

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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 54H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 6 T17S R31E Lot 1 420FNL 1025FEL 32.869508 N Lat, 103.903353 W Lon		9. API Well No. 30-015-42909-00-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 #54H
FROM: TVD: 5300' MD: 8729'
TO: TVD: 5189' MD: 8738' Landing point: 4308'

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

Accepted for record
ORD NMOC 6/3/15

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 1 2015

RECEIVED

Original COA Still Stand

14. I hereby certify that the foregoing is true and correct. Electronic Submission #290403 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER MASON on 02/06/2015 (15JAM0217SE)	
Name (Printed/Typed) SORINA FLORES	Title SUBMITTING CONTACT
Signature (Electronic Submission)	Date 02/03/2015
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.	Date
Office	

FEB 6 2015

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

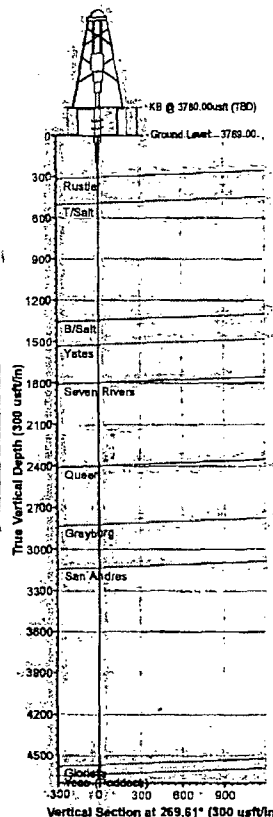
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

Project: Eddy County, NM (NAD27 NME)
Site: NFE Federal
Well: #54H
Wellbore: WB1
Design: Plan #2 01-30-15
Rig: TBD



True North: 0.23°
Magnetic North: 7.29°
Magnetic Field
Strength: 48550.7nT
Dip Angle: 60.83°
Date: 1/30/2015
Model: BGGM2014



WELL DETAILS						
	+N-S	+E-W	North	Ground Level	Latitude	Longitude
	0.00	0.00	680307.20	3769.00 Easting: 632016.80	32° 52' 10.22852 N	103° 54' 12.07186 W

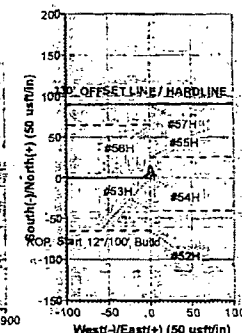
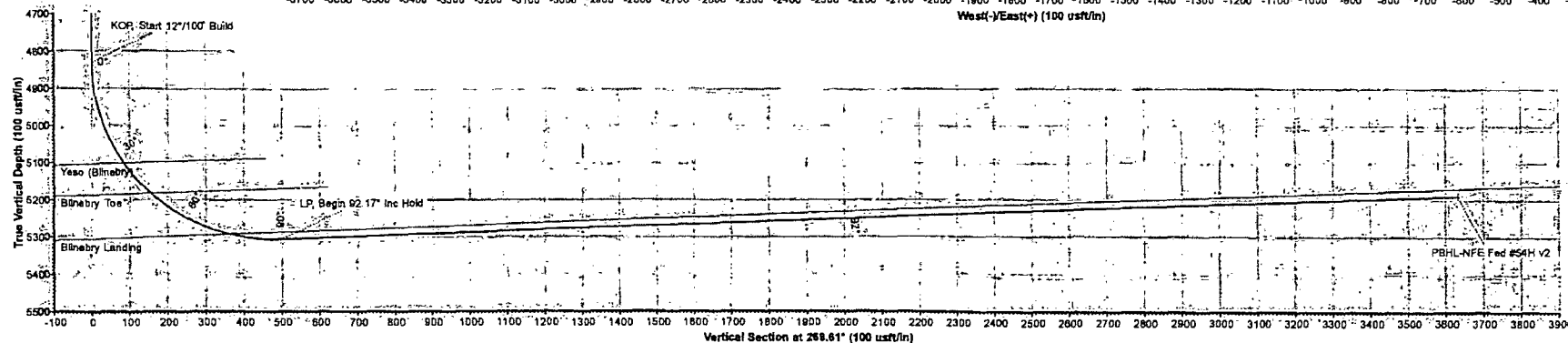
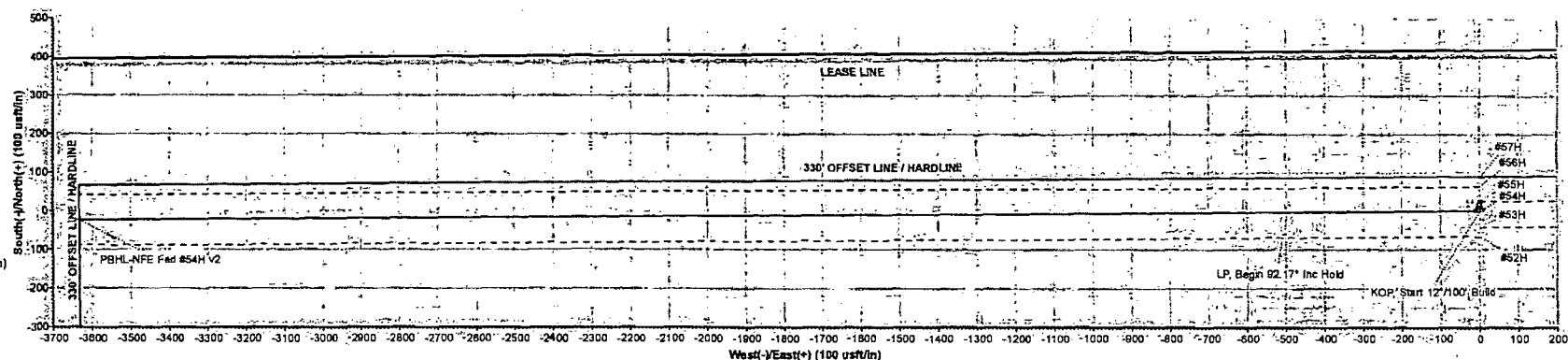
SECTION DETAILS											
Sec	MD	Inc	AD	TVD	+N-S	+E-W	Dip	TFace	VSec	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	4330.80	0.00	0.00	4330.80	0.00	0.00	0.00	0.00	0.00		KOP Start 12"/100' Build
3	5369.98	92.17	269.61	5306.00	-3.37	-495.55	12.00	269.61	495.55		LP Begin 92.17" Inc Hold
4	6738.78	92.17	269.61	5189.00	-24.70	-3633.00	0.00	0.00	3633.00	PBHL-NFE Fed #54H V2	TD at 6738.78" MD

DESIGN TARGET DETAILS										
Name	TVD	+N-S	+E-W	North	Easting	Latitude	Longitude	Shape		
PBHL-NFE Fed #54H V2	5189.00	-24.70	-3633.00	680282.50	628345.90	32° 52' 70.12552 N	103° 54' 54.66912 W	Point		

FORMATION TOP DETAILS					
TVDPath	MDPath	Formation	DipAngle	DipDir	
305.00	305.00	Rustic	-2.17	289.61	
496.00	496.00	T/Salt	-2.17	289.61	
1346.00	1346.00	B/Salt	-2.17	289.61	
1524.00	1524.00	Yates	-2.17	289.61	
1800.00	1800.00	Seven Rivers	-2.17	289.61	
2402.00	2402.00	Queen	-2.17	289.61	
2624.00	2624.00	Grayburg	-2.17	289.61	
3135.00	3135.00	San Andres	-2.17	289.61	
4570.00	4570.00	Glorieta	-2.17	289.61	
4640.00	4640.00	Yeso (Placidus)	-2.17	289.61	
5101.81	5118.97	Yeso (Blinberry)	-2.17	289.61	
5183.12	5227.04	Blinberry Toe	-2.17	289.61	
5284.27	5484.85	Blinberry Landing	-2.17	289.61	

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 #54H, Grid North
Latitude: 32° 52' 10.22852 N
Longitude: 103° 54' 12.07186 W
Grid East: 632016.80
Grid North: 680307.20
Scale Factor: 1.000
Geomagnetic Model: BGGM2014
Sample Date: 30-Jan-15
Magnetic Declination: 7.52°
Dip Angle from Horizontal: 60.63°
Magnetic Field Strength: 48551
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°

LEGEND	
---	#56H, WB1, Plan #1 05-19-14 V0
---	#53H, WB1, Plan #3 01-30-15 V0
---	#55H, WB1, Plan #2 01-30-15 V0
---	#52H, WB1, Plan #2 01-30-15 V0
---	#57H, WB1, Plan #1 05-19-14 V0
---	Plan #2 01-30-15





NM OIL CONSERVATION

ARTESIA DISTRICT

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Apache Corporation

Eddy County, NM (NAD27 NME)

NFE Federal

#54H

WB1

Plan: Plan #2 01-30-15

Standard Planning Report

30 January, 2015



PHOENIX
TECHNOLOGY SERVICES



Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #54H
Company:	Apache Corporation	TVD Reference:	KB @ 3780.00usft (TBD)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3780.00usft (TBD)
Site:	NFE Federal	North Reference:	Grid
Well:	#54H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #2 01:30:15		

Project: Eddy County, NM (NAD27 NME)	
Map System:	US State Plane 1927 (Exact solution)
Geo Datum:	NAD 1927 (NADCON CONUS)
Map Zone:	New Mexico East 3001
System Datum:	Mean Sea Level

Site:		NFE Federal			
Site Position:		Northing:	673,284.70 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:	#54H					
Well Position	+N/S	7,042.50 usft	Northing:	680,307.20 usft	Latitude:	32° 52' 10.22852 N
	+E/W	-1,284.60 usft	Easting:	632,018.90 usft	Longitude:	103° 54' 12.07186 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	3,769.00 usft

Wellbore:	WB1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
BGGM2014		1/30/2015	7.52	60.63	48,551

Design:	Plan #2 01:30:15
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Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/S (usft)	+E/W (usft)	Direction (°)
	0.00	0.00	0.00	269.61

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,830.88	0.00	0.00	4,830.88	0.00	0.00	0.00	0.00	0.00	0.00	
5,598.98	92.17	269.61	5,308.00	-3.37	-495.55	12.00	12.00	-11.77	269.61	
8,738.76	92.17	269.61	5,189.00	-24.70	-3,833.00	0.00	0.00	0.00	0.00	PBHL-NFE Fed #54H

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #54H
Company:	Apache Corporation	TVD Reference:	KB @ 3780.00usft (TBD)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3780.00usft (TBD)
Site:	NFE/Federal	North Reference:	Grid
Well:	#54H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #201-30-15		

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	
305.00	0.00	0.00	305.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rustler										
496.00	0.00	0.00	496.00	0.00	0.00	0.00	0.00	0.00	0.00	
T/Salt										
1,346.00	0.00	0.00	1,346.00	0.00	0.00	0.00	0.00	0.00	0.00	
B/Salt										
1,524.00	0.00	0.00	1,524.00	0.00	0.00	0.00	0.00	0.00	0.00	
Yates										
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
Seven Rivers										
2,402.00	0.00	0.00	2,402.00	0.00	0.00	0.00	0.00	0.00	0.00	
Queen										
2,824.00	0.00	0.00	2,824.00	0.00	0.00	0.00	0.00	0.00	0.00	
Grayburg										
3,135.00	0.00	0.00	3,135.00	0.00	0.00	0.00	0.00	0.00	0.00	
San Andres										
4,570.00	0.00	0.00	4,570.00	0.00	0.00	0.00	0.00	0.00	0.00	
Glorieta										
4,640.00	0.00	0.00	4,640.00	0.00	0.00	0.00	0.00	0.00	0.00	
Yaso (Paddock)										
4,830.88	0.00	0.00	4,830.88	0.00	0.00	0.00	0.00	0.00	0.00	
KOP Start 12°/100' Build										
4,900.00	8.29	269.61	4,899.76	-0.03	-4.99	4.99	12.00	12.00	0.00	
5,000.00	20.29	269.61	4,996.49	-0.20	-29.64	29.64	12.00	12.00	0.00	
5,100.00	32.29	269.61	5,085.98	-0.50	-73.86	73.86	12.00	12.00	0.00	
5,118.97	34.57	269.61	5,101.81	-0.57	-84.31	84.31	12.00	12.00	0.00	
Yaso (Bilinebry)										
5,200.00	44.29	269.61	5,164.32	-0.92	-135.71	135.71	12.00	12.00	0.00	
5,227.04	47.54	269.61	5,183.12	-1.05	-155.13	155.13	12.00	12.00	0.00	
Bilinebry Toe										
5,300.00	56.29	269.61	5,228.08	-1.44	-212.50	212.51	12.00	12.00	0.00	
5,400.00	68.29	269.61	5,274.49	-2.05	-300.87	300.88	12.00	12.00	0.00	
5,484.65	76.05	269.61	5,294.27	-2.46	-362.38	362.38	12.00	12.00	0.00	
Bilinebry Landing										
5,500.00	80.29	269.61	5,301.51	-2.70	-396.96	396.97	12.00	12.00	0.00	
5,598.98	92.17	269.61	5,308.00	-3.37	-495.55	495.58	12.00	12.00	0.00	
LP Begin 92.17° Inc Hold										
5,600.00	92.17	269.61	5,307.96	-3.38	-496.57	496.58	0.01	0.01	0.00	
5,700.00	92.17	269.61	5,304.17	-4.06	-596.49	596.51	0.00	0.00	0.00	
5,800.00	92.17	269.61	5,300.38	-4.73	-696.42	696.44	0.00	0.00	0.00	
5,900.00	92.17	269.61	5,296.59	-5.41	-796.35	796.36	0.00	0.00	0.00	
6,000.00	92.17	269.61	5,292.80	-6.09	-896.27	896.29	0.00	0.00	0.00	
6,100.00	92.17	269.61	5,289.01	-6.77	-996.20	996.22	0.00	0.00	0.00	
6,200.00	92.17	269.61	5,285.22	-7.45	-1,096.12	1,096.15	0.00	0.00	0.00	
6,300.00	92.17	269.61	5,281.43	-8.13	-1,196.05	1,196.08	0.00	0.00	0.00	
6,400.00	92.17	269.61	5,277.64	-8.81	-1,295.98	1,296.00	0.00	0.00	0.00	
6,500.00	92.17	269.61	5,273.85	-9.49	-1,395.90	1,395.93	0.00	0.00	0.00	
6,600.00	92.17	269.61	5,270.06	-10.17	-1,495.83	1,495.86	0.00	0.00	0.00	
6,700.00	92.17	269.61	5,266.27	-10.85	-1,595.75	1,595.79	0.00	0.00	0.00	
6,800.00	92.17	269.61	5,262.48	-11.53	-1,695.68	1,695.72	0.00	0.00	0.00	
6,900.00	92.17	269.61	5,258.69	-12.21	-1,795.60	1,795.65	0.00	0.00	0.00	

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #54H
Company:	Apache Corporation	TVD Reference:	KB @ 3780.00usft (TBD)
Project:	Eddy County, NM (NAD27 NME)	MD Reference:	KB @ 3780.00usft (TBD)
Site:	NFE Federal	North Reference:	Grid
Well:	#54H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #2 01-30-15		

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)	
7,000.00	92.17	269.61	5,254.90	-12.89	-1,895.53	1,895.57	0.00	0.00	0.00	
7,100.00	92.17	269.61	5,251.11	-13.57	-1,995.48	1,995.50	0.00	0.00	0.00	
7,200.00	92.17	269.61	5,247.32	-14.25	-2,095.38	2,095.43	0.00	0.00	0.00	
7,300.00	92.17	269.61	5,243.53	-14.93	-2,195.31	2,195.36	0.00	0.00	0.00	
7,400.00	92.17	269.61	5,239.74	-15.60	-2,295.23	2,295.29	0.00	0.00	0.00	
7,500.00	92.17	269.61	5,235.95	-16.28	-2,395.16	2,395.21	0.00	0.00	0.00	
7,600.00	92.17	269.61	5,232.16	-16.96	-2,495.09	2,495.14	0.00	0.00	0.00	
7,700.00	92.17	269.61	5,228.37	-17.64	-2,595.01	2,595.07	0.00	0.00	0.00	
7,800.00	92.17	269.61	5,224.58	-18.32	-2,694.94	2,695.00	0.00	0.00	0.00	
7,900.00	92.17	269.61	5,220.79	-19.00	-2,794.86	2,794.93	0.00	0.00	0.00	
8,000.00	92.17	269.61	5,217.00	-19.68	-2,894.79	2,894.86	0.00	0.00	0.00	
8,100.00	92.17	269.61	5,213.21	-20.36	-2,994.71	2,994.78	0.00	0.00	0.00	
8,200.00	92.17	269.61	5,209.42	-21.04	-3,094.64	3,094.71	0.00	0.00	0.00	
8,300.00	92.17	269.61	5,205.63	-21.72	-3,194.57	3,194.64	0.00	0.00	0.00	
8,400.00	92.17	269.61	5,201.84	-22.40	-3,294.49	3,294.57	0.00	0.00	0.00	
8,500.00	92.17	269.61	5,198.05	-23.08	-3,394.42	3,394.50	0.00	0.00	0.00	
8,600.00	92.17	269.61	5,194.26	-23.76	-3,494.34	3,494.42	0.00	0.00	0.00	
8,700.00	92.17	269.61	5,190.47	-24.44	-3,594.27	3,594.35	0.00	0.00	0.00	
8,738.76	92.17	269.61	5,189.00	-24.70	-3,633.00	3,633.08	0.00	0.00	0.00	
TD at 8738.76' MD										

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-NFE Fed #54H v2		0.00	0.00	5,189.00	-24.70	-3,633.00	680,282.50	628,385.90	32° 52' 10.12852 N	103° 54' 54.66912 W
- plan hits target center										
- Point										

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
305.00	305.00	Rustler		-2.17	269.61	
496.00	496.00	T/Salt		-2.17	269.61	
1,346.00	1,346.00	B/Salt		-2.17	269.61	
1,524.00	1,524.00	Yates		-2.17	269.61	
1,800.00	1,800.00	Seven Rivers		-2.17	269.61	
2,402.00	2,402.00	Queen		-2.17	269.61	
2,824.00	2,824.00	Grayburg		-2.17	269.61	
3,135.00	3,135.00	San Andres		-2.17	269.61	
4,570.00	4,570.00	Glorieta		-2.17	269.61	
4,640.00	4,640.00	Yeso (Paddock)		-2.17	269.61	
5,118.97	5,101.81	Yeso (Blinbry)		-2.17	269.61	
5,227.04	5,183.12	Blinbry Toe		-2.17	269.61	
5,464.65	5,294.27	Blinbry Landing		-2.17	269.61	

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #54H
Company:	Apache Corporation	TVD Reference:	KB @ 3780.00usft (TBD)
Project:	Eddy County, NM (NAD27/NME)	MD Reference:	KB @ 3780.00usft (TBD)
Site:	NFE/Federal	North Reference:	Grid
Well:	#54H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #2.01-30-15		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,830.88	4,830.88	0.00	0.00	KOP, Start 12"/100' Build
5,598.98	5,308.00	-3.37	-495.55	LP, Begin 92.17" Inc Hold
8,738.76	5,189.00	-24.70	-3,633.00	TD at 8738.76' MD