

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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-029435B

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Apache Corporation (873)

3a. Address
303 Veterans Airpark Ln., Ste 3000
Midland, TX 79705

3b. Phone No. (include area code)
(432) 818-1015

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2310' FNL & 330' FWL, Sec 8, T-17S, R 31E, UL E

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

8. Well Name and No.
NFE Federal #8

9. API Well No.
30-015-37356

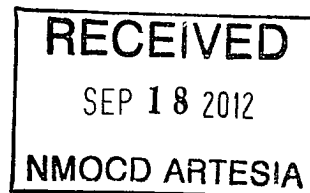
10. Field and Pool or Exploratory Area
Cedar Lake; Glorieta-Yeso

11. County or Parish, State
Eddy

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	Gyro Survey	
	☐ 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.)



Attached is the Gyro Survey required for the Plugging & Abandoning of this well.

Accepted for record
9/18/12
NMOCD

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

Title Regulatory Tech I

Signature

Date 09/14/2012

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)

APACHE CORP

Cedar Lake

Eddy County, NM

NFE Federal #8

VH - Job #32K0712854

API # 30-015-37356

Survey: Gyro

SDI Standard Survey Report

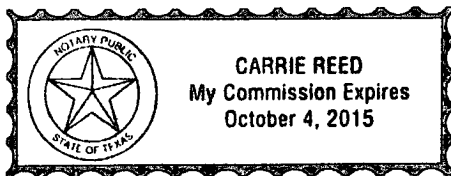
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notarized this date 3rd of August, 2012.

[Signature]

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	APACHE CORP	Local Co-ordinate Reference:	Well NFE Federal #8
Project:	Cedar Lake	TVD Reference:	WELL @ 0 00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 00usft (Original Well Elev)
Well:	NFE Federal #8	North Reference:	Grid
Wellbore:	VH - Job #32K0712854	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0712854	Database:	EDM-Regulatory

Project	Cedar Lake		
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		Eddy County, NM			
Site Position:		Northing:	672,851.67 usft	Latitude:	32° 50' 56.400 N
From:	Lat/Long	Easting:	633,386.21 usft	Longitude:	103° 53' 56.400 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.24 °

Well	NFE Federal #8, Vertical					
Well Position	+N/-S	0 00 usft	Northing:	672,851.67 usft	Latitude:	32° 50' 56.400 N
	+E/-W	0 00 usft	Easting:	633,386.21 usft	Longitude:	103° 53' 56.400 W
Position Uncertainty		0 00 usft	Wellhead Elevation:	usft	Ground Level:	0 00 usft

Wellbore	VH - Job #32K0712854				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/11/12	7.66	60.68	48,875

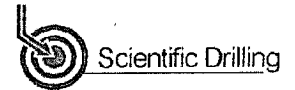
Design	VH - Job #32K0712854				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	68.61	

Survey Program		Date	08/12/12		
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.00	4,755.00	Gyro (VH - Job #32K0712854)	Keeper	Keeper Gyro	

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.28	138.81	100.00	-0.18	0.16	138.81	0.24
200.00	0.65	191.65	200.00	-0.92	0.21	167.35	0.95
300.00	0.81	190.86	299.99	-2.17	-0.04	181.07	2.17
400.00	0.84	198.50	399.98	-3.56	-0.41	186.50	3.59
500.00	1.06	198.84	499.96	-5.13	-0.94	190.35	5.22
600.00	1.00	189.34	599.95	-6.87	-1.38	191.34	7.01
700.00	0.87	185.67	699.93	-8.49	-1.59	190.64	8.63
800.00	0.97	189.16	799.92	-10.08	-1.80	190.15	10.24
900.00	0.86	174.59	899.91	-11.66	-1.87	189.10	11.81
1,000.00	0.67	132.20	999.90	-12.80	-1.36	186.08	12.87
1,100.00	0.70	115.59	1,099.89	-13.46	-0.38	181.62	13.46

Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	APACHE CORP	Local Co-ordinate Reference:	Well NFE Federal #8
Project:	Cedar Lake	TVD Reference:	WELL @ 0 00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 00usft (Original Well Elev)
Well:	NFE Federal #8	North Reference:	Grid
Wellbore:	VH - Job #32K0712854	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0712854	Database:	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,200 00	0 81	91 58	1,199 89	-13 74	0 88	176 35	13 77
1,300 00	0 71	87 83	1,299 88	-13 74	2 20	170 89	13 91
1,400 00	0 83	86 93	1,399 87	-13 67	3 55	165 46	14 13
1,500 00	0 66	70 00	1,499 86	-13 44	4 81	160 31	14 27
1,600 00	0 90	86 89	1,599 85	-13 20	6 14	155 07	14 55
1,700 00	1 02	80 73	1,699 84	-13 01	7 80	149 07	15 17
1,800 00	1 01	79 29	1,799 82	-12 70	9 54	143 09	15 89
1,900 00	1 20	78 78	1,899 80	-12 34	11 44	137 17	16 82
2,000 00	1 36	73 68	1,999 78	-11 80	13 60	130 94	18 01
2,100 00	1 77	72 49	2,099 74	-11 00	16 21	124 16	19 59
2,200 00	2 22	72 25	2,199 68	-9 95	19 53	116 99	21 92
2,300 00	3 05	69 05	2,299 57	-8 41	23 86	109 41	25 30
2,400 00	3 86	66 84	2,399 39	-6 13	29 44	101 76	30 07
2,500 00	4 19	68 33	2,499 14	-3 46	35 93	95 50	36 09
2,600 00	4 52	67 12	2,598 85	-0 58	42 95	90 77	42 96
2,700 00	2 88	67 19	2,698 64	1 93	48 90	87 74	48 94
2,800 00	2 54	63 67	2,798 53	3 89	53 20	85 82	53 34
2,900 00	1 93	59 36	2,898 45	5 73	56 64	84 23	56 93
3,000 00	1 68	60 85	2,998 40	7 30	59 37	82 99	59 81
3,100 00	1 56	64 39	3,098 36	8 60	61 87	82 08	62 47
3,200 00	1 65	65 73	3,198 32	9 78	64 41	81 36	65 15
3,300 00	1 66	65 16	3,298 28	10 98	67 04	80 70	67 93
3,400 00	1 08	44 27	3,398 25	12 27	69 01	79 92	70 09
3,500 00	0 91	43 32	3,498 24	13 52	70 22	79 10	71 51
3,600 00	0 82	40 06	3,598 23	14 64	71 22	78 38	72 71
3,700 00	0 77	30 70	3,698 22	15 77	72 02	77 65	73 73
3,800 00	0 92	28 74	3,798 21	17 05	72 75	76 81	74 73
3,900 00	1 08	26 99	3,898 19	18 59	73 57	75 82	75 88
4,000 00	1 06	29 14	3,998 17	20 24	74 45	74 79	77 15
4,100 00	1 03	33 08	4,098 16	21 80	75 39	73 87	78 48
4,200 00	1 02	24 21	4,198 14	23 37	76 24	72 96	79 74
4,300 00	1 07	26 36	4,298 13	25 02	77 02	72 01	80 98
4,400 00	1 09	19 07	4,398 11	26 75	77 75	71 01	82 22
4,500 00	1 02	33 54	4,498 09	28 39	78 55	70 13	83 52
4,600 00	0 92	36 53	4,598 08	29 78	79 52	69 47	84 91
4,700 00	0 82	37 73	4,698 07	30 99	80 43	68 93	86 20
4,755 00	0 87	26 34	4,753 06	31 68	80 86	68 61	86 84

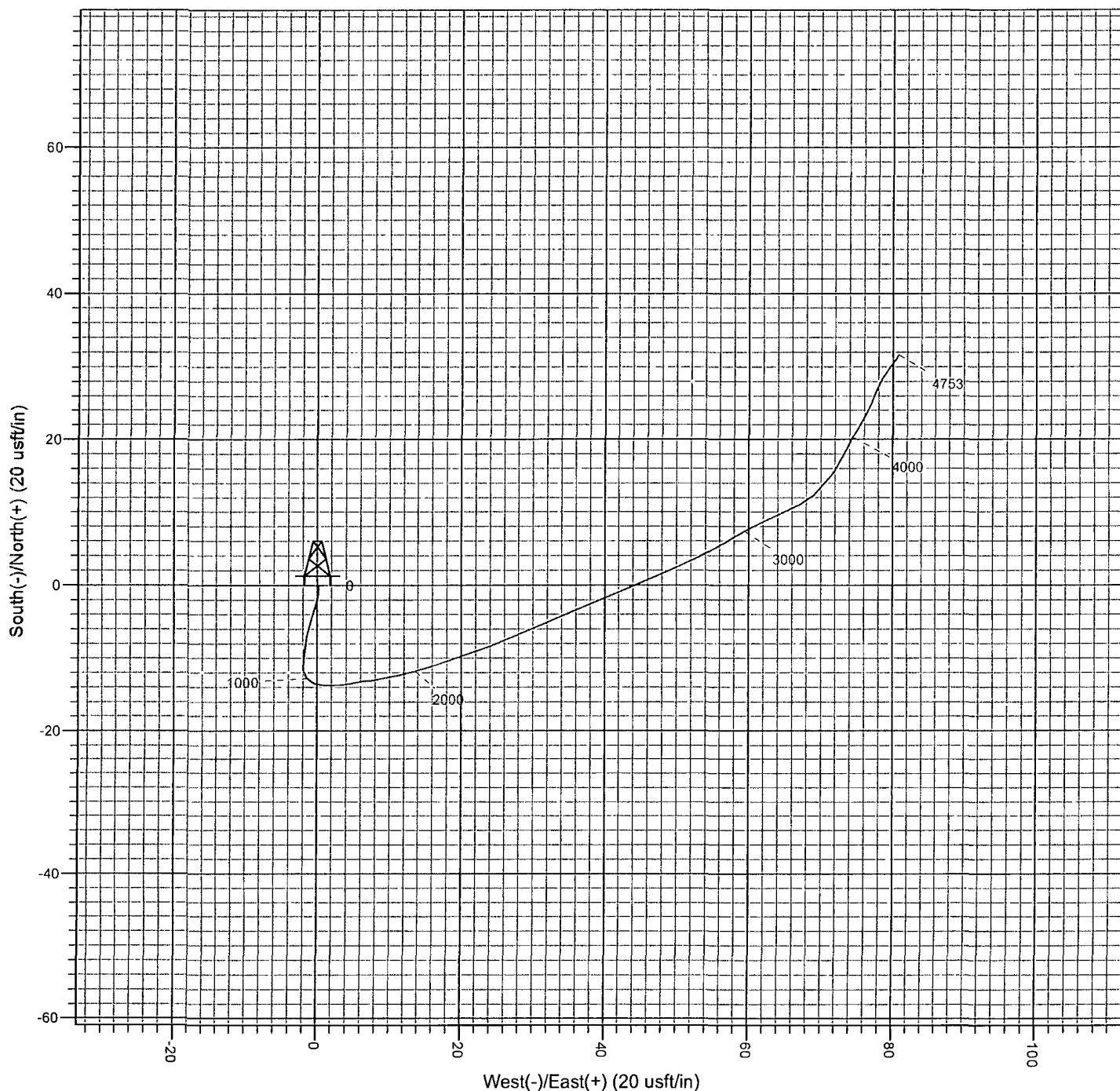


Scientific Drilling

Project: Cedar Lake
Eddy County, NM
Well: NFE Federal #8
Wellbore: VH - Job #32K0712854
Design: VH - Job #32K0712854

WELL DETAILS: NFE Federal #8
WELL @ 0.00usft (Original Well Elev)

+N/-S	+E/-W	Northing	Ground Level:	Easting	Latitude	Longitude	Slot
0.00	0.00	672851.67	0.00	633386.21	32° 50' 56.400 N	103° 53' 56.400 W	



PROJECT DETAILS: Cedar Lake	SITE DETAILS: Eddy County, NM
Geodetic System: US State Plane 1927 (Exact solution)	Site Centre Latitude: 32° 50' 56.400 N
Datum: NAD 1927 (NADCON CONUS)	Longitude: 103° 53' 56.400 W
Ellipsoid: Clarke 1866	Positional Uncertainty: 0.00
Zone: New Mexico East 3001	Convergence: 0.24
System Datum: Mean Sea Level	Local North: Grid