Form 3160-3
(March 2012)

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: ☑ DRILL ☐ REENTER	5. Lease Serial No. NMNM14492
	6. If Indian, Allotee or Tribe Name
	7 If Unit or CA Agreement, Name and No. NMNM14492
1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone	8. Lease Name and Well No. (305301) MESA 8105 JV-P 31H
2. Name of Operator BTA OIL PRODUCERS LLC (260297)	9. API Well No. 30-025- 43725
3a. Address 104 S. Pecos Midland TX 79701 / 3b. Phone No. (include area code) (432)682-3753	10. Field and Pool, or Exploratory (97838) JENNINGS / UPPER BN SPR SHALE
4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface NWNE / 383 FNL / 1897 FEL / LAT 32.078735 / LONG -103.626013 At proposed prod. zone SWSE / 200 FSL / 1980 FEL / LAT 32.050913 / LONG -103.626201	11. Sec., T. R. M. or Blk. and Survey or Area SEC 1 / T26S / R32E / NMP
14. Distance in miles and direction from nearest town or post office* 25 miles	12. County or Parish LEA / 13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 383 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, applied for, on this lease, ft. 1284 feet	19. Proposed Depth 9520 feet / 19395 feet / 20. BLM/BIA Bond No. on file FED: NM1195
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3354 feet	22. Approximate date work will start* 09/14/2016 / 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.
2. A Drilling Plan.
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).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
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

AFMSS

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

APD Print Report
03/22/2017

APD ID: 10400001903
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: 31H
Well Work Type: Drill

Highlight All Changes

Application

Section 1 - General

APD ID: 10400001903
Tie to previous NOS?
Submission Date: 06/24/2016
BLM Office: CARLSBAD
User: Kayla McConnell
Title: Regulatory Analyst
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM14492
Lease Acres: 1960
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? YES
Federal or Indian agreement: FEDERAL
Agreement number: NMNM14492
Agreement name:
Keep application confidential? YES
Permitting Agent? NO
APD Operator: BTA OIL PRODUCERS LLC
Operator letter of designation:
Keep application confidential? YES

Operator Info

Operator Organization Name: BTA OIL PRODUCERS LLC
Operator Address: 104 S. Pecos
Zip: 79701
Operator PO Box:
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
Mater Development Plan name:
Well in Master SUPO? NO
Master SUPO name:
Well in Master Drilling Plan? NO
Master Drilling Plan name:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

Well Name: MESA 8105 JV-P **Well Number:** 31H **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:** 1284 FT **Distance to lease line:** 383 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: MESA 8105 JV-P 31H C102_01-10-2017.pdf

Well work start Date: 09/14/2016 **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: 32.078735	**Longitude:** -103.626013	
SHL	**Elevation:** 3354	**MD:** 0	**TVD:** 0
Leg #: 1	**Lease Type:** FEDERAL	**Lease #:** NMNM14492	
	NS-Foot: 383	**NS Indicator:** FNL	
	EW-Foot: 1897	**EW Indicator:** FEL	
	Twsp: 26S	**Range:** 32E	**Section:** 1
	Aliquot: NWNE	**Lot:**	**Tract:**

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

	STATE: NEW MEXICO	**Meridian:** NEW MEXICO PRINCIPAL	**County:** LEA
	Latitude: 32.078735	**Longitude:** -103.626013	
KOP	**Elevation:** 3354	**MD:** 8947	**TVD:** 8947
Leg #: 1	**Lease Type:** FEDERAL	**Lease #:** NMNM14492	
	NS-Foot: 383	**NS Indicator:** FNL	
	EW-Foot: 1897	**EW Indicator:** FEL	
	Twsp: 26S	**Range:** 32E	**Section:** 1
	Aliquot: NWNE	**Lot:**	**Tract:**
	STATE: NEW MEXICO	**Meridian:** NEW MEXICO PRINCIPAL	**County:** LEA
	Latitude: 32.077159	**Longitude:** -103.626024	
PPP	**Elevation:** -6166	**MD:** 9847	**TVD:** 9520
Leg #: 1	**Lease Type:** FEDERAL	**Lease #:** NMNM14492	
	NS-Foot: 956	**NS Indicator:** FNL	
	EW-Foot: 1901	**EW Indicator:** FEL	
	Twsp: 26S	**Range:** 32E	**Section:** 1
	Aliquot: NWNE	**Lot:**	**Tract:**
	STATE: NEW MEXICO	**Meridian:** NEW MEXICO PRINCIPAL	**County:** LEA
	Latitude: 32.05127	**Longitude:** -103.626198	
EXIT	**Elevation:** -6166	**MD:** 19200	**TVD:** 9520
Leg #: 1	**Lease Type:** FEDERAL	**Lease #:** NMNM14492	
	NS-Foot: 330	**NS Indicator:** FSL	
	EW-Foot: 1979	**EW Indicator:** FEL	
	Twsp: 26S	**Range:** 32E	**Section:** 12
	Aliquot: SWSE	**Lot:**	**Tract:**
	STATE: NEW MEXICO	**Meridian:** NEW MEXICO PRINCIPAL	**County:** LEA
	Latitude: 32.050913	**Longitude:** -103.626201	
BHL	**Elevation:** -6166	**MD:** 19395	**TVD:** 9520
Leg #: 1	**Lease Type:** FEDERAL	**Lease #:** NMNM14492	
	NS-Foot: 200	**NS Indicator:** FSL	
	EW-Foot: 1980	**EW Indicator:** FEL	

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

Twsp: 26S **Range:** 32E **Section:** 12

Aliquot: SWSE **Lot:** **Tract:**

Drilling Plan

Section 1 - Geologic Formations

ID: Surface formation **Name:** UNKNOWN

Lithology(ies):

ALLUVIUM

Elevation: 3354 **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: 2629 **True Vertical Depth:** 725 **Measured Depth:** 726

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 2 **Name:** TOP SALT

Lithology(ies):

Elevation: 1960 **True Vertical Depth:** 1394 **Measured Depth:** 1396

Mineral Resource(s):

NONE

Is this a producing formation? N

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

ID: Formation 3 **Name:** DELAWARE

Lithology(ies):

Elevation: -1437 **True Vertical Depth:** 4791 **Measured Depth:** 4796

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 4 **Name:** BRUSHY CANYON

Lithology(ies):

Elevation: -4068 **True Vertical Depth:** 7422 **Measured Depth:** 7436

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 5 **Name:** BONE SPRINGS

Lithology(ies):

Elevation: -5631 **True Vertical Depth:** 8985 **Measured Depth:** 9006

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

Section 2 - Blowout Prevention

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

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 (3000psi 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? NO

Variance request:

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_06-24-2016.pdf

BOP Diagram Attachment:

BLM 3k BOP sundry_06-24-2016.pdf

Section 3 - Casing

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

String Type: SURFACE **Other String Type:**

Hole Size: 17.5

Top setting depth MD: 0 **Top setting depth TVD:** 0

: see CoA

Top setting depth MSL: 3354

Bottom setting depth MD: ~~745~~ 830 **Bottom setting depth TVD:** ~~745~~ 830

Bottom setting depth MSL: 2629

Calculated casing length MD: ~~745~~ 830

Casing Size: ~~7.625~~ 13 3/8 **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 JV-P 31H - CASING ASSUMPTIONS_06-24-2016.pdf

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

String Type: INTERMEDIATE **Other String Type:**

Hole Size: 12.25

Top setting depth MD: 0 **Top setting depth TVD:** 0

Top setting depth MSL: 3354

Bottom setting depth MD: 4755 **Bottom setting depth TVD:** 4755

Bottom setting depth MSL: -1401

Calculated casing length MD: 4755

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 JV-P 31H - CASING ASSUMPTIONS_06-24-2016.pdf

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

String Type: PRODUCTION **Other String Type:**

Hole Size: 8.75

Top setting depth MD: 0 **Top setting depth TVD:** 0

Top setting depth MSL: 3354

Bottom setting depth MD: 19395 **Bottom setting depth TVD:** 9520

Bottom setting depth MSL: -6166

Calculated casing length MD: 19395

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 JV-P 31H - CASING ASSUMPTIONS_06-24-2016.pdf

Section 4 - Cement

Casing String Type: SURFACE

Stage Tool Depth:

Lead

Top MD of Segment: 0 **Bottom MD Segment:** 373 **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: 373 **Bottom MD Segment:** 745 **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:** 3955 **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: 3955 **Bottom MD Segment:** 4755 **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.):** 33.2 **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):** 4.41

Density: 10.5 **Volume (cu.ft.):** 882 **Percent Excess:**

Tail

Top MD of Segment: 7000 **Bottom MD Segment:** 19395 **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:** 31H

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:** 745

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: 745 **Bottom Depth:** 4755

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:** 31H

Top Depth: 4755 **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:

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 proessures, 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:** 31H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

MESA 8105 JVP 31H DIRECTIONAL REPORT_06-24-2016.pdf

Mesa 8105 JVP 31H Wall plot_01-10-2017.pdf

Other proposed operations facets description:

A variance is requested for a multi bowl wellhead, see the attached running procedure and schematic. BTA also request variance f coflex choke line, see the attached test charts and specs.

Note: The unknown surface formation is Quaternary.

Other proposed operations facets attachment:

Mesa 8105 JVP 31H - Multi Bowl Wellhead Schematic_01-10-2017.pdf

Mesa 8105 JVP 31H - Casing Head Running Procedure (1)_01-10-2017.pdf

Mesa 8105 JVP 31H - Choke hose test chart and specs_01-10-2017.pdf

Mesa 8105 JVP 31H - H2S Plan_01-10-2017.pdf

Mesa 8105 JVP 31H - H2S Equipment Schematic _01-10-2017.pdf

Other Variance attachment:

SUPO

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

MESA 8105 JVP 31H vicinity map_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:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

MESA 8105 JVP 31H topographical

New road type: TWO-TRACK

Length: 4250 Feet **Width (ft.):** 25

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

Army Corp of Engineers (ACOE) permit required? NO

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:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

8105 JV-P Mesa 31H - 1 Mile Radius Map_06-24-2016.pdf

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_06-24-2016.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 31H Water Source Map_06-24-2016.pdf

Water source comments:

New water well? NO

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

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: 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.

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

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:

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

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

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 8105 JVP 31H Well Site Plan (600s)_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): 3.12 **Wellpad short term disturbance (acres):** 2.84

Access road long term disturbance (acres): 2.43 **Access road short term disturbance (acres):** 2.43

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: 5.55 **Total short term disturbance:** 5.27

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 seedbedpreparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, orother 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:**

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:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

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:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

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.

Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment

Tank Battery for the 8105 Mesa 32H_06-24-2016.pdf

Mesa 32H ACCESS RD_06-24-2016.pdf

PWD

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

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:

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:

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:

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?

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:** 31H

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:** 31H

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: kmcconnell@btaoil.com

Field Representative

Representative Name: Nick Eaton

Street Address: 104 South Pecos

Operator Name: BTA OIL PRODUCERS LLC

Well Name: MESA 8105 JV-P **Well Number:** 31H

City: Midland **State:** NM **Zip:** 79701

Phone: (432)682-3753

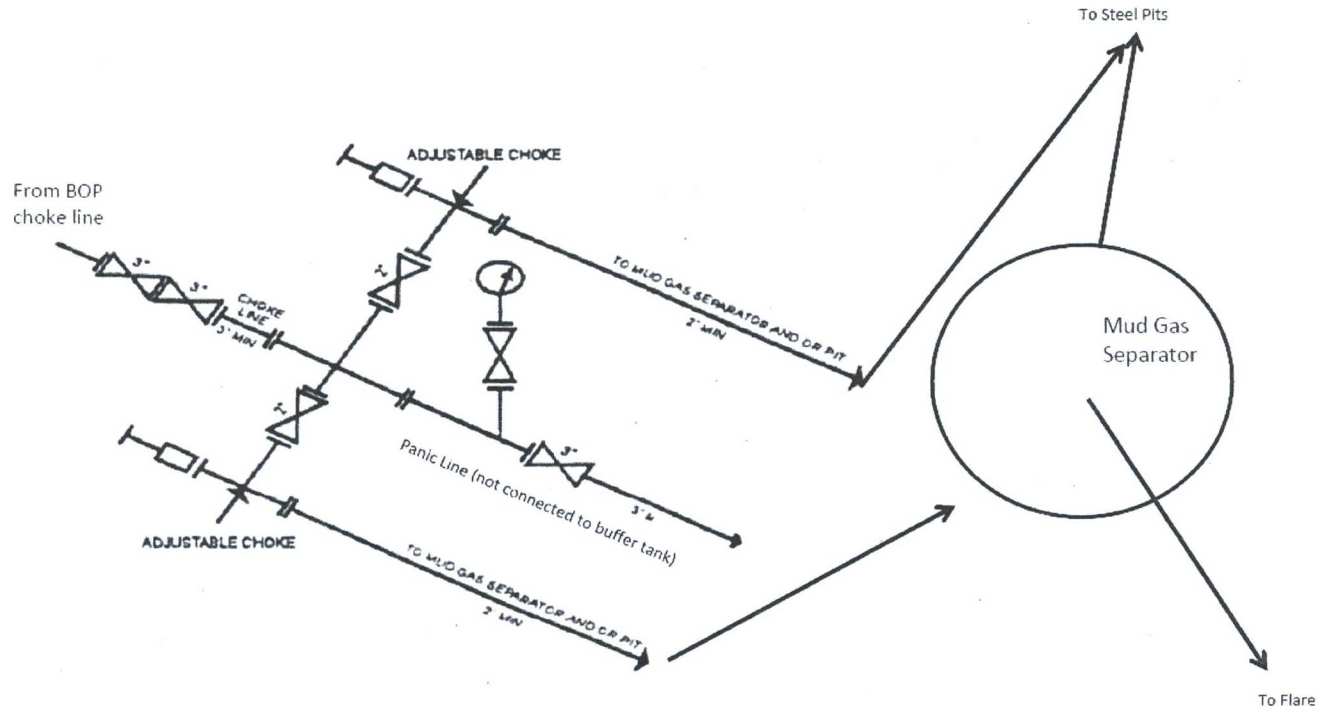
Email address:

Payment Info

Payment

APD Fee Payment Method: BLM DIRECT

CBS Receipt number: 3591800



3M choke manifold design

Exhibit A1

3,000 psi BOP Schematic

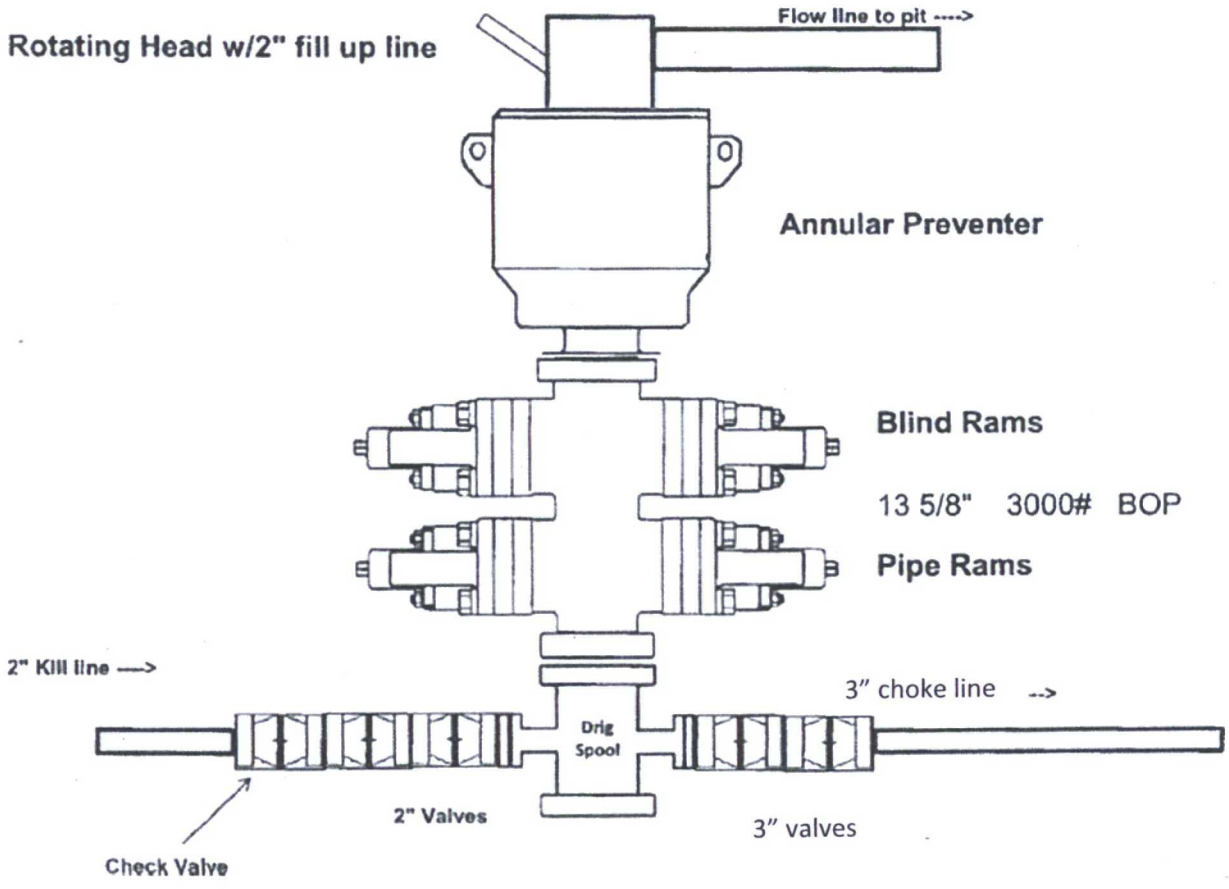
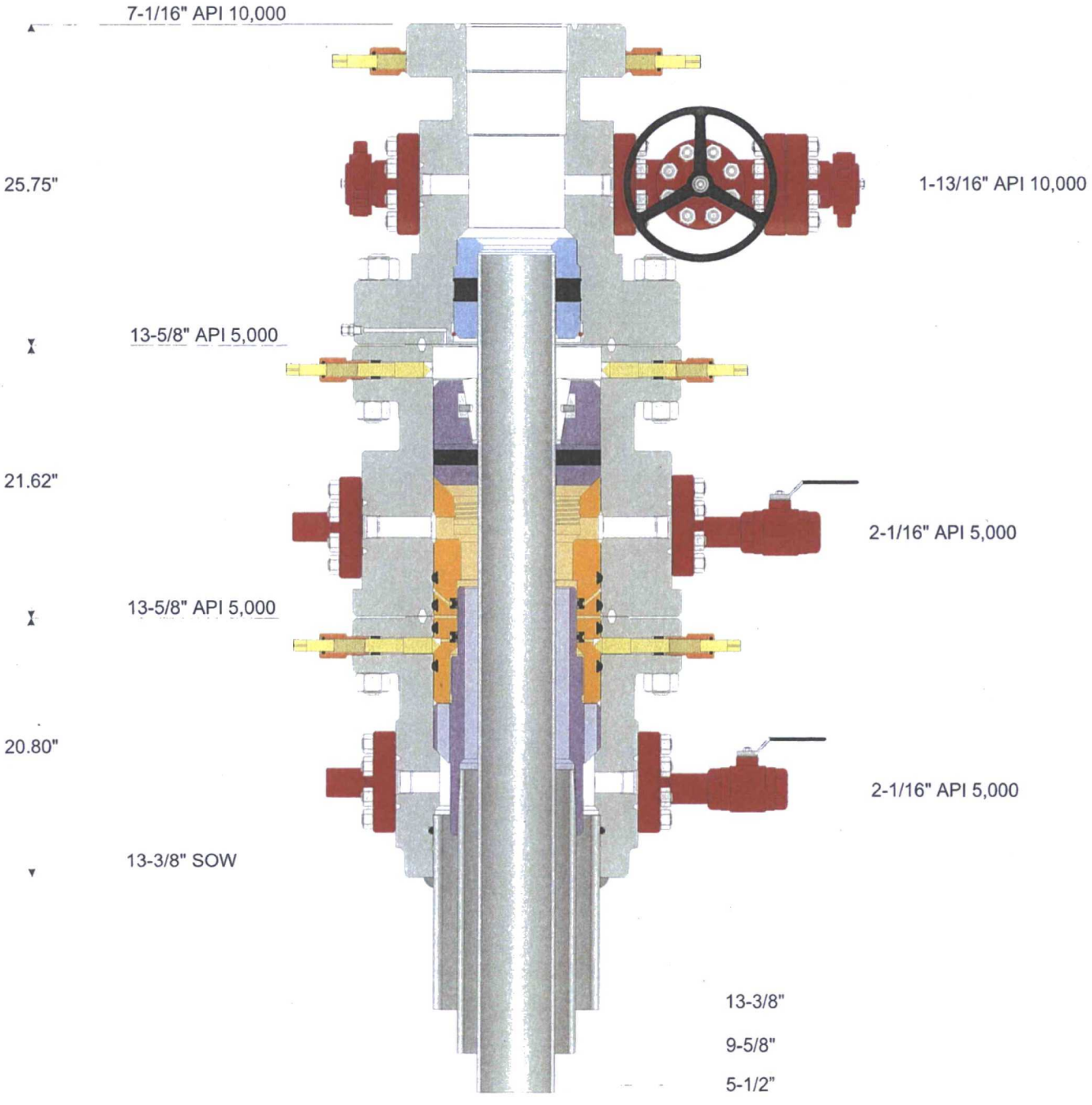


Exhibit A

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



Weatherford®

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

Continental

CONTITECH RUBBER Industrial Kft.	No:QC-DB- 599/ 2014
	Page: 16 / 176

Rig 94 Asset 24455

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°:	1592
PURCHASER:	ContiTech Oil & Marine Corp.			P.O. N°:	4500461753
CONTITECH ORDER N°:	539225	HOSE TYPE:	3" ID	Choke & Kill Hose	
HOSE SERIAL N°:	68547	NOMINAL / ACTUAL LENGTH:		7,62 m / 7,66 m	
W.P. 68,9 MPa	10000 psi	T.P. 103,4 MPa	15000 psi	Duration:	60 min.

Pressure test with water at ambient temperature

See attachment. (1 page)

→ 10 Min.

↑ 50 MPa

COUPLINGS Type	Serial N°		Quality	Heat N°	
3" coupling with	2574	5533	AISI 4130	A1582N	H8572
4 1/16" 10K API Swivel Flange end			AISI 4130	58855	
Hub			AISI 4130	A1199N	A1423N

Not Designed For Well Testing — API Spec 16 C

Fire Rated — Temperature rate:"B"

All metal parts are flawless

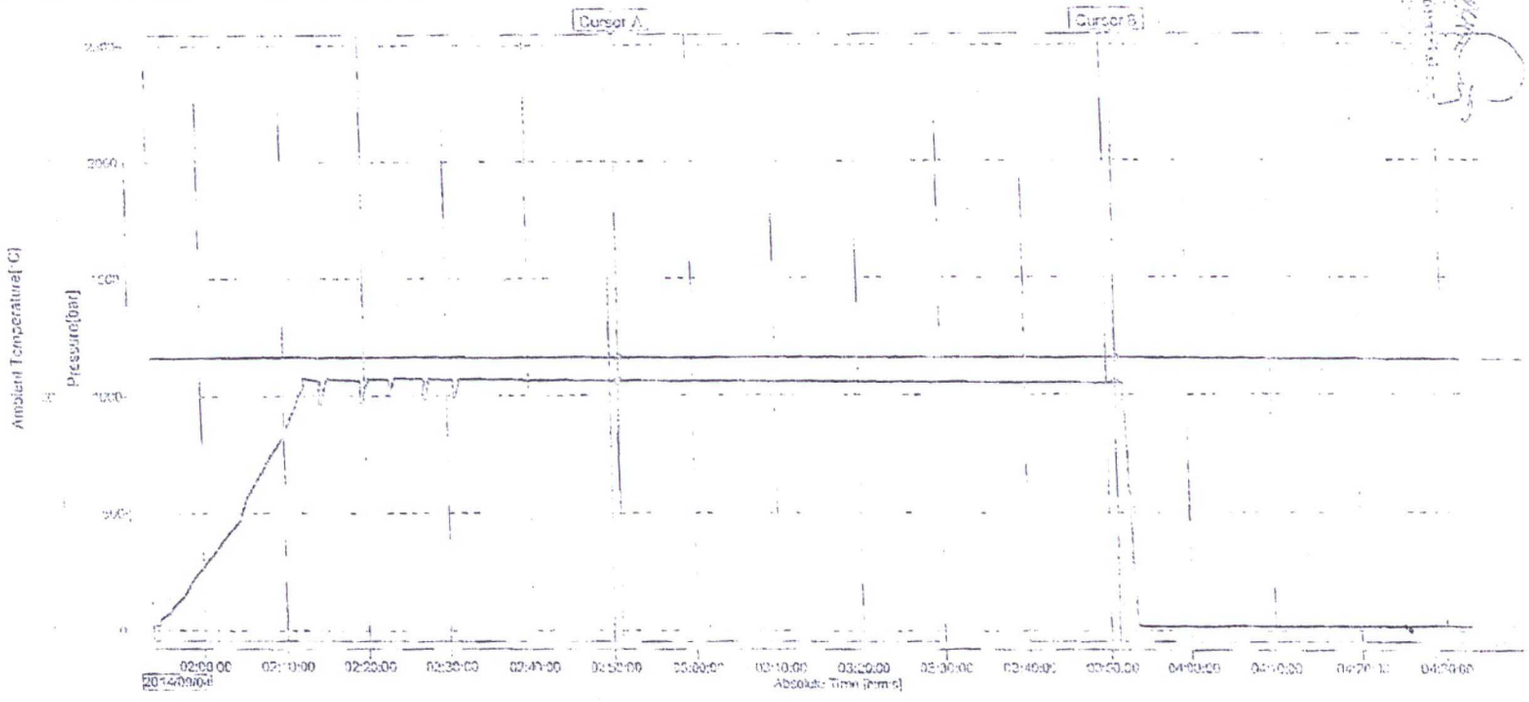
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements

Date:	Inspector	Quality Control
04 September 2014.		

File Name	: 000220_68543,68545+547.GEV,....,000236_68543,68545+547.GEV		
File Message	68543,68545,68547		
Device Type	: GX10	Sampling Inv	1.000 sec
Serial No.	: S5P606399	Start Time	2014/09/04 01:53:54.000
Data Count	: 9946	Stop Time	2014/09/04 04:39:39.000
Print Group	Press-Temp		
Print Range	: 2014/09/04 01:53:54.000 - 2014/09/04 04:39:39.000		
Comment			

	Cursor A	Cursor B	Difference
Data No.	3400	7032	3632
Absolute Time	2014/09/04 02:51:00.000	2014/09/04 03:51:06.000	01:00:06.000
Sig.Comment	Value A	Value B	Value B-A
Pressure[bar]	1062.00	1048.57	-13.39
Ambient Temperature[°C]	23.24	23.14	-0.10



ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No. 1588, 1590, 1592

Page 1 - 1

BTA Oil Producers, LLC **Well: Mesa 8105 JV-P #31H**

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	745	0	745	No	54.5	J-55	STC	3.40	9.75	24.30	14.53	Dry	8.4
12.250	9.625	0	4755	0	4755	No	40.0	J-55	LTC	1.68	2.58	3.29	2.71	Dry	10.0
8.750	5.500	0	19395	0	9520	No	17.0	P-110	LTC	3.04	4.32	3.37	2.74	Dry	9.2