

OCD Hobbs  
**HOBBS OCD**  
MAR 27 2017  
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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

5. Lease Serial No. NMNM14492	
6. If Indian, Allottee or Tribe Name	
7. If Unit or CA Agreement, Name and No. NMNM14492	
8. Lease Name and Well No. (305301) MESA 8105 JV-P 29H	
9. API Well No. 30-025-43723	
1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	10. Field and Pool, or Exploratory JENNINGS / UPPER BN SPR SHALE (97838)
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	11. Sec., T. R. M. or Blk. and Survey or Area SEC 1 / T26S / R32E / NMP
2. Name of Operator BTA OIL PRODUCERS LLC (260297)	12. County or Parish LEA
3a. Address 104 S. Pecos Midland TX 79701	13. State NM
3b. Phone No. (include area code) (432)682-3753	14. Distance in miles and direction from nearest town or post office* 25 miles
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NENW / 330 FNL / 810 FWL / LAT 32.078824 / LONG -103.634706 At proposed prod. zone SWSW / 230 FSL / 380 FWL / LAT 32.050943 / LONG -103.635771	15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet
16. No. of acres in lease 1960	17. Spacing Unit dedicated to this well 320
18. Distance from proposed location* to nearest well, drilling, completed, 3820 feet applied for, on this lease, ft.	19. Proposed Depth 9520 feet / 19422 feet
20. BLM/BIA Bond No. on file FED: NM1195	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3332 feet
22. Approximate date work will start* 09/12/2016	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:

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

25. Signature (Electronic Submission)	Name (Printed/Typed) Kayla McConnell / Ph: (432)682-3753	Date 06/24/2016
Title Regulatory Analyst		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 03/20/2017
Title Supervisor Multiple Resources Office CARLSBAD		

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.

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.

(Continued on page 2)

\*(Instructions on page 2)

**APPROVED WITH CONDITIONS**

KZ  
07/28/17

2

<b>APD ID:</b> 10400002457	<b>Submission Date:</b> 06/24/2016	Highlight
<b>Operator Name:</b> BTA OIL PRODUCERS LLC	<b>Federal/Indian APD:</b> FED	All Changes
<b>Well Name:</b> MESA 8105 JV-P	<b>Well Number:</b> 29H	
<b>Well Type:</b> OIL WELL	<b>Well Work Type:</b> Drill	

Application

**Section 1 - General**

<b>APD ID:</b> 10400002457	<b>Tie to previous NOS?</b>	<b>Submission Date:</b> 06/24/2016
<b>BLM Office:</b> CARLSBAD	<b>User:</b> Kayla McConnell	<b>Title:</b> Regulatory Analyst
<b>Federal/Indian APD:</b> FED	<b>Is the first lease penetrated for production Federal or Indian?</b> FED	
<b>Lease number:</b> NMNM14492	<b>Lease Acres:</b> 1960	
<b>Surface access agreement in place?</b>	<b>Allotted?</b>	<b>Reservation:</b>
<b>Agreement in place?</b> YES	<b>Federal or Indian agreement:</b> FEDERAL	
<b>Agreement number:</b> NMNM14492		
<b>Agreement name:</b>		
<b>Keep application confidential?</b> YES		
<b>Permitting Agent?</b> NO	<b>APD Operator:</b> BTA OIL PRODUCERS LLC	
<b>Operator letter of designation:</b>		
<b>Keep application confidential?</b> YES		

**Operator Info**

**Operator Organization Name:** BTA OIL PRODUCERS LLC  
**Operator Address:** 104 S. Pecos  
**Operator PO Box:** Zip: 79701  
**Operator City:** Midland **State:** TX  
**Operator Phone:** (432)682-3753  
**Operator Internet Address:** pinskeep@btaoil.com

**Section 2 - Well Information**

<b>Well in Master Development Plan?</b> NO	<b>Mater Development Plan name:</b>
<b>Well in Master SUPO?</b> NO	<b>Master SUPO name:</b>
<b>Well in Master Drilling Plan?</b> NO	<b>Master Drilling Plan name:</b>

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 29H

Well Name: MESA 8105 JV-P

Well Number: 29H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: JENNINGS

Pool Name: UPPER BN SPR SHALE

Is the proposed well in an area containing other mineral resources? OIL

Describe other minerals:

Is the proposed well in a Helium production area? N

Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: SINGLE WELL

Multiple Well Pad Name:

Number:

Well Class: HORIZONTAL

Number of Legs:

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EXPLORATORY (WILDCAT)

Describe sub-type:

Distance to town: 25 Miles

Distance to nearest well: 3820 FT

Distance to lease line: 330 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: MESA 8105 JVP 29H C102\_06-23-2016.pdf

Well work start Date: 09/12/2016

Duration: 45 DAYS

### Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NGVD29

Survey number:

STATE: NEW MEXICO

Meridian: NEW MEXICO PRINCIPAL County: LEA

Latitude: 32.078824

Longitude: -103.634706

SHL

Elevation: 3332

MD: 0

TVD: 0

Leg #: 1

Lease Type: FEDERAL

Lease #: NMNM14492

NS-Foot: 330

NS Indicator: FNL

EW-Foot: 810

EW Indicator: FWL

Twsp: 26S

Range: 32E

Section: 1

Aliquot: NENW

Lot:

Tract:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 29H

	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.0787	<b>Longitude:</b> -103.634235	
KOP	<b>Elevation:</b> 3332	<b>MD:</b> 8947	<b>TVD:</b> 8947
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM14492	
	<b>NS-Foot:</b> 330	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 810	<b>EW Indicator:</b> FWL	
	<b>Twsp:</b> 26S	<b>Range:</b> 32E	<b>Section:</b> 1
	<b>Aliquot:</b> NENW	<b>Lot:</b>	<b>Tract:</b>
	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.077252	<b>Longitude:</b> -103.634766	
PPP	<b>Elevation:</b> -6188	<b>MD:</b> 9847	<b>TVD:</b> 9520
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM14492	
	<b>NS-Foot:</b> 902	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 779	<b>EW Indicator:</b> FWL	
	<b>Twsp:</b> 26S	<b>Range:</b> 32E	<b>Section:</b> 1
	<b>Aliquot:</b> SENW	<b>Lot:</b>	<b>Tract:</b>
	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.051218	<b>Longitude:</b> -103.635761	
EXIT	<b>Elevation:</b> -6188	<b>MD:</b> 19200	<b>TVD:</b> 9520
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM14492	
	<b>NS-Foot:</b> 383	<b>NS Indicator:</b> FSL	
	<b>EW-Foot:</b> 383	<b>EW Indicator:</b> FWL	
	<b>Twsp:</b> 26S	<b>Range:</b> 32E	<b>Section:</b> 12
	<b>Aliquot:</b> SWSW	<b>Lot:</b>	<b>Tract:</b>
	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.050943	<b>Longitude:</b> -103.635771	
BHL	<b>Elevation:</b> -6188	<b>MD:</b> 19422	<b>TVD:</b> 9520
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM14492	
	<b>NS-Foot:</b> 230	<b>NS Indicator:</b> FSL	
	<b>EW-Foot:</b> 380	<b>EW Indicator:</b> FWL	

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 29H

Twsp: 26S

Range: 32E

Section: 12

Aliquot: SWSW

Lot:

Tract:

### Drilling Plan

## Section 1 - Geologic Formations

ID: Surface formation

Name: ---

Lithology(ies):

ALLUVIUM

Elevation: 3332

True Vertical Depth: 0

Measured Depth: 0

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 1

Name: RUSTLER

Lithology(ies):

Elevation: 2638

True Vertical Depth: 694

Measured Depth: 694

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 2

Name: TOP SALT

Lithology(ies):

Elevation: 1308

True Vertical Depth: 1352

Measured Depth: 1354

Mineral Resource(s):

OTHER - Salt

Is this a producing formation? N

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 29H

ID: Formation 3

Name: BASE OF SALT

Lithology(ies):

Elevation: -1850

True Vertical Depth: 4510

Measured Depth: 4514

Mineral Resource(s):

OTHER - Salt

Is this a producing formation? N

ID: Formation 4

Name: DELAWARE

Lithology(ies):

Elevation: -2064

True Vertical Depth: 4724

Measured Depth: 4729

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 5

Name: BONE SPRING

Lithology(ies):

Elevation: -6293

True Vertical Depth: 8953

Measured Depth: 8974

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

## Section 2 - Blowout Prevention

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**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 JV-P

**Well Number:** 29H

**Pressure Rating (PSI):** 3M

**Rating Depth:** 1100

**Equipment:** The blowout preventer equipment (BOP) shown in Exhibit A will consist of a (3M system) double ram type (3000 psi WP) preventer and a bag-type (Hydril) preventer (3000 psi WP). Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. The BOP's will be installed on the 13 3/8" surface casing and utilized continuously until total depth is reached. All BOP's and associated equipment will be tested as per BLM drilling Operations Order No. 2. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines, and choke manifold having a 3000 psi WP rating.

**Requesting Variance?** YES

**Variance request:** A Choke Hose Variance is requested. See attached test chart and spec.

**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.

**Choke Diagram Attachment:**

BLM 3k Choke sundry\_06-23-2016.pdf

Choke Hose - Test Chart and Specs\_02-17-2017.pdf

**BOP Diagram Attachment:**

BLM 3k BOP sundry\_06-23-2016.pdf

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### Section 3 - Casing

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**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 JV-P

**Well Number:** 29H

**String Type:** INTERMEDIATE

**Other String Type:**

**Hole Size:** 12.25

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** 3332

**Bottom setting depth MD:** 4715

**Bottom setting depth TVD:** 4715

**Bottom setting depth MSL:** -1383

**Calculated casing length MD:** 4715

**Casing Size:** 9.625

**Other Size**

**Grade:** J-55

**Other Grade:**

**Weight:** 40

**Joint Type:** LTC

**Other Joint Type:**

**Condition:** NEW

**Inspection Document:**

**Standard:** API

**Spec Document:**

**Tapered String?:** N

**Tapered String Spec:**

### Safety Factors

**Collapse Design Safety Factor:** 1.68

**Burst Design Safety Factor:** 2.58

**Joint Tensile Design Safety Factor type:** DRY

**Joint Tensile Design Safety Factor:** 2.71

**Body Tensile Design Safety Factor type:** DRY

**Body Tensile Design Safety Factor:** 3.29

**Casing Design Assumptions and Worksheet(s):**

MESA 8105 JVP 29H CASING ASSUMPTIONS SHEET\_06-23-2016.pdf

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 29H

SEE  
COA

String Type: SURFACE

Other String Type:

Hole Size: 17.5

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: 3332

Bottom setting depth MD: ~~710~~ 800

Bottom setting depth TVD: ~~710~~ 800

Bottom setting depth MSL: 2622

Calculated casing length MD: ~~710~~ 800

Casing Size: 13.375

Other Size

Grade: J-55

Other Grade:

Weight: 54.5

Joint Type: STC

Other Joint Type:

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

### Safety Factors

Collapse Design Safety Factor: 3.4

Burst Design Safety Factor: 9.75

Joint Tensile Design Safety Factor type: DRY

Joint Tensile Design Safety Factor: 14.53

Body Tensile Design Safety Factor type: DRY

Body Tensile Design Safety Factor: 24.3

Casing Design Assumptions and Worksheet(s):

MESA 8105 JVP 29H CASING ASSUMPTIONS SHEET\_06-23-2016.pdf

**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 JV-P

**Well Number:** 29H

**String Type:** PRODUCTION

**Other String Type:**

**Hole Size:** 8.75

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** 3332

**Bottom setting depth MD:** 19422

**Bottom setting depth TVD:** 9520

**Bottom setting depth MSL:** -6188

**Calculated casing length MD:** 19422

**Casing Size:** 5.5

**Other Size**

**Grade:** P-110

**Other Grade:**

**Weight:** 17

**Joint Type:** LTC

**Other Joint Type:**

**Condition:** NEW

**Inspection Document:**

**Standard:** API

**Spec Document:**

**Tapered String?:** N

**Tapered String Spec:**

### **Safety Factors**

**Collapse Design Safety Factor:** 3.04

**Burst Design Safety Factor:** 4.32

**Joint Tensile Design Safety Factor type:** DRY

**Joint Tensile Design Safety Factor:** 2.74

**Body Tensile Design Safety Factor type:** DRY

**Body Tensile Design Safety Factor:** 3.37

**Casing Design Assumptions and Worksheet(s):**

MESA 8105 JVP 29H CASING ASSUMPTIONS SHEET\_06-23-2016.pdf

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### **Section 4 - Cement**

**Casing String Type:** SURFACE

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 29H

**Stage Tool Depth:**

Lead

Top MD of Segment: 0

Bottom MD Segment: 355

Cement Type: Class C

Additives: 4% Gel

Quantity (sks): 570

Yield (cu.ff./sk): 1.75

Density: 13.5

Volume (cu.ft.): 997

Percent Excess:

Tail

Top MD of Segment: 355

Bottom MD Segment: 710

Cement Type: Class C

Additives: 2% CaCl2

Quantity (sks): 200

Yield (cu.ff./sk): 1.34

Density: 14.8

Volume (cu.ft.): 268

Percent Excess:

Casing String Type: INTERMEDIATE

**Stage Tool Depth:**

Lead

Top MD of Segment: 0

Bottom MD Segment: 3915

Cement Type: Class C

Additives: 6% Gel

Quantity (sks): 1210

Yield (cu.ff./sk): 2.08

Density: 12.9

Volume (cu.ft.): 2516

Percent Excess:

Tail

Top MD of Segment: 3915

Bottom MD Segment: 4715

Cement Type: Class C

Additives: 0.004 GPS cf-41L

Quantity (sks): 250

Yield (cu.ff./sk): 1.33

Density: 14.8

Volume (cu.ft.): 332

Percent Excess:

Casing String Type: PRODUCTION

**Stage Tool Depth:**

Lead

Top MD of Segment: 4000

Bottom MD Segment: 7000

Cement Type: 50:50 H

Additives: 1/4 #/sk Cello Flake

Quantity (sks): 200

Yield (cu.ff./sk): 2.08

Density: 12.9

Volume (cu.ft.): 882

Percent Excess:

Tail

Top MD of Segment: 7000

Bottom MD Segment: 19422

Cement Type: 50:50 Class H

Additives: 0.004 GPS cf-41L

Quantity (sks): 2750

Yield (cu.ff./sk): 1.22

Density: 14.4

Volume (cu.ft.): 3355

Percent Excess:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 29H

### Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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: 0	Bottom Depth: 710
Mud Type: SPUD MUD	
Min Weight (lbs./gal.): 8.3	Max Weight (lbs./gal.): 8.4
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP):
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	
Top Depth: 710	Bottom Depth: 4715
Mud Type: SALT SATURATED	
Min Weight (lbs./gal.): 10	Max Weight (lbs./gal.): 10.2
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP):
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	

**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 JV-P

**Well Number:** 29H

**Top Depth:** 4715

**Bottom Depth:** 9520

**Mud Type:** WATER-BASED MUD

**Min Weight (lbs./gal.):** 8.6

**Max Weight (lbs./gal.):** 9.2

**Density (lbs/cu.ft.):**

**Gel Strength (lbs/100 sq.ft.):**

**PH:**

**Viscosity (CP):**

**Filtration (cc):**

**Salinity (ppm):**

**Additional Characteristics:**

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## Section 6 - Test, Logging, Coring

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

No DST planned

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

GR

**Coring operation description for the well:**

No cores are currently planned

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 4603

**Anticipated Surface Pressure:** 2508.6

**Anticipated Bottom Hole Temperature(F):** 140

**Anticipated abnormal proessesures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geoharzards description:**

**Contingency Plans geoharzards attachment:**

**Hydrogen Sulfide drilling operations plan required?** NO

**Hydrogen sulfide drilling operations plan:**

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 29H

### Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Mesa 29H Directional report\_06-24-2016.pdf

Other proposed operations facets description:

A variance is requested for a Multi Bowl Wellhead. See the attached schematic and running procedure.

Other proposed operations facets attachment:

Mesa 29H Wall plot\_06-24-2016.pdf

Other Variance attachment:

Multi Bowl Wellhead Schematic\_02-17-2017.pdf

SUPO

### Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

MESA 8105 JVP 29H VICINITY PLAT\_06-24-2016.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

#### ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

MESA 8105 JVP 29H LOCATION PLAT ACCESS ROAD\_06-24-2016.pdf

New road type: RESOURCE

Length: 3572 Feet Width (ft.): 25

Max slope (%): 2 Max grade (%): 2

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 JV-P

**Well Number:** 29H

**New road travel width:** 15

**New road access erosion control:** Road construction requirements and regular maintenance would alleviate potential impacts to the access road from water erosion damage.

**New road access plan or profile prepared?** NO

**New road access plan attachment:**

**Access road engineering design?** NO

**Access road engineering design attachment:**

**Access surfacing type:** OTHER

**Access topsoil source:** BOTH

**Access surfacing type description:** Native Caliche

**Access onsite topsoil source depth:** 6

**Offsite topsoil source description:** Material will be obtained from the closest existing caliche pit as designated by the BLM.

**Onsite topsoil removal process:** The top 6 inches of topsoil is pushed off and stockpiled along the side of the location. An approximate 160' X 160' area is used within the proposed well site to remove caliche. Subsoil is removed and stockpiled within the pad site to build the location and road. Then subsoil is pushed back in the hole and caliche is spread accordingly across proposed access road.

**Access other construction information:**

**Access miscellaneous information:**

**Number of access turnouts:**

**Access turnout map:**

### **Drainage Control**

**New road drainage crossing:** OTHER

**Drainage Control comments:** Proposed access road will be crowned and ditched and constructed of 6 inch rolled and compacted caliche. Water will be diverted where necessary to avoid ponding, maintain good drainage, and to be consistent with local drainage patterns.

**Road Drainage Control Structures (DCS) description:** Any ditches will be at 3:1 slope and 3 feet wide

**Road Drainage Control Structures (DCS) attachment:**

### **Access Additional Attachments**

**Additional Attachment(s):**

### **Section 3 - Location of Existing Wells**

**Existing Wells Map?** YES

**Attach Well map:**

8105 JV-P Mesa 29H - 1 Mile Radius Map\_06-24-2016.pdf

**Existing Wells description:**

**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 JV-P

**Well Number:** 29H

## Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

**Estimated Production Facilities description:**

**Production Facilities description:**

**Production Facilities map:**

Mesa 8105 JV-P Proposed Central Tank Battery\_06-24-2016.pdf

## Section 5 - Location and Types of Water Supply

### Water Source Table

**Water source use type:** DUST CONTROL,  
INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE  
CASING

**Water source type:** OTHER

**Describe type:** Commercial Water Station

**Source longitude:** -103.71602

**Source latitude:** 31.999126

**Source datum:** NAD83

**Water source permit type:** PRIVATE CONTRACT

**Source land ownership:** COMMERCIAL

**Water source transport method:** PIPELINE

**Source transportation land ownership:** COMMERCIAL

**Water source volume (barrels):** 100000

**Source volume (acre-feet):** 12.88931

**Source volume (gal):** 4200000

**Water source and transportation map:**

Mesa 29H Water Source Map\_06-24-2016.pdf

**Water source comments:**

**New water well?** NO

### New Water Well Info

**Well latitude:**

**Well Longitude:**

**Well datum:**

**Well target aquifer:**

**Est. depth to top of aquifer(ft):**

**Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):**

**Well casing type:**

**Well casing outside diameter (in.):**

**Well casing inside diameter (in.):**

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 29H

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

## Section 6 - Construction Materials

Construction Materials description:

Construction Materials source location attachment:

## Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drilling fluids and cuttings

Amount of waste: 3990 barrels

Waste disposal frequency : One Time Only

Safe containment description: All drilling fluids will be stored safely and disposed of properly.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY Disposal location ownership: COMMERCIAL FACILITY

Disposal type description:

Disposal location description: Trucked to an approved disposal facility.

Waste type: SEWAGE

Waste content description: Human waste and grey water

Amount of waste: 1000 gallons

Waste disposal frequency : One Time Only

Safe containment description: Waste material will be stored safely and disposed of properly.

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY Disposal location ownership: COMMERCIAL FACILITY

Disposal type description:

Disposal location description: Trucked to an approved disposal facility.

**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 JV-P

**Well Number:** 29H

**Waste type:** GARBAGE

**Waste content description:** Trash

**Amount of waste:** 500 pounds

**Waste disposal frequency :** One Time Only

**Safe containment description:** Trash produced during drilling and completion operations will be collected in a trash container and disposed of properly.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY      **Disposal location ownership:** COMMERCIAL FACILITY

**Disposal type description:**

**Disposal location description:** Trucked to an approved disposal facility.

### Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?**

**Reserve pit length (ft.)**                      **Reserve pit width (ft.)**

**Reserve pit depth (ft.)**    **Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

### Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** NO

**Description of cuttings location**

**Cuttings area length (ft.)**    **Cuttings area width (ft.)**

**Cuttings area depth (ft.)**    **Cuttings area volume (cu. yd.)**

**Is at least 50% of the cuttings area in cut?**

**WCuttings area liner**

**Cuttings area liner specifications and installation description**

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 29H

### Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments: It is possible that a mobile home will be used at the well site during drilling operations.

### Section 9 - Well Site Layout

Well Site Layout Diagram:

MESA 8105 JVP 29H WELL SITE PLAN\_06-24-2016.pdf

Comments:

### Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW

Recontouring attachment:

**Drainage/Erosion control construction:** During construction proper erosion control methods will be used to control erosion, runoff and siltation of the surrounding area.

**Drainage/Erosion control reclamation:** Proper erosion control methods will be used on the area to control erosion, runoff and siltation of the surrounding area.

**Wellpad long term disturbance (acres):** 3.67

**Wellpad short term disturbance (acres):** 2.06

**Access road long term disturbance (acres):** 2.05

**Access road short term disturbance (acres):** 2.05

**Pipeline long term disturbance (acres):** 0

**Pipeline short term disturbance (acres):** 0

**Other long term disturbance (acres):** 0

**Other short term disturbance (acres):** 0

**Total long term disturbance:** 5.72

**Total short term disturbance:** 4.11

**Reconstruction method:** The areas planned for interim reclamation will then be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

**Topsoil redistribution:** Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations.

**Soil treatment:** To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

**Existing Vegetation at the well pad:** The historic climax plant community is a grassland dominated by black grama, dropseeds, and blue stems with sand sage and shinnery oak distributed evenly throughout. Current landscape displays mesquite, shinnery oak, yucca, desert sage, fourwing saltbush, snakeweed, and bunch grasses.

**Existing Vegetation at the well pad attachment:**

**Existing Vegetation Community at the road:** Refer to "Existing Vegetation at the well pad"

**Existing Vegetation Community at the road attachment:**

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 29H

Existing Vegetation Community at the pipeline: Refer to "Existing Vegetation at the well pad"

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Refer to "Existing Vegetation at the well pad"

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

### Seed Management

#### Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

#### Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre
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Seed reclamation attachment:

#### Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 JV-P

**Well Number:** 29H

**Existing invasive species?** NO

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Weed treatment plan description:** No invasive species present. Standard regular maintenance to maintain a clear location and road.

**Weed treatment plan attachment:**

**Monitoring plan description:** Identify areas supporting weeds prior to construction; prevent the introduction and spread of weeds from construction equipment during construction; and contain weed seeds and propagules by preventing segregated topsoil from being spread to adjacent areas. No invasive species present. Standard regular maintenance to maintain a clear location and road.

**Monitoring plan attachment:**

**Success standards:** To maintain all disturbed areas as per Gold Book standards.

**Pit closure description:** N/A

**Pit closure attachment:**

## Section 11 - Surface Ownership

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 JV-P

**Well Number:** 29H

**Disturbance type:** PIPELINE

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 29H

## Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

### ROW Applications

**SUPO Additional Information:** BTA has entered into a PBPA (MOA) agreement with the BLM for the cultural resources examination for this project. Production from the well will be processed at the Mesa 8105 JV-P #32H Proposed Central Tank Battery. CEHMM will Prepare EA, using BLM onsite field record, and furnish directly to the Carlsbad BLM office.

Use a previously conducted onsite? NO

Previous Onsite information:

### Other SUPO Attachment

Mesa 32H ACCESS RD\_06-24-2016.pdf

Tank Battery for the 8105 Mesa 32H\_06-24-2016.pdf

PWD

## 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

**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 JV-P

**Well Number:** 29H

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**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:**

**Describe 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:**

**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 surface owner:**

**PWD disturbance (acres):**

**Unlined pit PWD on or off channel:**

**Unlined pit PWD discharge volume (bbl/day):**

**Unlined pit specifications:**

**Precipitated solids disposal:**

**Describe precipitated solids disposal:**

**Precipitated solids disposal permit:**

**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 JV-P

**Well Number:** 29H

**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?**

**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?**

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 29H

UIC Permit attachment:

### Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

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):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

### Bond Info

#### Bond Information

Federal/Indian APD: FED

BLM Bond number: NM1195

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:

**Operator Name:** BTA OIL PRODUCERS LLC

**Well Name:** MESA 8105 JV-P

**Well Number:** 29H

**Reclamation bond amount:**

**Reclamation bond rider amount:**

**Additional reclamation bond information attachment:**

## Operator Certification

### Operator Certification

*I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.*

**NAME:** Kayla McConnell

**Signed on:** 06/24/2016

**Title:** Regulatory Analyst

**Street Address:** 104 S. Pecos

**City:** Midland

**State:** TX

**Zip:** 79701

**Phone:** (432)682-3753

**Email address:** kmccconnell@btaoil.com

### Field Representative

**Representative Name:** Nick Eaton

**Street Address:** 104 South Pecos

**City:** Midland

**State:** NM

**Zip:** 79701

**Phone:** (432)682-3753

**Email address:**

## Payment Info

### Payment

**APD Fee Payment Method:** BLM DIRECT

**CBS Receipt number:** 3591794