



PHOENIX
TECHNOLOGY SERVICES

October 28, 2015

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

Dear District 2 - Artesia

Attention: Regulatory Department

Re: Apache Corporation
NFE Federal #61H
Eddy County, NM
API #30-015-43250
Job No. 1514083

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 09 2015

RECEIVED

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Mike Miller	61H	4,606	9,761	09/23/15	09/28/15	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Claudia Carreon

Claudia Carreon
Operations Administrator

Provide survey surface to 4606'

Certified mail receipt number: 7015 0640 0000 9907 5173

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 1514083

OPERATOR Apache

WELL NAME NFE Federal #61H

COUNTY & STATE Eddy County, NM

API WELL NUMBER 30-015-43250

PROPOSED DIRECTION 269.60

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
4,534. ft	4,533.74 ft	0.02	4.63	-11.02 ft	16.52 ft	Gyro

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
23-Sep-15	4,606.00 ft	0.50	267.40

SURVEY INSTRUMENT
TYPE
Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
28-Sep-15	9,761.00 ft	92.90	269.70

TO THE BEST OF MY KNOWLEDGE I
CERTIFY THIS SURVEY DATA TO BE
TRUE AND CORRECT.

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
28-Sep-15	9,849.00 ft	92.90	269.70

Mike Miller

PRINT YOUR NAME ABOVE

Mike Miller

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.37
DECLINATION OR GRID	GRID

28-Sep-15

TODAY'S DATE

MWD SUPERVISOR 1

Mike Miller

DIRECTIONAL DRILLER 1

Steven Hawkins

MWD SUPERVISOR 2

Lee Conoly

DIRECTIONAL DRILLER 2

Brant Duplechain

12329 Cutten Rd., Houston, Texas 777066

(713)337-0600 (Voice), (713)337-0599 (Fax)



Apache Corporation

Eddy County, NM (NAD27 NME)

NFE Federal

#61H

OH / Job #1514083

Design: Surveys (Capstar 119)

Standard Survey Report

29 September, 2015

NM OIL CONSERVATION

ARTESIA DISTRICT

NOV 09 2015

RECEIVED



Company:	Apache Corporation	Local Co-ordinate Reference:	Well #61H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3848.00usft (Capstar 119)
Site:	NFE Federal	MD Reference:	KB @ 3848.00usft (Capstar 119)
Well:	#61H	North Reference:	Grid
Wellbore:	OH / Job #1514083	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	#61H		
Well Position	+N/-S	0.00 usft	Northing: 672,006.80 usft
	+E/-W	0.00 usft	Easting: 638,345.50 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 50' 47.83443 N
		Longitude:	103° 52' 58.30925 W
		Ground Level:	3,837.00 usft

Wellbore	OH / Job #1514083				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	9/23/2015	7.62	60.80	48,576

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	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	269.60

Survey Program	Date 9/29/2015				
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.00	4,534.00	Phoenix Gyro Survey (OH / Job #1514083)	PHX_SPT_GTD	PHX Continuous north-seeking gyro	
4,606.00	9,849.00	Phoenix MWD Surveys (OH / Job #151408)	PHX+MWD+HDGM	PHX+MWD+HDGM	

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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.76	128.89	100.00	-0.42	0.52	-0.51	0.76	0.76	0.00	
200.00	0.76	139.32	199.99	-1.34	1.46	-1.46	0.14	0.00	10.43	
300.00	0.82	118.67	299.98	-2.18	2.52	-2.51	0.29	0.06	-20.65	
400.00	0.93	141.73	399.97	-3.16	3.66	-3.63	0.37	0.11	23.06	
500.00	0.63	140.68	499.96	-4.22	4.51	-4.48	0.30	-0.30	-1.05	
600.00	0.55	56.45	599.95	-4.38	5.25	-5.22	0.79	-0.08	-84.23	
700.00	0.56	164.37	699.95	-4.59	5.79	-5.75	0.90	0.01	107.92	
800.00	0.50	356.20	799.95	-4.63	5.89	-5.86	1.05	-0.06	-168.17	
900.00	0.54	218.97	899.95	-4.56	5.56	-5.53	0.97	0.04	-137.23	

Company:	Apache Corporation	Local Co-ordinate Reference:	Well #61H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3848.00usft (Capstar 119)
Site:	NFE Federal	MD Reference:	KB @ 3848.00usft (Capstar 119)
Well:	#61H	North Reference:	Grid
Wellbore:	OH / Job #1514083	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	0.51	232.47	999.94	-5.19	4.91	-4.88	0.13	-0.03	13.50
1,100.00	0.58	335.93	1,099.94	-5.00	4.36	-4.32	0.86	0.07	103.46
1,200.00	1.06	104.84	1,199.94	-4.78	5.04	-5.01	1.49	0.48	128.91
1,300.00	1.36	94.48	1,299.91	-5.11	7.12	-7.08	0.37	0.30	-10.36
1,400.00	1.47	99.45	1,399.88	-5.41	9.57	-9.53	0.16	0.11	4.97
1,500.00	1.42	101.35	1,499.85	-5.87	12.05	-12.01	0.07	-0.05	1.90
1,600.00	1.15	110.81	1,599.83	-6.47	14.20	-14.16	0.34	-0.27	9.46
1,700.00	1.07	115.65	1,699.81	-7.23	15.98	-15.93	0.12	-0.08	4.84
1,800.00	0.77	127.87	1,799.80	-8.04	17.35	-17.30	0.36	-0.30	12.22
1,900.00	0.66	139.35	1,899.79	-8.89	18.26	-18.20	0.18	-0.11	11.48
2,000.00	0.43	249.97	1,999.78	-9.46	18.28	-18.22	0.91	-0.23	110.62
2,100.00	0.29	169.27	2,099.78	-9.83	17.98	-17.91	0.48	-0.14	-80.70
2,200.00	0.16	212.60	2,199.78	-10.20	17.95	-17.88	0.21	-0.13	43.33
2,300.00	0.23	148.34	2,299.78	-10.49	17.98	-17.90	0.22	0.07	-64.26
2,400.00	0.49	266.10	2,399.78	-10.69	17.66	-17.58	0.63	0.26	117.76
2,500.00	0.46	37.41	2,499.78	-10.40	17.47	-17.40	0.87	-0.03	131.31
2,600.00	0.45	135.08	2,599.78	-10.36	18.00	-17.92	0.69	-0.01	97.67
2,700.00	0.62	39.18	2,699.77	-10.22	18.61	-18.54	0.80	0.17	-95.90
2,800.00	0.62	285.13	2,799.77	-9.66	18.43	-18.37	1.04	0.00	-114.05
2,900.00	0.52	98.56	2,899.77	-9.58	18.36	-18.29	1.14	-0.10	173.43
3,000.00	0.58	286.98	2,999.77	-9.50	18.32	-18.26	1.10	0.06	-171.58
3,100.00	0.50	254.45	3,099.76	-9.47	17.42	-17.35	0.31	-0.08	-32.53
3,200.00	0.63	168.28	3,199.76	-10.13	17.11	-17.04	0.78	0.13	-86.17
3,300.00	0.63	282.72	3,299.76	-10.54	16.69	-16.61	1.06	0.00	114.44
3,400.00	0.43	265.18	3,399.75	-10.46	15.78	-15.70	0.26	-0.20	-17.54
3,500.00	0.33	21.57	3,499.75	-10.22	15.51	-15.44	0.65	-0.10	116.39
3,600.00	0.30	290.51	3,599.75	-9.86	15.37	-15.30	0.45	-0.03	-91.06
3,700.00	0.34	162.97	3,699.75	-10.05	15.21	-15.14	0.57	0.04	-127.54
3,800.00	0.23	166.70	3,799.75	-10.53	15.34	-15.27	0.11	-0.11	3.73
3,900.00	0.30	282.63	3,899.75	-10.67	15.14	-15.06	0.45	0.07	115.93
4,000.00	0.32	0.48	3,999.75	-10.33	14.88	-14.81	0.39	0.02	77.85
4,100.00	0.30	177.33	4,099.75	-10.31	14.90	-14.82	0.62	-0.02	176.85
4,200.00	0.34	77.21	4,199.75	-10.51	15.20	-15.12	0.49	0.04	-100.12
4,300.00	0.42	112.71	4,299.74	-10.59	15.83	-15.75	0.24	0.08	35.50
4,400.00	0.22	147.03	4,399.74	-10.89	16.27	-16.19	0.27	-0.20	34.32
4,500.00	0.13	80.15	4,499.74	-11.03	16.48	-16.41	0.21	-0.09	-66.88
4,534.00	0.02	4.63	4,533.74	-11.02	16.52	-16.45	0.37	-0.32	-222.12
Tie-on to Phoenix Gyro Survey									
4,606.00	0.50	267.40	4,605.74	-11.02	16.21	-16.13	0.70	0.67	-135.04
First Phoenix MWD Survey									
4,648.00	3.70	264.50	4,647.71	-11.16	14.68	-14.60	7.62	7.62	-6.90
4,691.00	8.20	262.10	4,690.46	-11.71	10.26	-10.17	10.48	10.47	-5.58
4,733.00	12.50	263.60	4,731.77	-12.63	2.77	-2.68	10.26	10.24	3.57

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Site:	NFE Federal	MD Reference:	KB @ 3848.00usft (Capstar 119)
Well:	#61H	North Reference:	Grid
Wellbore:	OH / Job #1514083	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)
4,776.00	17.60	267.10	4,773.28	-13.48	-8.36	8.45	12.04	11.86	8.14
4,819.00	23.20	269.60	4,813.57	-13.87	-23.33	23.43	13.18	13.02	5.81
4,861.00	28.60	270.80	4,851.34	-13.79	-41.67	41.76	12.92	12.86	2.86
4,904.00	33.00	270.40	4,888.27	-13.56	-63.68	63.77	10.24	10.23	-0.93
4,946.00	36.40	270.30	4,922.79	-13.41	-87.58	87.68	8.10	8.10	-0.24
4,989.00	40.70	270.60	4,956.41	-13.20	-114.37	114.46	10.01	10.00	0.70
5,032.00	45.70	271.40	4,987.75	-12.68	-143.80	143.88	11.70	11.63	1.86
5,074.00	51.40	271.00	5,015.54	-12.02	-175.26	175.34	13.59	13.57	-0.95
5,117.00	55.90	269.70	5,041.02	-11.82	-209.88	209.96	10.74	10.47	-3.02
5,160.00	60.70	269.50	5,063.61	-12.08	-246.45	246.53	11.17	11.16	-0.47
5,202.00	65.00	269.10	5,082.77	-12.54	-283.81	283.89	10.27	10.24	-0.95
5,245.00	70.30	269.30	5,099.11	-13.09	-323.56	323.65	12.33	12.33	0.47
5,287.00	76.30	269.40	5,111.18	-13.55	-363.77	363.86	14.29	14.29	0.24
5,330.00	82.40	270.90	5,119.12	-13.43	-406.01	406.09	14.59	14.19	3.49
5,373.00	86.70	273.40	5,123.21	-11.82	-448.77	448.84	11.55	10.00	5.81
5,415.00	87.90	273.70	5,125.18	-9.23	-490.64	490.70	2.94	2.86	0.71
5,543.00	90.40	271.70	5,127.08	-3.20	-618.47	618.48	2.50	1.95	-1.56
5,671.00	91.90	270.30	5,124.51	-0.96	-746.42	746.41	1.60	1.17	-1.09
5,798.00	93.00	269.40	5,119.09	-1.30	-873.30	873.29	1.12	0.87	-0.71
5,926.00	91.30	269.70	5,114.28	-2.30	-1,001.20	1,001.19	1.35	-1.33	0.23
6,054.00	92.50	269.50	5,110.04	-3.19	-1,129.12	1,129.12	0.95	0.94	-0.16
6,181.00	90.90	269.90	5,106.27	-3.86	-1,256.06	1,256.06	1.30	-1.26	0.31
6,309.00	91.90	270.20	5,103.14	-3.75	-1,384.02	1,384.01	0.82	0.78	0.23
6,437.00	91.80	269.90	5,099.01	-3.64	-1,511.95	1,511.94	0.25	-0.08	-0.23
6,565.00	91.00	269.80	5,095.89	-3.97	-1,639.91	1,639.90	0.63	-0.63	-0.08
6,693.00	89.80	269.00	5,094.99	-5.31	-1,767.90	1,767.90	1.13	-0.94	-0.63
6,821.00	90.70	268.50	5,094.43	-8.10	-1,895.87	1,895.88	0.80	0.70	-0.39
6,949.00	90.70	267.40	5,092.87	-12.68	-2,023.77	2,023.81	0.86	0.00	-0.86
7,077.00	92.80	268.80	5,088.96	-16.92	-2,151.63	2,151.70	1.97	1.64	1.09
7,205.00	91.80	269.50	5,083.82	-18.82	-2,279.51	2,279.59	0.95	-0.78	0.55
7,332.00	92.20	268.80	5,079.39	-20.70	-2,406.42	2,406.51	0.63	0.31	-0.55
7,460.00	93.30	268.80	5,073.25	-23.38	-2,534.24	2,534.35	0.86	0.86	0.00
7,588.00	92.30	271.30	5,067.00	-23.27	-2,662.08	2,662.18	2.10	-0.78	1.95
7,716.00	91.50	272.00	5,062.75	-19.58	-2,789.95	2,790.02	0.83	-0.63	0.55
7,844.00	88.80	271.00	5,062.42	-16.23	-2,917.90	2,917.94	2.25	-2.11	-0.78
7,972.00	88.90	269.80	5,064.99	-15.34	-3,045.87	3,045.90	0.94	0.08	-0.94
8,099.00	90.80	269.10	5,065.32	-16.56	-3,172.85	3,172.89	1.59	1.50	-0.55
8,228.00	92.10	269.10	5,062.05	-18.59	-3,301.79	3,301.84	1.01	1.01	0.00
8,355.00	93.40	268.70	5,055.96	-21.02	-3,428.62	3,428.68	1.07	1.02	-0.31
8,483.00	92.30	270.30	5,049.60	-22.14	-3,556.45	3,556.52	1.52	-0.86	1.25
8,611.00	91.70	270.70	5,045.13	-21.02	-3,684.37	3,684.42	0.56	-0.47	0.31
8,739.00	90.90	270.10	5,042.23	-20.13	-3,812.33	3,812.38	0.78	-0.63	-0.47
8,867.00	90.10	268.40	5,041.11	-21.80	-3,940.31	3,940.36	1.47	-0.63	-1.33
8,995.00	91.10	268.20	5,039.77	-25.60	-4,068.24	4,068.32	0.80	0.78	-0.16

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Well:	#61H	North Reference:	Grid
Wellbore:	OH / Job #1514083	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)
9,122.00	92.40	268.30	5,035.89	-29.47	-4,195.12	4,195.23	1.03	1.02	0.08
9,250.00	90.40	269.80	5,032.76	-31.60	-4,323.06	4,323.17	1.95	-1.56	1.17
9,378.00	92.00	269.50	5,030.08	-32.38	-4,451.02	4,451.14	1.27	1.25	-0.23
9,506.00	90.10	270.00	5,027.74	-32.93	-4,578.99	4,579.11	1.53	-1.48	0.39
9,633.00	91.50	269.90	5,025.96	-33.05	-4,705.98	4,706.09	1.11	1.10	-0.08
9,761.00	92.90	269.70	5,021.05	-33.49	-4,833.88	4,833.99	1.10	1.09	-0.16
Last Phoenix MWD Survey									
9,849.00	92.90	269.70	5,016.60	-33.95	-4,921.76	4,921.88	0.00	0.00	0.00
Projection to TD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,534.00	4,533.74	-11.02	16.52	Tie-on to Phoenix Gyro Survey
4,606.00	4,605.74	-11.02	16.21	First Phoenix MWD Survey
9,761.00	5,021.05	-33.49	-4,833.88	Last Phoenix MWD Survey
9,849.00	5,016.60	-33.95	-4,921.76	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 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

NM OIL CONSERVATION

Form C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

JUL 28 2015

RECEIVED

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-93250	Pool Code 96831	Pool Name Cedar Lake; Glorieta-Yeso
Property Code 39330	Property Name NFE FEDERAL Com	Well Number 61H
CGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3788'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	8	17-S	31-E		1795	SOUTH	25	EAST	EDDY

Bottom Hole Location If Different From Surface

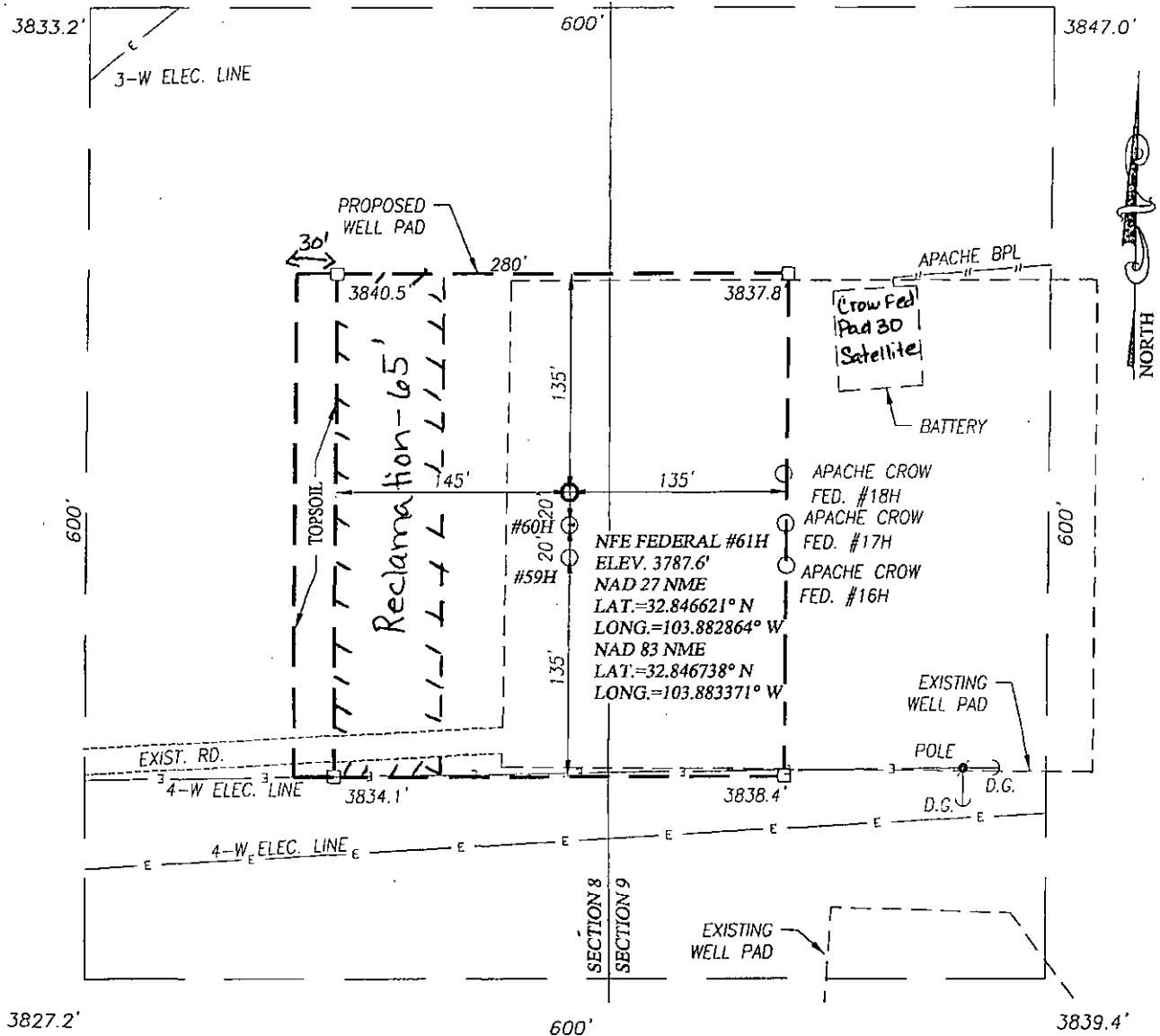
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	8	17-S	31-E		1795	SOUTH	330	WEST	EDDY

Dedicated Acres 151.98	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

NAD 83 NME BOTTOM HOLE LOCATION Y= 672036.1 N X= 674599.8 E LAT.=32.846699° N LONG.=103.899405° W LAT.=32°50'48" N LONG.=103°53'58" W	CORNER COORDINATES TABLE NAD 83 NME A - Y= 672878.9 N, X= 674265.0 E B - Y= 672916.6 N, X= 679544.3 E C - Y= 671596.5 N, X= 679551.8 E D - Y= 671559.1 N, X= 674272.6 E	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 672070.8 N X= 679524.1 E LAT.=32.846738° N LONG.=103.883371° W LAT.=32°50'48" N LONG.=103°53'00" 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. <i>Sorina L. Flores</i> 2/17/15 Signature Date <i>Sorina L. Flores</i> Printed Name <i>Sorina.L.Flores@apachecorp.com</i> E-mail Address
NAD 27 NME BOTTOM HOLE LOCATION Y= 671972.2 N X= 633421.1 E LAT.=32.846582° N LONG.=103.898898° W LAT.=32°50'48" N LONG.=103°53'56" W	CORNER COORDINATES TABLE NAD 27 NME A - Y= 672814.9 N, X= 633086.4 E B - Y= 672852.6 N, X= 638365.7 E C - Y= 671532.5 N, X= 638373.2 E D - Y= 671495.1 N, X= 633093.9 E	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 672006.8 N X= 638345.5 E LAT.=32.846521° N LONG.=103.882864° W LAT.=32°50'48" N LONG.=103°52'58" W	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. OCTOBER 27, 2014 Date of Survey Signature & Seal of Professional Surveyor: <i>Ronald J. Eidson</i> 11/6/2015 Certified Under: Ronald J. Eidson 12641 Ronald J. Eidson 3239 LSL REF. W.O. 15.13.0251

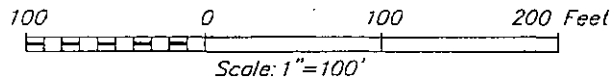
EXHIBIT # 1A



NOTE:
1) SEE "LOCATION VERIFICATION MAP"
FOR PROPOSED ROAD LOCATION.

DIRECTIONS TO NFE FEDERAL #61H:

FROM THE INTERSECTION OF U.S. HWY 82 AND CO. RD. 221 (SKELLY) GO NORTH 1.3 MILES TURN RIGHT AND GO NORTHEAST 0.5 MILES TURN RIGHT AND GO EAST APPROX. 1.5 MILES TO THIS LOCATION.



APACHE CORPORATION

NFE FEDERAL #61H WELL
LOCATED 1795 FEET FROM THE SOUTH LINE
AND 25 FEET FROM THE EAST LINE OF SECTION 8,
TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO



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Survey Date: 10/27/14	CAD Date: 11/5/14	Drawn By: LSL
W.O. No.: 15130016	Rev.:	Rel. W.O.: 14110982
		Sheet 1 of 1