

# COPY

OCD Hobbs

Form 3160-3  
(February 2005)

HOBBS OCD

NOV 30 2015

ATS-15-606

[H]

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM 14492
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name ---
2. Name of Operator BTA Oil Producers, LLC (260297)		7. If Unit or CA Agreement, Name and No. ---
3a. Address 104 S. Pecos Midland, TX 79701		8. Lease Name and Well No. (305301) Mesa 8105 JV-P #26H
3b. Phone No. (include area code) (432) 682-3753		9. API Well No. 30-025 - 42963
4. Location of Well (Report location clearly and in accordance with any State requirements *) At surface 330' FNL & 750' FWL NW/NW Sec. 12 UL -D- At proposed prod. zone 230' FNL & 990' FWL NW/NW Sec. 1 UL -D- UNORTHODOX LOCATION		10. Field and Pool or Exploratory (97903) WC-025G-08 5253235G/LWR BS
11. Sec., T. R. M. or Blk. and Survey or Area Sec. 12, T26S-R32E		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office* 25 miles west from Jal, NM		12. County or Parish Lea
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 230'		13. State NM
16. No. of acres in lease 1960		17. Spacing Unit dedicated to this well 160 acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 348' BHL to BHL (8105 JV-P Mesa #15H)		20. BLM/BIA Bond No. on file NM1195 NMB000849
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3310-GL 3287' per plat		22. Approximate date work will start* 08/01/2015
23. Estimated duration 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:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature Kayla McConnell	Name (Printed/Typed) Kayla McConnell	Date 04/22/2015
Title Regulatory Analyst	Email: kmcconnell@btaoil.com	
Approved by (Signature) Steve Caffey	Name (Printed/Typed)	Date NOV 18 2015
Title FIELD MANAGER	Office 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.  
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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)

K2  
11/30/15

Carlsbad Controlled Water Basin

Subject to General Requirements  
& Special Stipulations AttachedSEE ATTACHED FOR  
CONDITIONS OF APPROVAL

DEC 01 2015

**COPY**



CARLTON BEAL, JR.  
BARRY BEAL  
SPENCER BEAL  
KELLY BEAL  
BARRY BEAL, JR.  
STUART BEAL  
ROBERT DAVENPORT, JR.

**BTA OIL PRODUCERS, LLC**

104 SOUTH PECOS STREET  
MIDLAND, TEXAS 79701-5021  
432-682-3753  
FAX 432-683-0311

**GULF COAST DISTRICT**  
TOTAL PLAZA  
1201 LOUISIANA STREET, STE. 570  
HOUSTON, TEXAS 77002  
713-658-0077 FAX 713-655-0346

**ROCKY MOUNTAIN DISTRICT**  
600 17TH STREET, STE. 2230 SOUTH  
DENVER, COLORADO 80202  
303-534-4404 FAX 303-534-4661

April 22, 2015

Re: CONFIDENTIAL STATUS  
Mesa 8105 JV-P #26H & #23H  
Section 12, T26S-R32E  
Lea County, NM

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
620 East Greene Street  
Carlsbad, NM 88220

Gentlemen:

BTA hereby requests CONFIDENTIAL STATUS for all drilling information, forms and logs for the maximum length of time possible under BLM guidelines.

Should further information be required, please advise.

Respectfully,

A handwritten signature in cursive script that reads 'Kayla McConnell'.

Kayla McConnell  
For BTA Oil Producers

**COPY**



**BTA OIL PRODUCERS, LLC**

104 SOUTH PECOS STREET  
MIDLAND, TEXAS 79701-5021  
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FAX 432-683-0311

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**ROCKY MOUNTAIN DISTRICT**  
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303-534-4404 FAX 303-534-4661

April 22, 2015

Re: CONFIDENTIAL STATUS  
Mesa 8105 JV-P #26H & #23H  
Section 12, T26S-R32E  
Lea County, NM

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION  
DISTRICT I  
1625 N. French Drive  
Hobbs, NM 88240

Gentlemen:

Please be advised we hereby request CONFIDENTIAL STATUS for all eligible forms submitted with the above referenced well for the maximum length of time possible.

Respectfully,

A handwritten signature in cursive script that reads 'Kayla McConnell'.

Kayla McConnell  
For BTA Oil Producers, LLC



## INSTRUCTIONS

**GENERAL:** This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

**ITEM 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

**ITEM 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

**ITEMS 15 AND 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

**ITEM 22:** Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

## NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

**PRINCIPAL PURPOSES:** The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

**ROUTINE USE:** Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

# COPY

## BTA Oil Producers LLC, Mesa 8105 JV-P #26H

Attachment to APD  
BTA Oil Producers, LLC  
Mesa 8105 JV-P #26H  
Sec 12, T26S, R32E  
Lea County, NM

### 1. Geologic Formations

TVD of target	11635	Pilot hole depth	N/A
MD at TD:	16887	Deepest expected fresh water:	175

#### Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	715	Water	
Top of Salt	1360	Salt	
Base of Salt	4475	Salt	
Delaware	4715	Oil/Gas	
Cherry Canyon	5960	Oil/Gas	
Brushy Canyon	7385	Oil/Gas	
Bone Spring	8940	Oil/Gas	
Atoka			
Morrow			
Barnett Shale			
Woodford Shale			
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

HOBBS OGD

NOV 30 2015

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\*H<sub>2</sub>S, water flows, loss of circulation, abnormal pressures, etc.

### 2. Casing Program

See COA

Hole Size	Casing Interval		Csg.Size	Weig ht (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	745840'	13.375"	54.5	J55	STC	1.43	1.26	2.59
12.25"	0	4685	9.625"	40	J55	LTC	1.19	1.89	2.1
8.75"	0	11908	5.5"	17	P110	LTC	1.56	1.6	2.63
7.875"	11908	16887	5.5"	17	P110	LTC	1.56	1.6	1.91
BLM Minimum Safety 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
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> 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 <sup>nd</sup> 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 <sub>2</sub> O 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	1 <sup>st</sup> stage Lead: Class C Blend
	250	14.8	1.33	8	10	1 <sup>st</sup> stage Tail: Class C, circ to surf, 65% excess
Prod.	1000	11.3	2.92	8	14	1 <sup>st</sup> Lead: 50:50 Blend Class H
	950	14.4	1.22	8	10	1 <sup>st</sup> Tail: 50:50 Blend Class H

**BTA Oil Producers LLC, Mesa 8105 JV-P #26H**

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	4185'	20%

Include Pilot Hole Cementing specs:

**Pilot hole depth** N/A

**KOP** 11158

Plug top	Plug Bottom	% Excess	No. Sacks	Wt. lb/gal	Yld ft3/sack	Water gal/sk	Slurry Description and Cement Type

**4. Pressure Control Equipment**

<b>No</b>	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	Type	✓	Tested to:
12-1/4"	13-5/8"	<del>3M</del> <b>5M</b>	Annular	x	50% of working pressure
			Blind Ram	x	<del>3M</del> <b>5M</b>
			Pipe Ram	x	
			Double Ram		
			Other*		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		



# BTA Oil Producers LLC, Mesa 8105 JV-P #26H

\*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.	
	<ul style="list-style-type: none"> <li>N/A</li> </ul>	
	See attached schematic.	

## 5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	745 <del>840</del>	FW Spud	8.5-8.8	35-45	N/C
745	4685	Saturated Brine	10.0-10.2	28-34	N/C
4685	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
---	-----------------------------



**6. Logging and Testing Procedures**

<b>Logging, Coring and Testing.</b>	
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

<b>Additional logs planned</b>	<b>Interval</b>
Resistivity	
Density	
CBL	
X Mud log	Intermediate shoe to TD
PEX	

**7. Drilling Conditions**

<b>Condition</b>	<b>Specify what type and where?</b>
BH Pressure at deepest TVD	5400 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 (H <sub>2</sub> S) monitors will be installed prior to drilling out the surface shoe. If H <sub>2</sub> S 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.	
	H <sub>2</sub> S is present
X	H <sub>2</sub> S 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

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Attachment to APD  
BTA Oil Producers, LLC  
Mesa 8105 JV-P #26H  
Sec 12, T26S, R32E  
Lea County, NM

## **BTA Oil Producers, LLC**

Lea County, NM

Mesa Sec 1 & 12, T26S, R32E

Mesa #26H

Wellbore #1

Plan: Design #1

## **Standard Planning Report**

17 March, 2015





BTA  
Planning Report

Database: EDM 5000.1 Single User Db  
Company: BTA Oil Producers, LLC  
Project: Lea County, NM  
Site: Mesa Sec 1 & 12, T26S, R32E  
Well: Mesa #26H  
Wellbore: Wellbore #1  
Design: Design #1

Local Co-ordinate Reference: Well Mesa #26H  
TVD Reference: GL @ 3287.0usft (Original Well Elev)  
MD Reference: GL @ 3287.0usft (Original Well Elev)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

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		Using geodetic scale factor

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

Well	Mesa #26H					
Well Position	+N/-S	-654.3 usft	Northing:	387,703.50 usft	Latitude:	32° 3' 50.340 N
	+E/-W	-1,417.6 usft	Easting:	716,613.50 usft	Longitude:	103° 38' 2.723 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,287.0 usft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.77	60.08	48,690

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	1.02	

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	
11,157.5	0.00	0.00	11,157.5	0.0	0.0	0.00	0.00	0.00	0.00	
11,907.5	90.00	1.02	11,635.0	477.4	8.5	12.00	12.00	0.00	1.02	
16,886.9	90.00	1.02	11,635.0	5,456.0	97.5	0.00	0.00	0.00	0.00	Mesa #26H BHL

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## BTA Planning Report

Database: EDM 5000.1 Single User Db  
Company: BTA Oil Producers, LLC  
Project: Lea County, NM  
Site: Mesa Sec 1 & 12, T26S, R32E  
Well: Mesa #26H  
Wellbore: Wellbore #1  
Design: Design #1

Local Co-ordinate Reference: Well Mesa #26H  
TVD Reference: GL @ 3287.0usft (Original Well Elev)  
MD Reference: GL @ 3287.0usft (Original Well Elev)  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

### 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
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
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	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	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





BTA  
Planning Report

Database: EDM 5000.1 Single User Db  
Company: BTA Oil Producers, LLC  
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Well: Mesa #26H  
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North Reference: Grid  
Survey Calculation Method: Minimum Curvature

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)
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
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
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,600.0	0.0	0.0	0.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	0.00	0.00	0.00

COPY

# BTA Planning Report

Database: EDM 5000.1 Single User Db  
 Company: BTA Oil Producers, LLC  
 Project: Lea County, NM  
 Site: Mesa Sec 1 & 12, T26S, R32E  
 Well: Mesa #26H  
 Wellbore: Wellbore #1  
 Design: Design #1

Local Co-ordinate Reference: Well Mesa #26H  
 TVD Reference: GL @ 3287.0usft (Original Well Elev)  
 MD Reference: GL @ 3287.0usft (Original Well Elev)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## 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)
10,800.0	0.00	0.00	10,800.0	0.0	0.0	0.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,900.0	0.0	0.0	0.0	0.00	0.00	0.00
11,000.0	0.00	0.00	11,000.0	0.0	0.0	0.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,100.0	0.0	0.0	0.0	0.00	0.00	0.00
11,157.5	0.00	0.00	11,157.5	0.0	0.0	0.0	0.00	0.00	0.00
11,200.0	5.10	1.02	11,199.9	1.9	0.0	1.9	12.00	12.00	0.00
11,300.0	17.10	1.02	11,297.9	21.1	0.4	21.1	12.00	12.00	0.00
11,400.0	29.10	1.02	11,389.7	60.2	1.1	60.3	12.00	12.00	0.00
11,500.0	41.10	1.02	11,471.4	117.6	2.1	117.6	12.00	12.00	0.00
11,600.0	53.10	1.02	11,539.3	190.7	3.4	190.8	12.00	12.00	0.00
11,700.0	65.10	1.02	11,590.6	276.4	4.9	276.4	12.00	12.00	0.00
11,800.0	77.10	1.02	11,622.9	370.8	6.6	370.8	12.00	12.00	0.00
11,900.0	89.10	1.02	11,634.9	469.9	8.4	469.9	12.00	12.00	0.00
11,907.5	90.00	1.02	11,635.0	477.4	8.5	477.5	12.00	12.00	0.00
12,000.0	90.00	1.02	11,635.0	569.8	10.2	569.9	0.00	0.00	0.00
12,100.0	90.00	1.02	11,635.0	669.8	12.0	669.9	0.00	0.00	0.00
12,200.0	90.00	1.02	11,635.0	769.8	13.8	769.9	0.00	0.00	0.00
12,300.0	90.00	1.02	11,635.0	869.8	15.5	869.9	0.00	0.00	0.00
12,400.0	90.00	1.02	11,635.0	969.8	17.3	969.9	0.00	0.00	0.00
12,500.0	90.00	1.02	11,635.0	1,069.8	19.1	1,069.9	0.00	0.00	0.00
12,600.0	90.00	1.02	11,635.0	1,169.7	20.9	1,169.9	0.00	0.00	0.00
12,700.0	90.00	1.02	11,635.0	1,269.7	22.7	1,269.9	0.00	0.00	0.00
12,800.0	90.00	1.02	11,635.0	1,369.7	24.5	1,369.9	0.00	0.00	0.00
12,900.0	90.00	1.02	11,635.0	1,469.7	26.3	1,469.9	0.00	0.00	0.00
13,000.0	90.00	1.02	11,635.0	1,569.7	28.1	1,569.9	0.00	0.00	0.00
13,100.0	90.00	1.02	11,635.0	1,669.7	29.8	1,669.9	0.00	0.00	0.00
13,200.0	90.00	1.02	11,635.0	1,769.6	31.6	1,769.9	0.00	0.00	0.00
13,300.0	90.00	1.02	11,635.0	1,869.6	33.4	1,869.9	0.00	0.00	0.00
13,400.0	90.00	1.02	11,635.0	1,969.6	35.2	1,969.9	0.00	0.00	0.00
13,500.0	90.00	1.02	11,635.0	2,069.6	37.0	2,069.9	0.00	0.00	0.00
13,600.0	90.00	1.02	11,635.0	2,169.6	38.8	2,169.9	0.00	0.00	0.00
13,700.0	90.00	1.02	11,635.0	2,269.6	40.6	2,269.9	0.00	0.00	0.00
13,800.0	90.00	1.02	11,635.0	2,369.6	42.3	2,369.9	0.00	0.00	0.00
13,900.0	90.00	1.02	11,635.0	2,469.5	44.1	2,469.9	0.00	0.00	0.00
14,000.0	90.00	1.02	11,635.0	2,569.5	45.9	2,569.9	0.00	0.00	0.00
14,100.0	90.00	1.02	11,635.0	2,669.5	47.7	2,669.9	0.00	0.00	0.00
14,200.0	90.00	1.02	11,635.0	2,769.5	49.5	2,769.9	0.00	0.00	0.00
14,300.0	90.00	1.02	11,635.0	2,869.5	51.3	2,869.9	0.00	0.00	0.00
14,400.0	90.00	1.02	11,635.0	2,969.5	53.1	2,969.9	0.00	0.00	0.00
14,500.0	90.00	1.02	11,635.0	3,069.4	54.9	3,069.9	0.00	0.00	0.00
14,600.0	90.00	1.02	11,635.0	3,169.4	56.6	3,169.9	0.00	0.00	0.00
14,700.0	90.00	1.02	11,635.0	3,269.4	58.4	3,269.9	0.00	0.00	0.00
14,800.0	90.00	1.02	11,635.0	3,369.4	60.2	3,369.9	0.00	0.00	0.00
14,900.0	90.00	1.02	11,635.0	3,469.4	62.0	3,469.9	0.00	0.00	0.00
15,000.0	90.00	1.02	11,635.0	3,569.4	63.8	3,569.9	0.00	0.00	0.00
15,100.0	90.00	1.02	11,635.0	3,669.3	65.6	3,669.9	0.00	0.00	0.00
15,200.0	90.00	1.02	11,635.0	3,769.3	67.4	3,769.9	0.00	0.00	0.00
15,300.0	90.00	1.02	11,635.0	3,869.3	69.1	3,869.9	0.00	0.00	0.00
15,400.0	90.00	1.02	11,635.0	3,969.3	70.9	3,969.9	0.00	0.00	0.00
15,500.0	90.00	1.02	11,635.0	4,069.3	72.7	4,069.9	0.00	0.00	0.00
15,600.0	90.00	1.02	11,635.0	4,169.3	74.5	4,169.9	0.00	0.00	0.00
15,700.0	90.00	1.02	11,635.0	4,269.2	76.3	4,269.9	0.00	0.00	0.00
15,800.0	90.00	1.02	11,635.0	4,369.2	78.1	4,369.9	0.00	0.00	0.00
15,900.0	90.00	1.02	11,635.0	4,469.2	79.9	4,469.9	0.00	0.00	0.00



# COPY

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North Reference: Grid  
Survey Calculation Method: Minimum Curvature

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)
16,000.0	90.00	1.02	11,635.0	4,569.2	81.7	4,569.9	0.00	0.00	0.00
16,100.0	90.00	1.02	11,635.0	4,669.2	83.4	4,669.9	0.00	0.00	0.00
16,200.0	90.00	1.02	11,635.0	4,769.2	85.2	4,769.9	0.00	0.00	0.00
16,300.0	90.00	1.02	11,635.0	4,869.2	87.0	4,869.9	0.00	0.00	0.00
16,400.0	90.00	1.02	11,635.0	4,969.1	88.8	4,969.9	0.00	0.00	0.00
16,500.0	90.00	1.02	11,635.0	5,069.1	90.6	5,069.9	0.00	0.00	0.00
16,600.0	90.00	1.02	11,635.0	5,169.1	92.4	5,169.9	0.00	0.00	0.00
16,700.0	90.00	1.02	11,635.0	5,269.1	94.2	5,269.9	0.00	0.00	0.00
16,800.0	90.00	1.02	11,635.0	5,369.1	96.0	5,369.9	0.00	0.00	0.00
16,886.9	90.00	1.02	11,635.0	5,456.0	97.5	5,456.9	0.00	0.00	0.00
Mesa #26H BHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Mesa #26H BHL	0.00	0.00	11,635.0	5,456.0	97.5	393,159.30	716,711.00	32° 4' 44.323 N	103° 38' 1.179 W
- plan hits target center									
- Point									

Attachment to APD  
 BTA Oil Producers, LLC  
 Mesa 8105 JV-P #23H  
 Sec 12, T26S, R32E  
 Lea County, NM

### WELL DETAILS: Mesa #26H

+N/-S	+E/-W	North	Ground Level:	Longitude
0.0	0.0	387703.50	3287.0	103° 38' 2.723 W
			Easting	
			716613.50	
			Latitude	
			32° 3' 50.340 N	

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

System Datum: Ground Level

## BTA Oil Producers, LLC

**SITE DETAILS:** Mesa Sec 1 & 12, T26S, R32E

Site Centre Northing: 388357.80  
 Easting: 718031.00

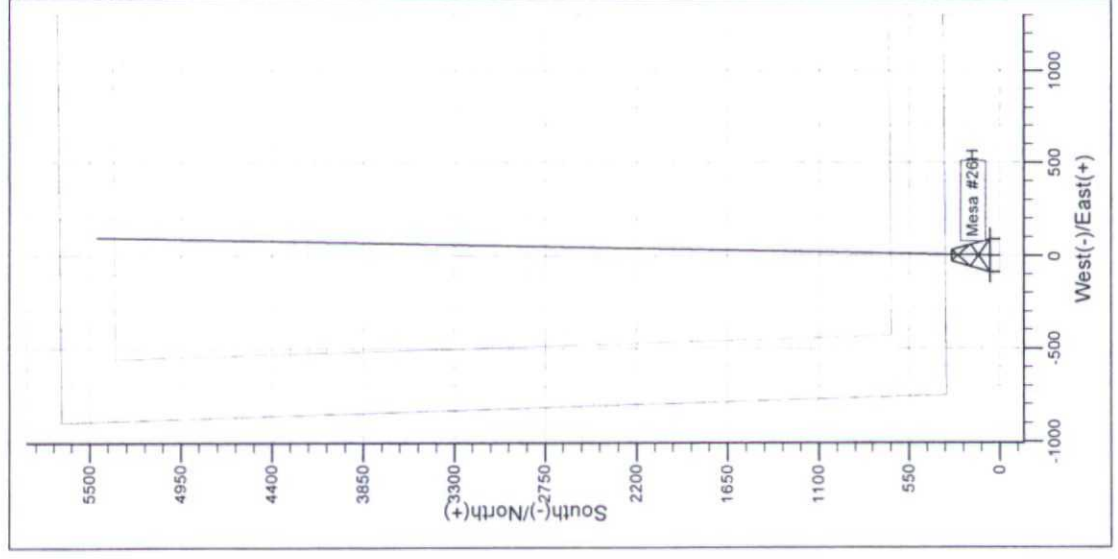
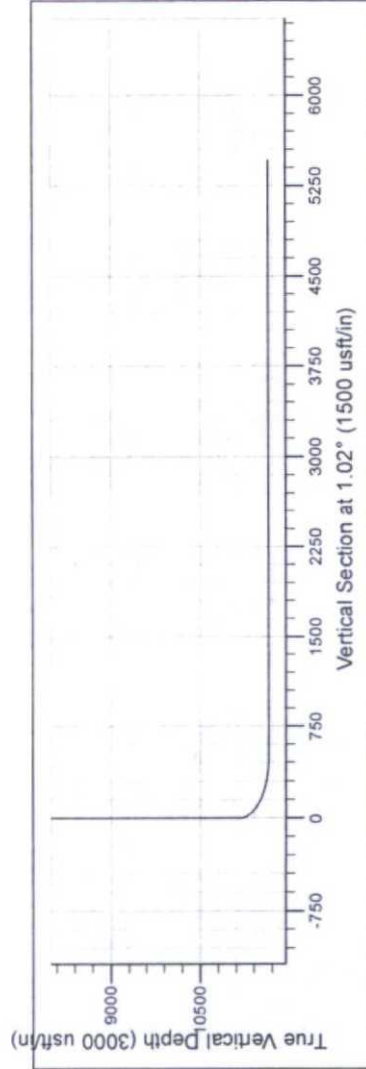
Positional Uncertainty: 0.0  
 Convergence: 0.37  
 Local North: Grid

### CASING DETAILS

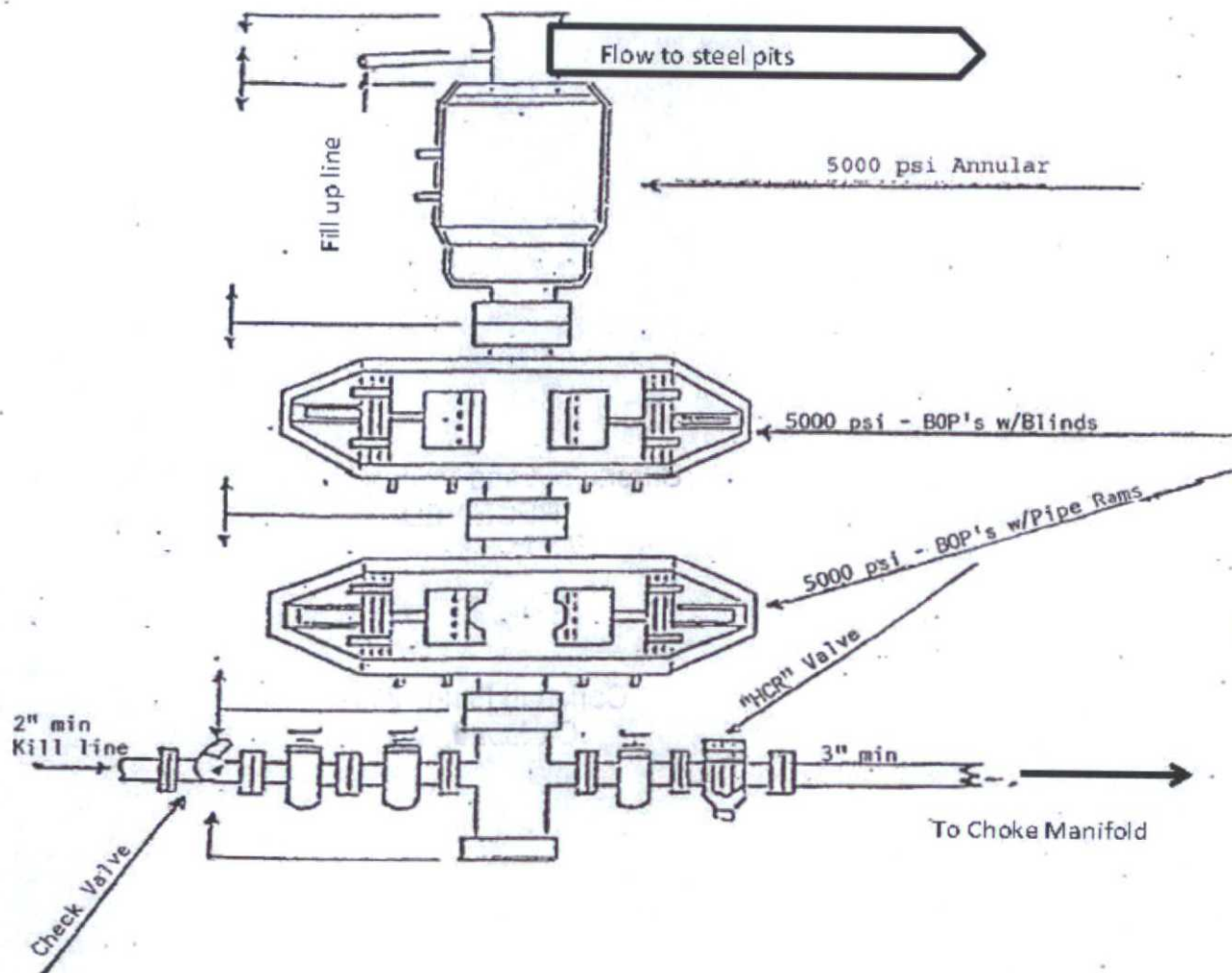
No casing data is available

### 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	
11157.5	0.00	0.00	11157.5	0.0	0.0	0.00	0.00	0.0	
11907.5	90.00	1.02	11635.0	477.4	8.5	12.00	1.02	477.5	
16886.9	90.00	1.02	11635.0	5456.0	97.5	0.00	0.00	5456.9	Mesa #26H BHL



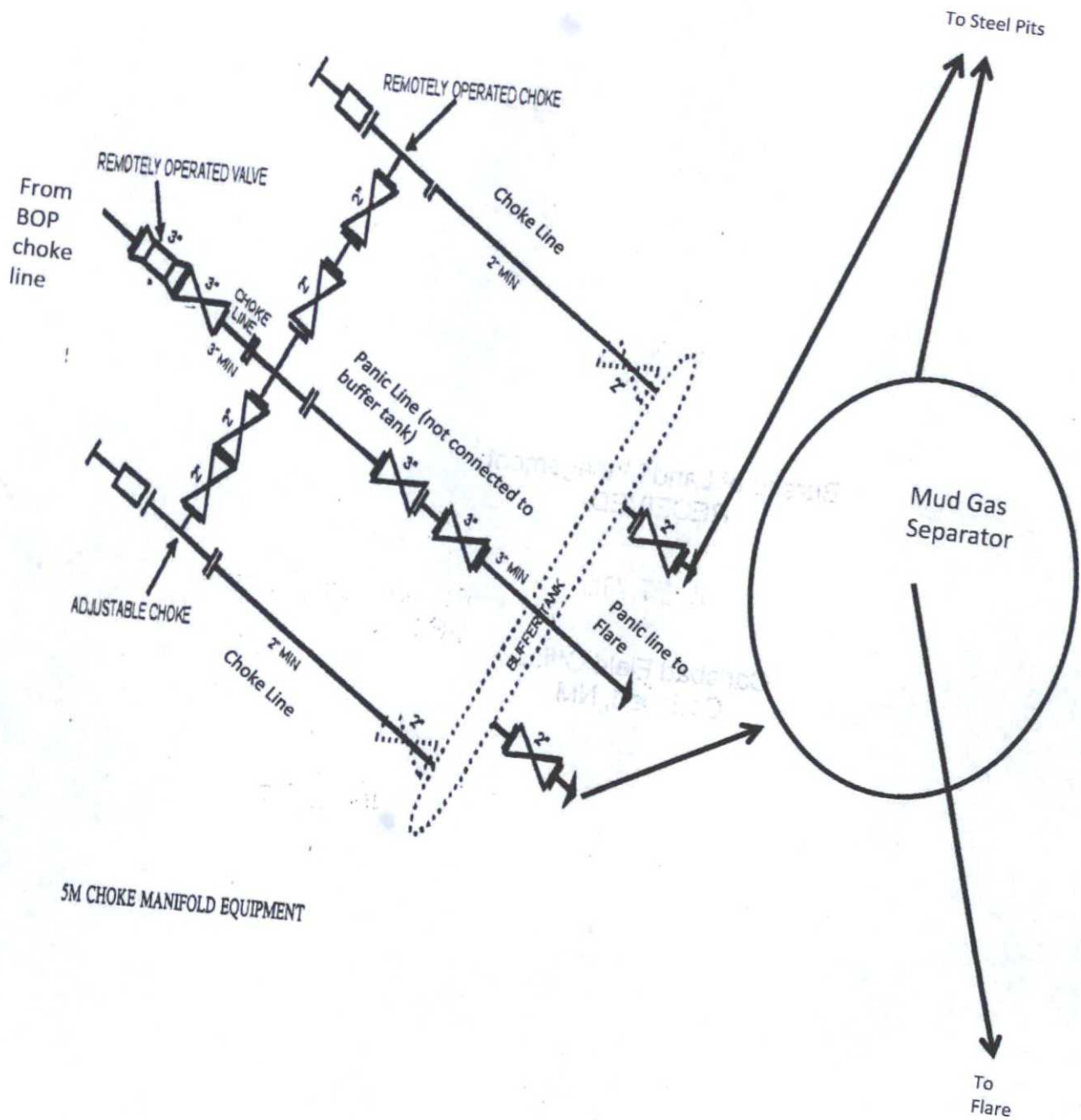
# 13-5/8" 5,000 PSI BOP



BTA OIL PRODUCERS, LLC

Attachment to APD





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