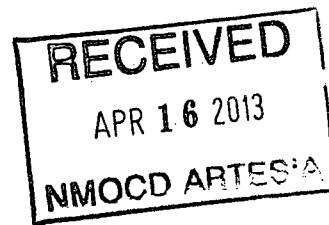


OPERATOR Apache
WELL/LEASE Lee Federal 56D API# 30-015-40730
COUNTY Eddy 2300' FSL & 450' FWL, UL: L 17-17S-31E

STATE OF NEW MEXICO
DEVIATION REPORT

105	0.75
381	1.00
608	3.00
1078	3.00
1553	2.90
2122	7.30
2598	6.30
3074	3.70
3547	7.90
3655	9.00
3750	6.70
3845	4.30
3940	4.70
4036	4.60
4687	4.00
4782	5.80
4877	5.60
4972	5.50
5067	5.60
5731	6.20
5826	7.10
5920	7.10
6015	6.90
6110	6.80
6334	6.10



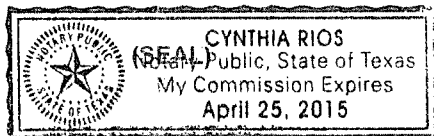
SIGNED BY: Ron Scandolari

RON SCANDOLARI, VP CONTRACT DRILLING

STATE OF TEXAS

COUNTY OF MIDLAND

ON THIS 23rd DAY OF January, 2013, BEFORE ME, C RIOS, A NOTARY PUBLIC, PERSONALLY APPEARED RON SCANDOLARI, WHO ACKNOWLEDGED AND EXECUTED THIS DOCUMENT. WITNESS MY HAND AND OFFICIAL SEAL.



Cynthia Rios
NOTARY PUBLIC

APACHE CORP

Cedar Lake
Eddy County, NM
Lee Federal #56
VH - Job #320113-KW-003

Survey: Gyro

SDI Standard Survey Report

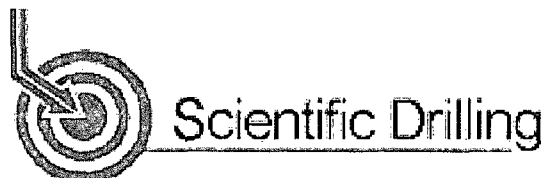
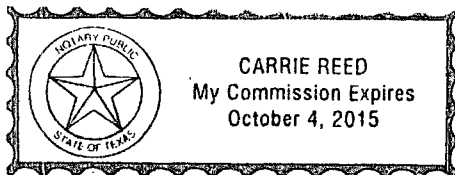
This survey is correct to the best of my knowledge and is supported by actual field data.

K. Hester

Notarized this date 11th of February, 2013.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	APACHE CORP	Local Co-ordinate Reference:	Well Lee Federal #56
Project:	Cedar Lake	TVD Reference:	WELL @ 0.00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.00usft (Original Well Elev)
Well:	Lee Federal #56	North Reference:	Grid
Wellbore:	VH - Job #320113-KW-003	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #320113-KW-003	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	Lee Federal #56, Directional (Unknown)					
Well Position	+N/-S	0.00 usft	Northing:	667,152.47 usft	Latitude:	32° 50' 0.000 N
	+E/-W	0.00 usft	Easting:	633,529.10 usft	Longitude:	103° 53' 55.000 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	0.00 usft	

Wellbore	VH - Job #320113-KW-003				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	01/02/13	(°) 7.59	(°) 60.65	(nT) 48,818

Design	VH - Job #320113-KW-003				
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	88.50	

Survey Program	Date	01/13/13			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.00	343.00	Gyro (VH - Job #320113-KW-003)	Keeper	Keeper Gyro	

Survey								
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance	
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.13	67.89	100.00	0.04	0.11	67.89	0.11	0.11
200.00	0.02	289.35	200.00	0.09	0.19	64.80	0.21	0.21
300.00	0.21	177.07	300.00	-0.09	0.19	114.75	0.21	0.21
343.00	0.79	224.54	343.00	-0.38	-0.02	182.63	0.38	0.38

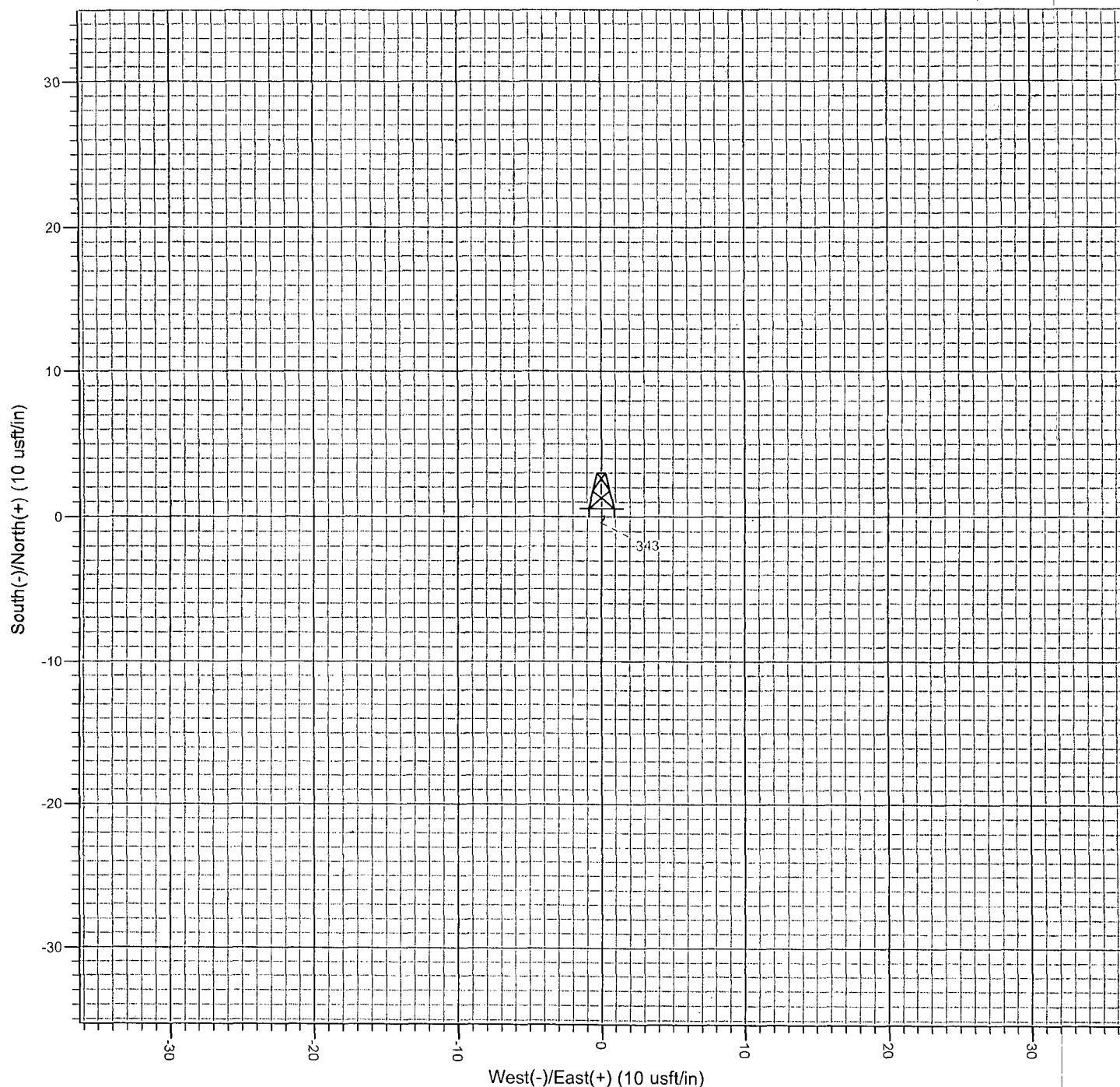


Scientific Drilling

Project: Cedar Lake
Eddy County, NM
Well: Lee Federal #56
Wellbore: VH - Job #320113-KW-003
Design: VH - Job #320113-KW-003

WELL DETAILS: Lee Federal #56
WELL @ 0.00usft (Original Well Elev)
Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	667152.47	633529.10	32° 50' 0.000 N	103° 53' 55.000 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

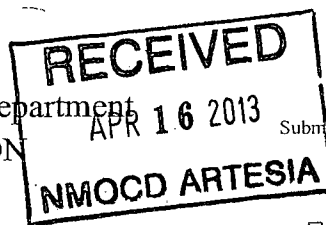
DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

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 30-015-40730	Pool Code 96831	Pool Name Cedar Lake; Glorieta-Yeso
Property Code 308720	Property Name LEE FEDERAL	Well Number 056
GRID No. 873	Operator Name APACHE CORPORATION	Elevation 3704'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	17	17-S	31-E		2300	SOUTH	450	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
L	17	17-S	31-E		2310	SOUTH	990	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=667195.4 N X=633568.5 E LAT.=32.833451° N LONG.=103.898482° W LAT.=32° 50' 00" N LONG.=103° 53' 55" W BOTTOM HOLE LOCATION Y=667209.5 N X=634108.2 E GRID AZ.=88°30'16" HORIZ.DIST.=540.1'	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> 04/03/13 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. November 8, 2011 Date of Survey Signature & Seal of Professional Surveyor: <i>[Signature]</i> Gary G. Eidson New Mexico 12641 Professional Surveyor Certificate Number AF/DSR Rel.WO#11.11.2382 JWSC W.O.: 12.13.1050	CORNER COORDINATES A) Y=667534.6 N; X=633116.5 E B) Y=667544.2 N; X=634436.5 E C) Y=666223.5 N; X=634444.1 E D) Y=666213.6 N; X=633124.2 E