

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

NM OIL CONSERVATION
ARTESIA DISTRICT

State of New Mexico
Energy, Minerals & Natural Resources Department

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

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

JUN 11 2015
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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-41414	Pool Code 96831	Pool Name Cedar Lake; Glorieta-Yeso
Property Code 308720	Property Name LEE FEDERAL	
OCRID No. 873	Operator Name APACHE CORPORATION	
		Well Number 075
		Elevation 3635'

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	20	17-S	31-E		2215	NORTH	670	WEST	EDDY

AS-Drilled 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
E	20	17-S	31-E		2305	NORTH	980	WEST	EDDY
Dedicated Acres 40		Joint or Infill		Consolidation Code		Order No.			

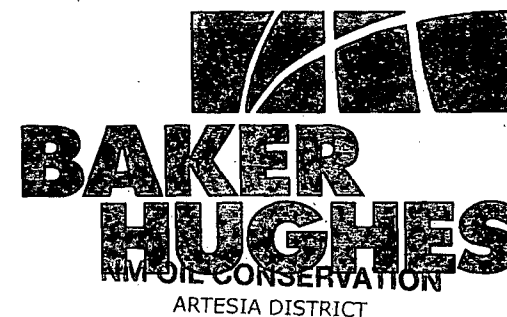
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=662683.2 N X=633813.4 E LAT.=32.821046° N LONG.=103.897746° W LAT.=32° 49' 16" N LONG.=103° 53' 52" W AS DRILLED LOCATION B.H. LOCATION Y=662595.2 N X=634123.9 E LAT.=32.820800° N LONG.=103.896736° W LAT.=32° 49' 15" N LONG.=103° 53' 48" W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y=662747.1 N X=674992.1 E LAT.=32.821163° N LONG.=103.898252° W LAT.=32° 49' 16" N LONG.=103° 53' 54" W AS DRILLED LOCATION B.H. LOCATION Y=662659.1 N X=675302.6 E LAT.=32.820918° N LONG.=103.897243° W LAT.=32° 49' 15" N LONG.=103° 53' 50" W	OPERATOR CERTIFICATION I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. 04/02/2015 Signature: <i>Fatima Vasquez</i> Date: <i>04/02/2015</i> Printed Name: <i>Fatima Vasquez</i> E-mail Address: <i>Fatima.Vasquez@apachecorp.com</i>
CORNER COORDINATES TABLE NAD 27 NME A) Y=663571.9 N, X=633138.8 E B) Y=663582.1 N, X=634459.0 E C) Y=662251.2 N, X=633145.7 E D) Y=662261.6 N, X=634466.5 E	CORNER COORDINATES TABLE NAD 83 NME A) Y=663635.7 N, X=674317.5 E B) Y=663646.0 N, X=675637.7 E C) Y=662315.0 N, X=674324.4 E D) Y=662325.4 N, X=675645.2 E	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. SEPTEMBER 20, 2012 Date of Survey: <i>11/12/2014</i> Signature of Registered Professional Surveyor: <i>Ronald J. Eidson</i> Certificate Number: <i>3239</i> Name: <i>Ronald J. Eidson</i> ID: <i>12641</i> LSL REL. W.O.: 12.11.1326 JWSC W.O.: 14.13.1204	

NOTE:
DRILL PATH PLOTTED FROM
PHOENIX TECH. SERVICE'S
PLANNING REPORT
DATED OCTOBER 16, 2014

Hydraulic Fracturing Fluid Product Component Information Disclosure

First Fracture Date:	11/26/2014	Total Chemical Mass (lbs):	5,027,617
Last Fracture Date:	11/26/2014	Total Max. Ingredient Mass (lbs):	5,029,914
State:	NEW MEXICO	Total Base Non-Water Volume (gal):	0
County:	EDDY		
API Number:	3001541414		
Operator Name:	APACHE CORP		
Well Name and Number:	LEE FEDERAL 75		
Longitude:	103.89666		
Latitude:	32.82165		
Long/Lat Projection:	NAD27		
Production Type:	OIL		
True Vertical Depth (TVD):	6,240		
Total Water Volume (gal)*:	510,678		



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Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Carrier	Water	7732-18-5	100.00%	84.6522%	
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Listed with Chemicals in Ingredients	N/A		1.8768%	SmartCare Product
Activator, 330 gal tote	Baker Hughes	Activator	Listed with Chemicals in Ingredients	N/A		0.0418%	
Alpha 125	Baker Hughes	Biocide	Listed with Chemicals in Ingredients	N/A		0.0227%	SmartCare Product
GBW-5	Baker Hughes	Breaker	Listed with Chemicals in Ingredients	N/A		0.0030%	SmartCare Product
GBW-15L	Baker Hughes	Breaker	Listed with Chemicals in Ingredients	N/A		0.0497%	SmartCare Product
ClayCare, tote	Baker Hughes	Clay Control	Listed with Chemicals in Ingredients	N/A		0.0054%	SmartCare Product
CI-14	Baker Hughes	Corrosion Inhibitor	Listed with Chemicals in Ingredients	N/A		0.0020%	SmartCare Product
XLW-10A	Baker Hughes	Crosslinker	Listed with Chemicals in Ingredients	N/A		0.1259%	
GW-3	Baker Hughes	Gelling Agent	Listed with Chemicals in Ingredients	N/A		0.1402%	
Ferrotrol 280L	Baker Hughes	Iron Control	Listed with Chemicals in Ingredients	N/A		0.0060%	

Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
NE-35, 330 gl tote	Baker Hughes	Non-emulsifier	Listed with Chemicals in Ingredients	N/A		0.0930%	
Sand, Brown, 16/30	Baker Hughes	Proppant	Listed with Chemicals in Ingredients	N/A		10.5315%	
SiberProp, 16/30	Baker Hughes	Proppant	Listed with Chemicals in Ingredients	N/A		2.3323%	
InFlo 251G	Baker Hughes	Surfactant	Listed with Chemicals in Ingredients	N/A		0.0787%	
Chemical Ingredients	Baker Hughes	Treatment System	2-Mercaptoethanol	60-24-2	100.000000000%	0.006023%	
			Alcohols, C10-16, ethoxylated propoxylated	69227-22-1	7.000000000%	0.005504%	
			Alcohols, C12-14-Secondary, Ethoxylated	84133-50-6	70.000000000%	0.029247%	
			Alcohols, C6-12, ethoxylated propoxylated	68937-66-6	7.000000000%	0.005504%	
			Alcohols, ethoxylated	68551-12-2	8.000000000%	0.006290%	
			Amines, unsatd, alkyl, ethoxylated	68155-39-5	4.000000000%	0.003145%	
			Ammonium Hydroxide	1336-21-6	5.000000000%	0.000301%	
			Ammonium Persulphate	7727-54-0	100.000000000%	0.002982%	
			Benzenesulfonic acid, hexadecyl(sulfophenoxy)-, disodium salt	65143-89-7	2.000000000%	0.001860%	
			Choline Chloride	67-48-1	75.000000000%	0.004062%	
			Crystalline Silica (Quartz)	14808-60-7	100.000000000%	10.526701%	
			Cupric Chloride	7447-39-4	5.000000000%	0.000301%	
			Enzyme solution	9012-54-8	100.000000000%	0.049680%	
			Ethanol	64-17-5	10.000000000%	0.007863%	
			Ethylene Glycol	107-21-1	25.000000000%	0.031469%	
			Fatty Acids	61790-12-3	10.000000000%	0.000202%	
			Formaldehyde	50-00-0	1.000000000%	0.000020%	
			Glutaraldehyde	111-30-8	30.000000000%	0.006809%	
			Guar Gum	9000-30-0	100.000000000%	0.140161%	
			Hydrochloric Acid	7647-01-0	15.000000000%	0.281415%	
			Methanol	67-56-1	100.000000000%	0.022965%	
			Modified Thiourea Polymer	68527-49-1	7.000000000%	0.000141%	
			Nonionic glycol ester	68400-71-5	25.000000000%	0.023248%	
			Olefin	64743-02-8	5.000000000%	0.000101%	
			Polyethylene glycol	25322-68-3	5.000000000%	0.002089%	

Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
			Polyoxyalkylenes	68951-67-7	30.000000000%	0.000605%	
			Propargyl Alcohol	107-19-7	5.000000000%	0.000101%	
			Propylene Glycol	57-55-6	15.000000000%	0.013949%	
			Quartz (SiO ₂)	14808-60-7	100.000000000%	2.331253%	
			Sodium Hydroxide	1310-73-2	9.000000000%	0.011329%	
			Sodium Tetraborate	1330-43-4	12.000000000%	0.015105%	
			Sodium lauriminodipropionate	14960-06-6	1.000000000%	0.000930%	
			Sodium octylimodipropionate	94441-92-6	3.000000000%	0.002790%	
			Water	7732-18-5	85.000000000%	1.813691%	

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

Apache Corporation
303 Veterans Airpark Lane, #3000
Midland, TX 79705

Lee Federal #075 API # 30-015-41414

Eddy County, New Mexico SL: 2215' FNL + 670' FNL UL: E 20-178-31E

210	2.10	1.00	1.75	3.68	3.68
517	3.07	0.80	1.40	4.30	7.97

NM OIL CONSERVATION
ARTESTA DISTRICT

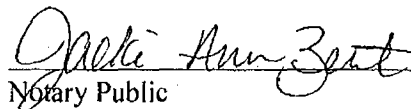
JUN 11 2015

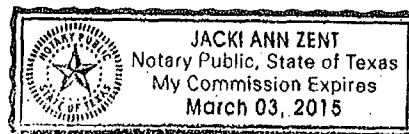
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Archie Brown - General Manager

The attached instrument was acknowledged before me on the 22nd day of October, 2014 by
Archie Brown - General Manager, CapStar Drilling, Inc.


Notary Public





NM OIL CONSERVATION
ARTESIA DISTRICT

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Apache Corporation

Eddy County, NM (NAD27 NME)

Lee Federal

#75

WB1 / Job #1411871

Survey: Phoenix MWD Survey

Standard Survey Report

16 October, 2014



Company:	Apache Corporation	Local Co-ordinate Reference:	Well #75
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3646.00usft (Capstar 114)
Site:	Lee Federal	MD Reference:	KB @ 3646.00usft (Capstar 114)
Well:	#75	North Reference:	Grid
Wellbore:	WB1 / Job #1411871	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 114)	Database:	Compass 5000 GCR DB

Project		Eddy County, NM (NAD27 NME)	
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Lee Federal			
Site Position:		Northing:	664,811.60 usft	Latitude:	32° 49' 36.77792 N
From:	Map	Easting:	634,967.00 usft	Longitude:	103° 53' 38.26184 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.24 °

Well:	#75					
Well Position	+N/-S	0.00 usft	Northing:	662,683.20 usft	Latitude:	32° 49' 15.76435 N
	+E/-W	0.00 usft	Easting:	633,813.40 usft	Longitude:	103° 53' 51.88384 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,635.00 usft

Wellbore:		WB1 / Job #1411871			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	9/18/2014	7.55	60.60	48,569

Design:	Surveys (Capstar 114)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	N/S	E/W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	106.09	

Survey Program		Date	10/16/2014		
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.00	497.00	Gyro Survey (WB1 / Job #1411871)	NS-GYRO-MS	North sensing gyrocompassing m/s	
497.00	6,422.00	Phoenix MWD Survey (WB1 / Job #14118	PHX+MWD+BGGM	PHX+MWD+BGGM v3:standard declination	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
497.00	0.90	351.70	496.99	1.09	0.21	-0.10	0.00	0.00	0.00
Tie-on Gyro Survey									
517.00	0.80	337.70	516.99	1.37	0.13	-0.25	1.15	-0.50	-70.00
First Phoenix MWD Survey									
644.00	0.80	347.90	643.98	3.06	-0.39	-1.22	0.11	0.00	8.03
772.00	0.80	9.70	771.96	4.82	-0.42	-1.74	0.24	0.00	17.03
900.00	0.80	17.50	899.95	6.55	-0.01	-1.82	0.09	0.00	6.09
1,029.00	0.80	48.30	1,028.94	8.01	0.94	-1.32	0.33	0.00	23.88
1,156.00	1.40	58.10	1,155.92	9.42	2.92	0.19	0.49	0.47	7.72

Company:	Apache Corporation	Local Co-ordinate Reference:	Well #75
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3646.00usft (Capstar 114)
Site:	Lee Federal	MD Reference:	KB @ 3646.00usft (Capstar 114)
Well:	#75	North Reference:	Grid
Wellbore:	WB1 / Job #1411871	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 114)	Database:	Compass 5000 GCR DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,284.00	1.60	79.40	1,283.87	10.57	6.00	2.84	0.46	0.16	16.64
1,415.00	3.30	96.90	1,414.75	10.46	11.54	8.19	1.40	1.30	13.36
1,544.00	3.90	104.30	1,543.49	8.93	19.48	16.24	0.59	0.47	5.74
1,672.00	4.00	109.40	1,671.19	6.37	27.91	25.05	0.29	0.08	3.98
1,800.00	3.90	111.90	1,798.89	3.26	36.16	33.84	0.16	-0.08	1.95
2,056.00	3.70	107.20	2,054.32	-2.43	52.13	50.76	0.14	-0.08	-1.84
2,184.00	3.50	104.60	2,182.07	-4.63	59.85	58.79	0.20	-0.16	-2.03
2,313.00	3.30	101.60	2,310.85	-6.37	67.30	66.43	0.21	-0.16	-2.33
2,441.00	3.20	110.90	2,438.64	-8.39	74.25	73.66	0.42	-0.08	7.27
2,569.00	3.00	108.90	2,566.45	-10.75	80.75	80.57	0.18	-0.16	-1.56
2,697.00	3.50	115.30	2,694.25	-13.50	87.45	87.77	0.48	0.39	5.00
2,826.00	3.70	118.10	2,822.99	-17.15	94.69	95.73	0.21	0.16	2.17
2,954.00	4.00	121.90	2,950.70	-21.45	102.12	104.06	0.31	0.23	2.97
3,082.00	4.40	125.80	3,078.36	-26.68	109.89	112.98	0.38	0.31	3.05
3,210.00	4.80	125.80	3,205.95	-32.69	118.22	122.65	0.31	0.31	0.00
3,339.00	4.80	115.80	3,334.50	-38.19	127.46	133.05	0.65	0.00	-7.75
3,448.00	4.30	105.20	3,443.16	-41.25	135.50	141.63	0.90	-0.46	-9.72
3,548.00	4.00	105.10	3,542.89	-43.14	142.49	148.86	0.30	-0.30	-0.10
3,676.00	3.60	104.90	3,670.61	-45.34	150.68	157.35	0.31	-0.31	-0.16
3,805.00	3.50	105.60	3,799.36	-47.44	158.39	165.33	0.08	-0.08	0.54
3,933.00	3.40	103.20	3,927.13	-49.36	165.85	173.03	0.14	-0.08	-1.88
4,061.00	3.40	102.80	4,054.91	-51.06	173.25	180.61	0.02	0.00	-0.31
4,192.00	3.30	101.10	4,185.68	-52.65	180.73	188.25	0.11	-0.08	-1.30
4,321.00	3.30	99.00	4,314.47	-53.95	188.04	195.63	0.09	0.00	-1.63
4,449.00	3.00	100.50	4,442.28	-55.13	194.98	202.62	0.24	-0.23	1.17
4,577.00	2.90	104.70	4,570.11	-56.56	201.40	209.19	0.19	-0.08	3.28
4,706.00	2.50	102.90	4,698.96	-58.02	207.30	215.26	0.32	-0.31	-1.40
4,834.00	3.00	108.10	4,826.81	-59.68	213.21	221.39	0.44	0.39	4.06
4,962.00	4.50	115.10	4,954.54	-62.86	220.94	229.70	1.22	1.17	5.47
5,091.00	4.70	116.70	5,083.12	-67.38	230.24	239.89	0.18	0.16	1.24
5,219.00	4.80	116.00	5,210.68	-72.08	239.74	250.32	0.09	0.08	-0.55
5,350.00	4.40	115.70	5,341.26	-76.66	249.19	260.68	0.31	-0.31	-0.23
5,482.00	4.40	111.00	5,472.87	-80.67	258.48	270.72	0.27	0.00	-3.56
5,610.00	3.80	102.20	5,600.55	-83.33	267.21	279.84	0.68	-0.47	-6.88
5,738.00	3.50	97.80	5,728.29	-84.76	275.23	287.94	0.32	-0.23	-3.44
5,870.00	4.10	105.60	5,860.00	-86.57	283.77	296.64	0.60	0.45	5.91
6,001.00	3.30	101.40	5,990.72	-88.58	291.97	305.08	0.64	-0.61	-3.21
6,132.00	3.00	99.00	6,121.52	-89.86	299.06	312.24	0.25	-0.23	-1.83
6,264.00	2.20	74.60	6,253.39	-89.72	304.91	317.83	1.02	-0.61	-18.48
6,370.00	2.10	72.30	6,359.32	-88.59	308.72	321.18	0.12	-0.09	-2.17
Last Phoenix MWD Survey									
6,422.00	2.10	72.30	6,411.28	-88.01	310.54	322.77	0.00	0.00	0.00
Projection to TD									

Company:	Apache Corporation	Local Co-ordinate Reference:	Well #75
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3646.00usft (Capstar 114)
Site:	Lee Federal	MDI Reference:	KB @ 3646.00usft (Capstar 114)
Well:	#75	North Reference:	Grid
Wellbore:	WB1 / Job #1411871	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 114)	Database:	Compass 5000 GCR DB

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		N/S (usft)	E/W (usft)	
497.00	496.99	1.09	0.21	Tie-on Gyro Survey
517.00	516.99	1.37	0.13	First Phoenix MWD Survey
6,370.00	6,359.32	-88.59	308.72	Last Phoenix MWD Survey
6,422.00	6,411.28	-88.01	310.54	Projection to TD

Checked By: _____ Approved By: _____ Date: _____