

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.*5. Lease Serial No.
NMLC029426B

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
CROW FEDERAL 40H2. Name of Operator
APACHE CORPORATIONContact: SORINA FLORES
E-Mail: sorina.flores@apachecorp.com9. API Well No.
30-015-42762-00-X13a. Address
303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432-818-116710. Field and Pool, or Exploratory
FREN

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 3 T17S R31E NWSW 2208FSL 10FWL
32.862310 N Lat, 103.865578 W Lon11. 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 CROW FEDERAL #40H
FROM: TVD: 5170' MD: 9987'
TO: TVD: 5228' MD: 10052' LANDING TVD: 5296'

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

*Original COAS still stand*Accepted for record
JRS NMLC029426B 2/4/15NM OIL CONSERVATION
ARTESIA DISTRICT
JAN 26 2015

RECEIVED

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #288593 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 (15JAM0194SE)

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

Date

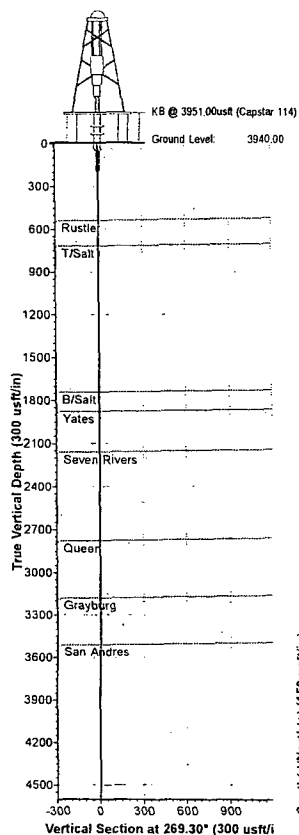
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

JAN 20 2015

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	Eastings	3940.00	Latitude	Longitude			
	0.00	0.00	677737.90		643629.00		32° 51' 44.31673 N	103° 51' 56.08010 W			

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	4818.59	0.00	0.00	4818.59	0.00	0.00	0.00	0.00	0.00		KOP, 12.00°/100' Build
3	5575.84	90.87	269.59	5296.00	-3.47	-484.70	12.00	269.59	484.71		LP, Hold 90.87° Inc
4	10052.63	90.87	269.59	5228.00	-35.50	-4960.86	0.00	0.00	4960.92	BHL-Crow Fed #40H v3	TD at 10052.63 MD

DESIGN TARGET DETAILS											
Name	TVD	+N/-S	+E/-W	Northing	Eastings	Latitude	Longitude	Shape			
BHL-Crow Fed #40H v3	5228.00	-35.50	-4960.86	677702.40	638668.14	32° 51' 44.17917 N	103° 52' 54.24187 W	Point			
- plan hits target center											

PROJECT DETAILS: Eddy County, NM (NAD27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001

System Datum: Mean Sea Level

SITE DETAILS: Crow Federal

Site Centre Northing: 671130.90
Eastings: 643806.80

Positional Uncertainty: 0.00
Convergence: 0.25
Local North: Grid

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
541.00	541.00	Rustler	-0.87	269.59
721.00	721.00	T/Salt	-0.87	269.59
1746.00	1746.00	B/Salt	-0.87	269.59
1881.00	1881.00	Yates	-0.87	269.59
2163.00	2163.00	Seven Rivers	-0.87	269.59
2781.00	2781.00	Queen	-0.87	269.59
3181.00	3181.00	Grayburg	-0.87	269.59
3513.00	3513.00	San Andres	-0.87	269.59
4940.76	4942.13	Glorieta	-0.87	269.59
5035.21	5043.43	(Yeso) Paddock	-0.87	269.59
5290.82	5497.82	Paddock Landing	-0.87	269.59

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 #40H, Grid North

Latitude: 32° 51' 44.31673 N
Longitude: 103° 51' 56.08010 W

Grid East: 643629.00
Grid North: 677737.90
Scale Factor: 1.000

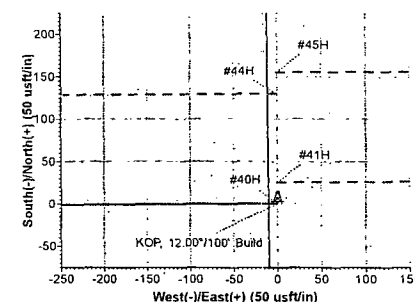
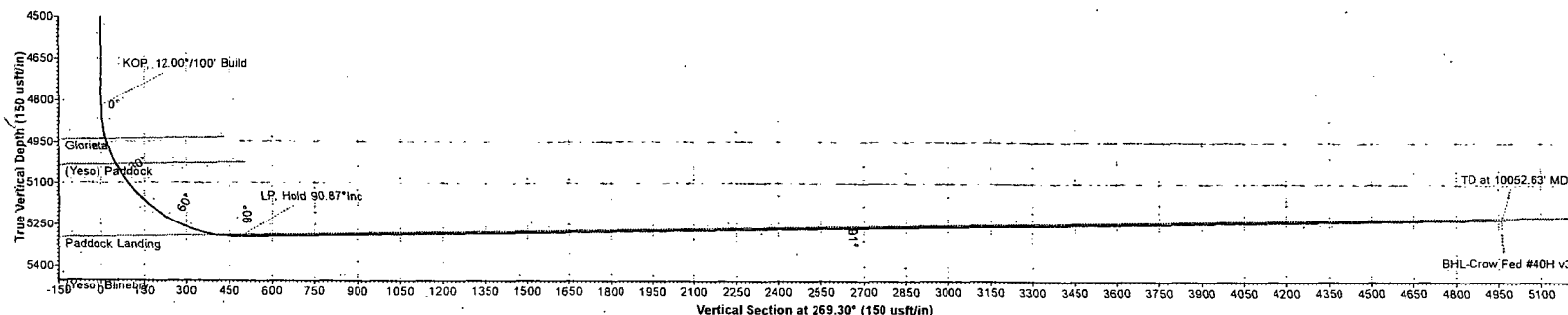
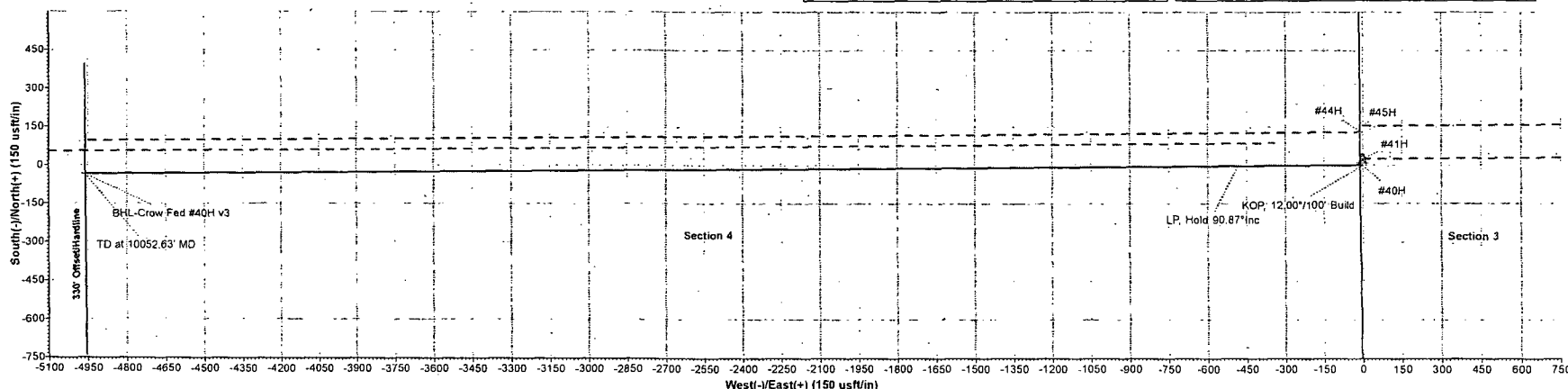
Geomagnetic Model: BGGM2014

Sample Date: 16-Jan-15
Magnetic Declination: 7.51°
Dip Angle from Horizontal: 60.63°
Magnetic Field Strength: 48555

To convert a Magnetic Direction to a Grid Direction, Add 7.25°
To convert a Magnetic Direction to a True Direction, Add 7.51° East
To convert a True Direction to a Grid Direction, Subtract 0.25°

LEGEND

- #44H, Wellbore #1, Plan #1 4-11-14 V0
- #45H, Wellbore #1, Plan #1 4-11-14 V0
- #43H, WB1, Plan #3 01-16-15 V0
- #42H, WB1, Plan #3 01-16-15 V0
- #41H, WB1, Plan #2 01-16-15 V0
- Plan #3 01-16-15





Apache Corporation

Eddy County, NM (NAD27 NME)

Crow Federal

#40H

WB1

Plan: Plan #3 01-16-15

Standard Planning Report

16 January, 2015



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #40H
Company:	Apache Corporation	TVD Reference:	KB @ 3951.00usft (Capstar 114)
Project:	Eddy County NM (NAD27 NME)	MD Reference:	KB @ 3951.00usft (Capstar 114)
Site:	Crow Federal	North Reference:	Grid
Well:	#40H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #3 01-16-15		

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:	Crow Federal		
Site Position:		Northing:	671,130.90 usft
From:	Map	Easting:	643,906.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 50' 38.92796 N
		Longitude:	103° 51' 53.16689 W
		Grid Convergence:	0.25 °

Well:	#40H		
Well Position	+N/-S	6,607.00 usft	Northing:
	+E/-W	-277.80 usft	Easting:
Position Uncertainty	0.00 usft		Wellhead Elevation:
			Ground Level:
			3,940.00 usft

Wellbore:	WB1		
Magnetics:	Model/Name	Sample Date	Declination
			(°)
	BGGM2014	1/16/2015	7.51
			Dip Angle
			(°)
			Field Strength
			(nT)
			60.63
			48,555

Design:	Plan #3 01-16-15		
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
			(°)
			269.30

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	
4,818.59	0.00	0.00	4,818.59	0.00	0.00	0.00	0.00	0.00	0.00	
5,575.84	90.87	269.59	5,296.00	-3.47	-484.70	12.00	12.00	0.00	269.59	
10,052.63	90.87	269.59	5,228.00	-35.50	-4,960.86	0.00	0.00	0.00	0.00	BHL-Crow Fed #40H

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #40H
Company:	Apache Corporation	TVD Reference:	KB @ 3951.00usft (Capstar 114)
Project:	Eddy County NM (NAD27 NME)	MD Reference:	KB @ 3951.00usft (Capstar 114)
Site:	Crow Federal	North Reference:	Grid
Well:	#40H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #3.01-16-15		

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	
541.00	0.00	0.00	541.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rustler										
721.00	0.00	0.00	721.00	0.00	0.00	0.00	0.00	0.00	0.00	
T/Salt										
1,746.00	0.00	0.00	1,746.00	0.00	0.00	0.00	0.00	0.00	0.00	
B/Salt										
1,881.00	0.00	0.00	1,881.00	0.00	0.00	0.00	0.00	0.00	0.00	
Yates										
2,163.00	0.00	0.00	2,163.00	0.00	0.00	0.00	0.00	0.00	0.00	
Seven Rivers										
2,781.00	0.00	0.00	2,781.00	0.00	0.00	0.00	0.00	0.00	0.00	
Queen										
3,181.00	0.00	0.00	3,181.00	0.00	0.00	0.00	0.00	0.00	0.00	
Grayburg										
3,513.00	0.00	0.00	3,513.00	0.00	0.00	0.00	0.00	0.00	0.00	
San Andres										
4,818.59	0.00	0.00	4,818.59	0.00	0.00	0.00	0.00	0.00	0.00	
KOP 12.00°/100° Build										
4,900.00	9.77	269.59	4,899.61	-0.05	-6.92	6.92	12.00	12.00	0.00	
4,942.13	14.83	269.59	4,940.76	-0.11	-15.89	15.89	12.00	12.00	0.00	
Glorieta										
5,000.00	21.77	269.59	4,995.67	-0.24	-34.05	34.05	12.00	12.00	0.00	
5,043.43	26.98	269.59	5,035.21	-0.37	-51.97	51.97	12.00	12.00	0.00	
(Yaso) Paddock										
5,100.00	33.77	269.59	5,083.99	-0.58	-80.55	80.56	12.00	12.00	0.00	
5,200.00	45.77	269.59	5,160.71	-1.03	-144.41	144.41	12.00	12.00	0.00	
5,300.00	57.77	269.59	5,222.48	-1.59	-222.81	222.82	12.00	12.00	0.00	
5,400.00	69.77	269.59	5,266.60	-2.24	-312.35	312.35	12.00	12.00	0.00	
5,497.82	81.51	269.59	5,290.82	-2.91	-406.95	406.95	12.00	12.00	0.00	
Paddock Landing										
5,500.00	81.77	269.59	5,291.14	-2.93	-409.10	409.11	12.00	12.00	0.00	
5,575.84	90.87	269.59	5,296.00	-3.47	-484.70	484.71	12.00	12.00	0.00	
LP Hold 90.87° Inc										
5,600.00	90.87	269.59	5,295.63	-3.64	-508.86	508.87	0.00	0.00	0.00	
5,700.00	90.87	269.59	5,294.11	-4.36	-608.84	608.85	0.00	0.00	0.00	
5,800.00	90.87	269.59	5,292.60	-5.07	-708.83	708.84	0.00	0.00	0.00	
5,900.00	90.87	269.59	5,291.08	-5.79	-808.82	808.83	0.00	0.00	0.00	
6,000.00	90.87	269.59	5,289.56	-6.50	-908.80	908.81	0.00	0.00	0.00	
6,100.00	90.87	269.59	5,288.04	-7.22	-1,008.79	1,008.80	0.00	0.00	0.00	
6,200.00	90.87	269.59	5,286.52	-7.93	-1,108.77	1,108.79	0.00	0.00	0.00	
6,300.00	90.87	269.59	5,285.00	-8.65	-1,208.76	1,208.78	0.00	0.00	0.00	
6,400.00	90.87	269.59	5,283.48	-9.37	-1,308.75	1,308.76	0.00	0.00	0.00	
6,500.00	90.87	269.59	5,281.96	-10.08	-1,408.73	1,408.75	0.00	0.00	0.00	
6,600.00	90.87	269.59	5,280.44	-10.80	-1,508.72	1,508.74	0.00	0.00	0.00	
6,700.00	90.87	269.59	5,278.92	-11.51	-1,608.70	1,608.72	0.00	0.00	0.00	
6,800.00	90.87	269.59	5,277.41	-12.23	-1,708.69	1,708.71	0.00	0.00	0.00	
6,900.00	90.87	269.59	5,275.89	-12.94	-1,808.68	1,808.70	0.00	0.00	0.00	
7,000.00	90.87	269.59	5,274.37	-13.66	-1,908.66	1,908.69	0.00	0.00	0.00	
7,100.00	90.87	269.59	5,272.85	-14.37	-2,008.65	2,008.67	0.00	0.00	0.00	
7,200.00	90.87	269.59	5,271.33	-15.09	-2,108.63	2,108.66	0.00	0.00	0.00	
7,300.00	90.87	269.59	5,269.81	-15.80	-2,208.62	2,208.65	0.00	0.00	0.00	
7,400.00	90.87	269.59	5,268.29	-16.52	-2,308.61	2,308.63	0.00	0.00	0.00	

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #40H
Company:	Apache Corporation	TVD Reference:	KB @ 3951.00usft (Capstar 114)
Project:	Eddy County, NM (NAD27/NME)	MD Reference:	KB @ 3951.00usft (Capstar 114)
Site:	Crow Federal	North Reference:	Grid
Well:	#40H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #3 01-16-15		

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)
7,500.00	90.87	269.59	5,266.77	-17.24	-2,408.59	2,408.62	0.00	0.00	0.00
7,600.00	90.87	269.59	5,265.25	-17.95	-2,508.58	2,508.61	0.00	0.00	0.00
7,700.00	90.87	269.59	5,263.74	-18.67	-2,608.56	2,608.60	0.00	0.00	0.00
7,800.00	90.87	269.59	5,262.22	-19.38	-2,708.55	2,708.58	0.00	0.00	0.00
7,900.00	90.87	269.59	5,260.70	-20.10	-2,808.53	2,808.57	0.00	0.00	0.00
8,000.00	90.87	269.59	5,259.18	-20.81	-2,908.52	2,908.56	0.00	0.00	0.00
8,100.00	90.87	269.59	5,257.66	-21.53	-3,008.51	3,008.55	0.00	0.00	0.00
8,200.00	90.87	269.59	5,256.14	-22.24	-3,108.49	3,108.53	0.00	0.00	0.00
8,300.00	90.87	269.59	5,254.62	-22.96	-3,208.48	3,208.52	0.00	0.00	0.00
8,400.00	90.87	269.59	5,253.10	-23.67	-3,308.46	3,308.51	0.00	0.00	0.00
8,500.00	90.87	269.59	5,251.58	-24.39	-3,408.45	3,408.49	0.00	0.00	0.00
8,600.00	90.87	269.59	5,250.06	-25.11	-3,508.44	3,508.48	0.00	0.00	0.00
8,700.00	90.87	269.59	5,248.55	-25.82	-3,608.42	3,608.47	0.00	0.00	0.00
8,800.00	90.87	269.59	5,247.03	-26.54	-3,708.41	3,708.46	0.00	0.00	0.00
8,900.00	90.87	269.59	5,245.51	-27.25	-3,808.39	3,808.44	0.00	0.00	0.00
9,000.00	90.87	269.59	5,243.99	-27.97	-3,908.38	3,908.43	0.00	0.00	0.00
9,100.00	90.87	269.59	5,242.47	-28.68	-4,008.37	4,008.42	0.00	0.00	0.00
9,200.00	90.87	269.59	5,240.95	-29.40	-4,108.35	4,108.40	0.00	0.00	0.00
9,300.00	90.87	269.59	5,239.43	-30.11	-4,208.34	4,208.39	0.00	0.00	0.00
9,400.00	90.87	269.59	5,237.91	-30.83	-4,308.32	4,308.38	0.00	0.00	0.00
9,500.00	90.87	269.59	5,236.39	-31.55	-4,408.31	4,408.37	0.00	0.00	0.00
9,600.00	90.87	269.59	5,234.88	-32.26	-4,508.29	4,508.35	0.00	0.00	0.00
9,700.00	90.87	269.59	5,233.36	-32.98	-4,608.28	4,608.34	0.00	0.00	0.00
9,800.00	90.87	269.59	5,231.84	-33.69	-4,708.27	4,708.33	0.00	0.00	0.00
9,900.00	90.87	269.59	5,230.32	-34.41	-4,808.25	4,808.31	0.00	0.00	0.00
10,000.00	90.87	269.59	5,228.80	-35.12	-4,908.24	4,908.30	0.00	0.00	0.00
10,052.63	90.87	269.59	5,228.00	-35.50	-4,960.86	4,960.92	0.00	0.00	0.00
TD at 10052.63' 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
BHL-Crow Fed #40H v3	- plan hits target center	0.00	0.00	5,228.00	-35.50	-4,960.86	677,702.40	638,668.14	32° 51' 44.17917 N 103° 52' 54.24188 W
	- Point								

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #40H
Company:	Apache Corporation	TVD Reference:	KB @ 3951.00usft (Capstar 114)
Project:	Eddy County NM (NAD27-NME)	MD Reference:	KB @ 3951.00usft (Capstar 114)
Site:	Crow Federal	North Reference:	Grid
Well:	#40H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #3 01-16-15		

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
541.00	541.00	Rustler		-0.87	269.59
721.00	721.00	T/Salt		-0.87	269.59
1,746.00	1,746.00	B/Salt		-0.87	269.59
1,881.00	1,881.00	Yates		-0.87	269.59
2,163.00	2,163.00	Seven Rivers		-0.87	269.59
2,781.00	2,781.00	Queen		-0.87	269.59
3,181.00	3,181.00	Grayburg		-0.87	269.59
3,513.00	3,513.00	San Andres		-0.87	269.59
4,942.13	4,940.76	Glorieta		-0.87	269.59
5,043.43	5,035.21	(Yaso) Paddock		-0.87	269.59
5,497.82	5,290.82	Paddock Landing		-0.87	269.59

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
4,818.59	4,818.59	0.00	0.00	KOP, 12.00°/100' Build
5,575.84	5,296.00	-3.47	-484.70	LP, Hold 90.87° Inc
10,052.63	5,228.00	-35.50	-4,960.86	TD at 10052.63' MD