

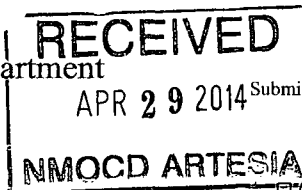
DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-41348	Pool Code 96831	Pool Name Cedar Lake; Glorieta-Yeso
Property Code 308720	Property Name LEE FEDERAL	Well Number 071
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3676'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	20	17-S	31-E		1920	SOUTH	2220	WEST	EDDY

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
K	20	17-S	31-E		1678	SOUTH	2297	WEST	EDDY

Dedicated Acres 40.0	Joint or Infill	Consolidation Code	Order No.
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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=661550.1 N X=635369.7 E LAT.=32.817913° N LONG.=103.892695° W LAT.=32° 49' 04" N LONG.=103° 53' 34" W BOTTOM HOLE LOCATION Y=661280.8 N X=635461.3 E GRID AZ.=161°13'17" HORIZ. DIST.=284.5' CORNER COORDINATES TABLE A) Y=662261.6 N, X=634466.5 E B) Y=662272.0 N, X=635786.0 E C) Y=660942.9 N, X=634473.9 E D) Y=660952.9 N, X=635793.3 E	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. <i>[Signature]</i> 04/25/2014 Signature Date Fatima Vasquez Printed Name Fatima.Vasquez@apachecorp.com E-mail Address 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. MAY 21, 2012 Date of Survey Signature & Seal of Professional Surveyor: Certificate Number 3239 Gary G. Eidson 12641 Ronald J. Eidson 3239 AF PROFESSIONAL SURVEYOR W.O.: 12.11.0606
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Apache Corporation

Eddy County, New Mexico

Sec 20, T17-S, R31-E

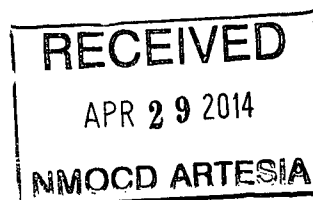
Lee Federal #71 API # 30-015-41348

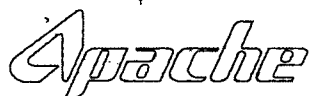
Wellbore #1

Design: Wellbore #1

DDC Survey Report

11 March, 2014





DDC
Survey Report



Company:	Apache Corporation	Local Co-ordinate Reference:	Well Lee Federal #71
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3689.0usft (Original Well Elev)
Site:	Sec 20, T17-S, R31-E	MD Reference:	WELL @ 3689.0usft (Original Well Elev)
Well:	Lee Federal #71	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Eddy County, New Mexico		
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	Sec 20, T17-S, R31-E		
Site Position:		Northing:	661,172.80 usft
From:	Map	Easting:	634,332.20 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 49' 0.798 N
		Longitude:	103° 53' 45.878 W
		Grid Convergence:	0.24 °

Well	Lee Federal #71		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 49' 4.488 N
		Longitude:	103° 53' 33.702 W
		Ground Level:	3,676.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	1/7/2014	7.46
			Dip Angle
			(°)
			60.62
			Field Strength
			(nT)
			48,680

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			163.98

Survey Program	Date 3/11/2014		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
290.0	6,408.0	MWD (Wellbore #1)	MWD default
			Description
			MWD - Standard

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
TIE IN @ 290' MD / 290' TVD									
290.0	0.51	131.71	290.0	-0.9	1.0	1.1	0.18	0.18	0.00
416.0	1.20	111.20	416.0	-1.7	2.6	2.4	0.59	0.55	-16.28
533.0	1.20	112.50	533.0	-2.6	4.9	3.9	0.02	0.00	1.11
648.0	2.20	105.20	647.9	-3.7	8.1	5.8	0.89	0.87	-6.35
804.0	1.10	100.80	803.8	-4.7	12.5	8.0	0.71	-0.71	-2.82
975.0	0.90	70.80	974.8	-4.6	15.4	8.7	0.32	-0.12	-17.54
1,103.0	0.70	138.80	1,102.8	-4.8	16.8	9.3	0.71	-0.16	53.13
1,277.0	2.10	136.70	1,276.7	-8.0	19.7	13.1	0.81	0.80	-1.21
1,406.0	1.10	155.80	1,405.7	-10.8	21.8	16.4	0.87	-0.78	14.81

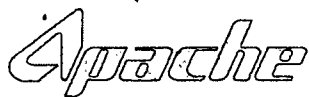


DDC
Survey Report



Company:	Apache Corporation	Local Co-ordinate Reference:	Well Lee Federal #71
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3689.0usft (Original Well Elev)
Site:	Sec 20, T17-S, R31-E	MD Reference:	WELL @ 3689.0usft (Original Well Elev)
Well:	Lee Federal #71	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User 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)
1,449.0	0.70	171.30	1,448.7	-11.5	22.1	17.1	1.08	-0.93	36.05
1,492.0	0.60	174.10	1,491.7	-11.9	22.1	17.6	0.24	-0.23	6.51
1,534.0	0.50	168.90	1,533.7	-12.3	22.2	18.0	0.27	-0.24	-12.38
1,620.0	0.40	173.20	1,619.7	-13.0	22.3	18.6	0.12	-0.12	5.00
1,706.0	0.60	144.10	1,705.7	-13.7	22.6	19.4	0.37	0.23	-33.84
1,791.0	1.10	195.00	1,790.7	-14.8	22.6	20.5	1.01	0.59	59.88
1,834.0	1.60	197.80	1,833.7	-15.8	22.3	21.3	1.17	1.16	6.51
1,877.0	2.40	196.40	1,876.6	-17.2	21.9	22.6	1.86	1.86	-3.26
1,962.0	3.10	197.10	1,961.5	-21.1	20.7	26.0	0.82	0.82	0.82
2,133.0	3.10	199.80	2,132.3	-29.9	17.8	33.6	0.09	0.00	1.58
2,307.0	3.00	202.20	2,306.0	-38.5	14.5	41.0	0.09	-0.06	1.38
2,479.0	3.00	203.70	2,477.8	-46.8	11.0	48.0	0.05	0.00	0.87
2,650.0	3.10	203.10	2,648.6	-55.2	7.4	55.1	0.06	0.06	-0.35
2,778.0	3.00	204.10	2,776.4	-61.4	4.6	60.3	0.09	-0.08	0.78
2,821.0	3.20	206.90	2,819.3	-63.5	3.6	62.1	0.58	0.47	6.51
2,992.0	4.30	204.70	2,989.9	-73.6	-1.2	70.4	0.65	0.64	-1.29
3,121.0	5.90	174.70	3,118.5	-84.6	-2.6	80.6	2.37	1.24	-23.26
3,163.0	5.80	171.10	3,160.2	-88.8	-2.1	84.8	0.91	-0.24	-8.57
3,292.0	4.80	153.10	3,288.7	-100.1	1.4	96.6	1.49	-0.78	-13.95
3,459.0	4.00	167.90	3,455.2	-112.0	5.8	109.3	0.83	-0.48	8.86
3,517.0	3.80	168.50	3,513.1	-115.9	6.6	113.2	0.35	-0.34	1.03
3,603.0	4.40	134.10	3,598.9	-121.0	9.5	118.9	2.90	0.70	-40.00
3,731.0	1.70	165.30	3,726.7	-126.2	13.5	125.1	2.40	-2.11	24.38
3,860.0	4.00	138.20	3,855.5	-131.4	17.0	131.0	2.02	1.78	-21.01
3,988.0	3.70	139.00	3,983.2	-137.9	22.7	138.8	0.24	-0.23	0.63
4,117.0	3.80	137.90	4,111.9	-144.2	28.3	146.4	0.10	0.08	-0.85
4,245.0	3.90	137.80	4,239.7	-150.6	34.0	154.1	0.08	0.08	-0.08
4,374.0	2.70	161.10	4,368.4	-156.7	38.0	161.1	1.38	-0.93	18.06
4,502.0	2.30	161.30	4,496.3	-162.0	39.8	166.7	0.31	-0.31	0.16
4,630.0	2.20	157.00	4,624.2	-166.7	41.6	171.7	0.15	-0.08	-3.36
4,759.0	2.00	155.20	4,753.1	-171.0	43.5	176.3	0.16	-0.16	-1.40
4,887.0	2.20	151.60	4,881.1	-175.2	45.6	181.0	0.19	0.16	-2.81
5,061.0	2.20	150.40	5,054.9	-181.0	48.8	187.5	0.03	0.00	-0.69
5,189.0	2.50	174.50	5,182.8	-185.9	50.3	192.6	0.80	0.23	18.83
5,317.0	3.00	147.30	5,310.7	-191.5	52.4	198.5	1.08	0.39	-21.25
5,445.0	2.60	140.60	5,438.5	-196.6	56.0	204.4	0.40	-0.31	-5.23
5,573.0	3.70	151.20	5,566.3	-202.5	59.9	211.1	0.97	0.86	8.28
5,702.0	3.40	166.90	5,695.1	-209.8	62.7	219.0	0.79	-0.23	12.17
5,830.0	2.60	160.60	5,822.9	-216.3	64.6	225.7	0.68	-0.63	-4.92
5,958.0	2.60	152.50	5,950.8	-221.6	66.9	231.4	0.29	0.00	-6.33
6,086.0	4.00	159.50	6,078.6	-228.3	69.8	238.7	1.14	1.09	5.47
6,214.0	3.10	165.90	6,206.3	-235.9	72.2	246.6	0.77	-0.70	5.00
6,361.0	2.20	121.50	6,353.2	-241.2	75.5	252.7	1.48	-0.61	-30.20



DDC
Survey Report



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Well:	Lee Federal #71	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User 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)
TD @ 6408' MD / 6400' TVD									
6,408.0	2.20	121.50	6,400.1	-242.1	77.1	254.0	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
TIE IN	0.00	0.00	290.0	-0.9	0.4	661,549.24	635,370.14	32° 49' 4.480 N	103° 53' 33.697 W
- actual wellpath misses target center by 0.5usft at 290.0usft MD (290.0 TVD, -0.9 N, 1.0 E)									
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
290.0	290.0	-0.9	1.0	TIE IN @ 290' MD / 290' TVD
6,408.0	6,400.1	-242.1	77.1	TD @ 6408' MD / 6400' TVD

Checked By: _____ Approved By: _____ Date: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMLC-029395B

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
Apache Corporation (873)3a. Address
303 Veterans Airpark Ln., Ste 3000
Midland, TX 797053b. Phone No. (include area code)
(432) 818-1015

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.
Lee Federal #71 (308720)9. API Well No.
30-015-4134810. Field and Pool or Exploratory Area
Cedar Lake; Glorieta-Yeso (96831)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1920' FSL & 2220' FWL ULK Sec:20 T:17S R:31E

11. County or Parish, State
Eddy, NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☒ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Apache completed this well as follows:

01/23/2014 MIRUSU. Log TOC @ 69'. Perf Blinbry @ 5510', 33', 59', 80', 5600', 16', 36', 69', 86', 5710', 28', 43', 78', 94', 5809', 39', 81', 98', 5930', 43', 64', 80', 96', 6016', 33', 54', 73', 6106', 20', 55', 82', 96', 6220', 40', 60', & 80' w/ 1 SPF, 36 holes.

01/24/2014 Spot 715 gals of acid. Acidize w/ 2646 gals 15% HCl NEFE acid.

02/03/2014 Frac Blinbry w/ 238,014 gals 20# & 293,309# 16/30 sand. Flush w/ 3948 gals 10# linear gel. Spot 1344 gals 15% HCl acid. Set CBP @ 5490' Perf Glorieta/Yeso @ 4730', 58', 90', 4813', 28', 55', 79', 4908', 22', 38', 68', 93', 5012', 46', 65', 83', 5101', 23', 43', 60', 74', 93', 5220', 40', 56', 5315', 27', 75', 5416', & 36' w/ 1 SPF, 30 holes. Acidize w/ 4326 gals 15% HCl acid.

02/04/2014 Frac Glorieta/Yeso w/ 234,990 gals 20# & 314,093# 16/30 sand. Flush w/ 4956 gals 10# linear gel.

02/17/2014 DO CBP @ 5490'. Wash sand to PBTD @ 6380'.

02/18/2014 RIH w/ 2-7/8" J-55 6.5# prod tbg. SN @ 6273'. ETD @ 6395'.

02/19/2014 RIH w/ pump & rods. Clean location. RDMOSU.

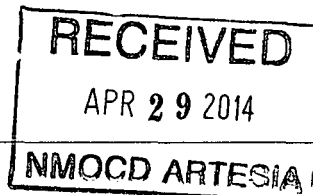
03/07/2014 Set new 640 pumping unit. POP.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
Fatima Vasquez

Title Regulatory Analyst II

Signature

Date 04/25/2014

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)