

Form 3160 -3 (February 2005)

HORB: OCD Hobbs NOV 30 2015

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

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Lease Serial No NM 14492

APPLICATION FOR PERMIT TO	DRILL OR REENTER	6. If Indian, Allote	ee or Tribe Name	
1a. Type of work: ✓ DRILL REENTE	ER	7 If Unit or CA Ag 8. Lease Name and	treement, Name and No.	
Ib. Type of Well: ✓ Oil Well Gas Well Other	✓ Single Zone Multi	ple Zone Mesa 8105 J		
2 Name of Operator BTA Oil Producers, LLC (260)	297)	9. API Well No. 30-025 -	42960 C	
3a Address 104 S. Pecos Midland, TX 79701	3b. Phone No. (include area code) (432) 682-3753	(e) 10. Field and Pool, or Exploratory (978 Jennings; Upper Bone Spring Shale		
Location of Well (Report location clearly and in accordance with an At surface 330' FNL & 1400' FWL NE/NW S At proposed prod. zone 230' FSL & 1294' FWL SW/SW S	Sec: 12 UL -C-	11. Sec., T. R. M. or HODOX Sec. 12, T268	Blk. and Survey or Area S-R32E	
 Distance in miles and direction from nearest town or post office* miles west from Jal, NM 	LOCA	12. County or Parish Lea	13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 230'	16. No. of acres in lease	17. Spacing Unit dedicated to thi	s well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 867' BHL to BHL (8105 JV-P Mess #9H)	19. Proposed Depth 14,103' MD 9,520' TVD	20. BLM/BIA Bond No. on file NM1195 NMB000849		
 Elevations (Show whether DF, KDB, RT, GL, etc.) 3310' GL 	22. Approximate date work will str 08/01/2015	23. Estimated durat 45 days	The second secon	
	24. Attachments			
The following, completed in accordance with the requirements of Onshor	re Oil and Gas Order No.1, must be	attached to this form:		
Well plat certified by a registered surveyor. A Drilling Plan.	Bond to cover Item 20 above).	the operations unless covered by a	an existing bond on file (see	
 A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 		cation specific information and/or plans	as may be required by the	
25. Signature Kuyla McCommill	Name (PrintedTyped) Kayla McConnell		Date 04/21/2015	
Title Regulatory Analyst	Email: kmcconnell@btac	il.com		

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

Office

Name (Printed Typed)

Steve Caffey

FIELD MANAGER

Date NOV 1 8 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.

*(Instructions on page 2)

Approved by (Signa

Title

Carlsbad Controlled Water Basin

KZ 11/40/15

CARLSBAD FIELD OFFICE

NMOCD - REQUIRES NGL

SEE ATTACHED FOR CONDITIONS OF APPROVAL



Attachment to APD BTA Oil Producers, LLC Mesa 8105 JV-P #10H Sec 12, T26S, R32E Lea County, NM

1. Geologic Formations

TVD of target	9520	Pilot hole depth	N/A
MD at TD:	14102	Deepest expected fresh water:	175

Racin

Surface 698 1403	Water	HObes #
	Water	
1.402	Water	
1403	Salt	NOV 3 0 20
4468	Salt	
4718	Oil/Gas	RECEIVE
5973	Oil/Gas	. SEPORIALI
7253	Oil/Gas	
8943	Oil/Gas	· ·
	4468 4718 5973 7253	4468 Salt 4718 Oil/Gas 5973 Oil/Gas 7253 Oil/Gas

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

Hole	Casing	g Interval	Csg.Size	Weig	Grade	Conn.	SF	SF	SF
Size	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	14103	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 leasted within Coniton Peach	N
Is well located within Capitan Reef?	N/A
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	N
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
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	N/A

3. Cementing Program

Casing	#Sks	Wt. lb/ Gal	Yld ft3/ sack	H ₂ 0 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	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
Inter.	950	12.7	1.94	8	15	1stage Lead: Class C Blend
	250	14.8	1.33	8	10	1st stage Tail: Class C, circ to surf, 65% excess
Prod.	1000	11.3	2.92	8	14	1stLead: 50:50 Blend Class H
riou.	950	14.4	1.22	8	10	1stTail: 50:50 Blend Class H

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		pe	✓	Tested to:
			Anr	nular	X	50% of working pressure
			Blind	Ram	X	
12-1/4"	13-5/8"	3M	Pipe	Ram	X	3M
			Doubl	e Ram		31VI
			Other*			
			Anr	nular		
			Blind	Ram		
			Pipe	Ram		
				e Ram		
			Other *			
			Ann	nular		
			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.
lan	Y /N Are anchors required by manufacturer?
	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.
No	• N/A
	See attached schematic.

5. Mud Program



De	pth	Type	Weight (ppg)	Viscosity	Water Loss
From	To				
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 of fluid?	PVT/Pason/Visual Monitoring
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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	
X	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 #10H Sec 12, T26S, R32E Lea County, NM

BTA Oil Producers, LLC

Lea County, NM Mesa Sec 1 & 12, T26S, R32E Mesa #10H

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:

Mesa Sec 1 & 12, T26S, R32E

Well: Wellbore:

Mesa #10H Wellbore #1

Lea County, NM

Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Mesa #10H

Well @ 3300.0usft (Original Well Elev) Well @ 3300.0usft (Original Well Elev)

Grid

Minimum Curvature

Design: Project

Map System: Geo Datum: Map Zone:

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

Lea County, NM, Lea County, NM

New Mexico East 3001

System Datum:

Ground Level

Using geodetic scale factor

Site

Mesa Sec 1 & 12, T26S, R32E

Site Position: From:

Мар

Northing: Easting:

388,357.80 usft 718 031 00 usft Latitude:

32" 3' 56.723 N

Position Uncertainty:

0.0 usft

Longitude:

103° 37' 46 202 W

Slot Radius:

13-3/16 "

Grid Convergence:

0.37 9

Well

Mesa #10H

+N/-S +E/-W

-647.6 usft

Northing:

387,710.20 usft 717,263.30 usft Latitude:

32° 3' 50.364 N

3,310.0 usft

Position Uncertainty

-767.7 usft 0.0 usft Easting: Wellhead Elevation:

0.0 usft

Longitude: Ground Level: 103" 37' 55.172 W

48,242

Wellbore

Well Position

Wellbore #1

Magnetics

Model Name

Sample Date

Declination (°)

Dip Angle (°)

Field Strength

(nT)

IGRF200510 9/4/2014 59.98 7.20

Design

Design #1

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.0

Vertical Section:

Depth From (TVD) (usft)

+N/-S

+E/-W (usft) Direction

0.0

(usft) 0.0

0.0

(°) 180.96

Plan Sections Measured Vertical Dogleg Build Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate TFO (usft) (°) (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) 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 90.00 180.96 9,520.0 -477.4 -8.0 12.00 12.00 0.00 180.96 14,102.3 90.00 180.96 9,520.0 -4,786.6 0.00 Mesa #10H PBHL -80.5 0.00 0.00 0.00

Planning Report

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

Project:

Lea County, NM

Site:

Mesa Sec 1 & 12, T26S, R32E

Well: Wellbore:

Wellbore #1

Mesa #10H

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Mesa #10H

Well @ 3300.0usft (Original Well Elev) Well @ 3300.0usft (Original Well Elev)

Grid

Minimum Curvature

Wellbore: Design:	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)
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				
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
800.0	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	
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
							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					
3,600.0	0.00	0.00	3,600.0		0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,600.0	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	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:

Mesa Sec 1 & 12, T26S, R32E

Well: Wellbore: Design: Mesa #10H

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

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Mesa #10H

Well @ 3300.0usft (Original Well Elev) Well @ 3300.0usft (Original Well Elev)

Grid

Minimum Curvature

Design:	Design #1								
Planned Survey									
Measured Depth (usft)	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate (°/100usft)	Build Rate	Turn Rate
	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(*/100usit)	(°/100usft)	(°/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	
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
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	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	180.96	9,099.9	-3.5	-0.1	3.5	12.00	12.00	0.00
9,200.0	18.90	180.96	9,197.2	-25.7	-0.4	25.7	12.00	12.00	0.00
9,300.0	30.90	180.96	9,287.7	-67.7	-1.1	67.8	12.00	12.00	0.00
9,400.0	42.90	180.96	9,367.5	-127.7	-2.1	127.7	12.00	12.00	0.00
9,500.0	54.90	180.96	9,433.2	-202.9	-3.4	202.9	12.00	12.00	0.00
9,600.0	66.90	180.96	9,481.7	-290.1	-4.9	290.1	12.00	12.00	0.00
9,700.0	78.90	180.96	9,511.1	-385.5	-6.5	385.5	12.00	12.00	0.00
9,792.5	90.00	180.96	9,520.0	-477.4	-8.0	477.5	12.00	12.00	0.00
9,800.0	90.00	180.96	9,520.0	-484.9	-8.2	484.9	0.00	0.00	0.00
9,900.0	90.00	180.96	9,520.0	-584.8	-9.8	584.9	0.00	0.00	0.00
10,000.0	90.00	180.96	9,520.0	-684.8	-11.5	684.9	0.00	0.00	0.00
10,100.0	90.00	180.96	9,520.0	-784.8	-13.2	784.9	0.00	0.00	0.00
10,200.0	90.00	180.96	9,520.0	-884.8	-14.9	884.9	0.00	0.00	0.00
10,300.0	90.00	180.96	9,520.0	-984.8	-16.6	984.9	0.00	0.00	0.00
10,400.0	90.00	180.96	9,520.0	-1,084.8	-18.2	1,084.9	0.00	0.00	0.00
10,500.0	90.00	180.96	9,520.0	-1,184.8	-19.9	1,184.9	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

Mesa #10H

Wellbore:

Wellbore #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Mesa #10H

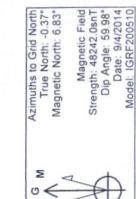
Well @ 3300.0usft (Original Well Elev) Well @ 3300.0usft (Original Well Elev)

Grid

Minimum Curvature

anned 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	180.96	9,520.0	-1,284.7	-21.6	1,284.9	0.00	0.00	0.00
10,700.0	90.00	180 96	9,520.0	-1,384.7	-23.3	1,384 9	0.00	0.00	0.00
10,800.0	90.00	180.96	9,520.0	-1,484.7	-25.0	1,484.9	0.00	0.00	0.00
10,900.0	90.00	180.96	9,520.0	-1,584.7	-26.7	1,584.9	0.00	0.00	0.00
11,000.0	90.00	180.96	9,520.0	-1,684.7	-28.3	1,684.9	0.00	0.00	0.00
11,100.0	90.00	180.96	9,520.0	-1.784.7	-30.0	1,784.9	0.00	0.00	0.00
11,200.0	90.00	180.96	9,520.0	-1,884.7	-31.7	1,884.9	0.00	0.00	0.00
11,300.0	90.00	180.96	9,520.0	-1,984.6	-33.4	1,984.9	0.00	0.00	0.00
11,400.0	90.00	180.96	9,520.0	-2,084.6	-35.1	2,084.9	0.00	0.00	0.00
11,500.0	90.00	180.96	9,520.0	-2,184.6	-36.7	2,184.9	0.00	0.00	0.00
11,600.0	90.00	180.96	9,520.0	-2.284.6	-38.4	2,284.9	0.00	0.00	0.00
11,700.0	90.00	180.96	9,520.0	-2,384.6	-40.1	2,384.9	0.00	0.00	0.00
11,800.0	90.00	180.96	9,520.0	-2,484.6	-41.8	2.484.9	0.00	0.00	0.00
11,900.0	90.00	180.96	9,520.0	-2,584.6	-43.5	2,584.9	0.00	0.00	0.00
12,000.0	90.00	180.96	9,520.0	-2,684.5	-45.2	2,684.9	0.00	0.00	0.00
12,100.0	90.00	180.96	9,520.0	-2.784.5	-46.8	2,784.9	0.00	0.00	0.00
12,200.0	90.00	180.96	9,520.0	-2,884.5	-48.5	2,884.9	0.00	0.00	0.00
12,300.0	90.00	180.96	9,520.0	-2,984.5	-50.2	2,984.9	0.00	0.00	0.00
12,400.0	90.00	180.96	9,520.0	-3,084.5	-51.9	3,084.9	0.00	0.00	0.00
12,500.0	90.00	180.96	9,520.0	-3,184.5	-53.6	3,184.9	0.00	0.00	0.00
12,600.0	90.00	180.96	9,520.0	-3,284.5	-55.2	3,284.9	0.00	0.00	0.00
12,700.0	90.00	180.96	9,520.0	-3,384.5	-56.9	3,384.9	0.00	0.00	0.00
12,800.0	90.00	180.96	9,520.0	-3,484.4	-58.6	3,484.9	0.00	0.00	0.00
12,900.0	90.00	180.96	9,520.0	-3,584.4	-60.3	3,584.9	0.00	0.00	0.00
13,000.0	90.00	180.96	9,520.0	-3,684.4	-62.0	3,684.9	0.00	0.00	0.00
13,100.0	90.00	180.96	9,520.0	-3,784.4	-63.6	3,784.9	0.00	0.00	0.00
13,200.0	90.00	180.96	9.520.0	-3.884 4	-65.3	3,884.9	0.00	0.00	0.00
13,300.0	90.00	180.96	9,520.0	-3,984.4	-67.0	3,984.9	0.00	0.00	0.00
13,400.0	90.00	180.96	9,520.0	-4,084.4	-68.7	4,084.9	0.00	0.00	0.00
13,500.0	90.00	180.96	9,520.0	-4,184.3	-70.4	4,184.9	0.00	0.00	0.00
13,600.0	90.00	180.96	9,520.0	-4,284.3	-72.1	4,284.9	0.00	0.00	0.00
13,700.0	90.00	180.96	9,520.0	-4,384.3	-73.7	4,384.9	0.00	0.00	0.00
13,800.0	90.00	180 96	9,520.0	-4,484.3	-75.4	4,484.9	0.00	0.00	0.00
13,900.0	90.00	180.96	9,520.0	-4,584.3	-77.1	4.584.9	0.00	0.00	0.00
14,000.0	90.00	180.96	9,520.0	-4.684.3	-78.8	4,684.9	0.00	0.00	0.00
14,100.0	90.00	180.96	9,520.0	4,784.3	-80.5	4.784.9	0.00	0.00	0.00
14,102.3	90.00	180.96	9,520.0	-4,786.6	-80.5	4,787.3	0.00	0.00	0.00
Mesa #10H P		.00.00	0,020.0	1,1,000		200.000	- 55		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Mesa #10H PBHL - plan hits target ce - Point	0.00 enter	0.00	9,520.0	-4,786.6	-80.5	382,923.80	717,182.80	32° 3′ 3.004 N	103° 37′ 56.468 W



WELL DETAILS: Mesa #10H

32° 3' 50.364 N Latittude 3310.0 Ground Level: Easting 717263.30 Northing 387710.20 +E/-W 0.0 S-/N+

Mesa #10H

103° 37' 55.172 W Longitude

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) New Mexico East 3001 Clarke 1866 Ellipsoid:

System Datum: Ground Level

No casing data is available

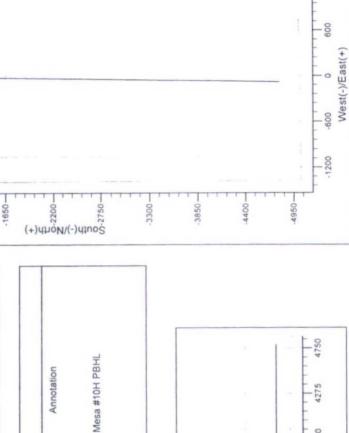
CASING DETAILS

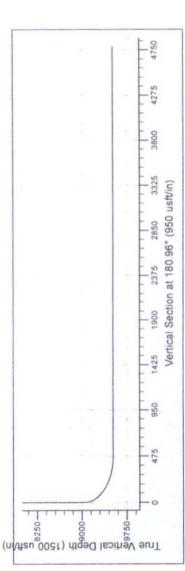
Zone:

-1100-

550

	Annotation				Mesa #10H PBHL
	VSect	0.0	0.0	477.5	4787.3
	TFace	0.00	0.00	180.96	0.00
DETAILS	Dieg	0.00	0.00	12.00	00.0
SECTION DETAILS	+E/-W	0.0	0.0	-8.0	-80.5
S	S-/N+	0.0	0.0	477.4	-4786.6
	TVD	0.0	9042.5	9520.0	9520.0
	Azi	0.00	0.00	180.96	180.96
			0.00		
	MD	0.0	9042.5	9792.5	4102.3





1200

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"

Sec. 12, T26S-R32E Lea County, NM

3,000 psi BOP Schematic

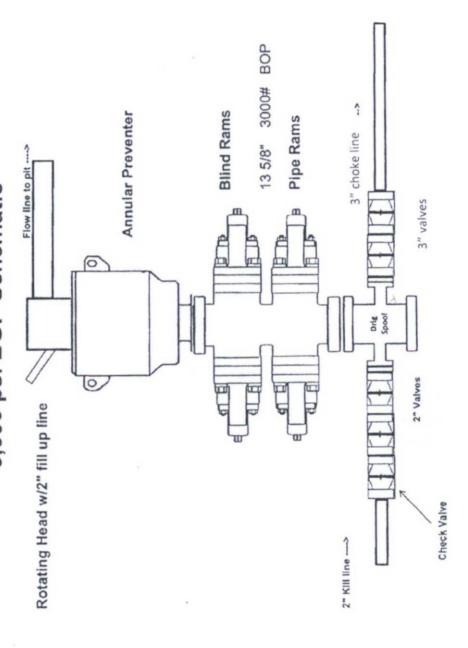
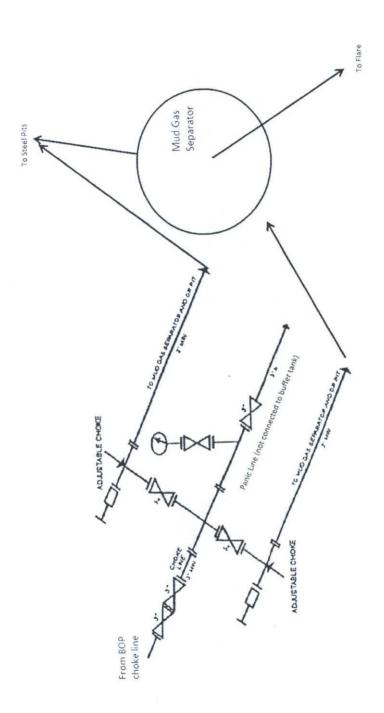


Exhibit A

Sec. 12, T26S-R32E

Lea County, NM



3M choke manifold design