COPY HOBBS OCD

Form 3160 - 3 (February 2005)

OCD Hobbs

FORM APPROVED OMB No. 1004-0137 FXDES March 31, 2007

5. Dease Serial No. NM 14492

6. If Indian, Allotee or Tribe Name

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER If Unit or CA Agreement, Name and No **✓** DRILL la. Type of work: REENTER Lease Name and Well No. Type of Well ✓ Oil Well Gas Well ✓ Single Zone Multiple Zone Mesa 8105 JV-P #15H 9 API Well No. Name of Operator BTA Oil Producers, LLC 30-025 -Phone No. (inchide area code) Address 104 S. Pecos 10 Field and Pool, or Exploratory Jennings; Upper Bone Spring Shale Midland, TX 79701 (432) 682-3753 11. Sec., T. R. M. or Blk. and Survey or Area 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 330' FNL & 1440' FWL NE/NW Sec. 12 UL -C-At surface Sec. 12, T26S-R32E At proposed prod. zone 230' FNL & 1334' FWL NW/NW Sec. 1 UL -D-C 12 County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* 25 miles west from Jal. NM Lea NM 17. Spacing Unit dedicated to this well 15 Distance from proposed* 16. No. of acres in lease location to nearest property or lease line, ft.
(Also to nearest drig, unit line, if any)

230 1960 160 acres 20. BLM/BIA Bond No. on file Distance from proposed location* to nearest well, drilling, completed, 19. Proposed Depth NMB000849 887' BHL to BHL 14775,' MD 9,520' TVD NM1195 applied for, on this lease, ft. (8105 JV-P Mesa #16H) 22. Approximate date work will start Elevations (Show whether DF, KDB, RT, GL, etc.) Estimated duration 3311' GL 08/01/2015 45 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form Bond to cover the operations unless covered by an existing bond on file (see 1. Well plat certified by a registered surveyor Item 20 above) 2. A Drilling Plan 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification SUPO must be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the Name (Printed/Typed) 25. Signature Kayla McConnell 04/21/2015 Title Email: kmcconnell@btaoil.com Regulatory Analyst Name (Printed Typed) Approved by (Signature) PHOV 1 8 2015 Steve Caffey Office Title CARLSBAD FIELD OFFICE Application approval 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 APPROVAL FOR TWO YEARS Conditions of approval, if any, are attached 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

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.

*(Instructions on page 2)

Carlshad Controlled Motor Davin

K= 11/n0/15

DEC

MNOCH-REQUIRES NGL



Attachment to APD BTA Oil Producers, LLC Mesa 8105 JV-P #15H Sec 12, T26S, R32E Lea County, NM

1. Geologic Formations

TVD of target	9520	Pilot hole depth	N/A
MD at TD:	14775	Deepest expected fresh water:	175

Racin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	MOBBS
Rustler	698	Water	
Top of Salt	1403	Salt	MOV 30
Base of Salt	4468	Salt	
Delaware	4718	Oil/Gas	RECE
Cherry Canyon	5973	Oil/Gas	166.00
Brushy Canyon	7253	Oil/Gas	
Bone Spring	8943	Oil/Gas	
Atoka			
Morrow			
Barnett Shale			
Woodford Shale			
Devonian			
Fusselman			
Ellenburger			
Granite Wash			
	4		

^{*}H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

Hole Size	Casing Interval		Csg.Size	e Weig	Grade Conn.	SF	SF	SF	
	From	То		ht (lbs)			Collapse	Burst	Tension
17.5"	0	728 840	13.375"	54.5	J55	STC	1.43	1.26	2.59
12.25"	0	4688	9.625"	40	J55	LTC	1.19	1.89	2.1
8.75"	0	9793	5.5"	17	P110	LTC	1.56	1.6	2.63
7.875"	9793	14775	5.5"	17	P110	LTC	1.56	1.6	1.91
		•		BLM Min	imum Safe	ty Factor	1.125	1	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N/A
Is well within the designated 4 string boundary.	N
as well writing the designated a string boundary.	s touchts agener
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	N/A
Is 2 nd string set 100' to 600' below the base of salt?	N/A
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	N/A
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	N/A
In well leasted in writing Cove // and O	NO. OF THE PARTY O
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N/A

3. Cementing Program

#Sks	Wt. Ib/ Gal	Yld ft3/ sack	H ₂ 0 gal/ sk	500# Comp. Strength (hours)	Slurry Description
570	13.5	1.75	8	10	Lead: Class C
200	14.8	1.34	8	8	Tail: Class C, circ to surf, 100% excess
950	12.7	1.94	8	15	1st stage Lead: Class C Blend
250	14.8	1.33	8	10	1 st stage Tail: Class C, circ to surf, 65% excess
1000	11.3	2.92	8	14	1stLead: 50:50 Blend Class H
950	14.4	1.22	8	10	1stTail: 50:50 Blend Class H
	570 200 950 250	570 13.5 200 14.8 950 12.7 250 14.8	Ib/ Gal sack	Ib/ Gal ft3/ sack gal/ sk 570 13.5 1.75 8 200 14.8 1.34 8 950 12.7 1.94 8 250 14.8 1.33 8 1000 11.3 2.92 8	Ib/ Gal Sack Sk Comp. Strength (hours)

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0.	100%
Intermediate	0.	65%
Production	4188	20%

Include Pilot Hole Cementing specs:

Pilot hole depth N/A

KOP 9043

		Yld ft3/sack	Slurry Description and Cement Type

4. Pressure Control Equipment

No

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Ty	pe .	*	Tested to:
1-1()(TROPED (17-7-7-10)		E (A 1025 AL 102 AZ 805	Ann	ıular	Х	50% of working pressure
			Blind	Ram	X	
12-1/4"	13-5/8"	3M	Pipe	Ram	X	214
			Double Ram			3M
			Other*			
			Ann	ıular		
			Blind	Ram		
			Pipe	Ram		
			Doubl	e Ram		
			Other *			
			Ann	ıular		
			Blind	Ram		
			Pipe	Ram		
				e Ram		
			Other *			

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
No	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart. Y /N Are anchors required by manufacturer?
No	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. • N/A See attached schematic.

5. Mud Program



Depth		Type W		Viscosity	Water Loss
From	To			and the state of	
0	728 840'	FW Spud	8.5-8.8	35-45	N/C
728	4688	Saturated Brine	10.0-10.2	28-34	N/C
4688	TD	Cut Brine	8.6-9.2	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain	PVT/Pason/Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

Logg	ging, Coring and Testing.
X	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole).
	Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
X	Drill stem test? If yes, explain - will be run based on geological sample shows
	Coring? If yes, explain

Add	litional logs planned	Interval
	Resistivity	
	Density	
	CBL	
Х	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4130 psi
Abnormal Temperature	Yes/No

Mitigation measure for abnormal conditions. Describe. No abnormal pressures or temperatures are anticipated. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present	
X	H2S Plan attached	

8. Other facets of operation

Is this a walking operation? If yes, describe. Will be pre-setting casing? If yes, describe.

Attachments

x Directional Plan Other, describe



Attachment to APD BTA Oil Producers, LLC Mesa 8105 JV-P #15H Sec 12, T26S, R32E Lea County. NM

BTA Oil Producers, LLC

Lea County, NM Mesa Sec 1 & 12, T26S, R32E Mesa #15H

Wellbore #1

Plan: Design #1

Standard Planning Report

16 March, 2015

Planning Report

Database:

EDM 5000.1 Single User Db

Company: Project:

BTA Oil Producers, LLC

Site:

Lea County, NM Mesa Sec 1 & 12, T26S, R32E

Well: Wellbore:

Mesa #15H Wellbore #1 Design #1

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference:

MD Reference: North Reference: Well Mesa #15H

Well @ 3301.0usft (Original Well Elev) Well @ 3301.0usft (Original Well Elev)

Grid

Minimum Curvature

Design: Project

Map System:

Lea County, NM, Lea County, NM

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

Geo Datum: Map Zone:

New Mexico East 3001

System Datum:

Ground Level

Using geodetic scale factor

Site

Mesa Sec 1 & 12, T26S, R32E

Site Position:

Northing:

388,357.80 usft

Latitude:

32° 3' 56.723 N

Мар

Easting:

718,031.00 usft

Longitude:

Position Uncertainty:

Slot Radius:

13-3/16"

Grid Convergence:

103° 37' 46.202 W

0.37 *

Well

Mesa #15H

+E/-W

+N/-S -647.2 usft

-727.7 usft

0.0 usft

Northing: Easting:

387,710.60 usft 717,303.30 usft Latitude:

32° 3' 50,366 N

103° 37' 54.707 W

Position Uncertainty

Well Position

0.0 usft

Wellhead Elevation:

0.0 usft

Longitude: Ground Level:

3,311.0 usft

Wellbore

Wellbore #1

Magnetics

Model Name

Sample Date

Declination (°)

Dip Angle (°)

Field Strength

(nT)

IGRF200510

9/4/2014

7.20

59.98

48,242

Design

Design #1

Audit Notes:

Version:

Phase:

Tie On Depth:

0.0

Vertical Section:

Depth From (TVD)

PROTOTYPE +N/-S

+E/-W

Direction

(usft) 0.0

(usft) 0.0

(usft) 0.0

(°) 357.39

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	357.39	9,520.0	477.0	-21.7	12.00	12 00	0 00	357.39	
14,774.7	90.00	357.39	9,520.0	5,454.0	-248.4	0.00	0.00	0.00	0.00	Mesa #15H PBHI

Planning Report

Database:

EDM 5000.1 Single User Db

Company: Project: BTA Oil Producers, LLC Lea County, NM

Site:

Mesa Sec 1 & 12, T26S, R32E

Well: Wellbore: Design: Mesa #15H

Wellbore #1 Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Mesa #15H

Well @ 3301.0usft (Original Well Elev) Well @ 3301.0usft (Original Well Elev)

Grid

Minimum Curvature

PI	anned	Surv	ey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
0.008	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

Planning Report

Database: Company: EDM 5000.1 Single User Db BTA Oil Producers, LLC

Lea County, NM

Project: Site: Well:

Mesa Sec 1 & 12, T26S, R32E

Wellbore:

Mesa #15H Wellbore #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Mesa #15H

Well @ 3301.0usft (Original Well Elev) Well @ 3301.0usft (Original Well Elev)

Grid

Minimum Curvature

esign:	Design #1									
Planned Survey										
Measured			Vertical			Vertical	Dogleg	Build	Turn	
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500 0	0.0	0.0	0.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
9.000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,000.0 8,100.0	0.00	0.00	8,000.0 8,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0 00	
9,000.0	0.00	0.00	9,000.0	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	
9,100.0	6.90	357.39	9,099.9	3.5	-0.2	3.5	12.00	12.00	0.00	
9,200.0	18.90	357.39	9,197.2	25.7	-1.2	25.7	12.00	12.00	0.00	
9,300.0	30.90	357.39	9,287.7	67.7	-3.1	67.8	12.00	12.00	0.00	
9,400.0	42.90	357.39	9,367.5	127.5	-5.8	127.7	12.00	12.00	0.00	
9,500.0	54.90	357.39	9,433.2	202.7	-9.2	202.9	12.00	12.00	0.00	
9,600.0	66.90	357.39	9,481.7	289.8	-13.2	290.1	12.00	12.00	0.00	
9,700.0	78.90	357.39	9,511.1	385.1	-17.5	385.5	12.00	12.00	0.00	
9,792.5	90.00	357.39	9,520.0	477.0	-21.7	477.5	12.00	12.00	0.00	
9,800.0	90.00	357.39	9,520.0	484.4	-22.1	484.9	0.00	0.00	0.00	
9,900.0	90.00	357.39	9,520.0	584.3	-26.6	584.9	0.00	0.00	0.00	
10,000.0	90.00	357.39	9,520.0	684.2	-31.2	684.9	0.00	0.00	0.00	
10,100.0	90.00	357.39	9,520.0	784.1	-35.7	784.9	0.00	0.00	0.00	
10,200.0	90.00	357.39	9,520.0	884.0	-40.3	884.9	0.00	0.00	0.00	
10,300.0	90.00	357.39	9,520.0	983.9	-44.8	984.9	0.00	0.00	0.00	
10,400.0	90.00	357.39	9,520.0	1,083.8	-49.4	1,084.9	0.00	0.00	0.00	
10,500.0	90.00	357.39	9,520.0	1,183.7	-53.9	1,184.9	0.00	0.00	0.00	

Planning Report

Database: Company: EDM 5000.1 Single User Db BTA Oil Producers, LLC

Project: Site: Lea County, NM

Site: Well: Mesa Sec 1 & 12, T26S, R32E

Well: Wellbore: Design: Mesa #15H Wellbore #1 Design #1 Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well Mesa #15H

Well @ 3301.0usft (Original Well Elev) Well @ 3301.0usft (Original Well Elev)

Grid

Minimum Curvature

nned Survey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
10,600 0	90.00	357.39	9,520.0	1,283.6	-58.5	1,284.9	0.00	0.00	0.00
10,700.0	90.00	357.39	9,520.0	1,383.5	-63.0	1,384.9	0.00	0.00	0.00
10,800.0	90.00	357.39	9,520.0	1,483.4	-67.6	1,484.9	0.00	0.00	0.00
10,900.0	90.00	357.39	9,520.0	1,583.3	-72.1	1,584.9	0.00	0.00	0.00
11,000.0	90.00	357.39	9,520.0	1,683.2	-76.7	1,684.9	0.00	0.00	0.00
11,100.0	90.00	357.39	9,520.0	1,783.1	-81.2	1,784.9	0.00	0.00	0.00
11,200.0	90.00	357.39	9,520.0	1,883.0	-85.8	1,884.9	0.00	0.00	0.00
11,300.0	90.00	357.39	9,520.0	1,982.9	-90.3	1,984.9	0.00	0.00	0.00
11,400.0	90.00	357.39	9,520.0	2,082.8	-94.9	2,084.9	0.00	0.00	0.00
11,500.0	90.00	357.39	9.520.0	2,182.7	-99.4	2,184.9	0.00	0.00	0.00
11,600.0	90.00	357.39	9,520.0	2,282.6	-104.0	2,284.9	0.00	0.00	0.00
11,700.0	90.00	357.39	9,520.0	2,382.5	-108.5	2,384.9	0.00	0.00	0.00
11,800.0	90.00	357.39	9.520.0	2.482.4	-113.1	2,484.9	0.00	0.00	0.00
11,900.0	90.00	357.39	9,520.0	2,582.3	-117.6	2,584.9	0.00	0.00	0.00
12,000.0	90.00	357.39	9,520.0	2,682.1	-122.2	2,684.9	0.00	0.00	0.00
12,100.0	90.00	357.39	9,520.0	2,782.0	-126.7	2,784.9	0.00	0.00	0.00
12,200.0	90.00	357.39	9,520.0	2,881.9	-131.3	2,884.9	0.00	0.00	0.00
12,300.0	90.00	357.39	9,520.0	2,981.8	-135.8	2,984.9	0.00	0.00	0.00
12,400.0	90.00	357.39	9,520.0	3,081.7	-140.4	3.084.9	0.00	0.00	0.00
12,500.0	90.00	357.39	9,520.0	3,181.6	-144.9	3,184.9	0.00	0.00	0.00
12,600.0	90.00	357.39	9,520.0	3,281.5	-149.5	3,284.9	0.00	0.00	0.00
12,700.0	90.00	357.39	9,520.0	3,381.4	-154.0	3,384.9	0.00	0.00	0.00
12,800.0	90.00	357.39	9,520.0	3,481.3	-158.6	3,484.9	0.00	0.00	0.00
12,900.0	90.00	357.39	9,520.0	3,581.2	-163.1	3,584.9	0.00	0.00	0.00
13,000.0	90.00	357.39	9,520.0	3,681.1	-167.7	3.684.9	0.00	0.00	0.00
13,100.0	90.00	357.39	9,520.0	3,781.0	-172.2	3,784.9	0.00	0.00	0.00
13,200.0	90.00	357.39	9,520.0	3,880.9	-176.8	3,884.9	0.00	0.00	0.00
13,300.0	90.00	357.39	9,520.0	3,980.8	-181.3	3,984.9	0.00	0.00	0.00
13,400.0	90.00	357.39	9,520.0	4,080.7	-185.9	4,084.9	0.00	0.00	0.00
13,500.0	90.00	357.39	9,520.0	4,180.6	-190.4	4,184.9	0.00	0.00	0.00
13,600.0	90.00	357.39	9,520.0	4,280.5	-195.0	4,284.9	0.00	0.00	0.00
13,700.0	90.00	357.39	9,520.0	4,380.4	-199.5	4,384.9	0.00	0.00	0.00
13,800.0	90.00	357 39	9,520.0	4,480.3	-204.1	4,484.9	0.00	0.00	0.00
13,900.0	90.00	357.39	9,520.0	4,580 2	-208.6	4.584.9	0.00	0.00	0.00
14,000.0	90.00	357.39	9.520.0	4,680.1	-213.2	4,684.9	0.00	0.00	0.00
14,100.0	90.00	357.39	9,520.0	4,780.0	-217.7	4,784.9	0.00	0.00	0.00
14,200.0	90.00	357.39	9,520.0	4,879.9	-222.3	4,884.9	0.00	0.00	0.00
14,300.0	90.00	357.39	9.520.0	4,979.8	-226.8	4,984.9	0.00	0.00	0.00
14,400.0	90.00	357.39	9.520.0	5,079.7	-231.4	5.084.9	0.00	0.00	0.00
14,500.0	90.00	357.39	9,520.0	5,179.6	-235.9	5,184.9	0.00	0.00	0.00
	90.00	357.39	9,520.0	5,179.5	-240.5	5,284.9	0.00	0.00	0.00
14,600.0 14,700.0	90.00	357 39	9,520.0	5,279.5	-240.5	5,384.9	0.00	0.00	0.00
					-248.4	5,459.7	0.00	0.00	0.00
14,774.7 Mesa #15H P	90.00	357.39	9,520.0	5,454.0	-240.4	5,459.7	0.00	0.00	0.00

Planning Report

Database: Company: EDM 5000.1 Single User Db

BTA Oil Producers, LLC Lea County, NM

Wellbore #1

Design #1

Project: Site:

Mesa Sec 1 & 12, T26S, R32E

Well:

Mesa #15H

Wellbore: Design:

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference:

MD Reference: North Reference:

Well @ 3301.0usft (Original Well Elev) Well @ 3301.0usft (Original Well Elev)

Grid

Minimum Curvature

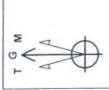
Well Mesa #15H

Design Targets

Target Name

- hit/miss target Dip Dir. TVD +N/-S +E/-W Northing Easting Dip Angle - Shape (usft) (usft) (usft) (usft) (usft) Latitude Longitude Mesa #15H PBHL 717,054.90 32° 4' 44 352 N 103° 37' 57. 182 W 0.00 0.01 9,520.0 5,454.0 -248 4 393,164.40

- plan hits target center - Point



Azimuths to Grid North True North: -0.37° Magnetic North: 6.83°

Magnetic Field Strength: 48242.0snT Dip Angle: 59.98* Date: 9/4/2014 Model: IGRF200510

WELL DETAILS: Mesa #15H

Longitude Latittude 32° 3′ 50 3311.0 Ground Level: Easting 717303.30 Northing 387710.60 +E/-W S-/N+

3	
54.707	
103° 37'	
30.366 N	

BTA Oil Producers, LLC SITE DETAILS: Mesa Sec 1 & 12, T26S, R32E

Site Centre Northing: 388357.80 Easting: 718031.00

Positional Uncertainity: 0.0 Convergence: 0.37 Local North: Grid

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

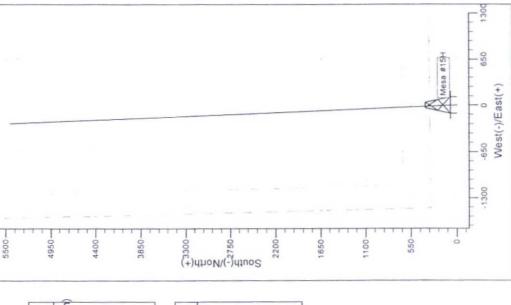
_								
	1 1	5500	1	1 1	4950	1 1	1	4400
						-	-	
	-							

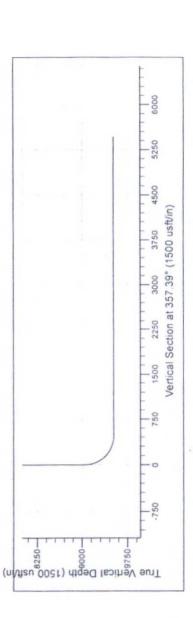


No casing data is available

CASING DETAILS

	Annotation Mesa #15H PBHL	
	VSect 0.0 0.0 477.5 5459.7	
	7Face 0.00 0.00 357.39 0.00	
ETAILS	Dleg 0.00 12.00 0.00	
SECTION DETAILS	+E/-W 0.0 0.0 -21.7	
S	+N/-S 0.0 0.0 477.0 5454.0	
	TVD 0.0 9042.5 9520.0 9520.0	
	Azi 0.00 0.00 357.39 357.39	
	0.00 0.00 90.00	
	MD 0.0 9042.5 9792.5	







Mesa 8105 JV-P #15H Sec. 12, T26S-R32E Lea County, NM

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

type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having a 3000 psi choke line will be incorporated in the drilling spool below the ram 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"

COPY

3,000 psi BOP Schematic

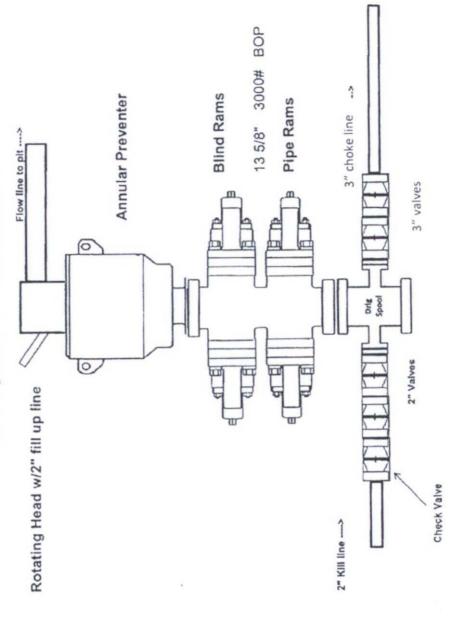
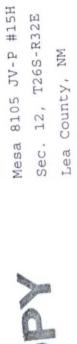
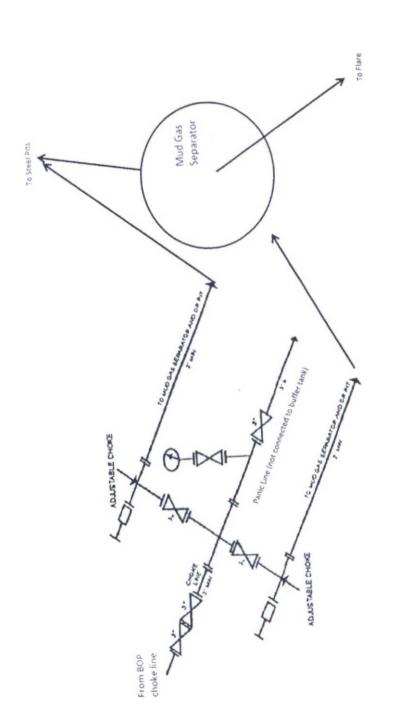


Exhibit A





3M choke manifold design