

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 Contact: SORINA FLORES E-Mail: sorina.flores@apachecorp.com		6. If Indian, Allottee or Tribe Name
3a. Address 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1167	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T17S R31E NESE 2025FSL 200FEL 32.861723 N Lat, 103.900653 W Lon		8. Well Name and No. NFE FEDERAL 41H
		9. API Well No. 30-015-42901-00-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 recomplete 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 recompletion 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 #41H
FROM: TVD: 4900' MD: 9766'
TO: TVD: 5006' MD: 9823'

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

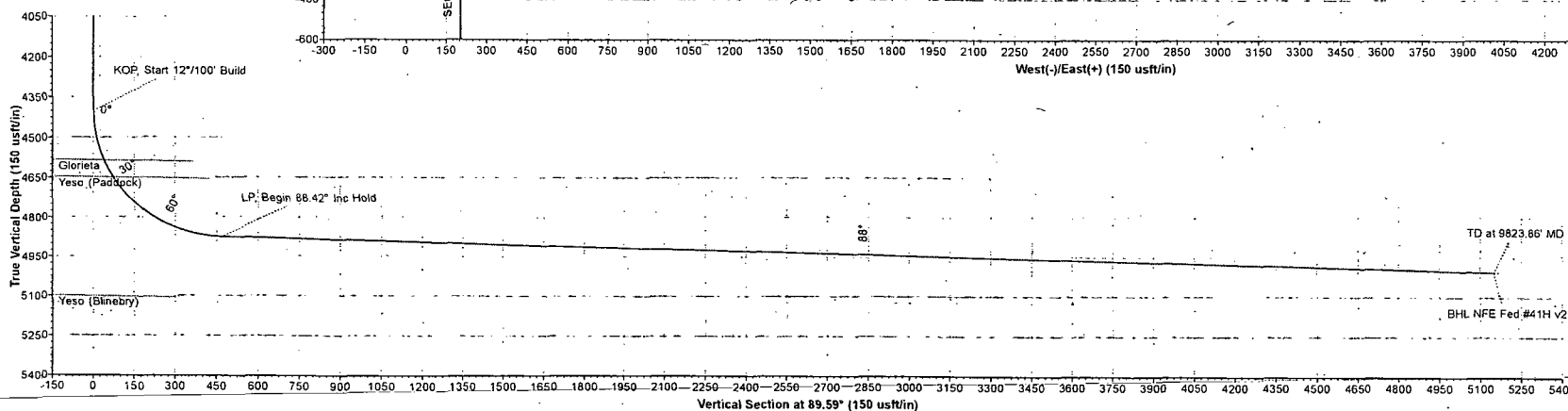
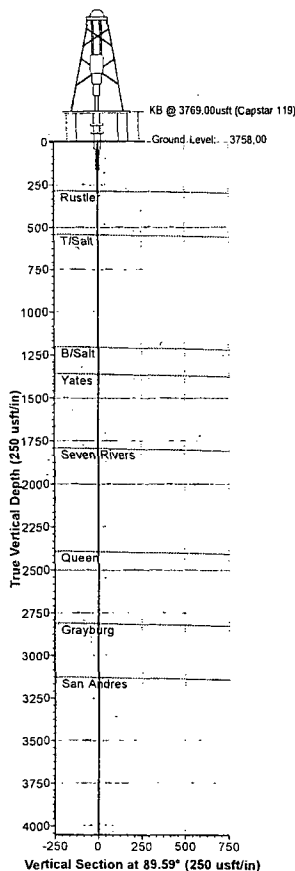
Accepted for record
2/3/15
NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 3 2015

Original COAs still stand RECEIVED

14. I hereby certify that the foregoing is true and correct. Electronic Submission #290050 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER MASON on 01/30/2015 (15JAM0208SE)	
Name (Printed/Typed) SORINA FLORES	Title SUBMITTING CONTACT
Signature (Electronic Submission)	Date 01/30/2015
THIS SPACE FOR FEDERAL OR STATE OFFICE USE JAN 30 2015	
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.	

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****



WELL DETAILS									
+N/S	-E/W	Northing	Ground Level	3758.00	Latitude	Longitude			
0.00	0.00	677478.30	Easting	632859.50	32° 51' 42.20235 N	103° 54' 2.35078 W			

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSecl Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	4399.72	0.00	0.00	4399.72	0.00	0.00	0.00	0.00	0.00
3	5136.58	88.42	89.59	4877.00	3.29	464.31	12.00	89.59	464.32
4	9823.86	88.42	89.59	5006.00	36.50	5149.70	0.00	0.00	5149.83

DESIGN TARGET DETAILS									
Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Shape	
BHL NFE Fed #41H v2	5006.00	36.50	5149.70	677514.80	638009.30	32° 51' 42.35066 N	103° 53' 1.97533 W	Point	

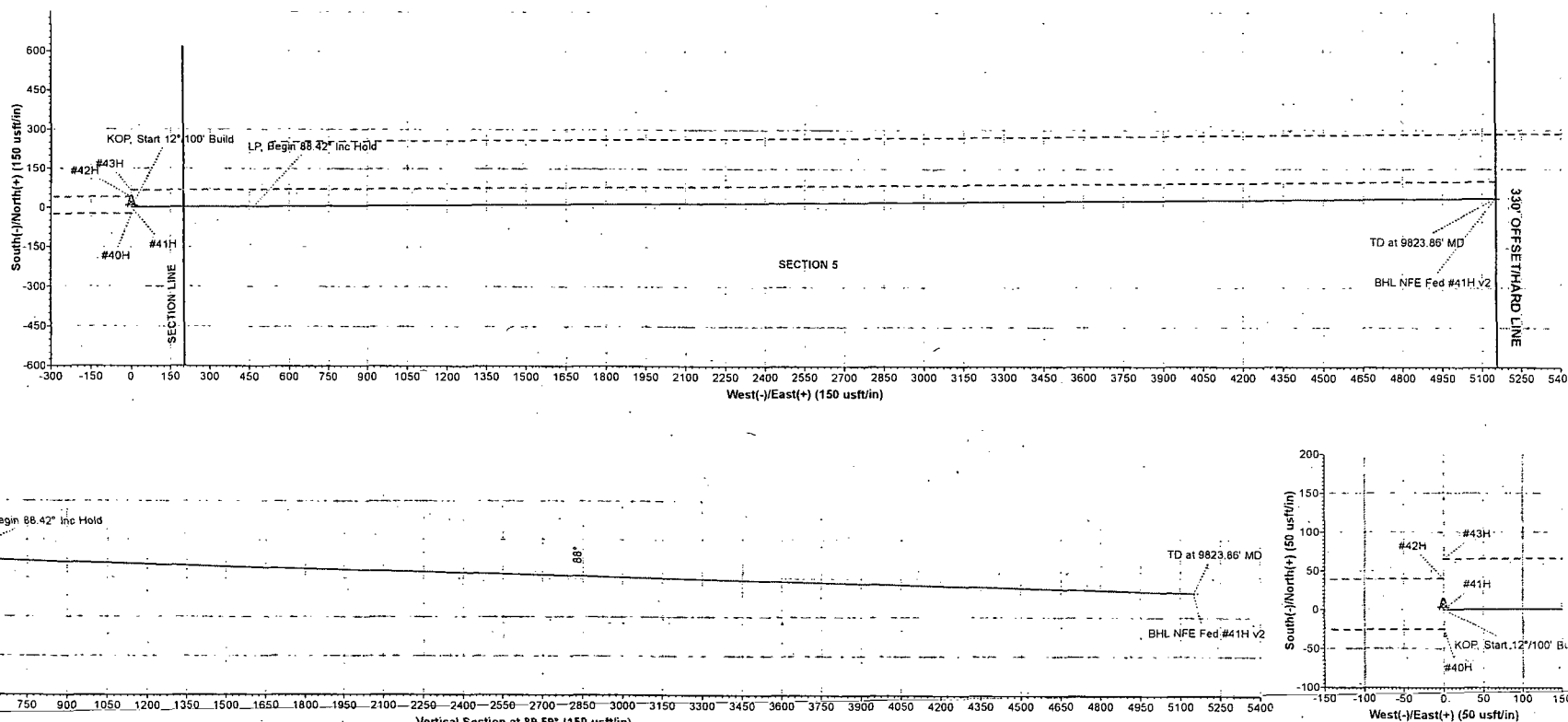
plan hits target center

FORMATION TOP DETAILS				
TVDPath	MDPath	Formation	DipAngle	DipDir
289.00	289.00	Rustler	0.98	89.59
546.00	546.00	T/Salt	0.98	89.59
1207.00	1207.00	B/Salt	0.98	89.59
1364.00	1364.00	Yates	0.98	89.59
1797.00	1797.00	Seven Rivers	0.98	89.59
2396.00	2396.00	Queen	0.98	89.59
2815.00	2815.00	Grayburg	0.98	89.59
3132.00	3132.00	San Andres	0.98	89.59
4586.65	4591.79	Glorieta	0.98	89.59
4651.22	4664.60	Yeso (Paddock)	0.98	89.59

LEGEND	
---	#40H, WB1 / Job #1512792, Plan #3 01-16-15 V0
---	#42H, WB1 / Job #1512794, Plan #4 01-19-15 V0
---	#43H, WB1 / Job #1512791, Plan #4 01-28-15 V0
---	#43H, WB1 / Job #1512791, Surveys (Capstar 114) V0
---	#44H, WB1, Plan #1 4-11-14 V0
---	#34H, WB1 / Job #1512835, Plan #2 01-22-15 V0
---	#35H, WB1 / Job #1512836, Plan #2 01-22-15 V0
---	#40H, WB1, Plan #2 01-27-15 V0
---	#42H, WB1, Plan #1 01-27-15 V0
---	#43H, WB1, Plan #2 01-28-15 V0
---	Plan #2 01-27-15

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 #41H, Grid North
Latitude: 32° 51' 42.20235 N
Longitude: 103° 54' 2.35078 W
Grid East: 632859.50
Grid North: 677478.30
Scale Factor: 1.000
Geomagnetic Model: BGGM2014
Sample Date: 28-Jan-15
Magnetic Declination: 7.52°
Dip Angle from Horizontal: 60.62°
Magnetic Field Strength: 48547

To convert a Magnetic Direction to a Grid Direction, Add 7.29°
To convert a Magnetic Direction to a True Direction, Add 7.52° East
To convert a True Direction to a Grid Direction, Subtract 0.23°





Apache Corporation

Eddy County, NM (NAD27 NME)

NFE Federal

#41H

WB1

Plan: Plan #2 01-27-15

Standard Planning Report

28 January, 2015



Database:	Compass/5000 GCR	Local Co-ordinate Reference:	Well #41H
Company:	Apache Corporation	TVD Reference:	KB @ 3769.00usft (Capstar 119)
Project:	Eddy County, NM (NAD27, NME)	MD Reference:	KB @ 3769.00usft (Capstar 119)
Site:	NFE Federal	North Reference:	Grid
Well:	#41H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #2 01-27-15		

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	Latitude:	32° 51' 0.49036 N
From:	Map	Easting:	633,303.50 usft	Longitude:	103° 53' 57.34966 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.24 °

Well:	#41H					
Well Position	+N/-S	4,213.60 usft	Northing:	677,478.30 usft	Latitude:	32° 51' 42.20235 N
	+E/-W	-443.90 usft	Easting:	632,859.60 usft	Longitude:	103° 54' 2.35078 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,758.00 usft

Wellbore	WB1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	1/28/2015	7.52	60.62	48,547

Design:	Plan #2 01-27-15			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	89.59

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(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	
4,399.72	0.00	0.00	4,399.72	0.00	0.00	0.00	0.00	0.00	0.00	
5,136.58	88.42	89.59	4,877.00	3.29	464.31	12.00	12.00	12.16	89.59	
9,823.86	88.42	89.59	5,006.00	36.50	5,149.70	0.00	0.00	0.00	0.00	BHL NFE Fed #41H v

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #41H
Company:	Apache Corporation	TVD Reference:	KB @ 3769.00usft (Capstar 119)
Project:	Eddy County NM (NAD27 NME)	MD Reference:	KB @ 3769.00usft (Capstar 119)
Site:	NFE Federal	North Reference:	Grid
Well:	#41H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #2.01-27-15		

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
289.00	0.00	0.00	289.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
546.00	0.00	0.00	546.00	0.00	0.00	0.00	0.00	0.00	0.00
T/Salt									
1,207.00	0.00	0.00	1,207.00	0.00	0.00	0.00	0.00	0.00	0.00
B/Salt									
1,364.00	0.00	0.00	1,364.00	0.00	0.00	0.00	0.00	0.00	0.00
Yates									
1,797.00	0.00	0.00	1,797.00	0.00	0.00	0.00	0.00	0.00	0.00
Seven Rivers									
2,396.00	0.00	0.00	2,396.00	0.00	0.00	0.00	0.00	0.00	0.00
Queen									
2,815.00	0.00	0.00	2,815.00	0.00	0.00	0.00	0.00	0.00	0.00
Grayburg									
3,132.00	0.00	0.00	3,132.00	0.00	0.00	0.00	0.00	0.00	0.00
San Andres									
4,399.72	0.00	0.00	4,399.72	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Start 12°/100' Build									
4,400.00	0.03	89.59	4,400.00	0.00	0.00	0.00	12.00	12.00	0.00
4,500.00	12.03	89.59	4,499.26	0.07	10.49	10.49	12.00	12.00	0.00
4,591.79	23.05	89.59	4,586.65	0.27	38.11	38.11	12.00	12.00	0.00
Glorieta									
4,600.00	24.03	89.59	4,594.18	0.29	41.39	41.39	12.00	12.00	0.00
4,664.60	31.79	89.59	4,651.23	0.51	71.61	71.61	12.00	12.00	0.00
Yeso (Paddock)									
4,700.00	36.03	89.59	4,680.59	0.65	91.35	91.35	12.00	12.00	0.00
4,800.00	48.03	89.59	4,754.73	1.12	158.18	158.19	12.00	12.00	0.00
4,900.00	60.03	89.59	4,813.36	1.69	238.97	238.97	12.00	12.00	0.00
5,000.00	72.03	89.59	4,853.90	2.34	330.18	330.19	12.00	12.00	0.00
5,100.00	84.03	89.59	4,874.60	3.03	427.82	427.83	12.00	12.00	0.00
5,136.58	88.42	89.59	4,877.00	3.29	464.31	464.33	12.00	12.00	0.00
LP, Begin 88.42° Inc Hold									
5,200.00	88.42	89.59	4,878.75	3.74	527.71	527.72	0.00	0.00	0.00
5,300.00	88.42	89.59	4,881.50	4.45	627.67	627.68	0.00	0.00	0.00
5,400.00	88.42	89.59	4,884.25	5.16	727.63	727.65	0.00	0.00	0.00
5,500.00	88.42	89.59	4,887.01	5.87	827.59	827.61	0.00	0.00	0.00
5,600.00	88.42	89.59	4,889.76	6.57	927.55	927.57	0.00	0.00	0.00
5,700.00	88.42	89.59	4,892.51	7.28	1,027.51	1,027.53	0.00	0.00	0.00
5,800.00	88.42	89.59	4,895.26	7.99	1,127.47	1,127.50	0.00	0.00	0.00
5,900.00	88.42	89.59	4,898.01	8.70	1,227.43	1,227.46	0.00	0.00	0.00
6,000.00	88.42	89.59	4,900.77	9.41	1,327.39	1,327.42	0.00	0.00	0.00
6,100.00	88.42	89.59	4,903.52	10.12	1,427.35	1,427.38	0.00	0.00	0.00
6,200.00	88.42	89.59	4,906.27	10.83	1,527.31	1,527.34	0.00	0.00	0.00
6,300.00	88.42	89.59	4,909.02	11.53	1,627.26	1,627.31	0.00	0.00	0.00
6,400.00	88.42	89.59	4,911.77	12.24	1,727.22	1,727.27	0.00	0.00	0.00
6,500.00	88.42	89.59	4,914.53	12.95	1,827.18	1,827.23	0.00	0.00	0.00
6,600.00	88.42	89.59	4,917.28	13.66	1,927.14	1,927.19	0.00	0.00	0.00
6,700.00	88.42	89.59	4,920.03	14.37	2,027.10	2,027.15	0.00	0.00	0.00
6,800.00	88.42	89.59	4,922.78	15.08	2,127.06	2,127.12	0.00	0.00	0.00
6,900.00	88.42	89.59	4,925.53	15.78	2,227.02	2,227.08	0.00	0.00	0.00
7,000.00	88.42	89.59	4,928.29	16.49	2,326.98	2,327.04	0.00	0.00	0.00

Database:	Compass 5000.GCR	Local Co-ordinate Reference	Well #41H
Company:	Apache Corporation	TVD Reference:	KB @ 3769.00usft (Capstar 119)
Project:	Eddy County NM (NAD27 NME)	MD Reference:	KB @ 3769.00usft (Capstar 119)
Site:	NFE Federal	North Reference:	Grid
Well:	#41H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #2-01-27-15		

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)
7,100.00	88.42	89.59	4,931.04	17.20	2,426.94	2,427.00	0.00	0.00	0.00
7,200.00	88.42	89.59	4,933.79	17.91	2,526.90	2,526.97	0.00	0.00	0.00
7,300.00	88.42	89.59	4,936.54	18.62	2,626.86	2,626.93	0.00	0.00	0.00
7,400.00	88.42	89.59	4,939.29	19.33	2,726.82	2,726.89	0.00	0.00	0.00
7,500.00	88.42	89.59	4,942.05	20.04	2,826.78	2,826.85	0.00	0.00	0.00
7,600.00	88.42	89.59	4,944.80	20.74	2,926.74	2,926.81	0.00	0.00	0.00
7,700.00	88.42	89.59	4,947.55	21.45	3,026.70	3,026.78	0.00	0.00	0.00
7,800.00	88.42	89.59	4,950.30	22.16	3,126.66	3,126.74	0.00	0.00	0.00
7,900.00	88.42	89.59	4,953.05	22.87	3,226.62	3,226.70	0.00	0.00	0.00
8,000.00	88.42	89.59	4,955.81	23.58	3,326.58	3,326.66	0.00	0.00	0.00
8,100.00	88.42	89.59	4,958.56	24.29	3,426.54	3,426.62	0.00	0.00	0.00
8,200.00	88.42	89.59	4,961.31	25.00	3,526.50	3,526.59	0.00	0.00	0.00
8,300.00	88.42	89.59	4,964.06	25.70	3,626.46	3,626.55	0.00	0.00	0.00
8,400.00	88.42	89.59	4,966.81	26.41	3,726.42	3,726.51	0.00	0.00	0.00
8,500.00	88.42	89.59	4,969.57	27.12	3,826.38	3,826.47	0.00	0.00	0.00
8,600.00	88.42	89.59	4,972.32	27.83	3,926.34	3,926.43	0.00	0.00	0.00
8,700.00	88.42	89.59	4,975.07	28.54	4,026.30	4,026.40	0.00	0.00	0.00
8,800.00	88.42	89.59	4,977.82	29.25	4,126.26	4,126.36	0.00	0.00	0.00
8,900.00	88.42	89.59	4,980.58	29.95	4,226.22	4,226.32	0.00	0.00	0.00
9,000.00	88.42	89.59	4,983.33	30.66	4,326.17	4,326.28	0.00	0.00	0.00
9,100.00	88.42	89.59	4,986.08	31.37	4,426.13	4,426.25	0.00	0.00	0.00
9,200.00	88.42	89.59	4,988.83	32.08	4,526.09	4,526.21	0.00	0.00	0.00
9,300.00	88.42	89.59	4,991.58	32.79	4,626.05	4,626.17	0.00	0.00	0.00
9,400.00	88.42	89.59	4,994.34	33.50	4,726.01	4,726.13	0.00	0.00	0.00
9,500.00	88.42	89.59	4,997.09	34.21	4,825.97	4,826.09	0.00	0.00	0.00
9,600.00	88.42	89.59	4,999.84	34.91	4,925.93	4,926.06	0.00	0.00	0.00
9,700.00	88.42	89.59	5,002.59	35.62	5,025.89	5,026.02	0.00	0.00	0.00
9,800.00	88.42	89.59	5,005.34	36.33	5,125.85	5,125.98	0.00	0.00	0.00
9,823.86	88.42	89.59	5,006.00	36.50	5,149.70	5,149.83	0.00	0.00	0.00
TD at 9823.86' MD									

Design Targets									
Target Name	Dip Angle	Dip Dir	TVD	N/S	E/W	Northing	Easting	Latitude	Longitude
hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Shape									
BHL NFE Fed #41H v2	0.00	0.00	5,006.00	36.50	5,149.70	677,514.80	638,009.30	32° 51' 42.35067 N	103° 53' 1.97533 W
- plan hits target center									
- Point									

Database:	Compass 5000 GCR	Local Co-ordinate/Reference:	Well #41H
Company:	Apache Corporation	TVD Reference:	KB @ 3769'00usft (Capstar 119)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3769'00usft (Capstar 119)
Site:	NFE Federal	North Reference:	Grid
Well:	#41H	Survey Calculation/Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #2 01-27-15		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
289.00	289.00	Rustler		0.98	89.59
546.00	546.00	T/Salt		0.98	89.59
1,207.00	1,207.00	B/Salt		0.98	89.59
1,364.00	1,364.00	Yates		0.98	89.59
1,797.00	1,797.00	Seven Rivers		0.98	89.59
2,396.00	2,396.00	Queen		0.98	89.59
2,815.00	2,815.00	Grayburg		0.98	89.59
3,132.00	3,132.00	San Andres		0.98	89.59
4,591.79	4,586.65	Glorieta		0.98	89.59
4,664.60	4,651.23	Yeso (Paddock)		0.98	89.59

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
4,399.72	4,399.72	0.00	0.00	KOP, Start 12"/100' Build	
5,136.58	4,877.00	3.29	464.31	LP, Begin 88.42° Inc Hold	
9,823.86	5,006.00	36.50	5,149.70	TD at 9823.86' MD	