

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
3a. Address 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705		7. If Unit or CA/Agreement, Name and/or No.
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 PD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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
CED NMOCD 2/3/15
NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 12 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
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.	Office

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



PHOENIX
 TECHNOLOGY SERVICES



Azimuths to Grid North
 True North: -0.23°
 Magnetic North: 7.29°

Magnetic Field
 Strength: 48550.7nT
 Dip Angle: 60.63°
 Date: 1/30/2015
 Model: BGGM2014

WELL DETAILS						
		Ground Level	3769.00			
+N-S	+E-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	680307.20	632018.90	32° 52' 10.22852 N	103° 54' 12.07186 W	

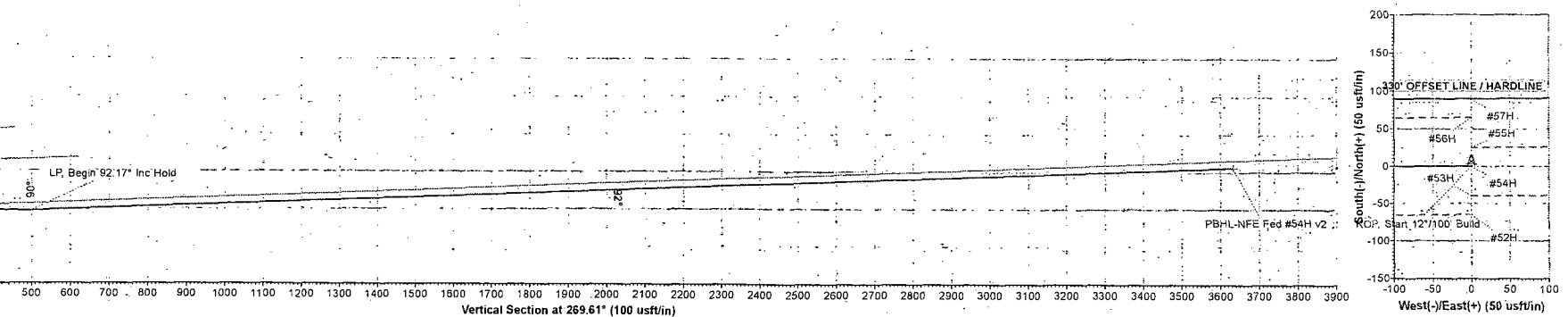
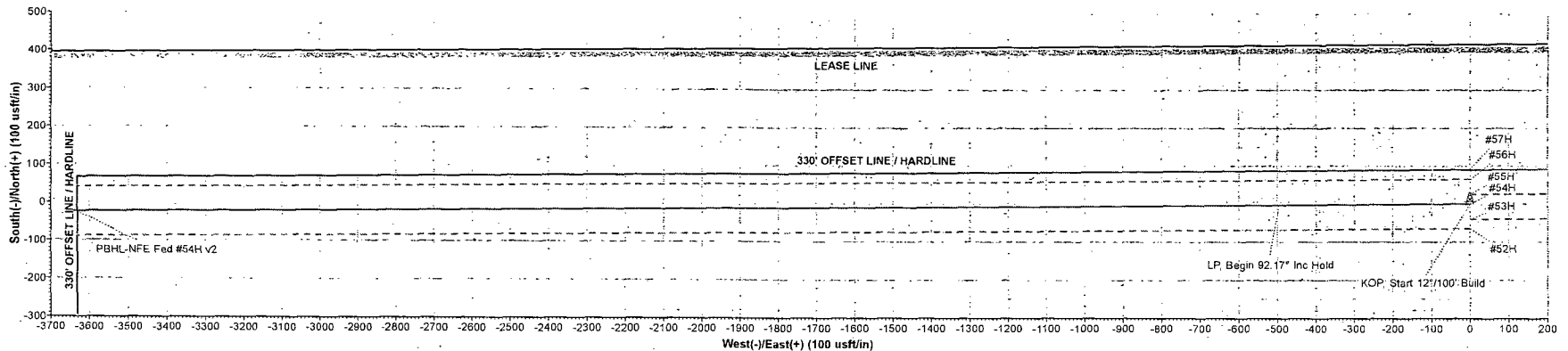
SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dieg	TFace	VSec	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP, Start 12"/100' Build
2	4830.88	0.00	0.00	4830.88	0.00	0.00	0.00	0.00	0.00	0.00	LP, Begin 92.17" Inc Hold
3	5588.98	92.17	269.61	5308.00	-3.37	-45.55	12.00	269.61	495.56		
4	8738.76	92.17	269.61	5189.00	-24.70	-3633.00	0.00	0.00	3633.08	PBHL-NFE Fed #54H v2	TD at 8738.76" MD

DESIGN TARGET DETAILS									
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL-NFE Fed #54H v2	5189.00	-24.70	-3633.00	680282.50	628385.90	32° 52' 10.12852 N	103° 54' 54.66912 W	Point	
plan hits target center									

FORMATION TOP DETAILS					
TVDPath	MDPath	Formation	DipAngle	DipDir	
305.00	305.00	Rustler	-2.17	269.61	
496.00	496.00	T/Salt	-2.17	269.61	
1346.00	1346.00	B/Salt	-2.17	269.61	
1524.00	1524.00	Yates	-2.17	269.61	
1800.00	1800.00	Seven Rivers	-2.17	269.61	
2402.00	2402.00	Queen	-2.17	269.61	
2824.00	2824.00	Grayburg	-2.17	269.61	
3135.00	3135.00	San Andres	-2.17	269.61	
4570.00	4570.00	Glorieta	-2.17	269.61	
4640.00	4640.00	Yeso (Paddock)	-2.17	269.61	
5101.81	5118.97	Yeso (Binebry)	-2.17	269.61	
5183.12	5227.04	Binebry Toe	-2.17	269.61	
5294.27	5464.65	Binebry Landing	-2.17	269.61	

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: 632018.90
 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





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

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		

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:	Map	Northings:	673,264.70 usft
From:		Easting:	633,303.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 51' 0.49036 N
		Longitude:	103° 53' 57.34966 W
		Grid Convergence:	0.24 °

Well:	#54H		
Well Position	+N/-S	7,042.50 usft	Northings:
	+E/-W	-1,284.60 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			3,769.00 usft
			Latitude:
			32° 52' 10.22852 N
			Longitude:
			103° 54' 12.07186 W

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

Design:	Plan #201-30-15		
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
			(°)
			269.61

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	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	
4,830.88	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	-3,633.00	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#21013015		

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
Yeso (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
Yeso (Blinbry)									
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
Blinbry 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
5,464.65	76.05	269.61	5,294.27	-2.46	-362.38	362.38	12.00	12.00	0.00
Blinbry 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	495.56	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	-1,995.46	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	- plan hits target center	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
	- 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 (Blinebry)		-2.17	269.61	
5,227.04	5,183.12	Blignebry Toe		-2.17	269.61	
5,464.65	5,294.27	Blignebry 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