

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM 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.**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMLCQ29395B
2. Name of Operator APACHE CORPORATION		6. If Indian, Allottee or Tribe Name
Contact: SORINA L FLORES E-Mail: sorina.flores@apachecorp.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 303 VETERANS AIRPARK LN #3000 MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1167 Fx: 432-818-1193	8. Well Name and No. LEE FEDERAL 58
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 20 T17S R31E 1285FNL 2470FEL 32.823622 N Lat, 103.890784 W Lon		9. API Well No. 30-015-40175
		10. Field and Pool, or Exploratory YESO
		11. County or Parish, and State EDDY COUNTY, NM

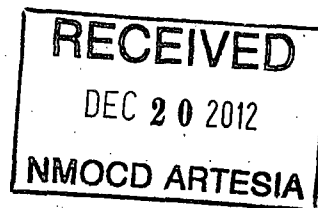
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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.)

BOND#: BLM-CO-1463 / NMB000736

Apache Corporation request to change the Lee Federal #58 (api# 30-015-40175) from a vertical to a directional well due to surface obstructions.

SHL: 1285' FNL & 2470' FEL BHL: 990' FNL & 2310' FEL of section 20, T17S, R31E. Please see amended C-102 and directional plan attached.
TVD: 6400' MD: 6409'Accepted for record
NMOCDTES
12/21/2012

original COA still stands

14. Thereby certify that the foregoing is true and correct.	
Electronic Submission #161661 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 12/11/2012 ()	
Name (Printed/Typed) SORINA L FLORES	Title SUPV DRLG SERVICES
Signature (Electronic Submission)	Date 12/04/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	APPROVED	
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 _____	Date DEC 18 2012	_____

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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

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

DISTRICT II
811 S. First St., Azusa, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Road, Azusa, 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

CEIV

C 20 20

PARTE 1

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-40175	Pool Code 96831	Pool Name Cedar Lake, Glorieta-Yeso
Property Code 308720	Property Name LEE FEDERAL	Well Number 58
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3652'

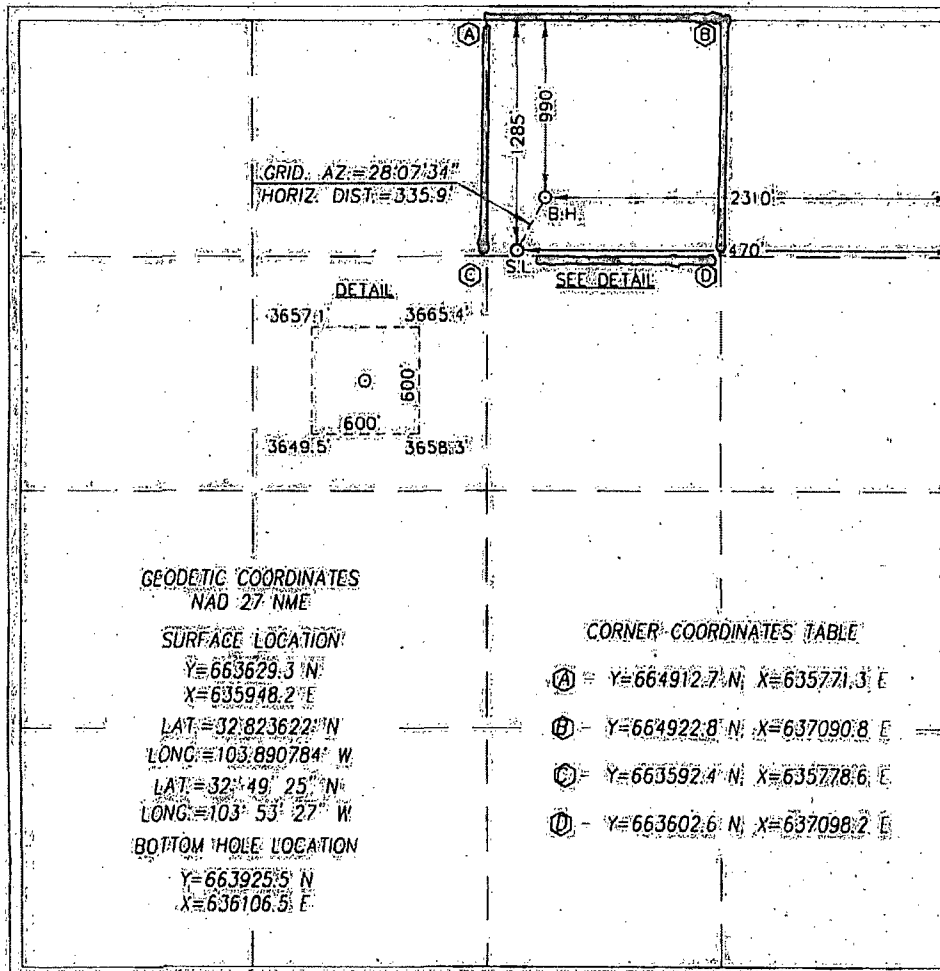
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	20	17-S	31-E		1285	NORTH	2470	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
B	20	17-S	31-E		990	NORTH	2310	EAST	EDDY
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

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



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: *Sorina L Flores* Date: *12/4/12*
Printed Name: *Sorina L. Flores*
E-mail Address: *sorina.flores@apachecorp.com*

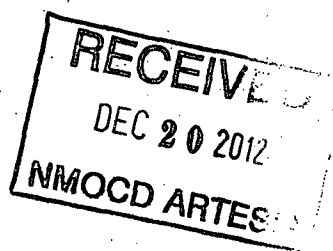
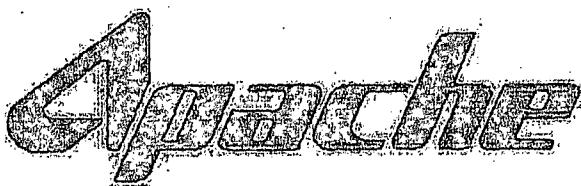
SURVEYOR CERTIFICATION

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.

DECEMBER 8, 2011

Date of Survey
Signature & Seal of Professional Surveyor:

GARY G. EIDSON
Professional Surveyor
12641
Complete Number: *Gary G. Eidson 12641*
Renewal: *Eidson 3239*
AP PROFESSIONAL SURVEYOR W.O. 1213.0250



Apache Corporation

Eddy County, New Mexico

Sec 20, T17-S, R31-E

Lee Federal #58

Wellbore #1

Plan: Design #1

DDC Well Planning Report

04 December, 2012



DDC Well Planning Report

Database:	EDM 5000.1 Single User Db	Local Coordinate Reference:	Well: Lee Federal #58
Company:	Apache Corporation	TVD Reference:	WELL @ 3652.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3652.0usft (Original Well Elev)
Site:	Sec 20, T17-S, R31-E	North Reference:	Grid:
Well:	Lee Federal #58	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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		

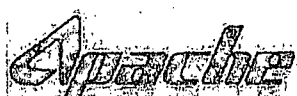
Site:	Sec 20, T17-S, R31-E		
Site Position:		Northing:	661,172.80 usft
From:	Map	Easting:	634,332.20 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 49' 0.798 N
		Longitude:	103° 53' 45.878 W
		Grid Convergence:	0.24 °

Well:	Lee Federal #58		
Well Position	+N/S 2,456.5 usft	Northing:	663,629.30 usft
	+E/W 1,616.0 usft	Easting:	635,948.20 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	
		Latitude:	32° 49' 25.038 N
		Longitude:	103° 53' 26.821 W
		Ground Level:	3,652.0 usft

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010	11/28/2012	7.60
			Dip Angle
			60.65
			Field Strength
			48,795

Design:	Design #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/S	+E/W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			28.12

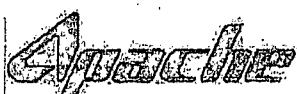
Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
562.4	3:25	28:12	562.3	4.1	2.2	2.00	2.00	17:32	28:12	
6,409.5	3:25	28:12	6,400.0	296.2	158.3	0.00	0.00	0.00	0.00	PBHL Lee Federal



DDC Well Planning Report

Database:	EDM 5000.1 Single User Db.	Local Co-ordinate Reference:	Well Lee Federal #58
Company:	Apache Corporation	TVD Reference:	WELL @ 3652.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3652.0usft (Original Well Elev)
Site:	Sec 20, T17-S, R31-E	North Reference:	Grid
Well:	Lee Federal #58	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned 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)
Build 2°/100'									
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
T/Salt									
479.0	1.68	28.12	479.0	1.0	0.5	1.1	2.00	2.00	0.00
500.0	2.00	28.12	500.0	1.5	0.8	1.7	2.00	2.00	0.00
EOB @ 3.25° Inc. / 28.12° Azim									
562.4	3.25	28.12	562.3	4.1	2.2	4.6	2.00	2.00	0.00
600.0	3.25	28.12	599.9	5.9	3.2	6.7	0.00	0.00	0.00
700.0	3.25	28.12	699.7	10.9	5.8	12.4	0.00	0.00	0.00
800.0	3.25	28.12	799.5	15.9	8.5	18.1	0.00	0.00	0.00
900.0	3.25	28.12	899.4	20.9	11.2	23.7	0.00	0.00	0.00
1,000.0	3.25	28.12	999.2	25.9	13.9	29.4	0.00	0.00	0.00
1,100.0	3.25	28.12	1,099.0	30.9	16.5	35.1	0.00	0.00	0.00
1,200.0	3.25	28.12	1,198.9	35.9	19.2	40.7	0.00	0.00	0.00
1,300.0	3.25	28.12	1,298.7	40.9	21.9	46.4	0.00	0.00	0.00
B/Salt									
1,302.3	3.25	28.12	1,301.0	41.0	21.9	46.6	0.00	0.00	0.00
1,400.0	3.25	28.12	1,398.6	45.9	24.5	52.1	0.00	0.00	0.00
Yates									
1,465.5	3.25	28.12	1,464.0	49.2	26.3	55.8	0.00	0.00	0.00
1,500.0	3.25	28.12	1,498.4	50.9	27.2	57.7	0.00	0.00	0.00
1,600.0	3.25	28.12	1,598.2	55.9	29.9	63.4	0.00	0.00	0.00
1,700.0	3.25	28.12	1,698.1	60.9	32.5	69.0	0.00	0.00	0.00
Seven Rivers									
1,761.0	3.25	28.12	1,759.0	63.9	34.2	72.5	0.00	0.00	0.00
1,800.0	3.25	28.12	1,797.9	65.9	35.2	74.7	0.00	0.00	0.00
1,900.0	3.25	28.12	1,897.8	70.9	37.9	80.4	0.00	0.00	0.00
2,000.0	3.25	28.12	1,997.6	75.9	40.6	86.0	0.00	0.00	0.00
2,100.0	3.25	28.12	2,097.4	80.9	43.2	91.7	0.00	0.00	0.00
2,200.0	3.25	28.12	2,197.3	85.9	45.9	97.4	0.00	0.00	0.00
2,300.0	3.25	28.12	2,297.1	90.9	48.6	103.0	0.00	0.00	0.00
Queen									
2,362.0	3.25	28.12	2,359.0	94.0	50.2	106.6	0.00	0.00	0.00
2,400.0	3.25	28.12	2,397.0	95.9	51.2	108.7	0.00	0.00	0.00
2,500.0	3.25	28.12	2,496.8	100.9	53.9	114.4	0.00	0.00	0.00
2,600.0	3.25	28.12	2,596.6	105.9	56.6	120.0	0.00	0.00	0.00
2,700.0	3.25	28.12	2,696.5	110.9	59.2	125.7	0.00	0.00	0.00
Grayburg									
2,702.5	3.25	28.12	2,699.0	111.0	59.3	125.8	0.00	0.00	0.00
2,800.0	3.25	28.12	2,796.3	115.9	61.9	131.4	0.00	0.00	0.00
2,900.0	3.25	28.12	2,896.2	120.9	64.6	137.0	0.00	0.00	0.00
3,000.0	3.25	28.12	2,996.0	125.9	67.3	142.7	0.00	0.00	0.00
San Andres									
3,072.1	3.25	28.12	3,068.0	129.5	69.2	146.8	0.00	0.00	0.00
3,100.0	3.25	28.12	3,095.8	130.8	69.9	148.4	0.00	0.00	0.00
3,200.0	3.25	28.12	3,195.7	135.8	72.6	154.0	0.00	0.00	0.00
3,300.0	3.25	28.12	3,295.5	140.8	75.3	159.7	0.00	0.00	0.00
3,400.0	3.25	28.12	3,395.4	145.8	77.9	165.4	0.00	0.00	0.00
3,500.0	3.25	28.12	3,495.2	150.8	80.6	171.0	0.00	0.00	0.00
3,600.0	3.25	28.12	3,595.0	155.8	83.3	176.7	0.00	0.00	0.00
3,700.0	3.25	28.12	3,694.9	160.8	86.0	182.4	0.00	0.00	0.00
3,800.0	3.25	28.12	3,794.7	165.8	88.6	188.0	0.00	0.00	0.00
3,900.0	3.25	28.12	3,894.6	170.8	91.3	193.7	0.00	0.00	0.00



DDC Well Planning Report

Database:	EDM 6000.1 Single User Db	Local Co-ordinate Reference:	Well Lee Federal #58
Company:	Apache Corporation	TVD Reference:	WELL @ 3652.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3652.0usft (Original Well Elev)
Site:	Sec 20, T17-S, R31-E	North Reference:	Grid
Well:	Lee Federal #58	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned 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)	
4,000.0	3:25	28:12	3,994.4	175.8	94.0	199.3	0.00	0.00	0.00	
4,100.0	3:25	28:12	4,094.2	180.8	96.6	205.0	0.00	0.00	0.00	
4,200.0	3:25	28:12	4,194.1	185.8	99.3	210.7	0.00	0.00	0.00	
4,300.0	3:25	28:12	4,293.9	190.8	102.0	216.3	0.00	0.00	0.00	
4,400.0	3:25	28:12	4,393.7	195.8	104.6	222.0	0.00	0.00	0.00	
4,500.0	3:25	28:12	4,493.6	200.8	107.3	227.7	0.00	0.00	0.00	
Glorita										
4,593.6	3:25	28:12	4,587.0	205.5	109.8	233.0	0.00	0.00	0.00	
4,600.0	3:25	28:12	4,593.4	205.8	110.0	233.3	0.00	0.00	0.00	
Yeso										
4,669.7	3:25	28:12	4,663.0	209.3	111.8	237.3	0.00	0.00	0.00	
4,700.0	3:25	28:12	4,693.3	210.8	112.7	239.0	0.00	0.00	0.00	
4,800.0	3:25	28:12	4,793.1	215.8	115.3	244.7	0.00	0.00	0.00	
4,900.0	3:25	28:12	4,892.9	220.8	118.0	250.3	0.00	0.00	0.00	
5,000.0	3:25	28:12	4,992.8	225.8	120.7	256.0	0.00	0.00	0.00	
5,100.0	3:25	28:12	5,092.6	230.8	123.3	261.7	0.00	0.00	0.00	
5,200.0	3:25	28:12	5,192.5	235.8	126.0	267.3	0.00	0.00	0.00	
5,300.0	3:25	28:12	5,292.3	240.8	128.7	273.0	0.00	0.00	0.00	
5,400.0	3:25	28:12	5,392.1	245.8	131.3	278.7	0.00	0.00	0.00	
5,500.0	3:25	28:12	5,492.0	250.8	134.0	284.3	0.00	0.00	0.00	
5,600.0	3:25	28:12	5,591.8	255.8	136.7	290.0	0.00	0.00	0.00	
5,700.0	3:25	28:12	5,691.7	260.8	139.4	295.7	0.00	0.00	0.00	
5,800.0	3:25	28:12	5,791.5	265.7	142.0	301.3	0.00	0.00	0.00	
5,900.0	3:25	28:12	5,891.3	270.7	144.7	307.0	0.00	0.00	0.00	
6,000.0	3:25	28:12	5,991.2	275.7	147.4	312.6	0.00	0.00	0.00	
6,100.0	3:25	28:12	6,091.0	280.7	150.0	318.3	0.00	0.00	0.00	
6,200.0	3:25	28:12	6,190.9	285.7	152.7	324.0	0.00	0.00	0.00	
6,300.0	3:25	28:12	6,290.7	290.7	155.4	329.6	0.00	0.00	0.00	
6,400.0	3:25	28:12	6,390.6	295.7	158.0	335.3	0.00	0.00	0.00	
6,409.5	3:25	28:12	6,400.0	296.2	158.3	335.8	0.00	0.00	0.00	

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL Lee Federal #5	plan hits target center	0.00	0.00	6,400.0	296.2	158.3	663,925.50	636,106.50	32° 49' 27.963 N	103° 53' 24.951 W
Point										

Casing Points										
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")						
285.0	285.0	9 5/8"	9 5/8"	12 1/4"						



DDC Well Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Lee Federal #58
Company:	Apache Corporation	TVD Reference:	WELL @ 3652.0usft (Original Well Elev)
Project:	Eddy County, New Mexico	MD Reference:	WELL @ 3652.0usft (Original Well Elev)
Site:	Sec 20 T17 S R31 E	North Reference:	Grid
Well:	Lee Federal #58	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
276.0	276.0	Rusler		0.00	28.12	
479.0	479.0	T/Salt		0.00	28.12	
1,302.3	1,301.0	B/Salt		0.00	28.12	
1,465.5	1,464.0	Yates		0.00	28.12	
1,761.0	1,759.0	Seven Rivers		0.00	28.12	
2,362.0	2,359.0	Queen		0.00	28.12	
2,702.5	2,699.0	Grayburg		0.00	28.12	
3,072.1	3,068.0	San Andres		0.00	28.12	
4,593.6	4,587.0	Glorita		0.00	28.12	
4,669.7	4,663.0	Yeso		0.00	28.12	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		N/S (usft)	E/W (usft)	Comment	
400.0	400.0	0.0	0.0	Build 2°/100'	
562.4	562.3	4.1	2.2	EOB @ 3.25° Inc / 28.12° Azm	
6,409.5	6,400.0	209.3	11.18	TD @ 64.10° MD / 6400' TVD	

Apache

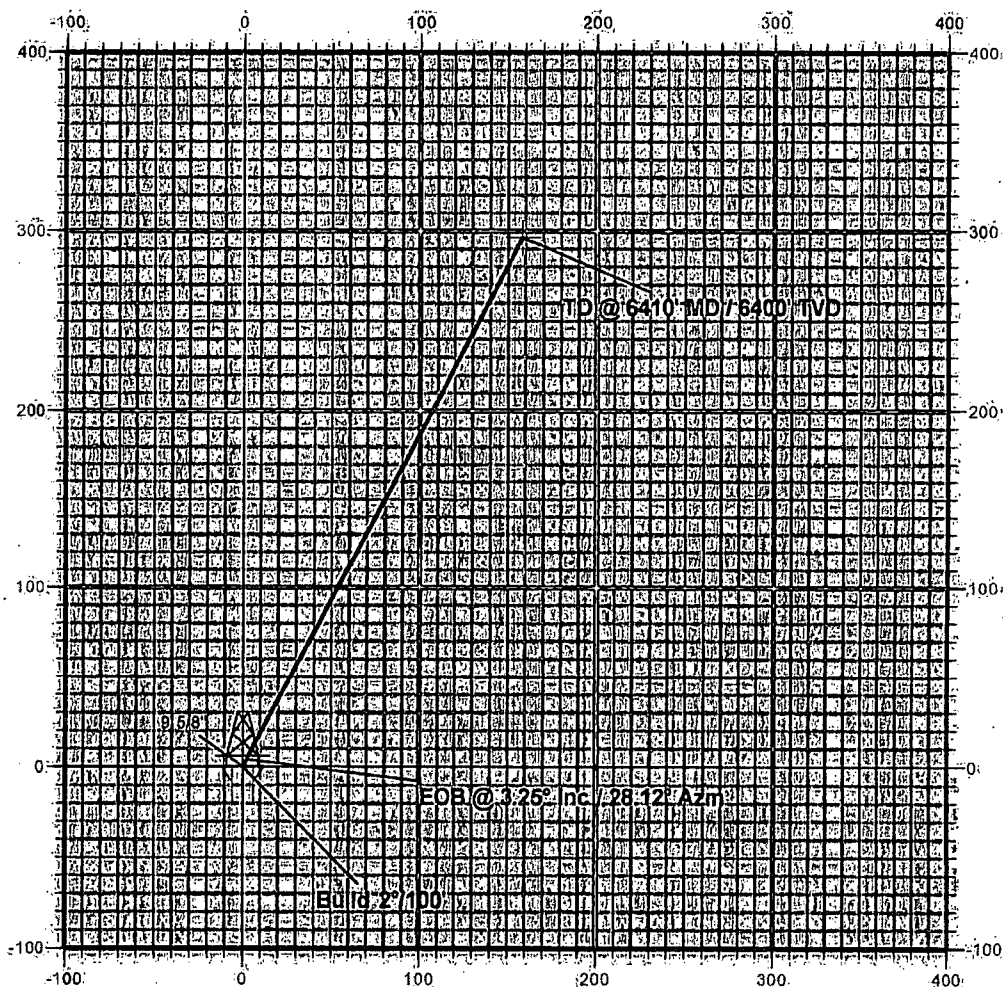


Eddy County, New Mexico

Lee Federal #58

Quote 120901

Design #1



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Eddy County, New Mexico
Lee Federal #58
Quote 102901
Design #1

