

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 ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMLC029435B
2. Name of Operator APACHE CORPORATION		6. If Indian, Allottee or Tribe Name
Contact: SORINA FLORES E-Mail: sorina.flores@apachecorp.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1167	8. Well Name and No. NFE FEDERAL 29H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T17S R31E SESE 0985FSL 0155FEL 32.858865 N Lat, 103.900501 W Lon		9. API Well No. 30-015-42585-00-X1
		10. Field and Pool, or Exploratory CEDAR LAKE
		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			
☒ 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	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ 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.)

BLM-CO-1463 NATIONWIDE / NMB000736

APACHE CORP REQUEST TO CHANGE TVD & MD FOR THE NFE FEDERAL #29H
FROM: TVD: 5200' MD: 9713'
TO: TVD: 5200' MD: 9612' LANDING TVD: 5303'

NEW DIRECTIONAL PLAN ATTACHED. NO OTHER CHANGE FROM ORIGINAL DRILLING PLAN.

Original COAs Still Stand

NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 26 2015

RECEIVED

*Accepted for record
820 NMSCD 2/4/15*

14. I hereby certify that the foregoing is true and correct. Electronic Submission #288596 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER MASON on 01/20/2015 (15JAM0196SE)	
Name (Printed/Typed) SORINA FLORES	Title SUBMITTING CONTACT
Signature (Electronic Submission)	Date 01/20/2015
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	
Approved By _____	Title _____
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.	

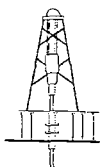
APPROVED

JAN 20 2015

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE



NFE Federal #29H #29H
Eddy County, NM (NAD27 NME)
Northing: (Y) 676438.90
Easting: (X) 632910.40
Plan #1



KB= 11' @ 3764.00usft (Capstar 119)
Ground Level: 3753.00

WELL DETAILS:					
		Ground Level:	3753.00		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	676438.90	632910.40	32° 51' 31.915 N	103° 54' 1.805 W

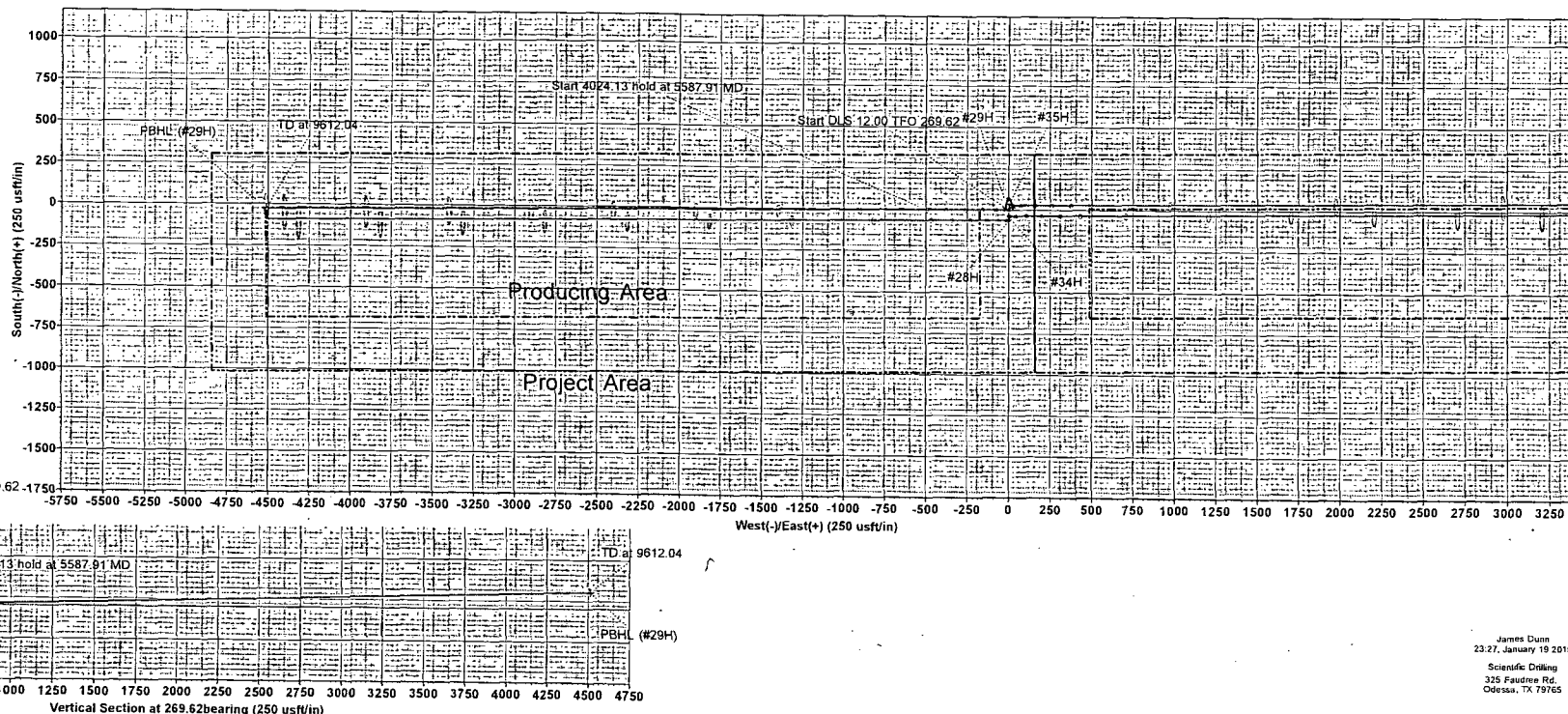
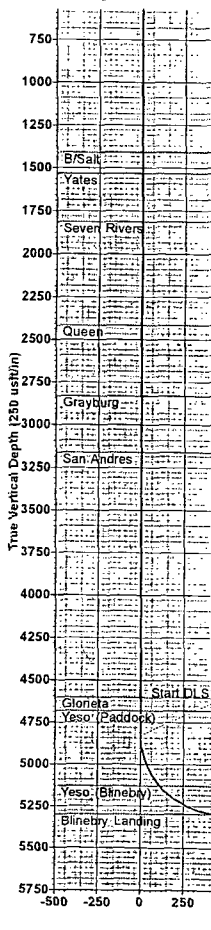
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4825.69	0.00	0.00	4825.69	0.00	0.00	0.00	0.00	0.00	
5587.91	91.47	269.62	5303.00	-3.26	-489.67	12.00	269.62	489.69	
9612.04	91.47	269.62	5200.00	-30.00	-4512.40	0.00	0.00	4512.50	PBHL (#29H)

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (#29H)	5200.00	-30.00	-4512.40	676408.90	628398.00

SITE DETAILS: NFE Federal #29H			PROJECT DETAILS: Eddy County, NM (NAD27 NME)		
Site Centre Northing:	676438.90		Geodetic System:	US State Plane 1927 (Exact solution)	
Easting:	632910.40		Datum:	NAD 1927 (NADCON CONUS)	
Positional Uncertainty:	0.00		Ellipsoid:	Clarke 1866	
Convergence:	0.23		Zone:	New Mexico East 3001	
Local North:	Grid		System Datum:	Mean Sea Level	

LEGEND	
→	#28H, OH, Plan #1 V0
→	#34H, OH, Plan #1 V0
→	#35H, OH, Plan #1 V0
→	Plan #1

Map System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone Name:	New Mexico East 3001
Local Origin:	Well #29H, Grid North
Latitude:	32° 51' 31.915 N
Longitude:	103° 54' 1.805 W
Grid East:	632910.40
Grid North:	676438.90
Scale Factor:	1.000
Geomagnetic Model:	BGGM2014
Sample Date:	19-Jan-15
Magnetic Declination:	7.52°
Dip Angle from Horizontal:	60.62°
Magnetic Field Strength:	48549
To convert Magnetic North to Grid, Add 7.29°	
To convert Magnetic North to True, Add 7.52° East	
To convert True North to Grid, Subtract 0.23°	





Apache Corporation

Eddy County, NM (NAD27 NME)

NFE Federal #29H

#29H

OH

Plan: Plan #1

Standard Planning Report

19 January, 2015



www.scientificdrilling.com



Planning Report



Database:	Midland District	Local Co-ordinate Reference:	Well #29H
Company:	Apache Corporation	TVD Reference:	KB= 11' @ 3764.00usft (Capstar 119)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB= 11' @ 3764.00usft (Capstar 119)
Site:	NFE Federal #29H	North Reference:	Grid:
Well:	#29H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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		

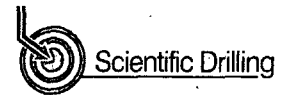
Site:	NFE Federal #29H		
Site Position:	Map	Northings:	676,438.90 usft
From:		Easting:	632,910.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 51' 31.915 N
		Longitude:	103° 54' 1.805 W
		Grid Convergence:	0.23 °

Well:	#29H		
Well Position	+N/-S	0.00 usft	Northings:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 51' 31.915 N
		Longitude:	103° 54' 1.805 W
		Ground Level:	3,753.00 usft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2014	1/19/2015	7.52
			Dip Angle
			(°)
			60.62
			Field Strength
			(nT)
			48,549

Design:	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(bearing)
			269.62

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(bearing)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(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	
4,825.69	0.00	0.00	4,825.69	0.00	0.00	0.00	0.00	0.00	0.00	
5,587.91	91.47	269.62	5,303.00	-3.26	-489.67	12.00	12.00	-11.86	269.62	
9,612.04	91.47	269.62	5,200.00	-30.00	-4,512.40	0.00	0.00	0.00	0.00	PBHL (#29H)



Database:	Midland District	Local Co-ordinate Reference:	Well #29H
Company:	Apache Corporation	TVD Reference:	KB= 11' @ 3764.00usft (Capstar 119)
Project:	Eddy County NM (NAD27, NME)	MD Reference:	KB= 11' @ 3764.00usft (Capstar 119)
Site:	NFE Federal #29H	North Reference:	Grid
Well:	#29H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
344.00	0.00	0.00	344.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
529.00	0.00	0.00	529.00	0.00	0.00	0.00	0.00	0.00	0.00
T/Salt									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,414.00	0.00	0.00	1,414.00	0.00	0.00	0.00	0.00	0.00	0.00
B/Salt									
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,534.00	0.00	0.00	1,534.00	0.00	0.00	0.00	0.00	0.00	0.00
Yates									
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,814.00	0.00	0.00	1,814.00	0.00	0.00	0.00	0.00	0.00	0.00
Seven Rivers									
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,418.00	0.00	0.00	2,418.00	0.00	0.00	0.00	0.00	0.00	0.00
Queen									
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,834.00	0.00	0.00	2,834.00	0.00	0.00	0.00	0.00	0.00	0.00
Grayburg									
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,164.00	0.00	0.00	3,164.00	0.00	0.00	0.00	0.00	0.00	0.00
San Andres									
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00



Planning Report

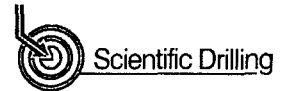


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Site:	NFE-Federal #29H	North Reference:	Grid
Well:	#29H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,604.00	0.00	0.00	4,604.00	0.00	0.00	0.00	0.00	0.00	0.00	
Glorieta										
4,684.00	0.00	0.00	4,684.00	0.00	0.00	0.00	0.00	0.00	0.00	
Yeso (Paddock)										
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,825.69	0.00	0.00	4,825.69	0.00	0.00	0.00	0.00	0.00	0.00	
4,850.00	2.92	269.62	4,849.99	0.00	-0.62	0.62	12.00	12.00	0.00	
4,875.00	5.92	269.62	4,874.91	-0.02	-2.54	2.54	12.00	12.00	0.00	
4,900.00	8.92	269.62	4,899.70	-0.04	-5.77	5.77	12.00	12.00	0.00	
4,925.00	11.92	269.62	4,924.29	-0.07	-10.29	10.29	12.00	12.00	0.00	
4,950.00	14.92	269.62	4,948.60	-0.11	-16.09	16.09	12.00	12.00	0.00	
4,975.00	17.92	269.62	4,972.58	-0.15	-23.16	23.16	12.00	12.00	0.00	
5,000.00	20.92	269.62	4,996.15	-0.21	-31.47	31.47	12.00	12.00	0.00	
5,025.00	23.92	269.62	5,019.26	-0.27	-41.00	41.00	12.00	12.00	0.00	
5,050.00	26.92	269.62	5,041.84	-0.34	-51.73	51.73	12.00	12.00	0.00	
5,075.00	29.92	269.62	5,063.82	-0.42	-63.62	63.62	12.00	12.00	0.00	
5,100.00	32.92	269.62	5,085.16	-0.51	-76.65	76.65	12.00	12.00	0.00	
5,125.00	35.92	269.62	5,105.78	-0.60	-90.78	90.78	12.00	12.00	0.00	
5,150.00	38.92	269.62	5,125.63	-0.70	-105.97	105.97	12.00	12.00	0.00	
5,160.86	40.22	269.62	5,134.00	-0.75	-112.88	112.89	12.00	12.00	0.00	
Yeso (Blinbry)										
5,175.00	41.92	269.62	5,144.66	-0.81	-122.18	122.18	12.00	12.00	0.00	
5,200.00	44.92	269.62	5,162.82	-0.93	-139.36	139.36	12.00	12.00	0.00	
5,225.00	47.92	269.62	5,180.05	-1.05	-157.46	157.47	12.00	12.00	0.00	
5,250.00	50.92	269.62	5,196.32	-1.17	-176.45	176.45	12.00	12.00	0.00	
5,275.00	53.92	269.62	5,211.56	-1.30	-196.26	196.26	12.00	12.00	0.00	
5,300.00	56.92	269.62	5,225.75	-1.44	-216.84	216.84	12.00	12.00	0.00	
5,325.00	59.92	269.62	5,238.84	-1.58	-238.13	238.14	12.00	12.00	0.00	
5,350.00	62.92	269.62	5,250.80	-1.73	-260.08	260.09	12.00	12.00	0.00	
5,375.00	65.92	269.62	5,261.59	-1.88	-282.63	282.63	12.00	12.00	0.00	
5,400.00	68.92	269.62	5,271.19	-2.03	-305.71	305.71	12.00	12.00	0.00	
5,425.00	71.92	269.62	5,279.57	-2.19	-329.26	329.26	12.00	12.00	0.00	
5,450.00	74.92	269.62	5,286.71	-2.35	-353.21	353.22	12.00	12.00	0.00	
5,475.00	77.92	269.62	5,292.58	-2.51	-377.51	377.52	12.00	12.00	0.00	
5,500.00	80.92	269.62	5,297.17	-2.67	-402.08	402.09	12.00	12.00	0.00	
5,525.00	83.92	269.62	5,300.47	-2.84	-426.86	426.87	12.00	12.00	0.00	
5,550.00	86.92	269.62	5,302.46	-3.00	-451.78	451.79	12.00	12.00	0.00	
5,563.53	88.54	269.62	5,303.00	-3.09	-465.30	465.31	12.00	12.00	0.00	
Blinbry Landing										
5,575.00	89.92	269.62	5,303.15	-3.17	-476.76	476.77	12.00	12.00	0.00	
5,587.91	91.47	269.62	5,303.00	-3.26	-489.67	489.69	12.00	12.00	0.00	
5,600.00	91.47	269.62	5,302.69	-3.34	-501.76	501.77	0.00	0.00	0.00	
5,700.00	91.47	269.62	5,300.13	-4.00	-601.72	601.74	0.00	0.00	0.00	



Planning Report



Database:	Midland District	Local Co-ordinate Reference:	Well #29H
Company:	Apache Corporation	TVD Reference:	KB= 11' @ 3764.00usft (Capstar 119)
Project:	Eddy County, NM (NAD27, NME)	MD Reference:	KB= 11' @ 3764.00usft (Capstar 119)
Site:	NFE Federal #29H	North Reference:	Grid
Well:	#29H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,800.00	91.47	269.62	5,297.57	-4.67	-701.69	701.70	0.00	0.00	0.00
5,900.00	91.47	269.62	5,295.01	-5.33	-801.65	801.67	0.00	0.00	0.00
6,000.00	91.47	269.62	5,292.45	-5.99	-901.62	901.64	0.00	0.00	0.00
6,100.00	91.47	269.62	5,289.89	-6.66	-1,001.58	1,001.61	0.00	0.00	0.00
6,200.00	91.47	269.62	5,287.33	-7.32	-1,101.55	1,101.57	0.00	0.00	0.00
6,300.00	91.47	269.62	5,284.77	-7.99	-1,201.51	1,201.54	0.00	0.00	0.00
6,400.00	91.47	269.62	5,282.21	-8.65	-1,301.48	1,301.51	0.00	0.00	0.00
6,500.00	91.47	269.62	5,279.65	-9.32	-1,401.44	1,401.47	0.00	0.00	0.00
6,600.00	91.47	269.62	5,277.09	-9.98	-1,501.41	1,501.44	0.00	0.00	0.00
6,700.00	91.47	269.62	5,274.53	-10.65	-1,601.37	1,601.41	0.00	0.00	0.00
6,800.00	91.47	269.62	5,271.97	-11.31	-1,701.34	1,701.38	0.00	0.00	0.00
6,900.00	91.47	269.62	5,269.42	-11.98	-1,801.30	1,801.34	0.00	0.00	0.00
7,000.00	91.47	269.62	5,266.86	-12.64	-1,901.27	1,901.31	0.00	0.00	0.00
7,100.00	91.47	269.62	5,264.30	-13.30	-2,001.23	2,001.28	0.00	0.00	0.00
7,200.00	91.47	269.62	5,261.74	-13.97	-2,101.20	2,101.25	0.00	0.00	0.00
7,300.00	91.47	269.62	5,259.18	-14.63	-2,201.16	2,201.21	0.00	0.00	0.00
7,400.00	91.47	269.62	5,256.62	-15.30	-2,301.13	2,301.18	0.00	0.00	0.00
7,500.00	91.47	269.62	5,254.06	-15.96	-2,401.09	2,401.15	0.00	0.00	0.00
7,600.00	91.47	269.62	5,251.50	-16.63	-2,501.06	2,501.11	0.00	0.00	0.00
7,700.00	91.47	269.62	5,248.94	-17.29	-2,601.02	2,601.08	0.00	0.00	0.00
7,800.00	91.47	269.62	5,246.38	-17.96	-2,700.99	2,701.05	0.00	0.00	0.00
7,900.00	91.47	269.62	5,243.82	-18.62	-2,800.95	2,801.02	0.00	0.00	0.00
8,000.00	91.47	269.62	5,241.26	-19.29	-2,900.92	2,900.98	0.00	0.00	0.00
8,100.00	91.47	269.62	5,238.70	-19.95	-3,000.88	3,000.95	0.00	0.00	0.00
8,200.00	91.47	269.62	5,236.14	-20.62	-3,100.85	3,100.92	0.00	0.00	0.00
8,300.00	91.47	269.62	5,233.58	-21.28	-3,200.81	3,200.89	0.00	0.00	0.00
8,400.00	91.47	269.62	5,231.02	-21.94	-3,300.78	3,300.85	0.00	0.00	0.00
8,500.00	91.47	269.62	5,228.46	-22.61	-3,400.74	3,400.82	0.00	0.00	0.00
8,600.00	91.47	269.62	5,225.90	-23.27	-3,500.71	3,500.79	0.00	0.00	0.00
8,700.00	91.47	269.62	5,223.34	-23.94	-3,600.67	3,600.75	0.00	0.00	0.00
8,800.00	91.47	269.62	5,220.78	-24.60	-3,700.64	3,700.72	0.00	0.00	0.00
8,900.00	91.47	269.62	5,218.23	-25.27	-3,800.60	3,800.69	0.00	0.00	0.00
9,000.00	91.47	269.62	5,215.67	-25.93	-3,900.57	3,900.66	0.00	0.00	0.00
9,100.00	91.47	269.62	5,213.11	-26.60	-4,000.53	4,000.62	0.00	0.00	0.00
9,200.00	91.47	269.62	5,210.55	-27.26	-4,100.50	4,100.59	0.00	0.00	0.00
9,300.00	91.47	269.62	5,207.99	-27.93	-4,200.46	4,200.56	0.00	0.00	0.00
9,400.00	91.47	269.62	5,205.43	-28.59	-4,300.43	4,300.52	0.00	0.00	0.00
9,500.00	91.47	269.62	5,202.87	-29.26	-4,400.39	4,400.49	0.00	0.00	0.00
9,600.00	91.47	269.62	5,200.31	-29.92	-4,500.36	4,500.46	0.00	0.00	0.00
9,612.04	91.47	269.62	5,200.00	-30.00	-4,512.40	4,512.50	0.00	0.00	0.00

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
PBHL (#29H)		0.00	0.00	5,200.00	-30.00	-4,512.40	676,408.90	628,398.00	32° 51' 31.798 N 103° 54' 54.707 W
- plan hits target center									
- Point									

Database:	Midland District	Local Co-ordinate Reference:	Well #29H
Company:	Apache Corporation	TVD Reference:	KB= 11' @ 3764.00usft (Capstar 119)
Project:	Eddy County; NM (NAD27 NME)	MD Reference:	KB= 11' @ 3764.00usft (Capstar 119)
Site:	NFE Federal #29H	North Reference:	Grid
Well:	#29H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (bearing)	
344.00	344.00	Rustler				
529.00	529.00	T/Salt				
1,414.00	1,414.00	B/Salt				
1,534.00	1,534.00	Yates				
1,814.00	1,814.00	Seven Rivers				
2,418.00	2,418.00	Queen				
2,834.00	2,834.00	Grayburg				
3,164.00	3,164.00	San Andres				
4,604.00	4,604.00	Glorieta				
4,684.00	4,684.00	Yeso (Paddock)				
5,160.86	5,134.00	Yeso (Blinbry)				
5,563.53	5,303.00	Blinbry Landing				