

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTNMOCD
ArtesiaFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**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.
NMLC029435B

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.7. If Unit or CA/Agreement, Name and/or No.
NMNM134086

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
NFE FEDERAL 28H2. Name of Operator
APACHE CORPORATIONContact: EMILY FOLLIS
E-Mail: Emily.Follis@apachecorp.com9. API Well No.
30-015-42653-00-X13a. Address
303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432-818-180110. Field and Pool, or Exploratory
CEDAR LAKE

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

Sec 6 T17S R31E SESE 0920FSL 0155FEL
32.858687 N Lat, 103.900501 W Lon11. County or Parish, and State
EDDY COUNTY, NM**12. CHECK 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	Production Start-up
	☐ 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall 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 the well as follows: (RR 02/16/15)
04/16/15 RU WEATHERFORD WL RUN GR-CNL-CBL LOG FROM 4351' TO SURF
04/17/15 DO DV TOOL/CIRC CLEAN
04/20/15 MILL DEBRIS SUB RDMO, PREP TO FRAC LATER
08/18/15 RU FRACK STACK, SPOT ACID TANKS
08/19 - 20/15 UNLOAD ACID & SAND TO TANKS
08/20/15 WAITING ON ELITE WELL SERVICE- ISSUES WITH MANIFOLD THERE TRAILER
08/20-21/15 ELITE WELL SERVICE - PACKER PLUS SYSTEM
FRAC 5261-9161' (TD 9200')
PACKERS@ 5260,5485,5750,6020,6284,6551,6830,7105,7377,7640,7917,8183,8453,8730,9008 (15 STAGES)
TOTAL ACID 2466 BBL, TOTAL SAND 2,845,040#
RDMO FRAC & OTHER SERVES NOT NEEDED

UDS 12/17/15
Accepted for record
NMOCD

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #324191 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Carlsbad
Committed to AFMSS for processing by JENNIFER SANCHEZ on 11/20/2015 (16JAS1222SE)

Name (Printed/Typed) EMILY FOLLIS

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 11/19/2015

ACCEPTED FOR RECORD THIS SPACE FOR FEDERAL OR STATE OFFICE USEApproved By **/S/ DAVID R. GLASS**

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #324191 that would not fit on the form

32. Additional remarks, continued

09/11/15 MIRU WO -PREP TO MILL OUT SLEEVES SDFWE

09/14 - 09/16/15 MILL OUT SLEEVES

09/17/15 ALL SLEEVES MILLED OUT POOH WITH TBG & MILL, RD WOR & CAP WELL, WAIT ON PRODUCTION

10/30/15 MIRU, RACK & TBG, FLOW WELL BACK SI SDFWE

11/2/15 RIH W/GE SP RDMO

11/7/15 SET SURFACE, RUN ELECTRICAL, PLUMB INTO BATTERY, TURN OVER TO PRODUCTION

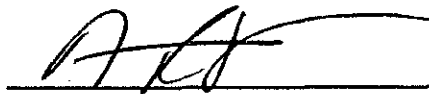
11/09/15 POP - FIRST FLOW

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

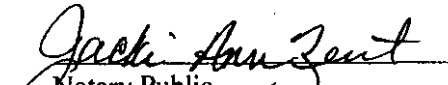
NFE Federal #028H
Eddy County, New Mexico

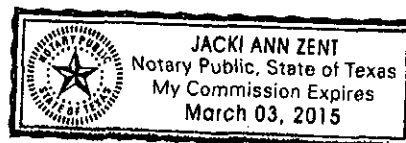
API # 30-015-42653
ULL-P, Sec. 6, T17S, R31E
920 FSL, + 155 FES

196	1.96	0.50	0.88	1.72	1.72
468	2.72	1.50	2.63	7.14	8.86
687	2.19	1.40	2.45	5.37	14.22
877	1.90	1.50	2.63	4.99	19.21
1132	2.55	1.30	2.28	5.80	25.01
1351	2.19	1.90	3.33	7.28	32.29
1540	1.89	1.00	1.75	3.31	35.60
1730	1.90	1.30	2.28	4.32	39.92
2172	4.42	0.60	1.05	4.64	44.56
2362	1.90	0.80	1.40	2.66	47.22
2573	2.11	0.90	1.58	3.32	50.55
2794	2.21	0.80	1.40	3.09	53.64
3014	2.20	0.40	0.70	1.54	55.18
3266	2.52	0.80	1.40	3.53	58.71
3338	0.72	0.70	1.23	0.88	59.59
3611	2.73	1.00	1.75	4.78	64.37
3867	2.56	0.80	1.40	3.58	67.95
4090	2.23	0.90	1.58	3.51	71.46
4380	2.90	0.70	1.23	3.55	75.02


Archie Brown - General Manager

The attached instrument was acknowledged before me on the 24th day of February, 2015 by
Archie Brown - General Manager, CapStar Drilling, Inc.


Notary Public





Apache Corporation

Eddy County, NM (NAD27 NME)

NFE Federal

#28H

WB1 / Job #1512833

Design: Surveys (Capstar 119)

Standard Survey Report

12 February, 2015



Company:	Apache Corporation	Local Co-ordinate Reference:	Well #28H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3763.00usft (Capstar 119)
Site:	NFE Federal	MD Reference:	KB @ 3763.00usft (Capstar 119)
Well:	#28H	North Reference:	Grid
Wellbore:	WB1 / Job #1512833	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 119)	Database:	Compass 5000 GCR

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	NFE Federal		
Site Position:		Northing:	673,264.70 usft
From:	Map	Easting:	633,303.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 51' 0.49036 N
		Longitude:	103° 53' 57.34966 W
		Grid Convergence:	0.24 °

Well	#28H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 51' 31.27214 N
		Longitude:	103° 54' 1.80360 W
		Ground Level:	3,752.00 usft

Wellbore	WB1 / Job #1512833		
Magnetics	Model Name	Sample Date	Declination
	BGGM2014	1/30/2015	7.52
			Dip Angle
			60.62
			Field Strength
			48,545

Design	Surveys (Capstar 119)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			269.62

Survey Program	Date 2/12/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.00	4,275.00	Phoenix Gyro Surveys (WB1 / Job #15128	NS-GYRO-MS
4,354.00	9,200.00	Phoenix MWD Surveys (WB1 / Job #1512	PHX+MWD+BGGM
			Description
			North sensing gyrocompassing m/s
			PHX+MWD+BGGM v3: standard declination

Survey										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.22	73.51	100.00	0.05	0.18	-0.18	0.22	0.22	0.00	
200.00	0.53	18.71	200.00	0.55	0.52	-0.52	0.44	0.31	-54.80	
300.00	0.77	52.81	299.99	1.39	1.20	-1.21	0.44	0.24	34.10	
400.00	1.39	14.96	399.97	2.97	2.05	-2.07	0.91	0.62	-37.85	
500.00	1.25	19.29	499.85	5.17	2.72	-2.76	0.17	-0.14	4.33	
600.00	1.20	60.25	599.93	6.72	3.99	-4.04	0.86	-0.05	40.96	
700.00	1.17	142.69	699.91	6.43	5.52	-5.56	1.56	-0.03	82.44	
800.00	1.33	54.80	799.90	6.28	7.09	-7.13	1.74	0.16	-87.89	
900.00	1.21	2.74	899.87	8.01	8.08	-8.14	1.12	-0.12	-52.06	

Company:	Apache Corporation	Local Co-ordinate Reference:	Well #28H
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Site:	NFE Federal	MD Reference:	KB @ 3763.00usft (Capstar 119)
Well:	#28H	North Reference:	Grid
Wellbore:	WB1 / Job #1512833	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 119)	Database:	Compass 5000 GCR

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)	
1,000.00	1.21	273.52	999.86	9.13	7.08	-7.14	1.70	0.00	-89.22	
1,100.00	1.56	65.21	1,099.85	9.76	7.26	-7.33	2.69	0.35	151.69	
1,200.00	1.64	45.24	1,199.81	11.34	9.52	-9.59	0.56	0.08	-19.97	
1,300.00	1.51	49.28	1,299.77	13.21	11.53	-11.62	0.17	-0.13	4.04	
1,400.00	1.15	140.53	1,399.75	13.29	13.17	-13.26	1.92	-0.36	91.25	
1,500.00	1.20	50.03	1,499.74	13.19	14.61	-14.69	1.67	0.05	-90.50	
1,600.00	1.40	37.80	1,599.71	14.83	16.16	-16.26	0.34	0.20	-12.23	
1,700.00	1.14	169.91	1,699.70	14.82	17.08	-17.18	2.32	-0.26	132.11	
1,800.00	0.87	340.76	1,799.70	14.55	17.01	-17.10	2.00	-0.27	170.85	
1,900.00	0.87	293.21	1,899.69	15.57	16.06	-16.16	0.70	0.00	-47.55	
2,000.00	1.12	141.75	1,999.68	15.10	15.97	-16.07	1.93	0.25	-151.46	
2,100.00	1.11	71.59	2,099.67	14.64	17.49	-17.59	1.28	-0.01	-70.16	
2,200.00	0.77	228.67	2,199.66	14.50	17.90	-18.00	1.84	-0.34	157.08	
2,300.00	0.79	19.45	2,299.66	14.71	17.63	-17.73	1.51	0.02	150.78	
2,400.00	0.71	239.32	2,399.65	15.04	17.33	-17.43	1.41	-0.08	-140.13	
2,500.00	0.66	30.88	2,499.65	15.22	17.09	-17.19	1.33	-0.05	151.56	
2,600.00	0.55	150.88	2,599.65	15.29	17.62	-17.72	1.05	-0.11	120.00	
2,700.00	0.75	224.02	2,699.64	14.40	17.40	-17.49	0.79	0.20	73.14	
2,800.00	0.56	38.90	2,799.64	14.31	17.25	-17.34	1.31	-0.19	174.88	
2,900.00	0.42	358.41	2,899.64	15.06	17.55	-17.65	0.36	-0.14	-39.49	
3,000.00	0.48	270.43	2,999.64	15.43	17.13	-17.23	0.83	0.06	-88.98	
3,100.00	0.59	266.51	3,099.63	15.40	16.20	-16.30	0.12	0.11	-3.92	
3,200.00	0.53	76.45	3,199.63	15.48	16.13	-16.23	1.12	-0.06	169.94	
3,300.00	0.64	353.88	3,299.63	16.14	16.52	-16.63	0.78	0.11	-82.57	
3,400.00	0.64	343.19	3,399.62	17.23	16.30	-16.42	0.12	0.00	-10.69	
3,500.00	0.72	322.27	3,499.61	18.26	15.76	-15.86	0.26	0.08	-20.92	
3,600.00	0.75	341.87	3,599.61	19.38	15.17	-15.30	0.25	0.03	19.60	
3,700.00	0.99	311.54	3,699.59	20.58	14.32	-14.45	0.51	0.24	-30.33	
3,800.00	0.89	226.28	3,799.58	20.61	13.11	-13.25	1.28	-0.10	-85.26	
3,900.00	0.73	183.67	3,899.58	19.44	12.51	-12.64	0.61	-0.16	-42.61	
4,000.00	0.74	312.43	3,999.57	19.24	11.99	-12.12	1.33	0.01	128.76	
4,100.00	0.68	101.84	4,099.57	19.56	12.09	-12.22	1.37	-0.06	149.41	
4,200.00	0.56	153.76	4,199.56	19.00	12.89	-13.02	0.55	-0.12	51.92	
4,275.00	0.46	292.42	4,274.56	18.78	12.77	-12.90	1.27	-0.13	184.88	
Tie In to Phoenix Gyro Surveys										
4,354.00	0.70	304.70	4,353.56	19.18	12.08	-12.21	0.34	0.30	15.54	
First Phoenix MWD Survey										
4,386.00	1.80	288.10	4,385.55	19.44	11.45	-11.57	3.58	3.44	-51.88	
4,417.00	4.00	278.20	4,416.51	19.75	9.91	-10.04	7.25	7.10	-31.94	
4,449.00	6.80	273.90	4,448.36	20.04	6.92	-7.05	8.83	8.75	-13.44	
4,480.00	10.10	271.50	4,479.02	20.23	2.37	-2.50	10.70	10.65	-7.74	
4,512.00	13.60	269.40	4,510.34	20.27	-4.20	4.07	11.02	10.94	-6.56	
4,544.00	17.40	266.80	4,541.17	19.96	-12.74	12.81	12.07	11.68	-8.13	

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Well:	#28H	North Reference:	Grid
Wellbore:	WB1 / Job #1512833	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 119)	Database:	Compass 5000 GCR

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)
4,578.00	21.20	265.80	4,571.36	19.27	-23.30	23.17	11.92	11.88	-3.13
4,607.00	24.80	265.50	4,599.89	18.35	-35.37	35.25	11.62	11.61	-0.97
4,639.00	28.00	265.90	4,628.55	17.29	-49.56	49.44	10.02	10.00	1.25
4,670.00	31.70	265.50	4,655.44	16.13	-64.94	64.83	11.95	11.94	-1.29
4,701.00	35.60	265.90	4,681.24	14.84	-82.07	81.97	12.60	12.58	1.29
4,733.00	39.70	266.40	4,706.57	13.53	-101.57	101.47	12.85	12.81	1.56
4,764.00	43.60	268.10	4,729.73	12.56	-122.14	122.05	13.10	12.58	5.48
4,796.00	47.10	270.10	4,752.21	12.21	-144.90	144.81	11.81	10.94	6.25
4,828.00	50.70	271.40	4,773.25	12.53	-169.00	168.92	11.66	11.25	4.06
4,859.00	54.60	272.30	4,792.05	13.33	-193.63	193.53	12.79	12.58	2.90
4,891.00	58.10	271.80	4,809.78	14.29	-220.24	220.14	11.01	10.94	-1.56
4,922.00	61.70	271.30	4,825.32	15.01	-247.05	246.94	11.70	11.61	-1.61
4,954.00	63.80	268.30	4,839.98	14.90	-275.49	275.39	10.61	6.56	-9.38
4,986.00	66.20	266.10	4,853.50	13.48	-304.45	304.36	9.75	7.50	-6.88
5,017.00	68.20	265.30	4,865.52	11.34	-332.95	332.87	6.88	6.45	-2.58
5,048.00	71.20	264.50	4,876.27	8.75	-361.91	361.84	9.98	9.68	-2.58
5,080.00	74.90	263.50	4,885.60	5.55	-392.34	392.30	11.94	11.56	-3.13
5,112.00	78.70	264.50	4,892.90	2.29	-423.32	423.30	12.26	11.88	3.13
5,143.00	82.40	264.60	4,897.99	-0.61	-453.76	453.75	11.94	11.94	0.32
5,174.00	85.60	264.50	4,901.23	-3.54	-484.44	484.46	10.33	10.32	-0.32
5,205.00	89.10	265.50	4,902.86	-6.24	-515.29	515.32	11.74	11.29	3.23
5,237.00	90.10	266.70	4,902.89	-8.41	-547.21	547.25	4.88	3.13	3.75
5,269.00	90.70	269.30	4,902.66	-9.53	-579.19	579.24	8.34	1.88	8.13
5,300.00	91.00	269.50	4,902.20	-9.85	-610.18	610.23	1.16	0.97	0.65
5,332.00	91.70	269.40	4,901.45	-10.16	-642.17	642.22	2.21	2.19	-0.31
5,364.00	92.00	268.90	4,900.42	-10.63	-674.15	674.21	1.82	0.94	-1.56
5,395.00	91.70	269.40	4,899.42	-11.09	-705.13	705.19	1.88	-0.97	1.61
5,427.00	90.60	269.90	4,898.77	-11.29	-737.12	737.18	3.78	-3.44	1.56
5,459.00	90.40	270.70	4,898.50	-11.12	-769.12	769.16	2.58	-0.63	2.50
5,491.00	90.80	270.90	4,898.16	-10.67	-801.12	801.17	1.40	1.25	0.63
5,521.00	91.20	270.80	4,897.64	-10.23	-831.11	831.16	1.37	1.33	-0.33
5,561.00	92.40	270.60	4,894.65	-9.07	-926.05	926.09	1.28	1.26	-0.21
5,711.00	91.30	270.10	4,891.59	-8.49	-1,021.00	1,021.03	1.27	-1.18	-0.53
5,805.00	91.70	270.00	4,889.13	-8.41	-1,114.97	1,115.00	0.44	0.43	-0.11
5,900.00	92.00	269.90	4,886.06	-8.49	-1,209.92	1,209.95	0.33	0.32	-0.11
5,995.00	92.70	269.80	4,882.16	-8.74	-1,304.84	1,304.87	0.74	0.74	-0.11
6,090.00	91.00	269.50	4,879.10	-9.32	-1,399.78	1,399.81	1.82	-1.79	-0.32
6,184.00	91.30	269.80	4,877.21	-9.89	-1,493.76	1,493.79	0.45	0.32	0.32
6,278.00	91.00	268.90	4,875.30	-10.97	-1,588.74	1,588.77	1.00	-0.32	-0.95
6,374.00	90.80	268.40	4,873.81	-13.21	-1,683.70	1,683.75	0.57	-0.21	-0.53
6,469.00	90.80	267.80	4,872.48	-16.36	-1,778.63	1,778.70	0.63	0.00	-0.63
6,564.00	89.40	269.70	4,872.32	-18.43	-1,873.61	1,873.69	2.48	-1.47	2.00
6,659.00	89.80	269.60	4,872.98	-19.01	-1,968.60	1,968.68	0.43	0.42	-0.11
6,753.00	90.10	269.40	4,873.06	-19.83	-2,062.60	2,062.68	0.38	0.32	-0.21

Company:	Apache Corporation	Local Co-ordinate Reference:	Well #28H
Project:	Eddy County, NM (NAD27, NME)	TVD Reference:	KB @ 3763.00usft (Capstar, 119)
Site:	NFE Federal	MD Reference:	KB @ 3763.00usft (Capstar, 119)
Well:	#28H	North Reference:	Grid
Wellbore:	WB1 / Job #1512833	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar, 119)	Database:	Compass 5000 GCR

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)
6,848.00	90.00	268.90	4,872.98	-21.24	-2,157.59	2,157.68	0.54	-0.11	-0.53
6,943.00	91.30	269.60	4,871.90	-22.48	-2,252.57	2,252.67	1.55	1.37	0.74
7,039.00	91.30	270.50	4,869.73	-22.40	-2,348.54	2,348.64	0.94	0.00	0.94
7,134.00	92.00	271.20	4,866.99	-20.99	-2,443.49	2,443.58	1.04	0.74	0.74
7,229.00	92.20	271.30	4,863.51	-18.92	-2,538.41	2,538.48	0.24	0.21	0.11
7,323.00	91.80	269.70	4,860.23	-18.10	-2,632.34	2,632.40	1.75	-0.43	-1.70
7,418.00	91.80	268.80	4,857.24	-19.34	-2,727.29	2,727.35	0.95	0.00	-0.95
7,513.00	91.10	270.00	4,854.84	-20.34	-2,822.25	2,822.32	1.46	-0.74	1.26
7,608.00	91.60	269.70	4,852.60	-20.59	-2,917.22	2,917.29	0.61	0.53	-0.32
7,703.00	91.80	269.40	4,849.78	-21.33	-3,012.18	3,012.25	0.38	0.21	-0.32
7,797.00	91.30	270.10	4,847.24	-21.74	-3,106.14	3,106.22	0.91	-0.53	0.74
7,892.00	92.00	270.10	4,844.51	-21.58	-3,201.10	3,201.17	0.74	0.74	0.00
7,987.00	89.80	269.90	4,843.01	-21.58	-3,296.08	3,296.15	2.33	-2.32	-0.21
8,082.00	90.30	269.70	4,842.93	-21.91	-3,391.08	3,391.15	0.57	0.53	-0.21
8,176.00	90.90	269.60	4,841.95	-22.48	-3,485.07	3,485.15	0.65	0.64	-0.11
8,271.00	91.60	269.80	4,839.87	-22.98	-3,580.05	3,580.12	0.77	0.74	0.21
8,460.00	91.60	271.70	4,834.60	-20.51	-3,768.95	3,769.00	1.00	0.00	1.01
8,555.00	92.20	271.30	4,831.45	-18.02	-3,863.87	3,863.90	0.76	0.63	-0.42
8,649.00	90.30	270.80	4,829.40	-16.30	-3,957.82	3,957.84	2.09	-2.02	-0.53
8,744.00	89.50	270.90	4,829.56	-14.89	-4,052.81	4,052.82	0.85	-0.84	0.11
8,839.00	89.80	268.10	4,830.14	-15.72	-4,147.80	4,147.81	2.86	0.32	-2.95
8,932.00	90.40	267.20	4,829.98	-19.53	-4,240.72	4,240.75	1.16	0.65	-0.97
9,029.00	91.20	266.80	4,828.63	-24.61	-4,337.57	4,337.64	0.92	0.82	-0.41
9,124.00	92.10	266.50	4,825.89	-30.16	-4,432.37	4,432.47	1.00	0.95	-0.32
Last Phoenix MWD Survey									
9,200.00	92.10	266.50	4,823.11	-34.79	-4,508.18	4,508.31	0.00	0.00	0.00
Projection to Bit									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,275.00	4,274.56	18.78	12.77	Tie In to Phoenix Gyro Surveys
4,354.00	4,353.56	19.18	12.08	First Phoenix MWD Survey
9,124.00	4,825.89	-30.16	-4,432.37	Last Phoenix MWD Survey
9,200.00	4,823.11	-34.79	-4,508.18	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____

DISTRICT I
1625 N. Trench Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1281 Fax: (505) 748-9720

DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1229 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 30-015-42653	Pool Code 96831	Pool Name Cedar Lake; Glorieta - Yeso
Property Code 308724	Property Name NFE FEDERAL	Well Number 28H
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3752'

Surface Location

UR. or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	6	17-S	31-E		920	SOUTH	155	EAST	EDDY

AS-DRILLED Bottom Hole Location If Different From Surface

UR. or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
7	6	17-S	31-E		915.2	SOUTH	335.5	WEST	EDDY

Dedicated Acres 151.47	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

LOT 4 31.17 AC.	LOT 3 39.99 AC.	LOT 2 39.97 AC.	LOT 1 39.96 AC.
AS-DRILLED B.H. NAD 27 NME Y= 676339.2 N X= 628403.7 E LAT.=32.858641° N LONG.=103.915179° W LAT.=32° 51' 31" N LONG.=103° 54' 55" W	LAST TAKE POINT NAD 27 NME Y= 676343.8 N X= 628479.5 E LAT.=32.858653° N LONG.=103.914932° W LAT.=32° 51' 31" N LONG.=103° 54' 54" W	FIRST TAKE POINT NAD 27 NME Y= 676393.1 N X= 632922.9 E LAT.=32.858739° N LONG.=103.900461° W LAT.=32° 51' 31" N LONG.=103° 54' 02" W	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=676373.9 N X=632910.8 E LAT.=32.858687° N LONG.=103.900501° W LAT.=32° 51' 31" N LONG.=103° 54' 02" W
LOT 5 31.27 AC.	LOT 4 31.27 AC.	LOT 3 39.99 AC.	LOT 2 39.97 AC.
AS-DRILLED B.H. NAD 83 NME Y= 676403.2 N X= 669582.4 E LAT.=32.858758° N LONG.=103.915686° W LAT.=32° 51' 32" N LONG.=103° 54' 56" W	LAST TAKE POINT NAD 83 NME Y= 676407.8 N X= 669658.2 E LAT.=32.858770° N LONG.=103.915439° W LAT.=32° 51' 32" N LONG.=103° 54' 56" W	FIRST TAKE POINT NAD 83 NME Y= 676457.1 N X= 674101.5 E LAT.=32.858856° N LONG.=103.900969° W LAT.=32° 51' 32" N LONG.=103° 54' 03" W	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 676437.9 N X= 674089.4 E LAT.=32.858804° N LONG.=103.901008° W LAT.=32° 51' 32" N LONG.=103° 54' 03" W
LOT 6 31.37 AC.	LOT 5 31.27 AC.	LOT 4 31.27 AC.	LOT 3 39.99 AC.
CORNER COORDINATES TABLE NAD 83 NME A - Y=676805.8 N, X=669245.7 E B - Y=676839.0 N, X=674242.1 E C - Y=675519.2 N, X=674249.5 E D - Y=675485.9 N, X=669249.9 E	CORNER COORDINATES TABLE NAD 27 NME A - Y=676741.8 N, X=628067.0 E B - Y=676775.0 N, X=633063.5 E C - Y=675455.2 N, X=633070.9 E D - Y=675422.0 N, X=628071.2 E	NOTE: AS-DRILL PATH AND BOTTOM HOLE PLOTTED FROM PHOENIX TECHNOLOGY SERVICES, REPORT DATED FEBRUARY 12, 2015	

LOT 7 31.47 AC. AS-DRILLED B.H. 335.5' B.H. 411.3' L.T.P. 915.2' 919.4'	AS-DRILLED PATH 142.8' F.T.P. S.L. 155' 920' 939'
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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.

Signature: *Emily Fullis* Date: *11/19/15*
Printed Name: *Emily Fullis*
E-mail Address: *emily.fullis@apachecorp.com*

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.

APRIL 5, 2012

Date of Survey: *03/04/2015*
Signature of Professional Surveyor: *Ronald J. Eidson*
Certificate Number: *SSA (C) G. Eidson 12641*
Ronald J. Eidson 3239
LSL REL W.O.: 14.13 0077 JWSC W.O.: 15.13 0267

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Artec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Apache Corporation 303 Veterans Airpark Lane Suite 1000 Midland TX 79705		² OGRID Number 873
		³ Reason for Filing Code/ Effective Date NW / 11/06/15
⁴ API Number 30-015-42653	⁵ Pool Name CEDAR LAKE; GLORIETA-YESO	⁶ Pool Code 96831
⁷ Property Code (308724)	⁸ Property Name NFE FEDERAL	⁹ Well Number #028H

II. 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
P	6	17S	31E		920	SOUTH	155	EAST	EDDY

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	6	17S	31E		915	SOUTH	335	WEST	EDDY
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 11/06/15	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
252293	Holly Energy Pipeline 311 W Quay / PO Box 1360 Artesia NM 88210	O
221115	Frontier Field Services LLC 4200 East Skelly Drive Suite 700 Tulsa OK 74135	G

IV. Well Completion Data

²¹ Spud Date 01/30/2015	²² Ready Date 11/06/15	²³ TD 9200'	²⁴ PBDT 9200'	²⁵ Perforations 5261-9161'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.50	13.375" H40 48#	406'	470 sx Class C		
12.	9.625" J55 40#	3383'	1190 sx Class C		
8.75	7" L80 29#5"	9170'	725 sx Class C		
TUBING	2-7/8" J55	4601"			

V. Well Test Data

³¹ Date New Oil 11/06/15	³² Gas Delivery Date 11/06/15	³³ Test Date 11/17/15	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 504	³⁹ Water 2992	⁴⁰ Gas 176		⁴¹ Test Method P

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Emily Follis*
Printed name: Emily Follis
Title: Reg Analyst
E-mail Address: emily.follis@apachecorp.com
Date: 11/19/15
Phone: 432-818-1801

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date	8/19/2015
State:	NM
County:	Eddy
API Number:	30-015-42653
Operator Name:	Apache
Well Name and Number:	NFE Federal #28H
Longitude:	-103.901172
Latitude:	32.85878702
Long/Lat Projection:	NAD83
Production Type:	Oil
True Vertical Depth (TVD):	9,170
Total Water Volume (gal)*:	2,724,960

Hydraulic Fracturing 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	Customer	Carrier/Base Fluid	Water	7732-18-5	100.00%	85.51208%	
Sand (Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100.00%	8.02016%	
RCS (Proppant)	Momentive	Proppant	Silica Substrate	14808-60-7	100.00%	2.67730%	
Hydrochloric Acid (15 CNR)		Acidizing	Hydrochloric Acid	7647-01-0	38.80000%	1.38114%	
Clayplex 650	Chemplex	Clay Stabilizer	Choline Chloride	67-48-1	62.00000%	0.00000%	
4-N-1 Plus	Chemplex	Iron Control, Corr Inhib, S	Acetic Acid	64-19-7	80.00000%	0.00000%	
			Methanol	67-56-1	10.00000%	0.00000%	
Plexicide 24L	Chemplex	Biocide	Tetrahydro-3, Dimethyl-2H	533-74-4	24.00000%	0.00000%	
Plexset 730	Chemplex	Activator	Secondary Alcohol Ethoxylate	84133-50-6	50.00000%	0.00000%	
Plexsurf 240 E	Chemplex	Surfactant	Methyl Alcohol	67-56-1	10.00000%	0.00828%	
			Alcohol Alkoxylate	Proprietary	50.00000%	0.04141%	
Plexsick 953	Chemplex	Friction Reducer	Alcohol Ethoxylate Surfactants	Proprietary	8.00000%	0.00606%	
			Hydrotreated Petroleum Distillate	64742-47-8	30.00000%	0.02272%	
AMA 398	Chemplex	Biocide	Polyacrylamide-co-Acrylic Acid	9003-06-9	31.00000%	0.02348%	
Plexgel 907 LE	Chemplex	Polymer	Tetrahydro-3, Dimethyl-2H	533-74-4	98.00%	0.00000%	
			Guar Gum	9000-30-0	50.00000%	0.00000%	
			Mineral Oil	64742-47-8	55.00000%	0.00000%	
			Bentonite Clay	14808-60-7	2.00000%	0.00000%	
Plexbor 101	Chemplex	Crosslinker	Surfactant	68439-51-0	2.00000%	0.00000%	
			Ethylene Glycol	107-21-1	9.99000%	0.00000%	
			Potassium Metaborate	13709-94-9	30.00000%	0.00000%	
Plexgel Breaker 10L	Chemplex	Gel Breaker	Potassium Hydroxide	1310-58-3	5.00000%	0.00000%	
			Mannanase Enzymes	Proprietary	2.00000%	0.00000%	
			Sodium Chloride	7647-14-5	15.00000%	0.00000%	
Sodium Persulfate	Chemplex	Gel Breaker	Sodium Persulfate	7775-27-1	98.00%	0.00000%	
Buffer 11	Chemplex	PH Control	Potassium Hydroxide	1310-58-3	23.00000%	0.00000%	
Greenhib 679	Chemplex	Scale Inhibitor	Glycerine	56-81-5	35.00000%	0.01717%	
			Proprietary	Proprietary	35.00000%	0.01717%	

Hydraulic Fracturing 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
Clayplex 650	Chemplex	Clay Stabilizer	Water	7732-18-5	30.000000%	0.01471%	
			Water	7732-18-5	60.000000%	0.000000%	
Plexicide 15G	Chemplex, LQ Biocide		Ethanolamine, 2-hydroxy-N,N,N-trimethyl-4-1	111-30-8	35.000000%	0.000000%	
			Glutaraldehyde	7173-51-5	14.000000%	0.00308%	
			Didecyl dimethyl ammonium chloride	68424-85-1	3.000000%	0.00066%	
			Alkyl dimethyl benzyl ammonium chloride	64-17-5	3.000000%	0.00066%	
			Ethanol		3.000000%	0.00066%	

* 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%

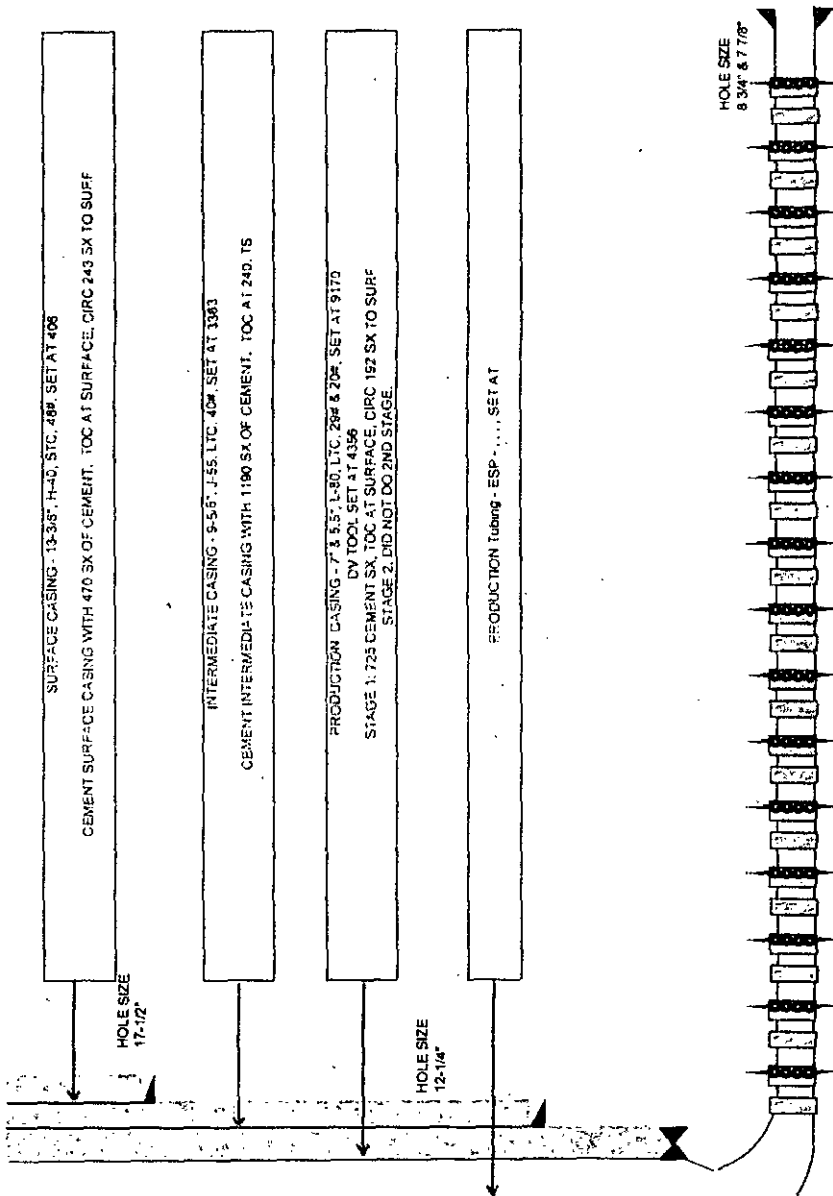
All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational 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.

WELL NAME: NFE FEDERAL COM 28H
 API: 30-015-42853
 SPUD DATE: 1/30/2015
 PRODUCING FORMATION: YESO PADDOCK
 FIELD: CEDAR LAKE (BP)
 COUNTY: EDDY
 STATE: NEW MEXICO
 WORKING INTEREST: 60.00%

SURFACE LOC: 920 FSL & 159 FEL
 SECTION: 6
 TOWNSHIP: 17-S
 RANGE: 31-E
 SURVEY: JOHN WEST SURVEYING CO
 BOTTOM HOLE LOC: 915 FSL & 335 FWL
 SECTION: 5
 TOWNSHIP: 17-S
 RANGE: 31-E
 SURVEY: JOHN WEST SURVEYING CO
 DRILL RIG: CAPSTAR 119
 RIG RELEASE: 2/16/2015

KB (ft): 3,783.00
 GL (ft): 3,752.00
 KBGL DIFF (ft): 11.00
 TMD (ft): 9,200.00
 TO OF PILOT HOLE (ft): N/A
 FC DEPTH (ft): 9,161.00
 PBMD (ft): 9,200.00
 RDV DEPTH (ft): N/A
 ORIO VALVE (ft): N/A
 DEEPEST TVD (ft): 4,922.00

TAPERED CASING STRING:
 7" 20# L-80 TO X-OVER @ 4,358'
 TAPERING TO 5.5" 20# L-80 SET @ 9,170'



KOP (ft):
 LATERAL LENGTH (ft):
 TO OF PILOT HOLE (ft):

PACKERS & SLEEVES
 TOP PERF (MD):
 BOTTOM PERF (MD):

TMD (ft): 9,200
 FC DEPTH (ft): 9,161
 PBMD (ft): 9,200
 RDV DEPTH (ft): N/A
 ORIO VALVE (ft): N/A

COMPLETION:

STIMULATION:

STATUS:

COMMENTS:

PACKERS & SLEEVES - 15 STAGES

TOTAL ACID (gal)	TOTAL LTR (bbl)	TOTAL PROPANT (lb)	MAX WM RATE (bpm)	MAX WM PRESSURE (ppr)
2,405	84.883	2,845,540	94.00	5,700

PRODUCTION METHOD	LIFT TYPE	SETTING DEPTH
Churning	ESP	0

CROSSOVER SUB @ 4,358'

LAST UPDATED BY: HILLARI GOULD
 LAST UPDATED: 10/12/2015