

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

HOBBS OCD  
MAR 27 2017  
RECEIVED

FORM APPROVED  
OMB No. 1004-0137  
Expires October 31, 2014

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM14492
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. NMNM14492
3a. Address 104 S. Pecos Midland TX 79701		8. Lease Name and Well No. (305301) MESA 8105 JV-P 30H
3b. Phone No. (include area code) (432)682-3753		9. API Well No. 30-025-43724
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface NENE / 330 FNL / 380 FEL / LAT 32.078902 / LONG -103.621118 At proposed prod. zone SESE / 230 FSL / 380 FEL / LAT 32.051025 / LONG -103.621038		10. Field and Pool, or Exploratory (97838) JENNINGS / UPPER BN SPR SHALE
14. Distance in miles and direction from nearest town or post office* 25 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 1 / T26S / R32E / NMP
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet		12. County or Parish LEA
16. No. of acres in lease 1960		13. State NM
17. Spacing Unit dedicated to this well 320		
18. Distance from proposed location* to nearest well, drilling, completed, 718 feet applied for, on this lease, ft.		
19. Proposed Depth 9520 feet / 19415 feet		20. BLM/BIA Bond No. on file FED: NM1195
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3367 feet		22. Approximate date work will start* 09/01/2016
		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  
03/28/17



APD ID: 10400001905

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Type: OIL WELL

Submission Date: 06/24/2016

Federal/Indian APD: FED

Well Number: 30H

Well Work Type: Drill

Highlight

All Changes

## Application

### Section 1 - General

APD ID: 10400001905

BLM Office: CARLSBAD

Federal/Indian APD: FED

Lease number: NMNM14492

Surface access agreement in place?

Agreement in place? YES

Agreement number: NMNM14492

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

Operator letter of designation:

Keep application confidential? YES

Tie to previous NOS?

User: Kayla McConnell

Is the first lease penetrated for production Federal or Indian? FED

Lease Acres: 1960

Allotted?

Reservation:

Federal or Indian agreement: FEDERAL

Submission Date: 06/24/2016

Title: Regulatory Analyst

APD Operator: BTA OIL PRODUCERS LLC

### 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

Well in Master Development Plan? NO

Well in Master SUPO? NO

Well in Master Drilling Plan? NO

Master Development Plan name:

Master SUPO name:

Master Drilling Plan name:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 30H

Well Name: MESA 8105 JV-P

Well Number: 30H

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? NONE

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: 718 FT

Distance to lease line: 330 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: 8105 JV-P Mesa 30H C-102\_01-10-2017.pdf

Well work start Date: 09/01/2016

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: 32.078902

Longitude: -103.621118

SHL

Elevation: 3367

MD: 0

TVD: 0

Leg #: 1

Lease Type: FEDERAL

Lease #: NMNM14492

NS-Foot: 330

NS Indicator: FNL

EW-Foot: 380

EW Indicator: FEL

Twsp: 26S

Range: 32E

Section: 1

Aliquot: NENE

Lot:

Tract:



Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 30H

	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.078902	Longitude: -103.621118	
KOP	Elevation: -5580	MD: 8947	TVD: 8947
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM14492	
	NS-Foot: 330	NS Indicator: FNL	
	EW-Foot: 380	EW Indicator: FEL	
	Twsp: 26S	Range: 32E	Section: 1
	Aliquot: NENE	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.07733	Longitude: -103.621114	
PPP	Elevation: -6153	MD: 9847	TVD: 9520
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM14492	
	NS-Foot: 902	NS Indicator: FNL	
	EW-Foot: 380	EW Indicator: FEL	
	Twsp: 26S	Range: 32E	Section: 1
	Aliquot: SENE	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.051299	Longitude: -103.621039	
EXIT	Elevation: -6153	MD: 19085	TVD: 9520
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM14492	
	NS-Foot: 330	NS Indicator: FSL	
	EW-Foot: 380	EW Indicator: FEL	
	Twsp: 26S	Range: 32E	Section: 12
	Aliquot: SESE	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.051025	Longitude: -103.621038	
BHL	Elevation: -6153	MD: 19415	TVD: 9520
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM14492	
	NS-Foot: 230	NS Indicator: FSL	
	EW-Foot: 380	EW Indicator: FEL	



Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 30H

Twsp: 26S

Range: 32E

Section: 12

Aliquot: SESE

Lot:

Tract:

## Drilling Plan

### Section 1 - Geologic Formations

ID: Surface formation

Name: UNKNOWN

Lithology(ies):

ALLUVIUM

Elevation: 3367

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: 2624

True Vertical Depth: 743

Measured Depth: 744

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 2

Name: TOP SALT

Lithology(ies):

Elevation: 2080

True Vertical Depth: 1287

Measured Depth: 1289

Mineral Resource(s):

NONE

Is this a producing formation? N

**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

**ID:** Formation 3

**Name:** BASE OF SALT

**Lithology(ies):**

**Elevation:** -1208

**True Vertical Depth:** 4575

**Measured Depth:** 4579

**Mineral Resource(s):**

NONE

**Is this a producing formation?** N

**ID:** Formation 4

**Name:** DELAWARE

**Lithology(ies):**

**Elevation:** -1427

**True Vertical Depth:** 4794

**Measured Depth:** 4799

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** N

**ID:** Formation 5

**Name:** BRUSHY CANYON

**Lithology(ies):**

**Elevation:** -4118

**True Vertical Depth:** 7485

**Measured Depth:** 7499

**Mineral Resource(s):**

NATURAL GAS

OIL

**Is this a producing formation?** N

**ID:** Formation 6

**Name:** BONE SPRING

**Lithology(ies):**

**Elevation:** -5576

**True Vertical Depth:** 8943

**Measured Depth:** 8964

**Mineral Resource(s):**

**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

NATURAL GAS

OIL

**Is this a producing formation?** N

## Section 2 - Blowout Prevention

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

**Rating Depth:** 11000

**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 4-½" 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\_06-10-2016.pdf

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

**BOP Diagram Attachment:**

BLM 3k BOP sundry\_06-10-2016.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:** 30H

**String Type:** INTERMEDIATE

**Other String Type:**

**Hole Size:** 12.25

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** -6153

**Bottom setting depth MD:** 4780

**Bottom setting depth TVD:** 4780

**Bottom setting depth MSL:** -10933

**Calculated casing length MD:** 4780

**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 30H CASING ASSUMPTIONS\_06-24-2016.pdf

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 30H

String Type: SURFACE

Other String Type:

Hole Size: 17.5

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: 3367

Bottom setting depth MD: ~~760~~ 830

Bottom setting depth TVD: ~~760~~ 830

Bottom setting depth MSL: 2607

Calculated casing length MD: ~~760~~ 830

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 30H CASING ASSUMPTIONS\_06-24-2016.pdf

**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

**String Type:** PRODUCTION

**Other String Type:**

**Hole Size:** 8.75

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** -6153

**Bottom setting depth MD:** 19415

**Bottom setting depth TVD:** 9520

**Bottom setting depth MSL:** -15673

**Calculated casing length MD:** 19415

**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 30H CASING ASSUMPTIONS\_06-24-2016.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: 30H

**Stage Tool Depth:**

Lead

Top MD of Segment: 0

Bottom MD Segment: 380

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: 380

Bottom MD Segment: 760

Cement Type: Class C

Additives: 2% CaCl<sub>2</sub>

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: 3980

Cement Type: 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: 3980

Bottom MD Segment: 4780

Cement Type: 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): 250

Yield (cu.ff./sk): 1.33

Density: 14.8

Volume (cu.ft.): 332

Percent Excess:

Tail

Top MD of Segment: 7000

Bottom MD Segment: 19415

Cement Type: 50:50 H

Additives: 50:50 Class H 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: 30H

## 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: 4780	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:	
Top Depth: 0	Bottom Depth: 760
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:	

**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

**Top Depth:** 760

**Bottom Depth:** 4780

**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:**

### **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 geohazards 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: 30H

## Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Mesa 30H Directional report\_06-15-2016.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 30H Wall plot\_06-15-2016.pdf

Other Variance attachment:

Casing Head Running Procedure\_02-17-2017.pdf

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

SUPO

## Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Mesa 30H Vicinity Map\_06-15-2016.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 30H Location Plat\_06-15-2016.pdf

New road type: RESOURCE

Length: 3070.3

Feet

Width (ft.): 25

Max slope (%): 2

Max grade (%): 2

Army Corp of Engineers (ACOE) permit required? NO

**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

**ACOE Permit Number(s):**

**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 30H - 1 Mile Radius Map\_06-16-2016.pdf

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 30H

Existing Wells description:

## 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\_06-21-2016.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: PRIVATE

Water source transport method: PIPELINE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 100000

Source volume (acre-feet): 12.88931

Source volume (gal): 4200000

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

Water source type: OTHER

Describe type: Commercial Water

Source longitude:

Source latitude:

Source datum:

Water source permit type:

Source land ownership:

Water source transport method:

Source transportation land ownership:

Water source volume (barrels): 100000

Source volume (acre-feet): 12.88931

Source volume (gal): 4200000



**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

**Water source and transportation map:**

Mesa 30H Water Source Map\_06-23-2016.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.):**

**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

**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:**

**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY

**Disposal location ownership:** COMMERCIAL

**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

**Disposal type description:**

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

**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

**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**

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 30H

### 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

### 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 30H Well Site Layout\_06-22-2016.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): 1.76

Access road short term disturbance (acres): 1.76

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: 5.43

Total short term disturbance: 3.82

**Reconstruction method:** The areas planned for interim reclamation will then be recontoured to the original contour if



**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

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:**

**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:**

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 30H

### Seed Summary

Total pounds/Acre:

Seed Type

Pounds/Acre

Seed reclamation attachment:

### Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

Seed method:

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:** 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:**

**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**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:**

**Disturbance type:** PIPELINE

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

**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:**

## Section 12 - Other Information

**Right of Way needed?** YES

**Use APD as ROW?** YES

**ROW Type(s):** 281001 ROW - ROADS, 288100 ROW – O&G Pipeline, FLPMA (Powerline)

## 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

Tank Battery for the 8105 Mesa 32H002 (003)\_06-22-2016.pdf

Mesa 8105 JV-P ACCESS RD\_06-22-2016.pdf

PWD



**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

## 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:**

**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:**

**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

**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:**

**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:**

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P

Well Number: 30H

#### 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? 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?

**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

**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:**

**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 S. Pecos



**Operator Name:** BTA OIL PRODUCERS LLC

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

**Well Number:** 30H

**City:** Midland

**State:** TX

**Zip:** 79701

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

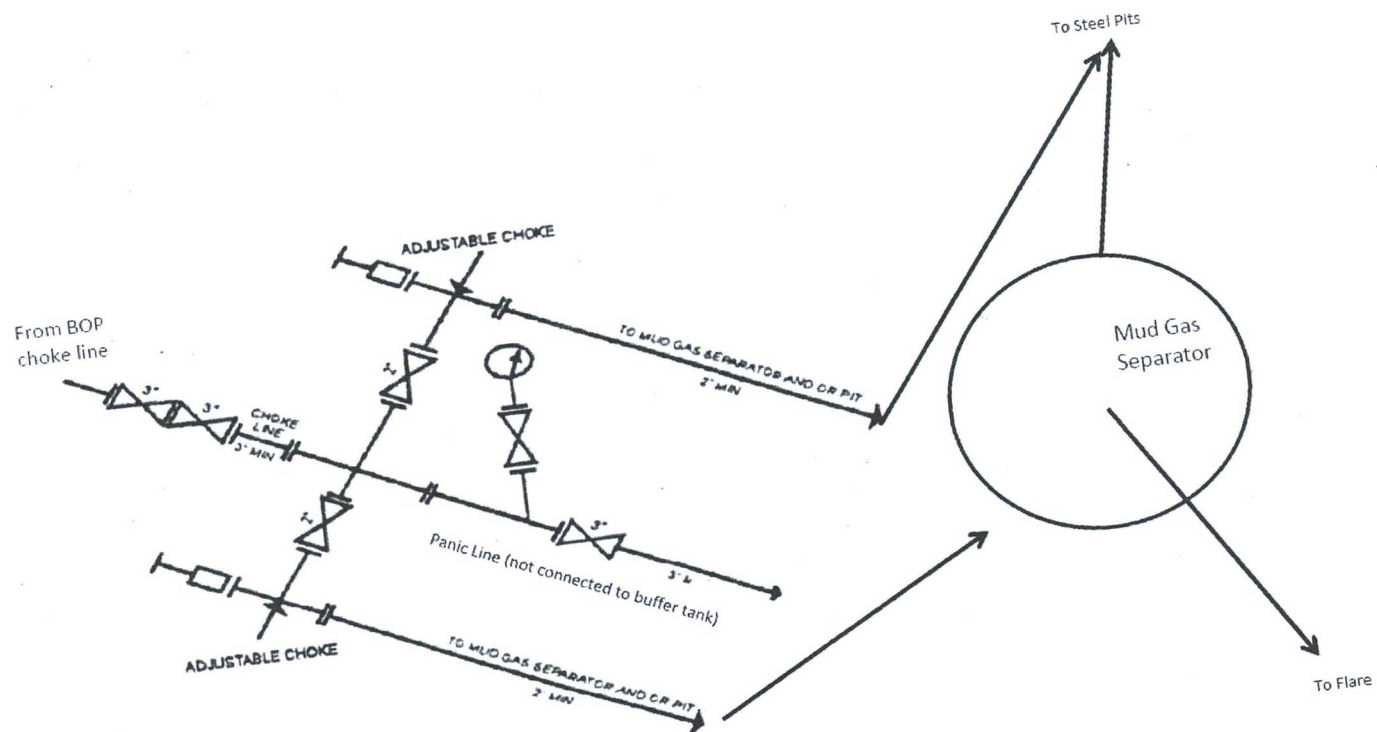
**Email address:**

### Payment Info

#### Payment

**APD Fee Payment Method:** BLM DIRECT

**CBS Receipt number:** 3591798



3M choke manifold design

Exhibit A1

## 3,000 psi BOP Schematic

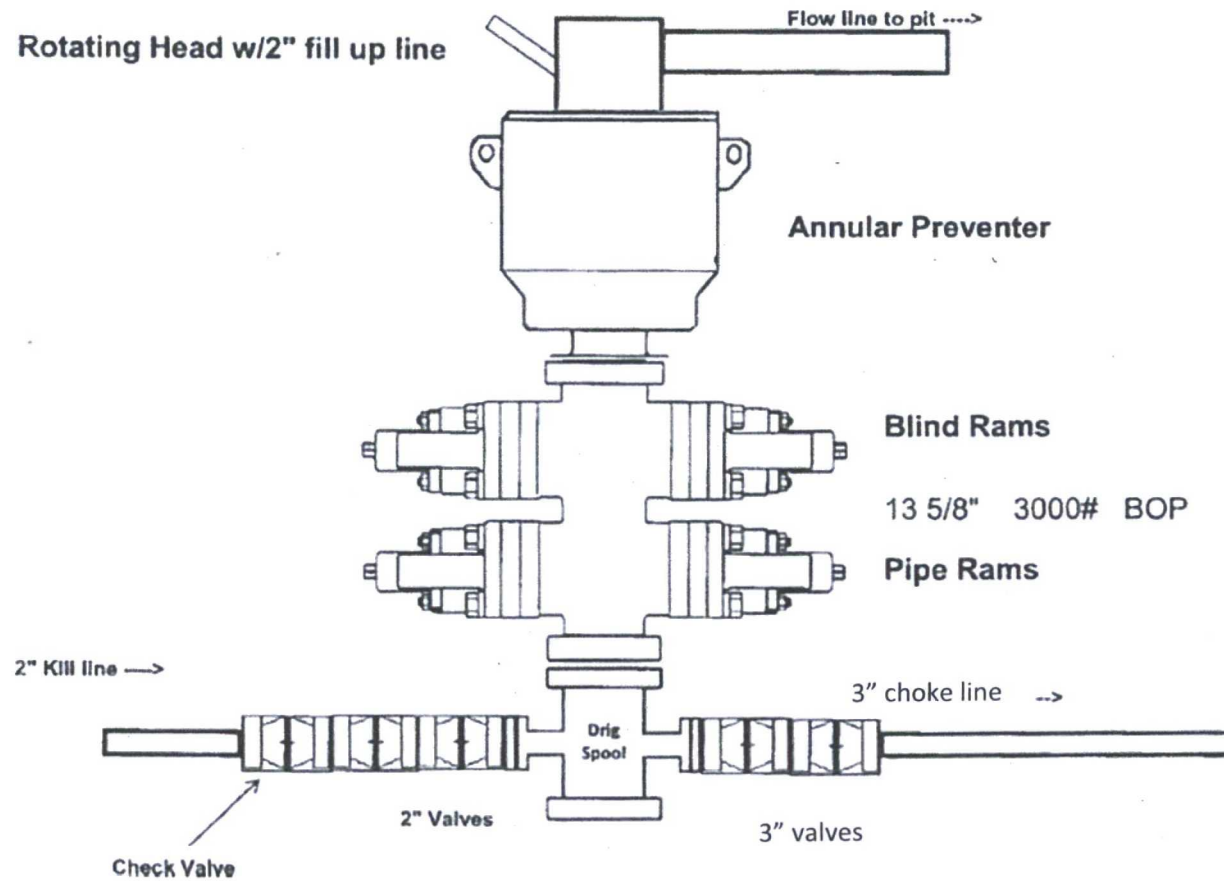
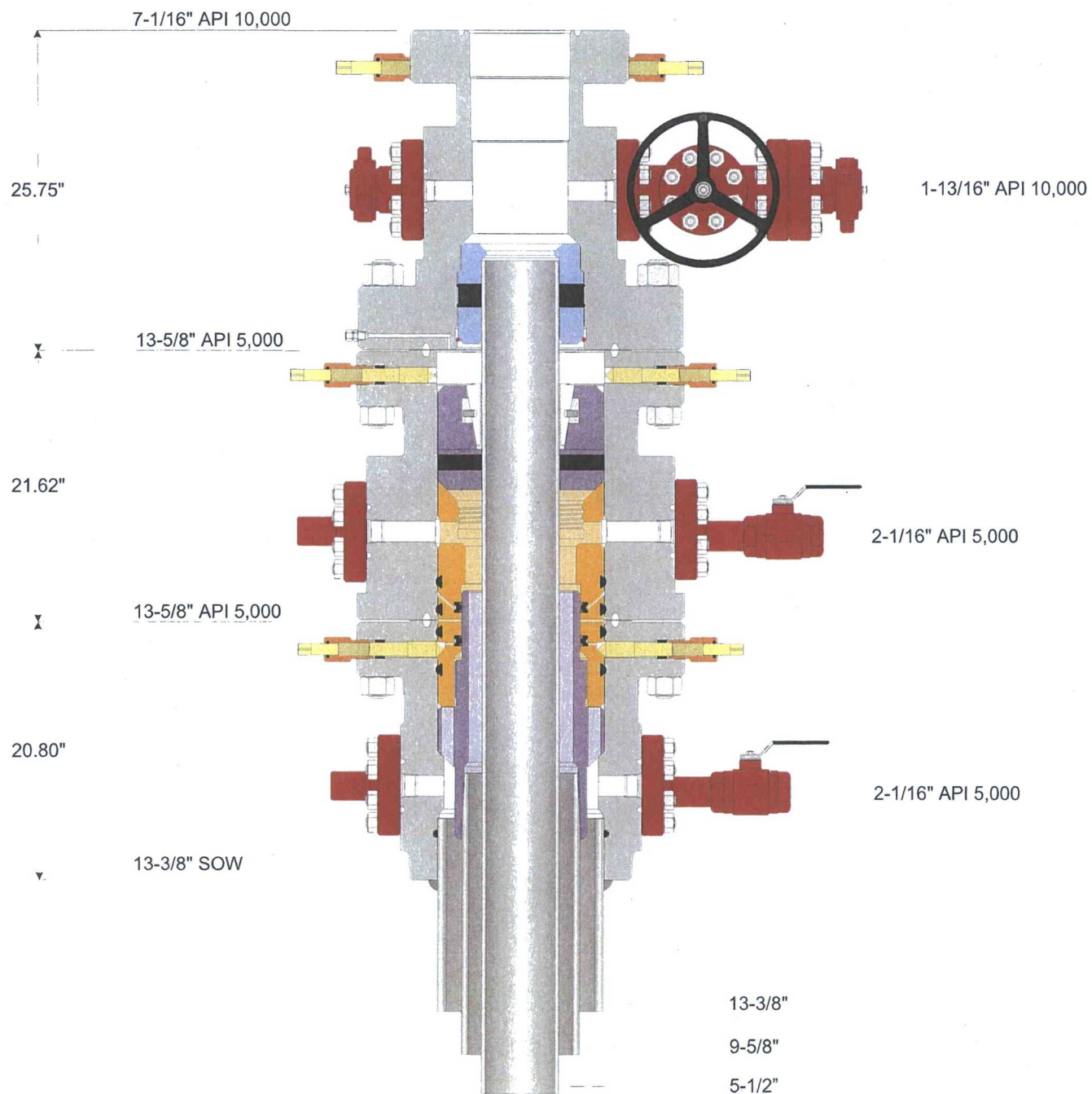


Exhibit A

NOTE: THIS DRAWING IS NOT TO SCALE. THE DIMENSIONS REFLECTED ON THIS DRAWING ARE ESTIMATED DIMENSIONS AND ARE FOR REFERENCE ONLY.



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Customer: BTA OIL PRODUCERS	Project No.: 146245	Quote No.: 291545 v2
Project Name: WEST TEXAS	Date: 07/06/16	Drawn By: JL





BTA Oil Producers, LLC

Well: Mesa 8105 JV-P #30H

Casing Assumption

Hole Size	Csg.Size	From (MD)	To (MD)	From (TVD)	To (TVD)	Tapered String	Weight (lbs)	Grade	Conn.	Collapse	Burst	Body Tension	Joint Tension	Dry/Buoyant	Mud Weight (ppg)
17.500	13.375	0	760	0	760	No	54.5	J-55	STC	3.40	9.75	24.30	14.53	Dry	8.40
12.250	9.625	0	4780	0	4780	No	40.0	J-55	LTC	1.68	2.58	3.29	2.71	Dry	10.00
8.750	5.500	0	19415	0	9520	No	17.0	P-110	LTC	3.04	4.32	3.37	2.74	Dry	9.20