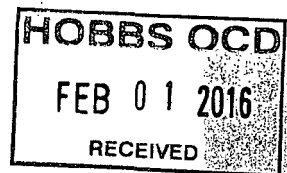


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Attachment to APD
BTA Oil Producers, LLC
Mesa 8105 JV-P #9H
Sec 12, T26S, R32E
Lea County, NM



BTA Oil Producers, LLC

Lea County, NM

Sec 1 & 12, T26S, R32E (Mesa)

Mesa #09H

Wellbore #1

Plan: Design #1

Standard Planning Report

12 December, 2014

FEB 19 2016

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BTA Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Mesa #09H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3282.0usft (Original Well Elev)
Project:	Lea County, NM	MD Reference:	WELL @ 3282.0usft (Original Well Elev)
Site:	Sec 1 & 12, T26S, R32E (Mesa)	North Reference:	Grid
Well:	Mesa #09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project:	Lea County, NM, Lea County, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Sec 1 & 12, T26S, R32E (Mesa)		
Site Position:	Map	Northing:	388,357.80 usft
From:		Easting:	718,031.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 3' 56.723 N
		Longitude:	103° 37' 46.202 W
		Grid Convergence:	0.37 °

Well:	Mesa #09H		
Well Position	+N/-S	-657.1 usft	Northing:
	+E/-W	-1,697.4 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 3' 50.330 N
		Longitude:	103° 38' 5.976 W
		Ground Level:	3,282.0 usft

Wellbore:	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	12/12/2014	7.17
			Dip Angle
			59.97
			Field Strength
			48,216

Design:	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			180.17

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,042.5	0.00	0.00	9,042.5	0.0	0.0	0.00	0.00	0.00	0.00	
9,792.5	90.00	180.17	9,520.0	-477.5	-1.5	12.00	12.00	0.00	180.17	
14,103.2	90.00	180.17	9,520.0	-4,788.1	-14.6	0.00	0.00	0.00	0.00	Mesa #9H BHL

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,042.5	0.00	0.00	9,042.5	0.0	0.0	0.0	0.00	0.00	0.00	
9,792.5	90.00	180.17	9,520.0	-477.5	-1.5	477.5	12.00	12.00	0.00	
14,103.2	90.00	180.17	9,520.0	-4,788.1	-14.6	4,788.1	0.00	0.00	0.00	
Mesa #9H BHL										

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BTA Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Mesa #09H
Company:	BTA Oil Producers, LLC	TVD Reference:	WELL @ 3282.0usft (Original Well Elev)
Project:	Lea County, NM	MD Reference:	WELL @ 3282.0usft (Original Well Elev)
Site:	Sec 1 & 12, T26S, R32E (Mesa)	North Reference:	Grid
Well:	Mesa #09H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Design Targets									
Target Name									
hit/miss target	Dip Angle	Dip Dir.	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Mesa #9H BHL	0.00	0.00	9,520.0	-4,788.1	-14.6	382,912.60	716,319.00	32° 3' 2.948 N	103° 38' 6.505 W
- plan hits target center									
- Point									

Attachment to APD
BTA Oil Producers, LLC
Mesa 8105 JV-P #9H
Sec 12, T26S, R32E
Lea County, NM

WELL DETAILS: Mesa #09H

Ground Level: 3282.0
+N/-S +E/-W Northing Easting Latitude Longitude
0.0 0.0 387700.70 716333.60 32° 3' 50.330 N 103° 38' 5.976 W

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Azimuths to Grid North
True North: -0.37°
Magnetic North: 6.80°
Magnetic Field
Strength: 48216.0snT
Dip Angle: 59.97°
Date: 12/12/2014
Model: IGRF200510

SITE DETAILS: Sec 1 & 12, T26S, R32E (Mesa)

Site Centre Northing: 388357.80
Easting: 718031.00

Positional Uncertainty: 0.0
Convergence: 0.37
Local North: Grid

CASING DETAILS

No casing data is available

BTA Oil Producers, LLC

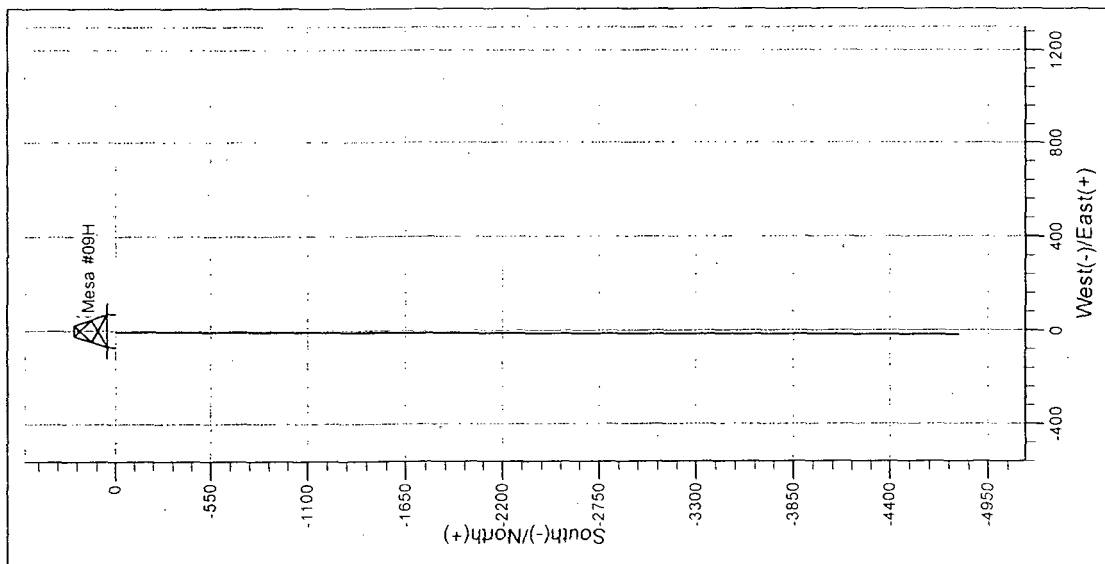
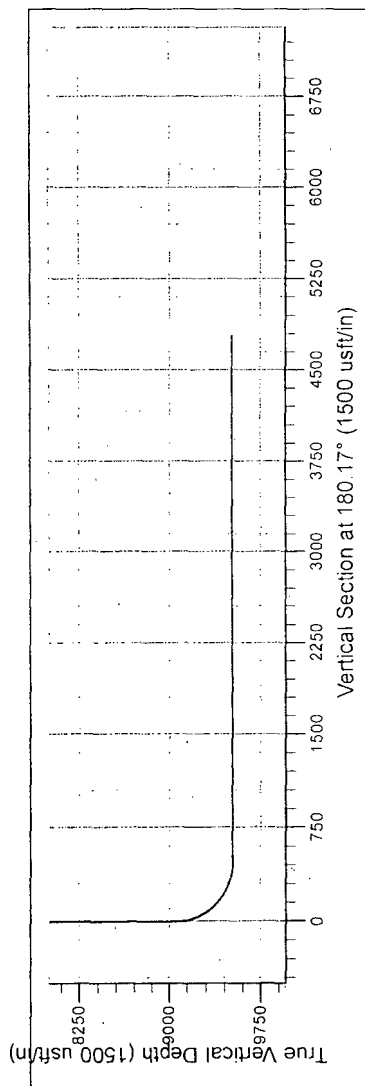
PROJECT DETAILS: Lea County, NM

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

System Datum: Ground Level

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
9042.5	0.00	0.00	9042.5	0.0	0.0	0.00	0.00	0.0	
9792.5	90.00	180.17	9520.0	-477.5	-1.5	12.00	180.17	477.5	Mesa #9H BHL
14103.2	90.00	180.17	9520.0	-4788.1	-14.6	0.00	0.00	4788.1	



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The 13-5/8" blowout preventer equipment (BOP) shown in exhibit A will consist of a (3M system) double ram type (3000 psi WP) preventer and a bag type (Hydril) preventer (3000 psi WP). Will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. The BOP's will be installed down the 13-3/8" casing and utilized continuously until TD is reached. All BOP's and associated equipment will be tested as per BLM drilling operations order No 2.

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having a 3000 psi WP rating.