

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.
NMLC029435B

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.8. Well Name and No.
NFE FEDERAL 29H1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
APACHE CORPORATIONContact: JORDAN R EVANS
E-Mail: jordan.evans@apachecorp.com9. API Well No.
30-015-42585-00-X13a. Address
303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432-818-1000 Ext: 1027
Fx: 432-818-119810. Field and Pool, or Exploratory
CEDAR LAKE

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 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	Drilling Operations
	☐ 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 request to change TVD and MD from 5200'TVD, 9713'MD to 5284'TVD and 9631'MD (new directional plan attached).

Apache also request to change hole size after drill out of intermediate from 8-3/4" hole thru the curve and 7-7/8" in the lateral to 8-1/2" hole from under intermediate to TD. Cement volumes will remain the same as approved on APD.

JED 3/13/15
Accepted for record
NMOCDNM OIL CONSERVATION
ARTESIA DISTRICT

MAR 12 2015

Original COAs still stand.

RECEIVED

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

Electronic Submission #294073 verified by the BLM Well Information System

For APACHE CORPORATION, sent to the Carlsbad

Committed to AFMSS for processing by JENNIFER MASON on 03/06/2015 (15JAM0229SE)

Name (Printed/Typed) JORDAN R EVANS

Title DRILLING ENGINEER

Signature (Electronic Submission)

Date 03/06/2015

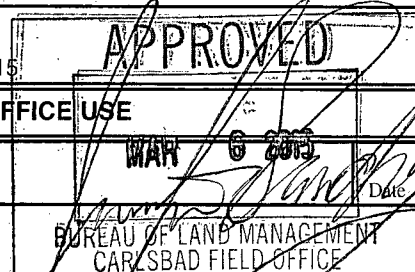
THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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.

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



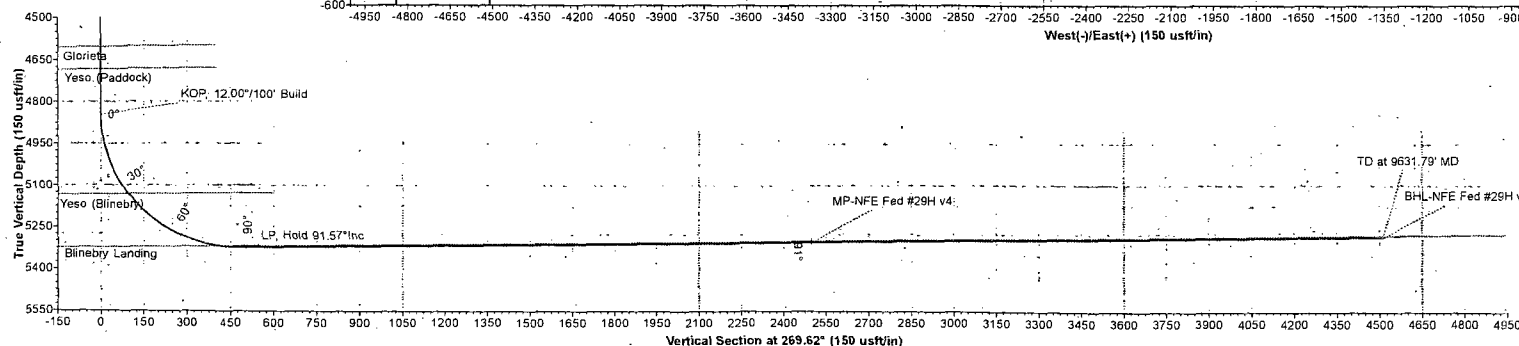
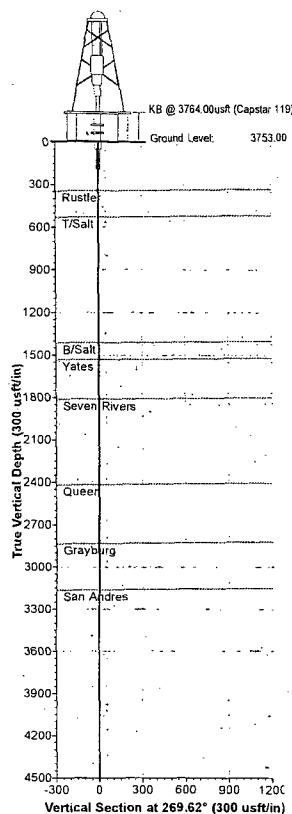
Project: Eddy County, NM (NAD27 NME)
 Site: NFE Federal
 Well: #29H
 Wellbore: WB1 / Job #1512834
 Design: Plan #4 03-05-15
 Rig: Capstar 119



PHOENIX
 TECHNOLOGY SERVICES



Azimuths to Grid North
 True North: -0.23°
 Magnetic North: 7.28°
 Magnetic Field
 Strength: 48533.25nT
 Dip Angle: 60.62°
 Date: 3/5/2015
 Model: BGGM2014



WELL DETAILS							
+N-S	-E-W	Northing	Easting	Ground Level	3753.00	Latitude	Longitude
0.00	0.00	678438.90	632910.40			32° 51' 31.91534 N	103° 54' 1.80517 W

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N-S	-E-W	Dleg	TFace	VSec	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	4846.56	0.00	0.00	4846.56	0.00	0.00	0.00	0.00	0.00		
3	5601.30	90.57	269.62	5324.00	-3.21	-482.19	12.00	269.62	482.20		KOP, 12.00°/100' Build LP, Hold 91.57° Inc
4	9631.79	90.57	269.62	5284.00	-30.00	-4512.40	0.00	0.00	4512.50	BHL-NFE Fed #29H v4	TD at 9631.79' MD

DESIGN TARGET DETAILS										
Name	TVD	+N-S	-E-W	Northing	Easting	Latitude	Longitude	Shape		
BHL-NFE Fed #29H v4	5284.00	-30.00	-4512.40	678408.90	628398.00	32° 51' 31.79839 N	103° 54' 54.70711 W	Point		
MP-NFE Fed #29H v4	5304.00	-16.60	-2497.36	678422.30	630413.04	32° 51' 31.85138 N	103° 54' 31.08345 W	Point		

FORMATION TOP DETAILS					
TVDPath	MDPath	Formation	DipAngle	DipDir	
344.00	344.00	Rustle	-0.57	269.62	
529.00	529.00	T/Salt	-0.57	269.62	
1414.00	1414.00	B/Salt	-0.57	269.62	
1534.00	1534.00	Yates	-0.57	269.62	
1814.00	1814.00	Seven Rivers	-0.57	269.62	
2418.00	2418.00	Queen	-0.57	269.62	
2834.00	2834.00	Grayburg	-0.57	269.62	
3164.00	3164.00	San Andres	-0.57	269.62	
4604.00	4604.00	Glorieta	-0.57	269.62	
4684.00	4684.00	Yeso (Paddock)	-0.57	269.62	
5133.05	5153.82	Yeso (Blineberry)	-0.57	269.62	
5319.87	5533.56	Blineberry Landing	-0.57	269.62	

LEGEND	
---	#34H, WB1 / Job #1512835, Plan #2 01-22-15 V0
---	#30H, WB1, Plan #1 02-18-14 V0
---	#28H, WB1 / Job #1512833, Surveys (Capstar 119) V0
---	#35H, WB1 / Job #1512836, Surveys (Capstar 119) V0
---	#36H, WB1, Plan #1 02-19-14 V0
---	#40H, WB1, Plan #2 01-27-15 V0
---	#42H, WB1, Plan #1 01-27-15 V0
---	Plan #4 03-05-15

Map System: US State Plane 1627 (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' 31.91534 N
 Longitude: 103° 54' 1.80517 W
 Grid East: 632910.40
 Grid North: 678438.90
 Scale Factor: 1.000
 Geomagnetic Model: BGGM2014
 Sample Date: 05-Mar-15
 Magnetic Declination: 7.51°
 Dip Angle from Horizontal: 60.62°
 Magnetic Field Strength: 48533
 To convert a Magnetic Direction to a Grid Direction, Add 7.28°
 To convert a Magnetic Direction to a True Direction, Add 7.51° East
 To convert a True Direction to a Grid Direction, Subtract 0.23°



Apache Corporation

Eddy County, NM (NAD27 NME)

NFE Federal

#29H

WB1 / Job #1512834

Plan: Plan #4 03-05-15

Standard Planning Report

05 March, 2015



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well: #29H
Company:	Apache Corporation	TVD Reference:	KB @ 3764.00usft (Capstar 119)
Project:	Eddy County, NM (NAD27/NME)	MD Reference:	KB @ 3764.00usft (Capstar 119)
Site:	NFE Federal	North Reference:	Grid
Well:	#29H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1 / Job #1512834		
Design:	Plan #4-03-05-15		

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	Northing:	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:	#29H		
Well Position	+N-S	3,174.20 usft	Northing:
	+E-W	-393.10 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			3,753.00 usft

Wellbore:	WB1 / Job #1512834		
Magnetics	Model Name	Sample Date	Declination
	BGGM2014	3/5/2015	7.51
			Dip Angle
			60.62
			Field Strength
			48,533

Design:	Plan #4-03-05-15		
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
			(°)
			269.62

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	
4,846.56	0.00	0.00	4,846.56	0.00	0.00	0.00	0.00	0.00	0.00	
5,601.30	90.57	269.62	5,324.00	-3.21	-482.19	12.00	12.00	-11.98	269.62	
9,631.79	90.57	269.62	5,284.00	-30.00	-4,512.40	0.00	0.00	0.00	0.00	BHL-NFE Fed #29H v

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #29H
Company:	Apache Corporation	TVD Reference:	KB @ 3764.00usft (Capstar 119)
Project:	Eddy County, NM (NAD27, NME)	MD Reference:	KB @ 3764.00usft (Capstar 119)
Site:	NFE Federal	North Reference:	Grid
Well:	#29H	Survey/Calculation Method:	Minimum Curvature
Wellbore:	WB1 / Job #1512834		
Design:	Plan #4 03-05-15		

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
344.00	0.00	0.00	344.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
529.00	0.00	0.00	529.00	0.00	0.00	0.00	0.00	0.00	0.00
T/Salt									
1,414.00	0.00	0.00	1,414.00	0.00	0.00	0.00	0.00	0.00	0.00
B/Salt									
1,534.00	0.00	0.00	1,534.00	0.00	0.00	0.00	0.00	0.00	0.00
Yates									
1,814.00	0.00	0.00	1,814.00	0.00	0.00	0.00	0.00	0.00	0.00
Seven Rivers									
2,418.00	0.00	0.00	2,418.00	0.00	0.00	0.00	0.00	0.00	0.00
Queen									
2,834.00	0.00	0.00	2,834.00	0.00	0.00	0.00	0.00	0.00	0.00
Grayburg									
3,164.00	0.00	0.00	3,164.00	0.00	0.00	0.00	0.00	0.00	0.00
San Andres									
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)									
4,846.56	0.00	0.00	4,846.56	0.00	0.00	0.00	0.00	0.00	0.00
KOP 12.00°/100 Build									
4,900.00	6.41	269.62	4,899.89	-0.02	-2.99	2.99	12.00	12.00	0.00
5,000.00	18.41	269.62	4,997.37	-0.16	-24.44	24.44	12.00	12.00	0.00
5,100.00	30.41	269.62	5,088.27	-0.44	-65.70	65.70	12.00	12.00	0.00
5,153.82	36.87	269.62	5,133.05	-0.63	-95.50	95.50	12.00	12.00	0.00
Yeso (Blinbry)									
5,200.00	42.41	269.62	5,168.59	-0.83	-124.95	124.95	12.00	12.00	0.00
5,300.00	54.41	269.62	5,234.85	-1.33	-199.60	199.61	12.00	12.00	0.00
5,400.00	66.41	269.62	5,284.13	-1.90	-286.40	286.41	12.00	12.00	0.00
5,500.00	78.41	269.62	5,314.29	-2.54	-381.55	381.56	12.00	12.00	0.00
5,533.56	82.44	269.62	5,319.87	-2.76	-414.64	414.65	12.00	12.00	0.00
Blinbry Landing									
5,600.00	90.41	269.62	5,324.01	-3.20	-480.89	480.90	12.00	12.00	0.00
5,601.30	90.57	269.62	5,324.00	-3.21	-482.19	482.20	11.99	11.99	0.00
LP Hold 91.57° Inc									
5,700.00	90.57	269.62	5,323.02	-3.86	-580.89	580.90	0.00	0.00	0.00
5,800.00	90.57	269.62	5,322.03	-4.53	-680.88	680.89	0.00	0.00	0.00
5,900.00	90.57	269.62	5,321.04	-5.19	-780.87	780.89	0.00	0.00	0.00
6,000.00	90.57	269.62	5,320.04	-5.86	-880.87	880.89	0.00	0.00	0.00
6,100.00	90.57	269.62	5,319.05	-6.52	-980.86	980.88	0.00	0.00	0.00
6,200.00	90.57	269.62	5,318.06	-7.19	-1,080.85	1,080.88	0.00	0.00	0.00
6,300.00	90.57	269.62	5,317.07	-7.85	-1,180.84	1,180.87	0.00	0.00	0.00
6,400.00	90.57	269.62	5,316.07	-8.52	-1,280.84	1,280.87	0.00	0.00	0.00
6,500.00	90.57	269.62	5,315.08	-9.18	-1,380.83	1,380.86	0.00	0.00	0.00
6,600.00	90.57	269.62	5,314.09	-9.85	-1,480.82	1,480.86	0.00	0.00	0.00
6,700.00	90.57	269.62	5,313.10	-10.51	-1,580.82	1,580.85	0.00	0.00	0.00
6,800.00	90.57	269.62	5,312.10	-11.17	-1,680.81	1,680.85	0.00	0.00	0.00
6,900.00	90.57	269.62	5,311.11	-11.84	-1,780.80	1,780.84	0.00	0.00	0.00
7,000.00	90.57	269.62	5,310.12	-12.50	-1,880.79	1,880.84	0.00	0.00	0.00
7,100.00	90.57	269.62	5,309.13	-13.17	-1,980.79	1,980.83	0.00	0.00	0.00
7,200.00	90.57	269.62	5,308.13	-13.83	-2,080.78	2,080.83	0.00	0.00	0.00

Database:	Compass 5000/GCR	Local Co-ordinate Reference:	Well #29H
Company:	Apache Corporation	TVD Reference:	KB @ 3764.00usft (Capstar 119)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	KB @ 3764.00usft (Capstar 119)
Site:	NFE Federal	North Reference:	Grid
Well:	#29H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1 / Job #1512834		
Design:	Plan #4 03-05-15		

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)	
7,300.00	90.57	269.62	5,307.14	-14.50	-2,180.77	2,180.82	0.00	0.00	0.00	
7,400.00	90.57	269.62	5,306.15	-15.16	-2,280.77	2,280.82	0.00	0.00	0.00	
7,500.00	90.57	269.62	5,305.16	-15.83	-2,380.76	2,380.81	0.00	0.00	0.00	
7,600.00	90.57	269.62	5,304.16	-16.49	-2,480.75	2,480.81	0.00	0.00	0.00	
7,700.00	90.57	269.62	5,303.17	-17.16	-2,580.74	2,580.80	0.00	0.00	0.00	
7,800.00	90.57	269.62	5,302.18	-17.82	-2,680.74	2,680.80	0.00	0.00	0.00	
7,900.00	90.57	269.62	5,301.19	-18.49	-2,780.73	2,780.79	0.00	0.00	0.00	
8,000.00	90.57	269.62	5,300.20	-19.15	-2,880.72	2,880.79	0.00	0.00	0.00	
8,100.00	90.57	269.62	5,299.20	-19.82	-2,980.72	2,980.78	0.00	0.00	0.00	
8,200.00	90.57	269.62	5,298.21	-20.48	-3,080.71	3,080.78	0.00	0.00	0.00	
8,300.00	90.57	269.62	5,297.22	-21.15	-3,180.70	3,180.77	0.00	0.00	0.00	
8,400.00	90.57	269.62	5,296.23	-21.81	-3,280.69	3,280.77	0.00	0.00	0.00	
8,500.00	90.57	269.62	5,295.23	-22.48	-3,380.69	3,380.76	0.00	0.00	0.00	
8,600.00	90.57	269.62	5,294.24	-23.14	-3,480.68	3,480.76	0.00	0.00	0.00	
8,700.00	90.57	269.62	5,293.25	-23.81	-3,580.67	3,580.75	0.00	0.00	0.00	
8,800.00	90.57	269.62	5,292.26	-24.47	-3,680.67	3,680.75	0.00	0.00	0.00	
8,900.00	90.57	269.62	5,291.26	-25.14	-3,780.66	3,780.74	0.00	0.00	0.00	
9,000.00	90.57	269.62	5,290.27	-25.80	-3,880.65	3,880.74	0.00	0.00	0.00	
9,100.00	90.57	269.62	5,289.28	-26.46	-3,980.64	3,980.73	0.00	0.00	0.00	
9,200.00	90.57	269.62	5,288.29	-27.13	-4,080.64	4,080.73	0.00	0.00	0.00	
9,300.00	90.57	269.62	5,287.29	-27.79	-4,180.63	4,180.72	0.00	0.00	0.00	
9,400.00	90.57	269.62	5,286.30	-28.46	-4,280.62	4,280.72	0.00	0.00	0.00	
9,500.00	90.57	269.62	5,285.31	-29.12	-4,380.62	4,380.71	0.00	0.00	0.00	
9,600.00	90.57	269.62	5,284.32	-29.79	-4,480.61	4,480.71	0.00	0.00	0.00	
9,631.79	90.57	269.62	5,284.00	-30.00	-4,512.40	4,512.50	0.00	0.00	0.00	
TD at 9631.79 MD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
BHL-NFE Fed #29H v4 - plan hits target center - Point	-92.26	269.62	5,284.00	-30.00	-4,512.40	676,408.90	628,398.00	32° 51' 31.79839 N	103° 54' 54.70711 W	
MP-NFE Fed #29H v4 - plan hits target center - Point	0.00	0.00	5,304.00	-16.60	-2,497.36	676,422.29	630,413.04	32° 51' 31.85138 N	103° 54' 31.08345 W	

Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well #29H
Company:	Apache Corporation	TVD Reference:	KB @ 3764.00usft (Capstar 119)
Project:	Eddy County, NM (NAD27/NME)	MD Reference:	KB @ 3764.00usft (Capstar 119)
Site:	NFE Federal	North Reference:	Grid
Well:	#29H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1 / Job #1512834		
Design:	Plan #4 03-05-15		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
344.00	344.00	Rustler		-0.57	269.62	
529.00	529.00	T/Salt		-0.57	269.62	
1,414.00	1,414.00	B/Salt		-0.57	269.62	
1,534.00	1,534.00	Yates		-0.57	269.62	
1,814.00	1,814.00	Seven Rivers		-0.57	269.62	
2,418.00	2,418.00	Queen		-0.57	269.62	
2,834.00	2,834.00	Grayburg		-0.57	269.62	
3,164.00	3,164.00	San Andres		-0.57	269.62	
4,604.00	4,604.00	Glorieta		-0.57	269.62	
4,684.00	4,684.00	Yeso (Paddock)		-0.57	269.62	
5,153.82	5,133.05	Yeso (Blinebry)		-0.57	269.62	
5,533.56	5,319.87	Blinebry Landing		-0.57	269.62	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
4,846.56	4,846.56	0.00	0.00	KOP, 12.00°/100' Build	
5,601.30	5,324.00	-3.21	-482.19	LP, Hold 91.57°Inc	
9,631.79	5,284.00	-30.00	-4,512.40	TD at 9631.79' MD	