Form 3160-3		FORM APPROVED OMB No. 1004-0137
(June 2015) UNITED STATES		Evolution January 21, 2019
DEPARTMENT OF THE INTE BUREAU OF LAND MANAGE		5. Lease Serial No. NMNM0160973
APPLICATION FOR PERMIT TO DRILL	LOR REENTER 0.2020	6. If Indian, Allotee or Tribe Name
1a. Type of work: Image: Drill	ER BECEIVE	If Unit or CA Agreement, Name and No. NMNM082045
Ib. Type of Well: ✓ Oil Well ☐ Gas Well ☐		8. Lease Name and Well No.
1c. Type of Completion: Hydraulic Fracturing Single 2	Zone Multiple Zone	MESA B 8115 FED COM 14H (3266 1944)
2. Name of Operator BTA OIL PRODUCERS LLC (260297)	N	9. API-Well No. 30-6225-46739
3a. Address 3b. 1	Phone No. (include area code) 2)682-3753	10 Field and Paol, or Exploratory 78097 SANDERS TANK UPPER WOLFCAMP
4. Location of Well (Report location clearly and in accordance with a	ny State requirements.*)	11. Sec., T. R. M. or Blk. and Survey or Area
At surface NENE / 400 FNL / 800 FEL / LAT 32.064198 / LC	DNG -103.605431	SEC 77 1265 / R33E / NMP
At proposed prod. zone SESE / 50 FSL / 330 FEL / LAT 32.05	50927 / LONG -103.603902	
14. Distance in miles and direction from nearest town or post office* 30 miles		12. County or Parish 13. State LEA NM
location to nearest 415 feet	No of acres in lease 17. Špaci 8,72 (60	B Unit dedicated to this well
18. Distance from proposed location* 19.	$\sum \left($	BIA Bond No. in file 18001711
	Approximate date work will start*	23. Estimated duration
	0/2019	30 days
24	. Attachments	l
The following, completed in accordance with the requirements of Onst (as applicable)	ore Oil and Gas Order No. 1, and the F	Hydraulic Fracturing rule per 43 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. 	4. Bond to cover the operation Item 20 above).	s unless covered by an existing bond on file (see
3. A Surface Use Plan (if the location is on National Forest System Lar SUPO must be filed with the appropriate Forest Service Office)	ids, the 5. Operator certification.	mation and/or plans as may be requested by the
25. Signature	Name (Printed/Typed)	Date
(Electronic Submission)	Sammy Hajar / Ph: (432)682-3753	12/07/2018
Regulatory Analyst		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 12/13/2019
Title Assistant Field Manager Lands & Minerals	Office CARLSBAD	
Application approval does not warrant or certify that the applicant hold applicant to conduct operations thereon.		in the subject lease which would entitle the
Conditions of approval, if any, are attached.	· · · · · · · · · · · · · · · · · · ·	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make in of the United States any false, fictitious or fraudulent statements or repu		urisdiction.
GCP Rec 01/10/2020		V 2 2020
		[] [] I
	CONDITIONS	KZ 17 2020
) WITH CONDITIONS	
(Continued on page 2)		*(Instructions on page 2)
(commune on page 2)	Date: 12/13/2019	(manuellons on page 2)

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 I: 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.

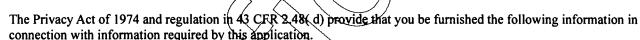
ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal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

ITEMS 15 AND 18: If well is to be, or has been directionany 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.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

VOTICES



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 wen 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 win 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:

The BLM conects this information to anow 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. The 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 8 hours 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

Approval Date: 12/13/2019

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

SHL: NENE / 400 FNL / 800 FEL / TWSP: 26S / RANGE: 33E / SECTION: 7 / LAT: 32.064198 / LONG: -103.605431 (TVD: 0 feet)
 PPP: NENE / 100 FNL / 330 FEL / TWSP: 26S / RANGE: 33E / SECTION: 7 / LAT: 32.065023 / LONG: -103.6039 PA (TVD: 12020 feet, VID: 12061 feet)
 BHL: SESE / 50 FSL / 330 FEL / TWSP: 26S / RANGE: 33E / SECTION: 7 / LAT: 32.050927 / LONG: -103.603902 (TVD: 12435 feet, ND: 17482 feet)

BLM Point of Contact

Name: Tanja Baca Title: Admin Support Assistant Phone: 5752345940 Email: tabaca@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above Visted Bureau of Land Management office for further information.

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U.S. Department of the			12/17/2
BUREAU OF LAND MANAG	SEMENT		E.
Operator Certif	ication		
proposed herein; that I an Federal laws applicable to knowledge, true and corre conformity with this APD company I represent, am	n familiar with the conditions wh o this operation; that the statem ect; and that the work associate package and the terms and con	vision, have inspected the drill site and a nich currently exist; that I have full known ents made in this APD package are, to a with the operations proposed herein v aditions under which it is approved. I als conducted under this application. These of false statements.	ledge of state and the best of my vill be performed in so certify that I, or the
NAME: Sammy Hajar		Signed on: 12/04	4/2018
Title: Regulatory Analyst			
Street Address: 104 S. F	Pecos		
City: Midland	State: TX	Zip : 79701	
Phone: (432)682-3753			

Field Representative

Email address: shajar@btaoil.com

Representative Name:

Street Address: 104 South Pecos

State: TX

City: Midland

Phone: (432)682-3753

Email address: neaton@btaoil.com

Zip: 79701

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U.S. Department of the Interior BUREAU OF LAND MANAGEMENT	12/17/2019								
APD ID: 10400036837	S	ubmission Date: 12	2/07/2018						
Operator Name: BTA OIL PRODUCERS LLC	;								
Well Name: MESA B 8115 FED COM	v	/ell Number: 14H		Show Final Text					
Well Type: OIL WELL	v	/ell Work Type: Dril	I						
Section 1 - General									
APD ID: 10400036837	 Tie to previous	NOS? N	Sub	mission Date: 12/07/2018					
BLM Office: CARLSBAD	User: Sammy H			ulatory Analyst					
Federal/Indian APD: FED	-	•	-	deral or Indian? FED					
Lease number: NMNM0160973	Lease Acres: 1								
Surface access agreement in place?	Allotted?	Reserv	ation:						
Agreement in place? YES		an agreement: FED	ERAL						
Agreement number: NMNM082045		0							
Agreement name:									
Keep application confidential? YES									
Permitting Agent? NO	APD Operator:	BTA OIL PRODUCE	ERS LLC						
Operator letter of designation:									
Operator Info	٦								
Operator Organization Name: BTA OIL PRO									
Operator Address: 104 S. Pecos									
Operator PO Box:		Zip:	79701						
Operator City: Midland State: T	- Y								
Operator Phone: (432)682-3753	~								
Operator Internet Address:									
Section 2 - Well Informat	ion								
Well in Master Development Plan? NO	Maste	er Development Pla	n name:						
Nell in Master SUPO? NO	Maste	er SUPO name:							
Well in Master Drilling Plan? NO	Maste	er Drilling Plan nam	e:						
Well Name: MESA B 8115 FED COM	Well	Number: 14H	Well	API Number:					
Field/Pool or Exploratory? Field and Pool	Field	Name: SANDERS T		Name: UPPER					
s the proposed well in an area containing o	ther mineral res		WOL	FCAMP					

Pane 1 of 3

Well Name: MESA B 8115 FED COM

Well Number: 14H

Is the proposed well in an area containing other mineral resources? NONE

Is the proposed well in a Helium produ	iction area? N	Use Existing Well Pad? NO	C	New surface disturbance?		
Type of Well Pad: MULTIPLE WELL		Multiple Well Pad Name: N	IESA	Number: 14-17		
Well Class: HORIZONTAL		B 8115 FED COM Number of Legs:				
Well Work Type: Drill						
Well Type: OIL WELL						
Describe Well Type:						
Well sub-Type: INFILL						
Describe sub-type:						
Distance to town: 30 Miles	Distance to ne	arest well: 2615 FT Di	stance	e to lease line: 415 FT		
Reservoir well spacing assigned acres	Measurement:	160 Acres				
Well plat: Mesa_B_8115_Fed_Com_	14H_C102_201	91120140500.pdf				
Well work start Date: 05/10/2019		Duration: 30 DAYS				

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number:

Vertical Datum: NGVD29

Reference Datum:

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	
SHL	400	FNL	800	FEL	26S	33E	7	Aliquot	32.06419	1					NMNM		0	0	
Leg								NENE	8	103.6054 31		MEXI CO	MEXI CO		016097 3	2			I
#1							 	ļ		J.	ļ	<u> </u>	<u> </u>		5				
KOP	100	FNL	330	FEL	26S	33E	7	Aliquot	32.06502					F	NMNM	-	119	119	1
Leg								NENE	3	103.6039		MEXI	MEXI		016097	861	50	12	1
#1										14		co	co		3	0			1
PPP	100	FNL	330	FEL	26S	33E	7	Aliquot	32.06502	-	LEA	NEW	NEW	F	NMNM	-	120	120	_
Leg								NENE	3	103.6039		MEXI	MEXI		016097	871	61	20	ı
#1-1										14		со	со		3	8			

Pane 2 of 3

Well Name: MESA B 8115 FED COM

Well Number: 14H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	DM	DVT	
EXIT Leg #1	100	FSL	330	FEL	26S	33E	7	Aliquot SESE	32.05106 4	- 103.6039 02	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	- 918 3	172 02	124 85	
BHL Leg #1	50	FSL	330	FEL	26S	33E	7	Aliquot SESE	32.05092 7	- 103.6039 02	LEA	NEW MEXI CO		F	FEE	- 918 3	174 82	124 85	

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AWLINDD

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

APD ID: 10400036837

Submission Date: 12/07/2018

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA B 8115 FED COM

Well Type: OIL WELL

Well Number: 14H



12/17/2019

Drilling Plan Data Report

States A

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	QUATERNARY	3302	0	0	ALLUVIUM	NONE	N
2	RUSTLER	2488	814	814		NONE	N
3	TOP SALT	1460	1842	1842		NONE	N
4	BASE OF SALT	-1192	4494	4494		NONE	N
5	DELAWARE	-1439	4741	4741		NATURAL GAS,OIL	N
6	BELL CANYON	-1473	4775	4775		NATURAL GAS,OIL	N
7	CHERRY CANYON	-2751	6053	6053		NATURAL GAS,OIL	N
8	BRUSHY CANYON	-4171	7473	7473		NATURAL GAS,OIL	N
9	BONE SPRING LIME	-5668	8970	8970		NATURAL GAS,OIL	N
10	FIRST BONE SPRING SAND	-6627	9929	9929		NATURAL GAS,OIL	N
11	BONE SPRING 2ND	-7192	10494	10494		NATURAL GAS,OIL	N
12	BONE SPRING 3RD	-8293	11595	11595		NATURAL GAS,OIL	N
13	WOLFCAMP	-8718	12020	12020		NATURAL GAS,OIL	Y

Section 2 - Blowout Prevention

Well Name: MESA B 8115 FED COM

Weil Number: 14H

Pressure Rating (PSI): 10M

Rating Depth: 14000

Equipment: The blowout preventer equipment (BOP) shown in Exhibit A will consist of a (10M system) double ram type (10,000 psi WP) preventer and a bag-type (Hydril) preventer (5000 psi WP). Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 5" drill pipe rams on bottom. The BOP's will be installed on the 13-3/8" surface casing and utilized continuously until total depth is reached. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. A remote kill line will be used for the 10M system as per onshore order #2. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 10,000 psi WP rating. The 5M annular on the 10M system will be tested to 100% of rated working pressure. **Requesting Variance?** YES

Variance request: A Choke Hose Variance is requested. See attached test chart and spec. 5M annular variance requested.

Testing Procedure: 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 driller's log. All BOP's and associated equipment will be tested as per BLM drilling Operations Order No. 2.

Choke Diagram Attachment:

Choke_Hose___Test_Chart_and_Specs_20181129153440.pdf

10M_choke_mannifold_20181129153440.pdf

BOP Diagram Attachment:

5M_annular_well_control_plan_for_BLM_20181129153535.docx

BLM_10M_BOP_with_5M_annular_20190207095837.pdf

10M_annular_variance__20190207095848.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.7 5	10.75	NEW	API	N	0	890	0	890			890	J-55	40.5	ST&C	4.1	8.1	DRY	11.7	DRY	17.5
2	INTERMED IATE	9.87 5	7.625	NEW	API	Y	0	8007	0	8000				Р- 110	29.7	BUTT	1.4	2.4	DRY	4	DRY	4
3	PRODUCTI ON	6.75	5.5	NEW	API	Y	0	11701	0	11412			11701	P- 110	20	Βυττ	1.3	1.5	DRY	2.9	DRY	2.7
4	INTERMED IATE	8.75	7.625	NEW	API	Y	8007	11901	8000	11862			3894	P- 110	29.7	Βυττ	1.7	1.6	DRY	2.7	DRY	2.7
5	PRODUCTI ON	6.75	5.0	NEW	API	Y	11701	17482	11663	12485			5781	P- 110	18	Βυττ	1.3	1.4	DRY	1.9	DRY	1.8

Well Name: MESA B 8115 FED COM

Well Number: 14H

Casing Attachments	
Casing ID: 1	String Type: SURFACE
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assum	ptions and Worksheet(s):
New_Mesa_B_14	H_casing_assumption_20191120150142.JPG
Casing ID: 2	String Type: INTERMEDIATE
Inspection Document:	
Spec Document:	
Tapered String Spec:	
7_5_8_tapered_s	tring_spec_9_7_8_hole_20191120145030.jpg
Casing Design Assum	ptions and Worksheet(s):
New_Mesa_B_14	H_casing_assumption_20191120150134.JPG
Casing ID: 3	String Type: PRODUCTION
Inspection Document:	
Spec Document:	
Tapered String Spec:	
5.5_tapered_strin	g_spec_20191120145353.jpg

Casing Design Assumptions and Worksheet(s):

New_Mesa_B_14H_casing_assumption_20191120150151.JPG

Well Name: MESA B 8115 FED COM

Well Number: 14H

Casing Attachments

Casing ID: 4

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

7_5_8_tapered_string_spec_20191120145220.jpg

Casing Design Assumptions and Worksheet(s):

New Mesa B_14H_casing_assumption_20191120150159.JPG

Casing ID: 5 String Type: PRODUCTION

Inspection Document:

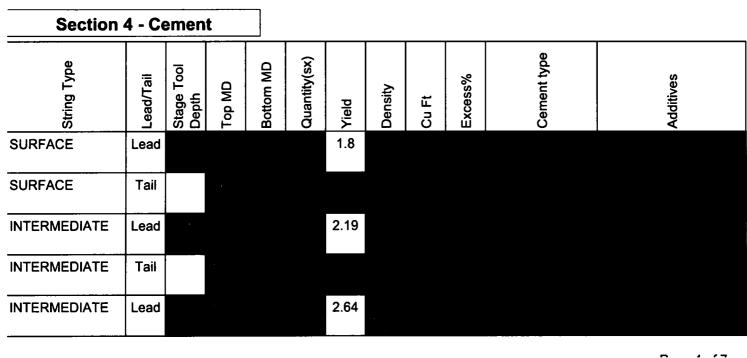
Spec Document:

Tapered String Spec:

5_tapered_string_spec_20191120145526.jpg

Casing Design Assumptions and Worksheet(s):

New_Mesa_B_14H_casing_assumption_20191120150205.JPG



Operator Name:	ΒΤΑ ΟΙ	L PRO	DUCE	RS LLC	2									
Well Name: MES	SA B 81'	15 FED	СОМ				Well Number: 14H							
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives			
INTERMEDIATE	Tail													
PRODUCTION	Lead					0								
			-											
PRODUCTION	Lead					1.27								
Section	5 - Ci	rcula	ting	Medi	um									
Mud System Type	: Close	d												
Will an air or gas	system	be Use	d? N(C										

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	890	OTHER : FW Spud	8.3	8.4							
890	1190 1	OTHER : DBE	9	9.4							
1190 1	1248 5	OIL-BASED MUD	11	14							

Well Name: MESA B 8115 FED COM

Well Number: 14H

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Drill Stem Tests will be based on geological sample shows.

List of open and cased hole logs run in the well:

CBL,GR,MUDLOG

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 9089

Anticipated Surface Pressure: 6342.3

Anticipated Bottom Hole Temperature(F): 181

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

H2S_Plan_20181129153648.pdf H2S_Equipment_Schematic_20181129153733.pdf BTA Oil Producers LLC EMERGENCY CALL LIST 20190207150839.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Mesa_B__14H_directional_plan_20191120152019.pdf

Mesa_B__14H_Wall_plot_20191120152019.pdf

Mesa_B_8115_Fed_Com_14H_Gas_Capture_Plan_20191120152031.pdf

Other proposed operations facets description:

A variance is requested for a Multi Bowl Wellhead. See the attached schematic and running procedure. *All strings will be kept 1/3 full while running.

Other proposed operations facets attachment:

Other Variance attachment:

Multi_Bowl_Diagram_20181129153852.pdf Casing_Head_Running_Procedure_20181129153916.pdf

BTA OIL PRODUCERS LLC

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. <u>HYDROGEN SULFIDE TRAINING</u>

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. <u>H₂S SAFETY EQUIPMENT AND SYSTEMS</u>

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H2S. If H2S greater than 100 ppm is encountered in the gas stream we will shut in and install H2S equipment.

a. Well Control Equipment:

Flare line.

Choke manifold with remotely operated choke.

Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

 b. Protective equipment for essential personnel: Mark II Surviveair 30-minute units located in the dog house and at briefing areas.

c. H2S detection and monitoring equipment:

2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.

- Visual warning systems:
 Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program: The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
 All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication: Company vehicles equipped with cellular telephone.

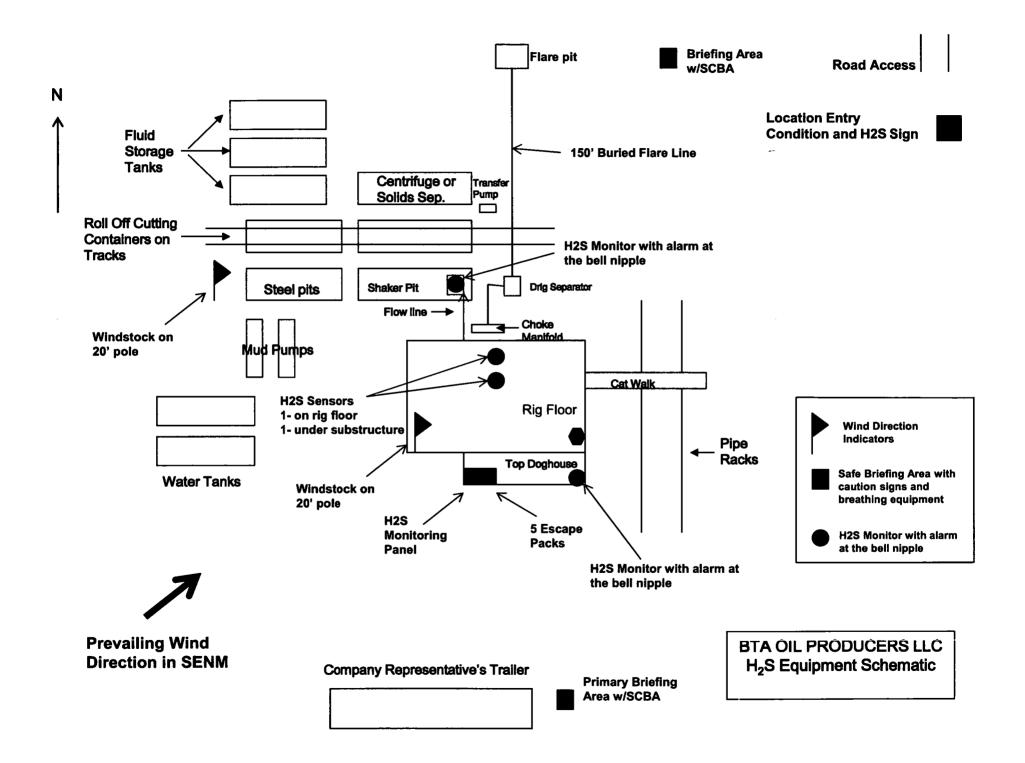
WARNING

YOU ARE ENTERING AN H₂S AREA AUTHORIZED PERSONNEL ONLY

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CK WITH BTA OIL PRODUCERS LLC FOREMAN AT MAIN OFFICE

BTA OIL PRODUCERS LLC

1-432-682-3753



EMERGENCY CALL LIST

	OFFICE	MOBILE
BTA Oil Producers LLC OFFICE	432-682-3753	
BEN GRIMES, Operations	432-682-3753	432-559-4309
NICK EATON, Drilling	432-682-3753	432-260-7841
TRACE WOHLFAHRT, Completions	432-682-3753	

EMERGENCY RESPONSE NUMBERS

	OFFICE
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

BTA Oil Producers, LLC

Lea County, NM (NAD 83) Mesa B Mesa B #14H

Wellbore #1

Plan: Design #1

Standard Planning Report

06 November, 2019

Microsoft Planning Report

Well Mesa B #14H Old Local Co-ordinate Reference: Database: Company: **BTA Oil Producers, LLC** GL @ 3282.0usft **TVD Reference:** Lea County, NM (NAD 83) Project: **MD Reference:** GL @ 3282.0usft Mesa R Site: Grid North Reference: Mesa B #14H Minimum Curvature Wall **Survey Calculation Method:** Wellbore: Wellbore #1 Design #1 Design: Lea County, NM (NAD 83), Lea County, NM Project US State Plane 1983 System Datum: Ground Level Map System: North American Datum 1983 Geo Datum: New Mexico Eastern Zone Using geodetic scale factor Map Zone: Site Mesa B Northing: 383,154.37 usft 32° 3' 4.704 N Site Position: Latitude: Мар Easting: 765,479,20 usft Longitude: 103° 36' 35,543 W From: **Position Uncertainty:** 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.38 Well Mesa B #14H Northing: 387,853.00 usft 32° 3' 51.110 N Well Position +N/-S 4,698.8 usft Latitude: 766.824.00 usft 103° 36' 19,550 W +F/.W 1 344 8 usft Easting: Longitude: **Position Uncertainty** 0.0 usft Wellhead Elevation: 0.0 usft **Ground Level:** 3,290.0 usft Wellbore Wellbore #1 Magnetics Model Name Sample Date Declination Dip Angle **Field Strength** (°) (°) (nT) IGRF200510 12/31/2009 7.75 60.09 48,694.05435473 Design #1 Design Audit Notes: PROTOTYPE 0.0 Version: Phase: Tie On Depth: +E/-W Vertical Section: Depth From (TVD) +N/-S Direction (usft) (usft) (usft) (°) 174.01 0.0 0.0 0.0 11/6/2019 **Plan Survey Tool Program** Date **Depth From Depth To** (usft) (usft) Survey (Wellbore) Tool Name Remarks 0.0 17,481.9 Design #1 (Wellbore #1) 1 **Plan Sections** Vertical Dogleg Build Measured Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate TFO (usft) (usft) (°/100usft) (°/100usft) (°/100usft) (usft) (°) (°) (usft) Target (°) 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 0.00 0.00 2.000.0 0.00 0.00 2,000.0 0.0 0.0 0.00 0.00 0.00 0.00 51.04 2,375.0 7.50 51.04 2,373.9 15.4 19.1 2.00 2.00 0.00 0.00 0.00 0.00 0.00 7.50 364.6 450.9

11/6/2019 9:21:20AM

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179.60

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6,966.4

11.862.0

11,912.0

12.485.0

12,485.0

6,630.0

7,005.0

11,900.5

11,950.6

12,850.6

17,481.9

470.0

470.0

470.0

474.0

506.0

380.0

380.0

380.0

-192.9

-4.824.2

-2.00

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0.00

10.00

0.00

COMPASS 5000.15 Build 91

0.00 Mesa B #14H BHL

180.00

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0.00

179.60

0.00

0.00

0.00

0.00

0.00

Planning Report

Database:	Old
Company:	BTA Oil Producers, LLC
Project:	Lea County, NM (NAD 83)
Site:	Mesa B
Well:	Mesa B #14H
Wellbore:	Wellbore #1
Design:	Design #1

Planned Survey

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Mesa B #14H GL @ 3282.0usft GL @ 3282.0usft Grid Minimum Curvature

Measured						Vertical	Dogleg	Build	Tum
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	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	2.00	51.04	2,100.0	1.1	1.4	-0.9	2.00	2.00	0.00
2,200.0	4.00	51.04	2,199.8	4.4	5.4	-3.8	2.00	2.00	0.00
2,300.0	6.00	51.04	2,299.5	9.9	12.2	-8.5	2.00	2.00	0.00
2,375.0	7.50	51.04	2,373.9	15.4	19.1	-13.3	2.00	2.00	0.00
2,400.0	7.50	51.04	2,398.7	17.5	21.6	-15.1	0.00	0.00	0.00
2,500.0	7.50	51.04	2,497.9	25.7	31.7	-22.2	0.00	0.00	0.00
2,600.0	7.50	51.04	2,597.0	33.9	41.9	-29.3	0.00	0.00	0.00
2,700.0	7.50	51.04	2,696.1	42.1	52.0	-36.4	0.00	0.00	0.00
2,800.0	7.50	51.04	2,795.3	50.3	62.2	-43.5	0.00	0.00	0.00
2,900.0	7.50	51.04	2,894.4	58.5	72.3	-50.6	0.00	0.00	0.00
3,000.0	7.50	51.04	2,993.6	66.7	82.5	-57.7	0.00	0.00	0.00
3,100.0	7.50	51.04	3,092.7	74.9	92.6	-64.8	0.00	0.00	0.00
3,200.0	7.50	51.04	3,191.9	83.1	102.8	-71.9	0.00	0.00	0.00
3,300.0	7.50	51.04	3,291.0	91.3	112.9	-79.0	0.00	0.00	0.00
3,400.0	7.50	51.04	3,390.2	99.5	123.1	-86.1	0.00	0.00	0.00
3,500.0	7.50	51.04	3,489.3	107.7	133.2	-93.2	0.00	0.00	0.00
3,600.0	7.50	51.04	3,588.4	115.9	143.4	-100.3	0.00	0.00	0.00
3,700.0	7.50	51.04	3,687.6	124.1	153.5	-107.4	0.00	0.00	0.00
3,800.0	7.50	51.04	3,786.7	132.4	163.7	-114.6	0.00	0.00	0.00
3,900.0	7.50	51.04	3,885.9	140.6	173.8	-121.7	0.00	0.00	0.00
4,000.0	7.50	51.04	3,985.0	148.8	184.0	-128.8	0.00	0.00	0.00
4,100.0	7.50	51.04	4,084.2	157.0	194.1	-135.9	0.00	0.00	0.00
4,200.0	7.50	51.04	4,183.3	165.2	204.3	-143.0	0.00	0.00	0.00
4,300.0	7.50	51.04	4,282.5	173.4	214.4	-150.1	0.00	0.00	0.00
4,400.0	7.50	51.04	4,381.6	181.6	224.6	-157.2	0.00	0.00	0.00
4,500.0	7.50	51.04	4,480.8	189.8	234.7	-164.3	0.00	0.00	0.00
4,600.0	7.50	51.04	4,579.9	198.0	244.9	-171.4	0.00	0.00	0.00
4,700.0	7.50	51.04	4,679.0	206.2	255.0	-178.5	0.00	0.00	0.00
4,800.0	7.50	51.04	4,778.2	214.4	265.2	-185.6	0.00	0.00	0.00
4,900.0	7.50	51.04	4,877.3	222.6	275.3	-192.7	0.00	0.00	0.00
5,000.0	7.50	51.04	4,976.5	230.8	285.5	-199.8	0.00	0.00	0.00
5,100.0	7.50	51.04	5,075.6	239.0	295.6	-206.9	0.00	0.00	0.00
5,200.0	7.50	51.04	5,174.8	247.2	305.8	-214.0	0.00	0.00	0.00

COMPASS 5000.15 Build 91

Planning Report

Database:OldCompany:BTA Oil Producers, LLCProject:Lea County, NM (NAD 83)Site:Mesa BWell:Mesa B #14HWellbore:Wellbore #1Design:Design #1

Planned Survey

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Mesa B #14H GL @ 3282.0usft GL @ 3282.0usft Grid Minimum Curvature

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)
5,300.0	7.50	51.04	5,273.9	255.4	315.9	-221.1	0.00	0.00	0.00
5,400.0	7.50	51.04	5,373.1	263.7	326.1	-228.2	0.00	0.00	0.00
5,500.0	7.50	51.04	5,472.2	271.9	336.2	-235.3	0.00	0.00	0.00
5,600.0	7.50	51.04	5,571.3	280.1	346.4	-242.4	0.00	0.00	0.00
5,700.0	7.50	51.04	5,670.5	288.3	356.5	-249.5	0.00	0.00	0.00
5,800.0	7.50	51.04	5,769.6	296.5	366.7	-249.5	0.00	0.00	0.00
5,900.0	7.50	51.04	5,868.8	304.7	376.8	-263.7	0.00	0.00	0.00
6,000.0	7.50	51.04	5,967.9	312.9	387.0	-270.8	0.00	0.00	0.00
6,100.0	7.50	51.04	6,067.1	321.1	397.2	-277.9	0.00	0.00	0.00
6,200.0	7.50	51.04	6,166.2	329.3	407.3	-285.0	0.00	0.00	0.00
6,300.0	7.50	51.04	6,265.4	337.5	417.5	-292.1	0.00	0.00	0.00
6,400.0	7.50	51.04	6,364.5	345.7	427.6	-299.2	0.00	0.00	0.00
6,500.0	7.50	51.04	6,463.6	353.9	437.8	-306.3	0.00	0.00	0.00
6,600.0	7.50	51.04	6,562.8	362.1	447.9	-313.4	0.00	0.00	0.00
6,630.0	7.50	51.04	6,592.5	364.6	450.9	-315.6	0.00	0.00	0.00
6,700.0	6.10	51.04	6,662.0	369.8	457.4	-320.1	2.00	-2.00	0.00
6,800.0	4.10	51.04	6,761.6	375.4	464.3	-324.9	2.00	-2.00	0.00
6,900.0	2.10	51.04	6,861.5	378.8	468.5	-327.9	2.00	-2.00	0.00
7,000.0	0.10	51.04	6,961.5	380.0	470.0	-328.9	2.00	-2.00	0.00
7,005.0	0.00	0.00	6,966.4	380.0	470.0	-328.9	2.00	-2.00	0.00
7,100.0	0.00	0.00	7,061.5	380.0	470.0	-328.9	0.00	0.00	0.00
7,200.0	0.00	0.00	7,161.5	380.0	470.0	-328.9	0.00	0.00	0.00
•			•						
7,300.0	0.00	0.00	7,261.5	380.0	470.0	-328.9	0.00	0.00	0.00
7,400.0	0.00	0.00	7,361.5	380.0	470.0	-328.9	0.00	0.00	0.00
7,500.0	0.00	0.00	7,461.5	380.0	470.0	-328.9	0.00	0.00	0.00
7,600.0	0.00	0.00	7,561.5	380.0	470.0	-328. 9	0.00	0.00	0.00
7,700.0	0.00	0.00	7,661.5	380.0	470.0	-328. 9	0.00	0.00	0.00
7,800.0	0.00	0.00	7,761.5	380.0	470.0	-328. 9	0.00	0.00	0.00
7,900.0	0.00	0.00	7,861.5	380.0	470.0	-328.9	0.00	0.00	0.00
8,000.0	0.00	0.00	7,961.5	380.0	470.0	-328.9	0.00	0.00	0.00
8,100.0	0.00	0.00	8,061.5	380.0	470.0	-328.9	0.00	0.00	0.00
8,200.0	0.00	0.00	8,161.5	380.0	470.0	-328.9	0.00	0.00	0.00
8,300.0	0.00	0.00	8,261.5	380.0	470.0	-328.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,361.5	380.0	470.0	-328.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,461.5	380.0	470.0	-328.9	0.00	0.00	0.00
8,600.0	0.00	0.00	8,561.5	380.0	470.0	-328.9	0.00	0.00	0.00
8,700.0	0.00	0.00	8,661.5	380.0	470.0	-328.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,761.5	380.0	470.0	-328.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,861.5	380.0	470.0	-328.9	0.00	0.00	0.00
9,000.0	0.00	0.00		380.0	470.0		0.00	0.00	0.00
9,000.0 9,100.0	0.00	0.00	8,961.5 9,061.5	380.0	470.0 470.0	-328.9 -328.9	0.00	0.00	0.00
9,200.0	0.00	0.00	9,161.5	380.0	470.0	-328.9	0.00	0.00	0.00
9,300.0	0.00	0.00	9,261.5	380.0	470.0	-328.9	0.00	0.00	0.00
9,400.0	0.00	0.00	9,361.5	380.0	470.0	-328.9	0.00	0.00	0.00
9,500.0	0.00	0.00	9,461.5	380.0	470.0	-328.9	0.00	0.00	0.00
9,600.0	0.00	0.00	9,561.5	380.0	470.0	-328.9	0.00	0.00	0.00
9,700.0	0.00	0.00	9,661.5	380.0	470.0	-328.9	0.00	0.00	0.00
9,800.0	0.00	0.00	9,761.5	380.0	470.0	-328.9	0.00	0.00	0.00
9,900.0	0.00	0.00	9,861.5	380.0	470.0	-328.9	0.00	0.00	0.00
10,000.0	0.00	0.00	9,961.5	380.0	470.0	-328.9	0.00	0.00	0.00
10,100.0	0.00	0.00	10,061.5	380.0	470.0	-328.9	0.00	0.00	0.00
10,200.0	0.00	0.00	10,161.5	380.0	470.0	-328.9	0.00	0.00	0.00
10,200.0	0.00	0.00	10,161.5	380.0	470.0	-328.9	0.00	0.00	0.00
10,300.0	0.00	0.00	10,201.5	380.0	470.0	-328.9	0.00	0.00	0.00

Planning Report

Database:OldCompany:BTA Oil Producers, LLCProject:Lea County, NM (NAD 83)Site:Mesa BWell:Mesa B #14HWellbore:Wellbore #1Design:Design #1

Planned Survey

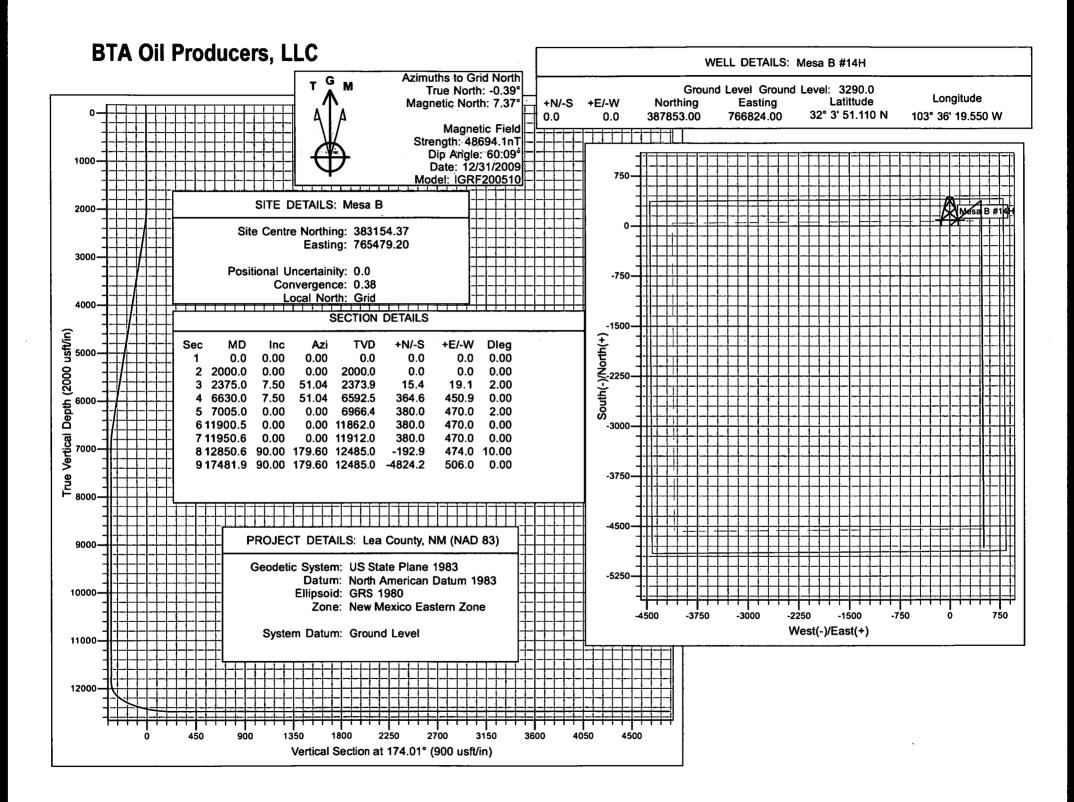
Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Mesa B #14H GL @ 3282.0usft GL @ 3282.0usft Grid Minimum Curvature

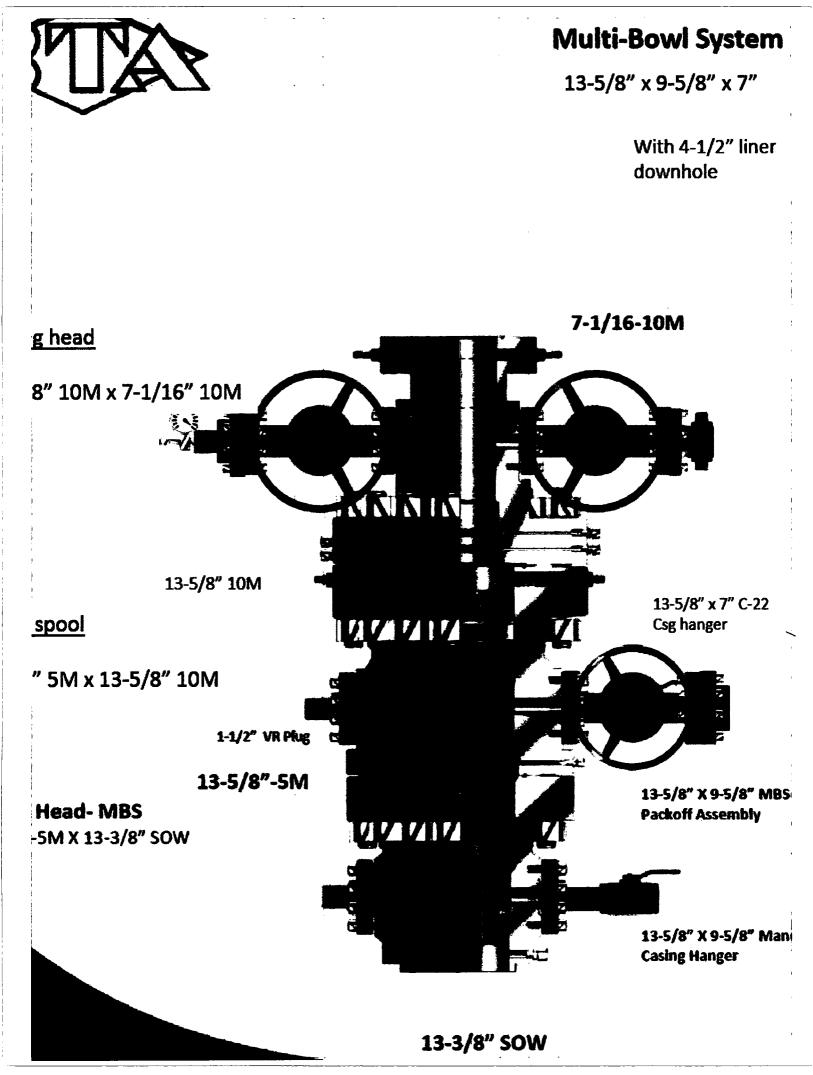
Measured			Vertical			Vertical	Dogleg	Build	Tum
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
10,500.0	0.00	0.00	10,461.5	380.0	470.0	-328.9	0.00	0.00	0.00
10,600.0	0.00	0.00	10,561.5	380.0	470.0	-328.9	0.00	0.00	0.00
10,700.0	0.00	0.00	10,661.5	380.0	470.0	-328.9	0.00	0.00	0.00
10,800.0	0.00	0.00	10,761.5	380.0	470.0	-328.9	0.00	0.00	0.00
10,900.0	0.00	0.00	10,861.5	380.0	470.0	-328.9	0.00	0.00	0.00
11,000.0	0.00	0.00	10,961.5	380.0	470.0	-328.9	0.00	0.00	0.00
11,100.0	0.00	0.00	11,061.5	380.0	470.0	-328.9	0.00	0.00	0.00
11,200.0	0.00	0.00	11,161.5	380.0	470.0	-328.9	0.00	0.00	0.00
	0.00	0.00		380.0	470.0 470.0	-328.9 -328.9	0.00	0.00	0.00
11,300.0 11,400.0	0.00	0.00	11,261.5 11,361.5	380.0	470.0	-328.9 -328.9	0.00	0.00	0.00
11,400.0	0.00	0.00	11,361.5	380.0	470.0 470.0	-328.9 -328.9	0.00	0.00	0.00
11,500.0	0.00	0.00	11,461.5 11,561.5	380.0	470.0 470.0	-328.9 -328.9	0.00	0.00	0.00
11,700.0	0.00	0.00	11,661.5	380.0	470.0	-328.9	0.00	0.00	0.00
11,800.0	0.00	0.00	11,761.5	380.0	470.0	-328.9	0.00	0.00	0.00
11,900.0	0.00	0.00	11,861.5	380.0	470.0	-328.9	0.00	0.00	0.00
11,900.5	0.00	0.00	11,862.0	380.0	470.0	-328.9	0.00	0.00	0.00
11,950.6	0.00	0.00	11,912.0	380.0	470.0	-328.9	0.00	0.00	0.00
12,000.0	4.94	179.60	11,961.4	377.9	470.0	-326.8	10.00	10.00	0.00
12,100.0	14.94	179.60	12,059.8	360.6	470.1	-309.6	10.00	10.00	0.00
12,200.0	24.94	179.60	12,153.7	326.6	470.4	-275.7	10.00	10.00	0.00
12,300.0	34.94	179.60	12,240.2	276.7	470.7	-226.1	10.00	10.00	0.00
12,400.0	44.94	179.60	12,316.8	212.6	471.2	-162.3	10.00	10.00	0.00
12,500.0	54.94	179.60	12,381.0	136.2	471.7	-86.2	10.00	10.00	0.00
12,600.0	64.94	179.60	12,431.1	49.7	472.3	-0.2	10.00	10.00	0.00
12,700.0	74.94	179.60	12,465.3	-44.1	472.9	93.2	10.00	10.00	0.00
12,800.0	84.94	179.60	12,482.8	-142.4	473.6	191.1	10.00	10.00	0.00
12,850.6	90.00	179.60	12,485.0	-192.9	474.0	241.3	10.00	10.00	0.00
12,900.0	90.00	179.60	12,485.0	-242.4	474.3	290.5	0.00	0.00	0.00
13,000.0	90.00	179.60	12,485.0	-342.4	475.0	390.0	0.00	0.00	0.00
13,100.0	90.00	179.60	12,485.0	-442.4	475.7	489.6	0.00	0.00	0.00
13,200.0	90.00	179.60	12,485.0	-542.4	476.4	589.1	0.00	0.00	0.00
13,300.0	90.00	179.60	12,485.0	-642.3	477.1	688.6	0.00	0.00	0.00
13,400.0	90.00	179.60	12,485.0	-742.3	477.8	788.1	0.00	0.00	0.00
13,500.0	90.00	179.60	12,485.0	-842.3	478.5	887.7	0.00	0.00	0.00
13,600.0	90.00	179.60	12,485.0	-942.3	479.2	987.2	0.00	0.00	0.00
13,700.0	90.00	179.60	12,485.0	-1,042.3	479.8	1,086.7	0.00	0.00	0.00
13,800.0	90.00	179.60	12,485.0	-1,142.3	480.5	1,186.2	0.00	0.00	0.00
13,900.0	90.00	179.60	12.485.0	-1,242.3	481.2	1,285.8	0.00	0.00	0.00
14,000.0	90.00	179.60	12,485.0	-1,342.3	481.9	1,385.3	0.00	0.00	0.00
14,100.0	90.00	179.60	12,485.0	-1,442.3	482.6	1,484.8	0.00	0.00	0.00
14,200.0	90.00	179.60	12,485.0	-1,542.3	483.3	1,584.3	0.00	0.00	0.00
14,300.0	90.00	179.60	12,485.0	-1,642.3	484.0	1,683.9	0.00	0.00	0.00
14,400.0	90.00	179.60	12,485.0	-1,742.3	484.7	1,783.4	0.00	0.00	0.00
14,400.0	90.00	179.60	12,485.0	-1,742.3	485.4	1,783.4	0.00	0.00	0.00
14,500.0	90.00	179.60	12,485.0	-1,942.3	485.4	1,002.9	0.00	0.00	0.00
14,800.0	90.00	179.60	12,485.0	-2,042.3	486.8	2,082.0	0.00	0.00	0.00
14,700.0	90.00	179.60	12,485.0	-2,042.3	400.0 487.5	2,082.0	0.00	0.00	0.00
14,900.0	90.00	179.60	12,485.0	-2,242.3	488.1	2,281.0	0.00	0.00	0.00
15,000.0	90.00	179.60	12,485.0	-2,342.3	488.8	2,380.5	0.00	0.00	0.00
15,100.0	90.00	179.60	12,485.0	-2,442.3	489.5	2,480.0	0.00	0.00	0.00
15,200.0	90.00	179.60	12,485.0	-2,542.3	490.2	2,579.6	0.00	0.00	0.00
15,300.0	90.00	179.60	12,485.0	-2,642.3	490.9	2,679.1	0.00	0.00	0.00
15,400.0	90.00	179.60	12,485.0	-2,742.3	491.6	2,778.6	0.00	0.00	0.00
15,500.0	90.00	179.60	12,485.0	-2,842.3	492.3	2,878.1	0.00	0.00	0.00

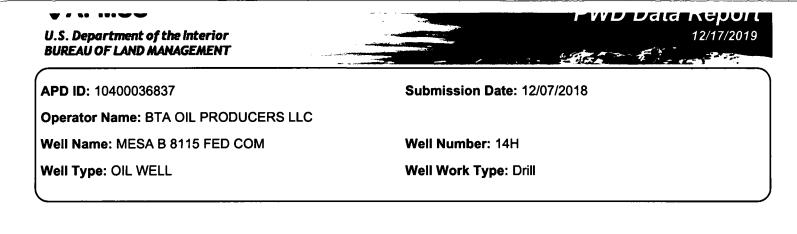
COMPASS 5000.15 Build 91

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	Old BTA Oil Produ Lea County, N Mesa B Mesa B #14H Wellbore #1 Design #1	M (NAD 83)		TVD Reference:GiMD Reference:GiNorth Reference:Gi		GL @ 3282. GL @ 3282. Grid	Well Mesa B #14H GL @ 3282.0usft GL @ 3282.0usft Grid Minimum Curvature		
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Ratø (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,600.0	90.00	179.60	12,485.0	-2,942.3	493.0	2,977.7	0.00	0.00	0,00
15,700.0	90.00	179.60	12,485.0	,	493.7	3.077.2	0.00	0.00	0.00
15,800.0	90.00	179.60	12,485.0	.,	494.4	3,176.7	0.00	0.00	0.00
15,900.0	90.00	179.60	12,485.0	-3,242.3	495.1	3,276.2	0.00	0.00	0.00
16,000.0	90.00	179.60	12,485.0		495.8	3.375.8	0.00	0.00	0.00
16,100.0	90.00	179.60	12,485.0		496.5	3.475.3	0.00	0.00	0.00
16,200.0	90.00	179.60	12,485.0		497.1	3,574.8	0.00	0.00	0.00
16,300.0	90.00	179.60	12,485.0		497.8	3,674.3	0.00	0.00	0.00
						,			
16,400.0	90.00	179.60	12,485.0	,	498.5	3,773.9	0.00	0.00	0.00
16,500.0	90.00	179.60	12,485.0	,	499.2	3,873.4	0.00	0.00	0.00
16,600.0	90.00	179.60	12,485.0	•	499.9	3,972.9	0.00	0.00	0.00
16,700.0	90.00	179.60	12,485.0	•	500.6	4,072.4	0.00	0.00	0.00
16,800.0	90.00	179.60	12,485.0	-4,142.3	501.3	4,172.0	0.00	0.00	0.00
16,900.0	90.00	179.60	12,485.0	-4,242.3	502.0	4,271.5	0.00	0.00	0.00
17,000.0	90.00	179.60	12,485.0	-4,342.3	502.7	4,371.0	0.00	0.00	0.00
17,100.0	90.00	179.60	12,485.0	-4,442.3	503.4	4,470.5	0.00	0.00	0.00
17,200.0	90.00	179.60	12,485.0	-4,542.3	504.1	4,570.1	0.00	0.00	0.00
17,300.0	90.00	179.60	12,485.0	-4,642.3	504.8	4,669.6	0.00	0.00	0.00
17,400.0	90.00	179.60	12,485.0	-4,742.3	505.4	4,769,1	0.00	0.00	0.00
17,481.9	90.00	179.60	12,485.0	,	506.0	4,850.6	0.00	0.00	0.00
Design Targets Target Name - hit/miss target	Dip Angle	Dip Dir.		√-S +E/-W		•	sting		
- Shape	(°)	(°)	(usft) (u	sft) (usft)	(usft)) (u	ısft)	Latitude	Longitude
Mesa B #14H BHL - plan hits target c - Point	0.00 enter	0.00	12,485.0 -	4,824.2 50	6.0 383,0	029.00 7	67,330.00	32° 3' 3.341 N	103° 36' 14.04







Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: **PWD surface owner:** Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment:

PWD disturbance (acres):

Well Name: MESA B 8115 FED COM

Well Number: 14H

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Uperator Name: BIA UIL PRODUCERS LLC	
Well Name: MESA B 8115 FED COM We	II Number: 14H
Is the reclamation bond a rider under the BLM bond?	
Unlined pit bond number:	
Unlined pit bond amount:	
Additional bond information attachment:	
Section 4 - Injection	
Would you like to utilize Injection PWD options? NO	
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Injection PWD discharge volume (bbl/day):	
Injection well mineral owner:	
Injection well type:	
Injection well number:	Injection well name:
Assigned injection well API number?	Injection well API number:
Injection well new surface disturbance (acres):	
Minerals protection information:	
Mineral protection attachment:	
Underground Injection Control (UIC) Permit?	
UIC Permit attachment:	
Section 5 - Surface Discharge	
Would you like to utilize Surface Discharge PWD options? NC)
Produced Water Disposal (PWD) Location:	
PWD surface owner:	PWD disturbance (acres):
Surface discharge PWD discharge volume (bbl/day):	
Surface Discharge NPDES Permit?	
Surface Discharge NPDES Permit attachment:	
Surface Discharge site facilities information:	
Surface discharge site facilities map:	
Section 6 - Other Would you like to utilize Other PWD options? NO	

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Well Name: MESA B 8115 FED COM

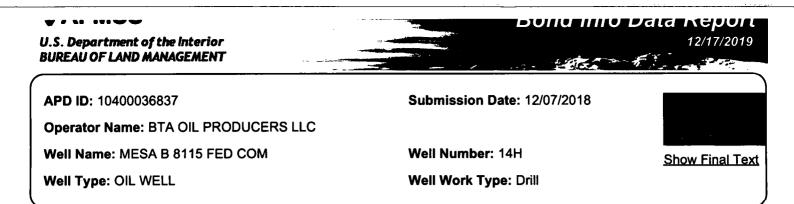
Well Number: 14H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001711

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Application for Permit to Drill

APD Package Report

APD ID: 10400036837 APD Received Date: 12/07/2018 08:21 AM Operator: BTA OIL PRODUCERS LLC

- **APD** Package Report Contents
 - Form 3160-3
 - Operator Certification Report
 - Application Report
 - Application Attachments -- Well Plat: 1 file(s)
 - Drilling Plan Report
 - Drilling Plan Attachments
 - -- Blowout Prevention Choke Diagram Attachment: 261e(s)
 - -- Blowout Prevention BOP Diagram Attachment: 3 file(s)
 - -- Casing Taperd String Specs: 4 file(s)
 - -- Casing Design Assumptions and Worksheetts): Serie(s)
 - -- Hydrogen sulfide drilling operations plan: 3 file(s)
 - -- Proposed horizontal/directional/multi-lateral plan submission: 3 file(s)
 - -- Other Variances: 2 file(s)
 - SUPO Report
 - SUPO Attachments
 - -- Existing Road Map: 1 file(s)
 - -- New Roady Map: 1 file(s)
 - -- Attach Well map: 1 file(s)
 - -- Production Facilities map: 1 file(s)
 - -- Water source and transportation map: 1 file(s)
 - -- Well Site Layout Diagram: 3 file(s)
 - PWD Report
 - PWD Attachments
 - -- None
 - Bond Report
 - Bond Attachments

U.S. Department of the Interior Bureau of Land Management

Date Printed: 12/17/2019 07:38 AM

Well Status: AAPD Well Name: MESA B 8115 FED COM Well Number: 14H -- None

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