD 4
MWD + HDGM + Sag Corr + MSLOW	8857.00	13365.00	WFT MWD 5

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	
7835.00	2.05	77.19	7791.89	-248.37	400.70	-289.30	0.26	600160.00	585671.10	VES Gyro Tieon	
7951.00	2.24	53.62	7907.81	-244.36	402.50	-285.45	0.77	600161.80	585674.95	First WFT MWD Svy	
8054.00	3.10	56.81	8010.69	-240.16	405.22	-281.50	0.85	600164.52	585678.90		
8148.00	16.84	74.96	8103.06	-224.40	410.17	-266.15	14.82	600169.47	585694.25		
8195.00	24.50	74.15	8147.01	-208.06	414.60	-250.17	16.31	600173.90	585710.23		
8243.00	27.45	74.83	8190.15	-187.35	420.22	-229.92	6.18	600179.52	585730.48		
8290.00	31.32	80.97	8231.11	-164.46	424.97	-207.38	10.43	600184.27	585753.02		
8338.00	36.09	88.13	8271.04	-137.87	427.39	-180.91	12.92	600186.69	585779.49		
8385.00	40.04	91.73	8308.04	-109.05	427.39	-151.95	9.64	600186.69	585808.45		
8432.00	45.41	93.33	8342.56	-77.51	425.96	-120.10	11.66	600185.26	585840.30		
8479.00	49.13	92.43	8374.45	-43.37	424.23	-85.63	8.04	600183.53	585874.77		
8527.00	51.94	90.73	8404.95	-6.61	423.22	-48.59	6.46	600182.52	585911.81		
8574.00	54.81	90.55	8432.99	30.87	422.80	-10.88	6.11	600182.10	585949.52		
8621.00	60.13	90.93	8458.25	70.24	422.29	28.73	11.34	600181.59	585989.13		
8668.00	65.15	90.02	8479.85	111.73	421.95	70.46	10.82	600181.25	586030.86		
8716.00	71.64	89.39	8497.51	156.14	422.18	115.06	13.58	600181.48	586075.46		
8763.00	75.79	89.31	8510.69	201.07	422.70	160.16	8.83	600182.00	586120.56		
8810.00	79.16	90.15	8520.88	246.74	422.91	206.04	7.38	600182.21	586166.44		
8857.00	83.41	90.95	8528.00	292.91	422.46	252.48	9.20	600181.76	586212.88		
8944.00	90.57	91.25	8532.57	379.13	420.80	339.29	8.24	600180.10	586299.69		
9039.00	91.06	89.51	8531.22	473.59	420.17	434.27	1.90	600179.47	586394.67		
9133.00	90.50	88.27	8529.94	567.29	421.99	528.24	1.45	600181.29	586488.64		
9228.00	90.85	87.65	8528.82	662.09	425.37	623.18	0.75	600184.67	586583.58		
9322.00	91.27	88.09	8527.08	755.89	428.86	717.09	0.65	600188.16	586677.49		
9417.00	90.43	89.41	8525.67	850.60	430.93	812.06	1.65	600190.23	586772.46		
9511.00	91.06	88.63	8524.45	944.28	432.54	906.04	1.07	600191.84	586866.44		
9605.00	90.29	89.15	8523.34	1037.97	434.36	1000.01	0.99	600193.66	586960.41		
9700.00	89.10	89.57	8523.84	1132.61	435.42	1095.00	1.33	600194.72	587055.40		
9795.00	89.66	88.76	8524.87	1227.26	436.81	1189.98	1.04	600196.11	587150.38		
9889.00	90.71	89.75	8524.57	1320.91	438.03	1283.97	1.54	600197.33	587244.37		
9984.00	90.92	90.39	8523.22	1415.43	437.91	1378.96	0.71	600197.21	587339.36		
10079.00	89.38	90.43	8522.97	1509.89	437.23	1473.96	1.62	600196.53	587434.36		
10173.00	89.80	90.51	8523.64	1603.35	436.46	1567.95	0.45	600195.76	587528.35		
10268.00	90.99	90.27	8522.99	1697.82	435.82	1662.95	1.28	600195.12	587623.35		
10362.00	89.66	90.92	8522.45	1791.26	434.84	1756.94	1.57	600194.14	587717.34		
10457.00	88.47	89.98	8524.00	1885.70	434.09	1851.92	1.60	600193.39	587812.32		
10551.00	88.12	89.22	8526.80	1979.26	434.75	1945.87	0.89	600194.05	587906.27		
10646.00	87.77	87.98	8530.21	2073.94	437.07	2040.78	1.36	600196.37	588001.18		
10741.00	89.38	86.99	8532.57	2168.76	441.24	2135.66	1.99	600200.54	588096.06		
10835.00	91.69	87.30	8531.69	2262.64	445.92	2229.53	2.48	600205.22	588189.93		
10930.00	93.51	87.96	8527.38	2357.38	449.84	2324.35	2.04	600209.14	588284.75		
11024.00	92.04	88.39	8522.83	2451.06	452.83	2418.18	1.63	600212.13	588378.58		
11119.00	91.76	89.07	8519.68	2545.72	454.94	2513.11	0.77	600214.24	588473.51		
11213.00	89.52	91.33	8518.63	2639.22	454.61	2607.09	3.38	600213.91	588567.49		
11308.00	89.87	89.88	8519.14	2733.64	453.60	2702.08	1.57	600212.90	588662.48		
11403.00	90.29	89.84	8519.00	2828.20	453.84	2797.08	0.44	600213.14	588757.48		
11497.00	91.06	90.14	8517.90	2921.74	453.85	2891.07	0.88	600213.15	588851.47		
11591.00	89.73	89.46	8517.25	3015.31	454.18	2985.07	1.59	600213.48	588945.47		

5D 8.6.0 (64 bit) : 14 February 2019, 07:35:10 UTC-6