Form 3160-3
(March 2012)

HOBBS OCD
JUN 16 2017
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FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
NMNM82799

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.
GRAMA 8817 16-9 FEDERAL CO 3H

2. Name of Operator
BTA OIL PRODUCERS LLC (260297)

9. API Well No.
30-025-43869

3a. Address
104 S. Pecos Midland TX 79701

3b. Phone No. *(include area code)*
(432)682-3753

10. Field and Pool, or Exploratory
WC-025 G-06 S223432L; BS (97922)

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface SESW / 200 FSL / 1980 FWL / LAT 32.385007 / LONG -103.47713
At proposed prod. zone NENW / 200 FNL / 1980 FWL / LAT 32.412928 / LONG -103.477079

11. Sec., T. R. M. or Blk. and Survey or Area
SEC 16 / T22S / R34E / NMP

14. Distance in miles and direction from nearest town or post office*
20 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)
200 feet

16. No. of acres in lease
640

17. Spacing Unit dedicated to this well
320

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
1465 feet

19. Proposed Depth
10425 feet / 20337 feet

20. BLM/BIA Bond No. on file
FED: NMB000849

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3480 feet

22. Approximate date work will start*
02/01/2017

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	Name *(Printed/Typed)*	Date
(Electronic Submission)	Kayla McConnell / Ph: (432)682-3753	11/14/2016

Title
Regulatory Analyst

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	Cody Layton / Ph: (575)234-5959	06/06/2017

Title	Office
Supervisor Multiple Resources	HOBBS

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 06/16/17

Double sided

INSTRUCTIONS

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

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

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

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

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

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

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160
PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.
ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.
EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Continued on page 3)

Additional Operator Remarks

Location of Well

1. SHL: SESW / 200 FSL / 1980 FWL / TWSP: 22S / RANGE: 34E / SECTION: 16 / LAT: 32.385007 / LONG: -103.47713 (TVD: 0 feet, MD: 0 feet)

PPP: SESW / 330 FSL / 1980 FWL / TWSP: 22S / RANGE: 34E / SECTION: 16 / LAT: 32.385364 / LONG: -103.477129 (TVD: 10425 feet, MD: 10752 feet)

BHL: NENW / 200 FNL / 1980 FWL / TWSP: 22S / RANGE: 34E / SECTION: 9 / LAT: 32.412928 / LONG: -103.477079 (TVD: 10425 feet, MD: 20337 feet)

BLM Point of Contact

Name: Melissa Agee

Title: Legal Instruments Examiner

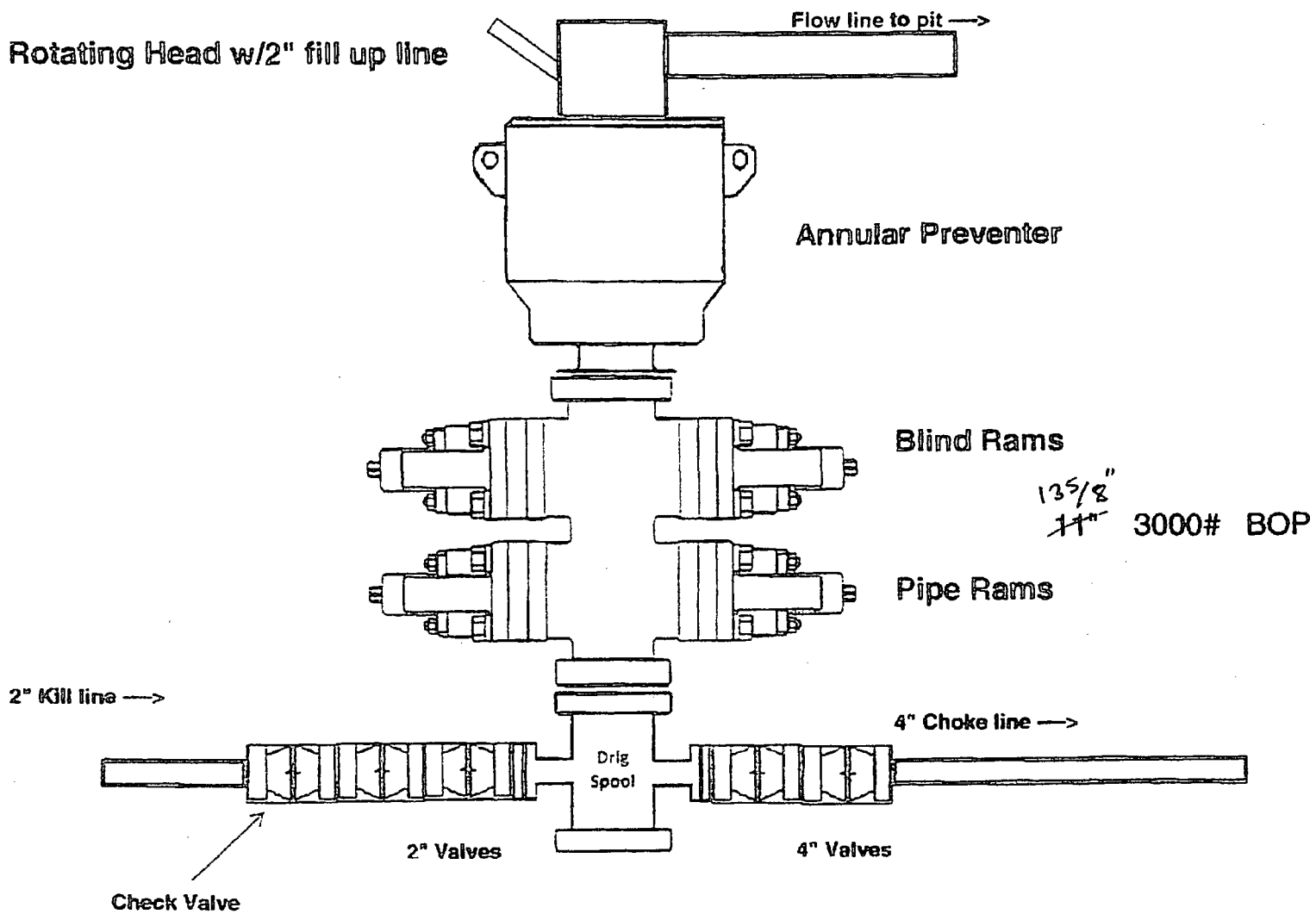
Phone: 5752345937

Email: magee@blm.gov

Review and Appeal Rights

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

3,000 psi BOP Schematic



13 5/8" 3000# BOP
~~11"~~

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

Application Data Report

06/07/2017

APD ID: 10400007080 **Submission Date:** 11/14/2016

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 3H

Well Type: OIL WELL **Well Work Type:** Drill

Section 1 - General

APD ID: 10400007080 **Tie to previous NOS?** **Submission Date:** 11/14/2016

BLM Office: HOBBS **User:** Kayla McConnell **Title:** Regulatory Analyst

Federal/Indian APD: FED **Is the first lease penetrated for production Federal or Indian?** FED

Lease number: NMNM82799 **Lease Acres:** 640

Surface access agreement in place? **Allotted?** **Reservation:**

Agreement in place? NO **Federal or Indian agreement:**

Agreement number:

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:**

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 3H **Well API Number:**

Field/Pool or Exploratory? Field and Pool **Field Name:** GRAMA RIDGE **Pool Name:** BONE SPRING, WEST

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 3H

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

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: 20 Miles **Distance to nearest well:** 1465 FT **Distance to lease line:** 200 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: GRAMA 8817 16-9 FED COM 3H C102_11-14-2016.pdf

Well work start Date: 02/01/2017 **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: 32.385007	**Longitude:** -103.47713	
SHL	**Elevation:** 3480	**MD:** 0	**TVD:** 0
Leg #: 1	**Lease Type:** STATE	**Lease #:** STATE	
	NS-Foot: 200	**NS Indicator:** FSL	
	EW-Foot: 1980	**EW Indicator:** FWL	
	Twsp: 22S	**Range:** 34E	**Section:** 16
	Aliquot: SESW	**Lot:**	**Tract:**

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 3H

	STATE: NEW MEXICO	**Meridian:** NEW MEXICO PRINCIPAL	**County:** LEA
	Latitude: 32.385007	**Longitude:** -103.47713	
KOP	**Elevation:** -6420	**MD:** 9900	**TVD:** 9900
Leg #: 1	**Lease Type:** STATE	**Lease #:** STATE	
	NS-Foot: 200	**NS Indicator:** FSL	
	EW-Foot: 1980	**EW Indicator:** FWL	
	Twsp: 22S	**Range:** 34E	**Section:** 16
	Aliquot: SESW	**Lot:**	**Tract:**
	STATE: NEW MEXICO	**Meridian:** NEW MEXICO PRINCIPAL	**County:** LEA
	Latitude: 32.385364	**Longitude:** -103.477129	
PPP	**Elevation:** -6945	**MD:** 10752	**TVD:** 10425
Leg #: 1	**Lease Type:** STATE	**Lease #:** STATE	
	NS-Foot: 330	**NS Indicator:** FSL	
	EW-Foot: 1980	**EW Indicator:** FWL	
	Twsp: 22S	**Range:** 34E	**Section:** 16
	Aliquot: SESW	**Lot:**	**Tract:**
	STATE: NEW MEXICO	**Meridian:** NEW MEXICO PRINCIPAL	**County:** LEA
	Latitude: 32.412571	**Longitude:** -103.477079	
EXIT	**Elevation:** -6945	**MD:** 20200	**TVD:** 10425
Leg #: 1	**Lease Type:** FEDERAL	**Lease #:** NMNM82799	
	NS-Foot: 330	**NS Indicator:** FNL	
	EW-Foot: 1980	**EW Indicator:** FWL	
	Twsp: 22S	**Range:** 34E	**Section:** 9
	Aliquot: NENW	**Lot:**	**Tract:**
	STATE: NEW MEXICO	**Meridian:** NEW MEXICO PRINCIPAL	**County:** LEA
	Latitude: 32.412928	**Longitude:** -103.477079	
BHL	**Elevation:** -6945	**MD:** 20337	**TVD:** 10425
Leg #: 1	**Lease Type:** FEDERAL	**Lease #:** NMNM82799	
	NS-Foot: 200	**NS Indicator:** FNL	
	EW-Foot: 1980	**EW Indicator:** FWL	

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?

Other regulatory requirements attachment:

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BUREAU OF LAND MANAGEMENT

Operator Certification Data Report
06/07/2017

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:** 11/09/2016

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

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

Phone: (432)682-3753

Email address: neaton@btaoil.com

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BUREAU OF LAND MANAGEMENT

PWD Data Report
06/07/2017

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:

APD ID: 10400007080 **Submission Date:** 11/14/2016

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 3H

Well Type: OIL WELL **Well Work Type:** Drill

Section 1 - Geologic Formations

ID: Surface formation **Name:** UNKNOWN

Lithology(ies):

ALLUVIUM

Elevation: 3480 **True Vertical Depth:** 0 **Measured Depth:** 0

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 1 **Name:** RUSTLER ANHYDRITE

Lithology(ies):

Elevation: 1880 **True Vertical Depth:** 1600 **Measured Depth:** 1600

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 2 **Name:** BASE OF SALT

Lithology(ies):

Elevation: 15 **True Vertical Depth:** 3465 **Measured Depth:** 3465

Mineral Resource(s):

NONE

Is this a producing formation? N

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 3H

ID: Formation 3 **Name:** CAPITAN REEF

Lithology(ies):

Elevation: -601 **True Vertical Depth:** 4081 **Measured Depth:** 4081

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 4 **Name:** DELAWARE

Lithology(ies):

Elevation: -1825 **True Vertical Depth:** 5305 **Measured Depth:** 5305

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 5 **Name:** CHERRY CANYON

Lithology(ies):

Elevation: -2505 **True Vertical Depth:** 5985 **Measured Depth:** 5985

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 6 **Name:** BRUSHY CANYON

Lithology(ies):

Elevation: -3375 **True Vertical Depth:** 6855 **Measured Depth:** 6855

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 7 **Name:** BONE SPRING LOWER

Lithology(ies):

Elevation: -5015 **True Vertical Depth:** 8495 **Measured Depth:** 8495

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? N

ID: Formation 8 **Name:** BONE SPRING 2ND

Lithology(ies):

Elevation: -6945 **True Vertical Depth:** 10425 **Measured Depth:** 10752

Mineral Resource(s):

NATURAL GAS

OIL

Is this a producing formation? Y

Section 2 - Blowout Prevention

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 4-½" 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:

Grama 8817 16-9 Fed Com 3H 3M Choke Manifold_11-14-2016.pdf

Choke Hose - Test Chart and Specs_02-22-2017.pdf

BOP Diagram Attachment:

Grama 8817 16-9 Fed Com 3H 3M BOP Schematic_11-14-2016.pdf

Section 3 - Casing

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

Hole Size: 12.25

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

Top setting depth MSL: 3480

Bottom setting depth MD: 5300 **Bottom setting depth TVD:** 5300

Bottom setting depth MSL: -1820

Calculated casing length MD: 5300

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: 1.6 **Burst Design Safety Factor:** 1.4

Joint Tensile Design Safety Factor type: DRY **Joint Tensile Design Safety Factor:** 2.1

Body Tensile Design Safety Factor type: DRY **Body Tensile Design Safety Factor:** 2.9

Casing Design Assumptions and Worksheet(s):

Grama 8817 16-9 Fed Com 3H Casing Assumption_11-09-2016.pdf

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 3H

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

Hole Size: 8.75

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

Top setting depth MSL: 3480

Bottom setting depth MD: 20337 **Bottom setting depth TVD:** 10425

Bottom setting depth MSL: -6945

Calculated casing length MD: 20337

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: 1.5 **Burst Design Safety Factor:** 2.1

Joint Tensile Design Safety Factor type: DRY **Joint Tensile Design Safety Factor:** 2.5

Body Tensile Design Safety Factor type: DRY **Body Tensile Design Safety Factor:** 3.1

Casing Design Assumptions and Worksheet(s):

Grama 8817 16-9 Fed Com 3H Casing Assumption_11-09-2016.pdf

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 3H

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

Hole Size: 17.5

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

Top setting depth MSL: 3480

Bottom setting depth MD: 1650 **Bottom setting depth TVD:** 1650

Bottom setting depth MSL: 1830

Calculated casing length MD: 1650

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: 1.6 **Burst Design Safety Factor:** 3.86

Joint Tensile Design Safety Factor type: DRY **Joint Tensile Design Safety Factor:** 5.7

Body Tensile Design Safety Factor type: DRY **Body Tensile Design Safety Factor:** 9.5

Casing Design Assumptions and Worksheet(s):

Grama 8817 16-9 Fed Com 3H Casing Assumption_11-09-2016.pdf

Section 4 - Cement

Casing String Type: SURFACE

Stage Tool Depth:

Lead

Top MD of Segment: 0 **Bottom MD Segment:** 1265 **Cement Type:** Class C
Additives: 4% Gel **Quantity (sks):** 1035 **Yield (cu.ff./sk):** 1.75
Density: 13.5 **Volume (cu.ft.):** 1811 **Percent Excess:** 81

Tail

Top MD of Segment: 1265 **Bottom MD Segment:** 1650 **Cement Type:** Class C
Additives: 6% Gel **Quantity (sks):** 200 **Yield (cu.ff./sk):** 1.34
Density: 14.8 **Volume (cu.ft.):** 268 **Percent Excess:** 81

Casing String Type: INTERMEDIATE

Stage Tool Depth:

Lead

Top MD of Segment: 0 **Bottom MD Segment:** 4240 **Cement Type:** Class C
Additives: 6% Gel **Quantity (sks):** 1085 **Yield (cu.ff./sk):** 2.18
Density: 12.7 **Volume (cu.ft.):** 2365 **Percent Excess:** 61

Tail

Top MD of Segment: 4240 **Bottom MD Segment:** 5300 **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:** 61

Casing String Type: PRODUCTION

Stage Tool Depth:

Lead

Top MD of Segment: 3800 **Bottom MD Segment:** 8896 **Cement Type:** 50:50H
Additives: 0.004 GPS cf-41L **Quantity (sks):** 415 **Yield (cu.ff./sk):** 4.43
Density: 10.5 **Volume (cu.ft.):** 1838 **Percent Excess:** 42

Tail

Top MD of Segment: 8896 **Bottom MD Segment:** 20337 **Cement Type:** 50:50H
Additives: 2% Gel **Quantity (sks):** 2725 **Yield (cu.ff./sk):** 1.22
Density: 14.4 **Volume (cu.ft.):** 3324 **Percent Excess:** 15

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 3H

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: 5300 **Bottom Depth:** 10425

Mud Type: OTHER Cut Brine

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:** 1650

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: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 3H

Top Depth: 1650 **Bottom Depth:** 5300

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:

Drill Stem Tests will be based on geological sample shows.

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

CBL,GR,MUDLOG

Coring operation description for the well:

None planned

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4987 **Anticipated Surface Pressure:** 2693.5

Anticipated Bottom Hole Temperature(F): 167

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: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 3H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Grama 8817 16-9 Fed Com 3H Wall Plot_11-14-2016.pdf

Grama 8817 16-9 Fed Com 3H Directional Plan_01-04-2017.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:

Grama 8817 16-9 Fed Com 3H - H2S Equipment Schematic _01-04-2017.pdf

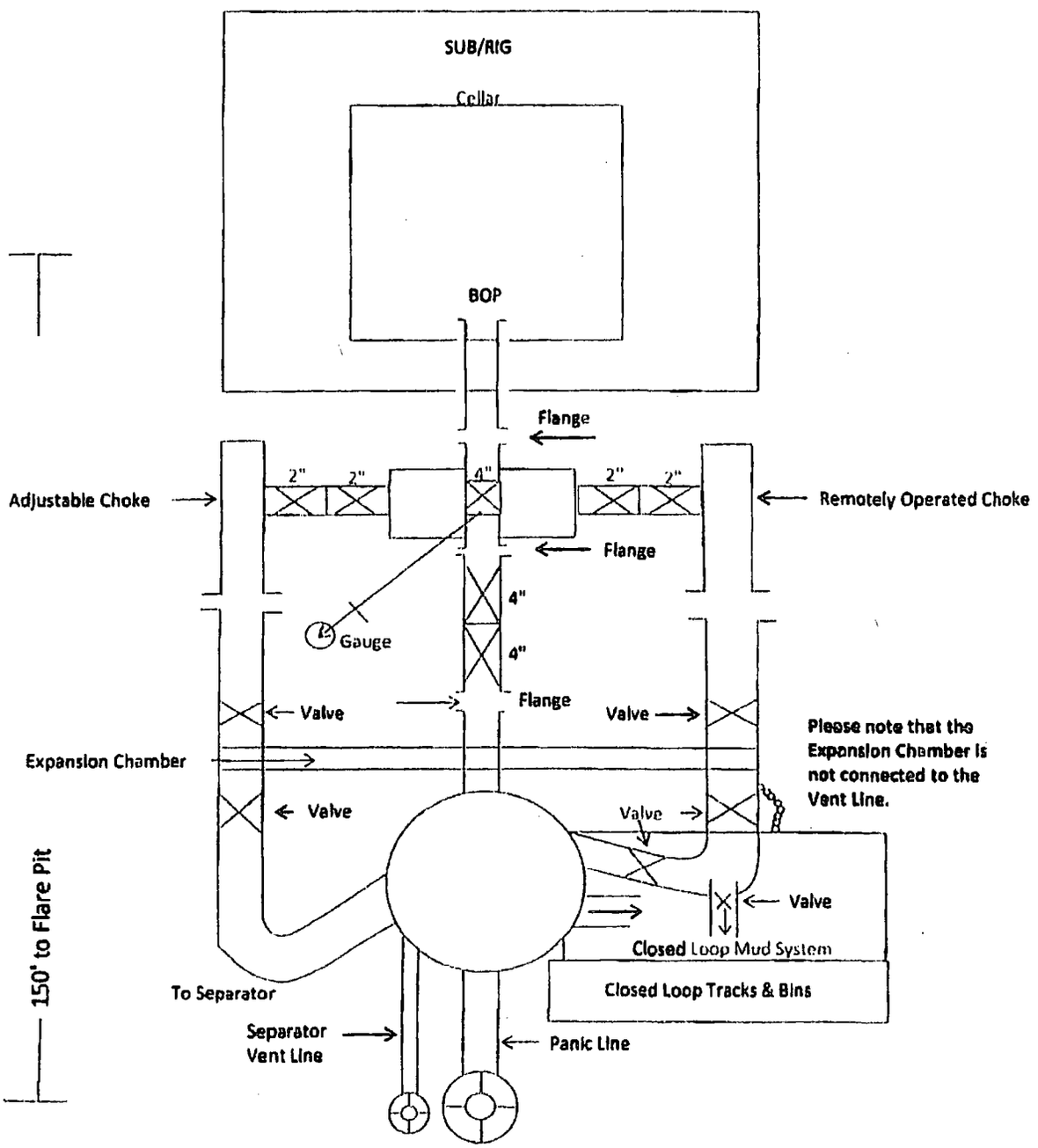
Grama 8817 16-9 Fed Com 3H - H2S Plan_01-04-2017.pdf

Other Variance attachment:

Grama 8817 16-9 Fed Com 3H - Wellhead System and Testing_01-04-2017.pdf

Grama 8817 16-9 Fed Com 3M Multi Bowl Wellhead Schematic_01-04-2017.pdf

3M Choke Manifold Equipment



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 H8672
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

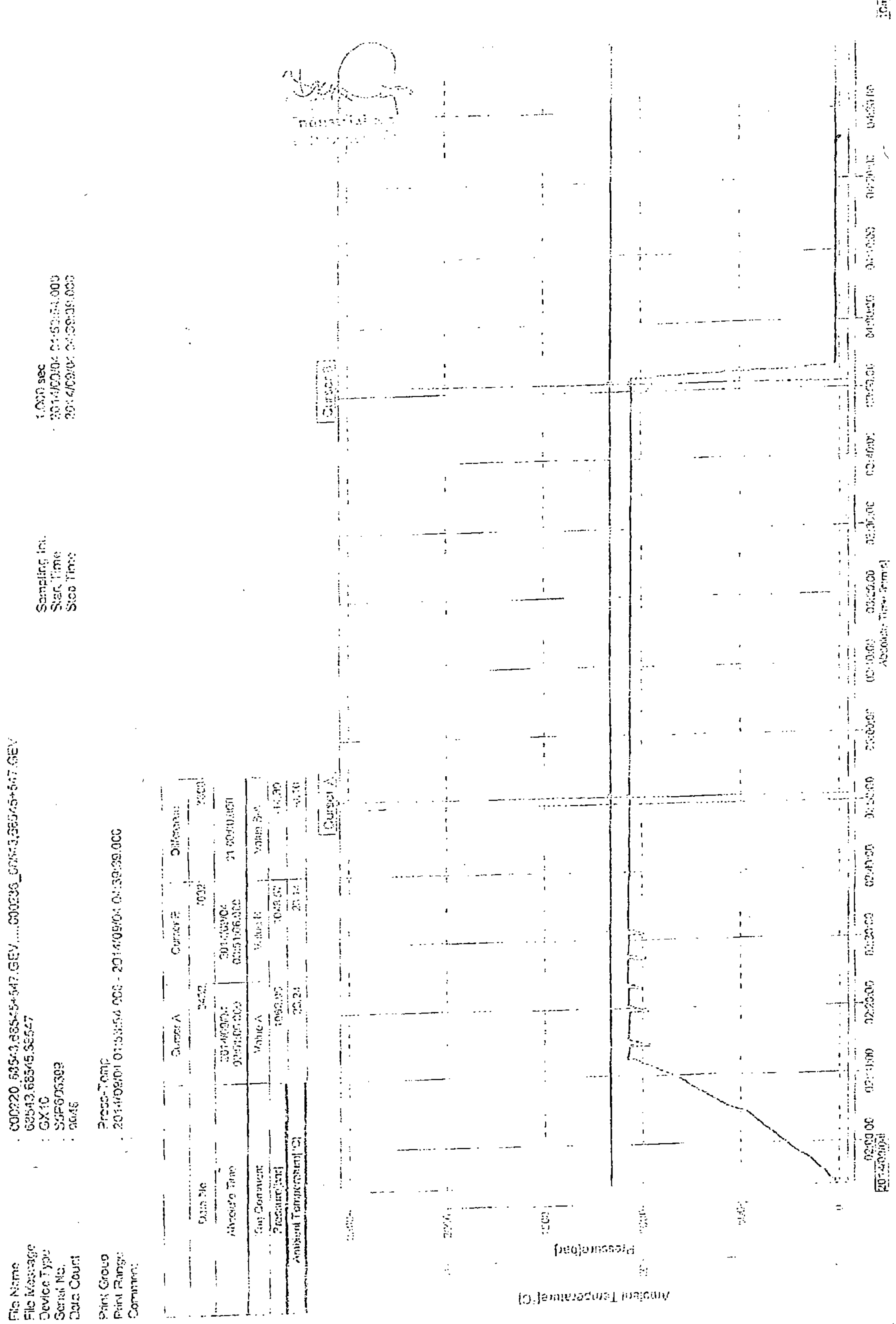
Temperature rate:"B"

All metal parts are flawless

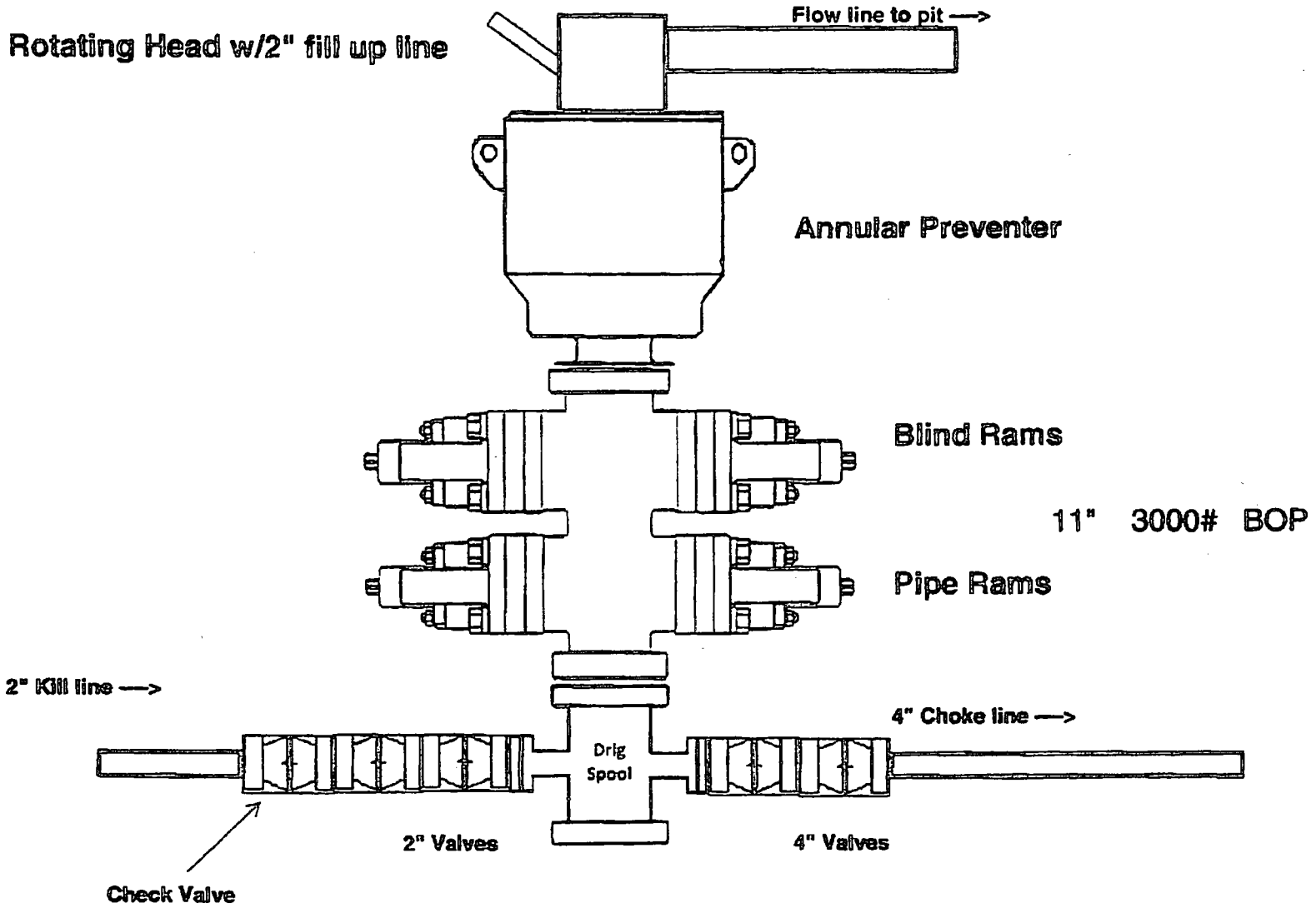
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

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.		


Cursor A
Cursor B
Pressure[bar]
Ambient Temperature[°C]
Absolute Time (h:m:s)

3,000 psi BOP Schematic



BTA Oil Producers, LLC

Well: Grama 8817 16-9 Federal Com #3H

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)
17.50	13.375	0	1650	0	1650	No	54.5	J-55	STC	1.6	3.86	9.5	5.7	Dry	8.4
12.25	9.625	0	5300	0	5300	No	40.0	J-55	LTC	1.6	1.4	2.9	2.1	Dry	10.0
8.75	5.50	0	20337	0	10425	No	17.0	P-110	LTC	1.5	2.1	3.1	2.5	Dry	9.2

BTA Oil Producers, LLC

Well: Grama 8817 16-9 Federal Com #3H

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)
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12.25	9.625	0	5300	0	5300	No	40.0	J-55	LTC	1.6	1.4	2.9	2.1	Dry	10.0
8.75	5.50	0	20337	0	10425	No	17.0	P-110	LTC	1.5	2.1	3.1	2.5	Dry	9.2

BTA Oil Producers, LLC

Well: Grama 8817 16-9 Federal Com #3H

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)
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8.75	5.50	0	20337	0	10425	No	17.0	P-110	LTC	1.5	2.1	3.1	2.5	Dry	9.2

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Grama #3H
Company:	BTA Oil Producers, LLC	**TVD Reference:**	KB @ 3505.0usft (Nomac 94)
Project:	Lea County, NM	**MD Reference:**	KB @ 3505.0usft (Nomac 94)
Site:	Grama	**North Reference:**	Grid
Well:	Grama #3H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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:

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:

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 3H

Section 12 - Other Information

Right of Way needed? NO **Use APD as ROW?**

ROW Type(s):

ROW Applications

SUPO Additional Information:

Use a previously conducted onsite? YES

Previous Onsite information: Onsite was conducted Wednesday, October 26, 2016 by Jeffery Robertson.

Other SUPO Attachment

Operator Name: BTA OIL PRODUCERS LLC

Well Name: GRAMA 8817 16-9 FEDERAL COM **Well Number:** 3H

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: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: STATE OF NEW MEXICO, COMMISSIONER OF PUBLIC LANDS

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

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

AFMSS

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

Bond Info Data Report

06/07/2017

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB000849

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: