

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

HOBBS OCD

NOV 26 2019

RECEIVED

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM092187
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator ASCENT ENERGY LLC (325830)		8. Lease Name and Well No. BIG MOOSE FED COM 506H (726371)
3a. Address 1621 18th Street, Suite 200 Denver CO 80202	3b. Phone No. (include area code) (720)710-8999	9. API Well No. 30-025-46547
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSW / 308 FSL / 805 FWL / LAT 32.5015181 / LONG -103.6343002 At proposed prod. zone NWNW / 990 FNL / 390 FWL / LAT 32.4834338 / LONG -103.6356516		10. Field and Pool, or Exploratory SALT LAKE / BONE SPRING (53560)
11. Sec., T. R. M. or Blk. and Survey or Area SEC 1 / T21S / R32E / NMP		
14. Distance in miles and direction from nearest town or post office* 22 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) 308 feet	16. No of acres in lease 440	17. Spacing Unit dedicated to this well 200
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 45 feet	19. Proposed Depth 10757 feet / 17013 feet	20. BLM/BIA Bond No. in file FED: NMB001496
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3764 feet	22. Approximate date work will start* 07/01/2018	23. Estimated duration 90 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- |  |   |
|--|---|
| 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 requested by the BLM.            |

25. Signature (Electronic Submission)	Name (Printed/Typed) Brian Wood / Ph: (505)466-8120	Date 05/08/2018
Title President		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Christopher Walls / Ph: (575)234-2234	Date 11/22/2019
Title Petroleum Engineer		

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.

BCP Rec 11/26/19

KC  
11/27/19

APPROVED WITH CONDITIONS

## INSTRUCTIONS

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

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

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

**ITEM 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the 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.

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

## 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 Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

## **Additional Operator Remarks**

### **Location of Well**

1. SHL: SWSW / 308 FSL / 805 FWL / TWSP: 21S / RANGE: 32E / SECTION: 1 / LAT: 32.5015181 / LONG: -103.6343002 ( TVD: 0 feet, MD: 0 feet )  
PPP: SWSW / 308 FSL / 805 FWL / TWSP: 21S / RANGE: 32E / SECTION: 1 / LAT: 32.5015181 / LONG: -103.6343002 ( TVD: 0 feet, MD: 0 feet )  
PPP: NWNW / 0 FNL / 505 FWL / TWSP: 21S / RANGE: 32E / SECTION: 12 / LAT: 32.500567 / LONG: -103.635322 ( TVD: 10662 feet, MD: 10742 feet )  
PPP: NWNW / 0 FNL / 420 FWL / TWSP: 21S / RANGE: 32E / SECTION: 13 / LAT: 32.486143 / LONG: -103.635601 ( TVD: 10755 feet, MD: 16027 feet )  
BHL: NWNW / 990 FNL / 390 FWL / TWSP: 21S / RANGE: 32E / SECTION: 13 / LAT: 32.4834338 / LONG: -103.6356516 ( TVD: 10757 feet, MD: 17013 feet )

## **BLM Point of Contact**

Name: Tenille Ortiz

Title: Legal Instruments Examiner

Phone: 5752342224

Email: tortiz@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.

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	ASCENT ENERGY LLC
<b>LEASE NO.:</b>	NMNM092187
<b>LOCATION:</b>	SECTION 01, T21S, R32E, NMPM
<b>COUNTY:</b>	LEA COUNTY, NEW MEXICO

<b>WELL NAME &amp; NO.:</b>	BIG MOOSE FED COM 506H
<b>SURFACE HOLE FOOTAGE:</b>	308'/S & 805'/W
<b>BOTTOM HOLE FOOTAGE:</b>	990'/N & 390'/W

<b>WELL NAME &amp; NO.:</b>	BIG MOOSE FED COM 604H
<b>SURFACE HOLE FOOTAGE:</b>	308'/S & 835'/W
<b>BOTTOM HOLE FOOTAGE:</b>	990'/N & 365'/W

<b>WELL NAME &amp; NO.:</b>	BIG MOOSE FED COM 707H
<b>SURFACE HOLE FOOTAGE:</b>	308'/S & 895'/W
<b>BOTTOM HOLE FOOTAGE:</b>	990'/N & 1030'/W

<b>WELL NAME &amp; NO.:</b>	BIG MOOSE FED COM 708H
<b>SURFACE HOLE FOOTAGE:</b>	308'/S & 775'/W
<b>BOTTOM HOLE FOOTAGE:</b>	990'/N & 365'/W

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input type="radio"/> None	<input type="radio"/> Secretary	<input checked="" type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input checked="" type="checkbox"/> 4 String Area	<input checked="" type="checkbox"/> Capitan Reef	<input checked="" type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Bone Spring** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

## **B. CASING**

### **Casing Design:**

1. The 13-3/8 inch surface casing shall be set at approximately **1655** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The 9-5/8 inch intermediate casing shall be set at approximately **3193** feet. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

### **Option 1 (Single Stage):**

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

### **Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

- ❖ In **R111 Potash Areas** if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ In **WIPP Areas** cement must come to surface on the first three casing strings.
- ❖ In **Capitan Reef Areas** if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
  - Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
  - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

3. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

**Option 1 (Single Stage):**

- Cement to surface. If cement does not circulate see B.1.a, c-d above.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

**Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- c. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- d. Second stage above DV tool:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

4. The minimum required fill of cement behind the 5-1/2 inch production casing is:

**Option 1 (Single Stage):**

- Cement should tie-back at least **50 feet** on top of Capitan Reef top. If cement does not circulate see B.1.a, c-d above.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

**Option 2:**

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- Second stage above DV tool:
  - Cement should tie-back at least **50 feet** on top of Capitan Reef top. If cement does not circulate see B.1.a, c-d above.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

**C. PRESSURE CONTROL**

- Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
  - Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.



- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

#### **D. SPECIAL REQUIREMENT (S)**

##### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

## GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)  
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

**B. PRESSURE CONTROL**

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including

lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

**C. DRILLING MUD**

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

**D. WASTE MATERIAL AND FLUIDS**

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**NMK10152019**



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

## Application Data Report

11/25/2019

APD ID: 10400030087

Submission Date: 05/08/2018

Highlighted data  
reflects the most  
recent changes

Operator Name: ASCENT ENERGY LLC

Well Name: BIG MOOSE FED COM

Well Number: 506H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - General

APD ID: 10400030087

Tie to previous NOS? N

Submission Date: 05/08/2018

BLM Office: CARLSBAD

User: Brian Wood

Title: President

Federal/Indian APD: FED

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

Lease number: NMNM092187

Lease Acres: 440

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? YES

APD Operator: ASCENT ENERGY LLC

Operator letter of designation:

### Operator Info

Operator Organization Name: ASCENT ENERGY LLC

Operator Address: 1621 18th Street, Suite 200

Zip: 80202

Operator PO Box:

Operator City: Denver

State: CO

Operator Phone: (720)710-8999

Operator Internet Address:

### Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: BIG MOOSE FED COM

Well Number: 506H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: SALT LAKE

Pool Name: BONE SPRING

Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL  
GAS,CO2,OIL,POTASH

Operator Name: ASCENT ENERGY LLC

Well Name: BIG MOOSE FED COM

Well Number: 506H

Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,CO2,OIL,POTASH

Is the proposed well in a Helium production area? N Use Existing Well Pad? NO New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: BIG Number: 1

MOOSE

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 22 Miles

Distance to nearest well: 45 FT

Distance to lease line: 308 FT

Reservoir well spacing assigned acres Measurement: 200 Acres

Well plat: BigMoose\_506H\_Plat\_GasCapPlan\_20180508125535.pdf

Well work start Date: 07/01/2018

Duration: 90 DAYS

### Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 12797

Reference Datum:

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce
SHL Leg #1	308	FSL	805	FWL	21S	32E	1	Aliquot SWS W	32.5015181	-103.6343002	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 092187	3764	0	0	
KOP Leg #1	155	FSL	508	FWL	21S	32E	1	Aliquot SWS W	32.501084	-103.635315	HIDA LGO	NEW MEXI CO	NEW MEXI CO	F	NMNM 092187	-6511	10312	10275	
PPP Leg #1-1	0	FNL	420	FWL	21S	32E	13	Aliquot NWN W	32.486143	-103.635601	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014155	-6991	16027	10755	



**Operator Name:** ASCENT ENERGY LLC

**Well Name:** BIG MOOSE FED COM

**Well Number:** 506H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce
PPP Leg #1-2	0	FNL	505	FWL	21S	32E	12	Aliquot NWN W	32.50056 7	- 103.6353 22	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 127892	- 689 8	107 42	106 62	
PPP Leg #1-3	308	FSL	805	FWL	21S	32E	1	Aliquot SWS W	32.50151 81	- 103.6343 002	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 092187	376 4	0	0	
EXIT Leg #1	990	FNL	390	FWL	21S	32E	13	Aliquot NWN W	32.48343 38	- 103.6356 516	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014155	- 699 3	170 13	107 57	
BHL Leg #1	990	FNL	390	FWL	21S	32E	13	Aliquot NWN W	32.48343 38	- 103.6356 516	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 014155	- 699 3	170 13	107 57	



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

## Drilling Plan Data Report

11/25/2019

APD ID: 10400030087

Submission Date: 05/08/2018

Highlighted data  
reflects the most  
recent changes

Operator Name: ASCENT ENERGY LLC

Well Name: BIG MOOSE FED COM

Well Number: 506H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	—	3764	0	0	OTHER,SANDSTONE : Upper Permian	USEABLE WATER	N
2	RUSTLER ANHYDRITE	2194	1570	1570		NONE	N
3	TOP SALT	1896	1868	1868		NONE	N
4	CASTILE	614	3150	3151	ANHYDRITE	NONE	N
5	YATES	482	3282	3283	OTHER : Carbonates	NATURAL GAS,CO2,OIL	N
6	CAPITAN REEF	374	3390	3392	LIMESTONE	USEABLE WATER	N
7	DELAWARE	-1776	5540	5577	OTHER : Mt.Group sandstones	NATURAL GAS,CO2,OIL	N
8	CHERRY CANYON	-1936	5700	5737	SANDSTONE	NATURAL GAS,CO2,OIL	N
9	BRUSHY CANYON	-3065	6829	6866	SANDSTONE	NATURAL GAS,CO2,OIL	N
10	BONE SPRING	-4975	8739	8776	LIMESTONE	NATURAL GAS,CO2,OIL	N
11	BONE SPRING	-5059	8823	8860	SHALE,OTHER : Avalon	NATURAL GAS,CO2,OIL	N
12	BONE SPRING	-5310	9074	9111	LIMESTONE,OTHER : Leonard B	NATURAL GAS,CO2,OIL	N
13	BONE SPRING 1ST	-5885	9649	9686	SANDSTONE	NATURAL GAS,CO2,OIL	Y
14	BONE SPRING 2ND	-6214	9978	10015	OTHER : Carbonate	NATURAL GAS,CO2,OIL	N
15	BONE SPRING 2ND	-6514	10278	10315	SANDSTONE	NATURAL GAS,CO2,OIL	Y

### Section 2 - Blowout Prevention

Operator Name: ASCENT ENERGY LLC

Well Name: BIG MOOSE FED COM

Well Number: 506H

Pressure Rating (PSI): 10M

Rating Depth: 10000

**Equipment:** Blow out preventer equipment (BOPE) will consist of a single ram, mud cross and double ram type (10,000 psi WP) preventer, and an annular preventer (5000 psi WP). Both units will be hydraulically operated. Ram type will be equipped with blind rams on the bottom and drill pipe rams on the top. Auxiliary equipment: A Kelly cock will be kept in the drill string at all times. A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

**Requesting Variance?** YES

**Variance request:** Variance is requested to use a co-flex line between the BOP and choke manifold instead of using a 4" O. D. steel line. Choke and kill line data book is attached. If this hose is unavailable, then a hose of equal or higher rating will be used. Variance is requested to use a speed head (aka, multi-bowl wellhead). Diagram is attached. After running the 13.375" surface casing, a 13.625" BOP/BOPE system with a >5000 psi WP will be installed on the wellhead system. It will be pressure tested to 250 psi low, followed by a test to 5000-psi high. Pressure test will be repeated at least every 30 days as required by Onshore Order 2. Speed head will be installed by the vendor's representative(s). Well head welding will be monitored by the vendor's representative(s).

**Testing Procedure:** Minimum working pressure of the BOP and related BOPE below the surface casing will be 5000-psi. All BOPE will be tested in accordance with Onshore Order 2. All BOPE will be tested using a conventional test plug – not a cup or J packer. Both surface and intermediate casing will be tested as required by Onshore Order 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater. Before drilling out the surface casing: ram type BOP and accessory equipment will be tested to 5000/250 psig annular preventer will be tested to 3500/250 psig surface casing will be tested to 1500 psi for 30 minutes. Before drilling out the intermediate casing: ram type BOP and accessory equipment will be tested to 5000/250 psig annular preventer will be tested to 3500/250 psig intermediate casing will be tested to 2000 psi for 30 minutes. Intermediate casing will be landed using a mandrel hanger and separate pack off. After installation, the pack off and lower flange will be pressure tested to 5000 psi. A hydraulically operated choke will be installed before drilling out of the intermediate casing shoe. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each TOOH. These checks will be noted on the daily tour sheets.

**Choke Diagram Attachment:**

BigMoose\_506\_BOP\_Choke\_20191003123142.pdf

**BOP Diagram Attachment:**

BigMoose\_506\_BOP\_Choke\_20191003123156.pdf

### Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1655	0	1655	3764		1655	J-55	54.5	ST&C	1.4	2.89	DRY	1.8	DRY	2
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	3200	0	3185	3764		3200	J-55	36	LT&C	1.35	1.7	DRY	1.8	DRY	2
3	INTERMEDIATE	8.75	7.625	NEW	API	N	0	5450	0	5413	3764		5450	HCP-110	29.7	OTHER - EZGO FJ3	3	3	DRY	1.8	DRY	2

**Operator Name:** ASCENT ENERGY LLC

**Well Name:** BIG MOOSE FED COM

**Well Number:** 506H

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
4	PRODUCTION	6.75	5.5	NEW	API	N	0	17013	0	10757	3764		17013	HCP-110	20	OTHER - EXGO FJ3	2.1	1.24	DRY	1.34	DRY	2.28

#### Casing Attachments

**Casing ID:** 1      **String Type:** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

BigMoose\_506H\_Casing\_Design\_Assumptions\_20180508131252.pdf

**Casing ID:** 2      **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

BigMoose\_506H\_Casing\_Design\_Assumptions\_20180508131304.pdf

Operator Name: ASCENT ENERGY LLC

Well Name: BIG MOOSE FED COM

Well Number: 506H

#### Casing Attachments

Casing ID: 3 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BigMoose\_506H\_Casing\_Design\_Assumptions\_20180508131321.pdf

7.625in\_Casing\_Spec\_20191003123427.pdf

Casing ID: 4 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BigMoose\_506H\_Casing\_Design\_Assumptions\_20180508131404.pdf

5.5in\_Casing\_Spec\_20191003123512.pdf

#### Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1655	685	1.73	13.5	1183	100	Class C HALCEM system	4% bentonite
SURFACE	Tail		0	1655	420	1.33	14.8	559	100	Class C HALCEM system	none
INTERMEDIATE	Lead		0	3200	500	1.73	12.7	864	100	Class C HALCEM system	4% bentonite

Operator Name: ASCENT ENERGY LLC

Well Name: BIG MOOSE FED COM

Well Number: 506H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		0	3200	485	1.33	14.8	646	100	Class C HALCEM system	none
INTERMEDIATE	Lead		0	5450	245	2.04	12.7	500	50	Class C EconoCem HLC	5% salt + 3% Microbond + 3 lb/sk Kol-seal + 0.3% HR-800
INTERMEDIATE	Tail		0	5450	155	1.37	14.8	212	50	Class C HALCEM system	3% Microbond
PRODUCTION	Lead		0	1701 3	610	2.89	11	1761	50	NeoCem PL	3% Microbond
PRODUCTION	Tail		0	1701 3	1635	1.47	13.2	2406	50	NeoCem PT	3% Microbond

### 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:** All necessary additives (e. g., barite, bentonite, LCM) to maintain mud properties and meet minimum lost circulation and weight increase needs will be on site at all times. Mud program may change due to hole conditions.

**Describe the mud monitoring system utilized:** An electronic pit volume totalizer (PVT) will be used to monitor volume, flow rate, pump pressure, and stroke rate.

### Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
5450	1701 3	OTHER : Cut brine/gel	11.5	11.5							
0	1655	OTHER : Fresh water	9.6	9.6							
1655	3200	OTHER : Brine water	10	10							

**Operator Name:** ASCENT ENERGY LLC

**Well Name:** BIG MOOSE FED COM

**Well Number:** 506H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
3200	5450	OTHER : Fresh water	8.6	8.6							

### Section 6 - Test, Logging, Coring

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

GR-CCL will be run in cased hole during completion phase of operations.

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

GR

**Coring operation description for the well:**

No core, drill stem test, or open hole log is planned.

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 5033

**Anticipated Surface Pressure:** 2666.46

**Anticipated Bottom Hole Temperature(F):** 165

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

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

BigMoose\_506H\_H2S\_Plan\_20180508131614.pdf

**Operator Name:** ASCENT ENERGY LLC

**Well Name:** BIG MOOSE FED COM

**Well Number:** 506H

### **Section 8 - Other Information**

**Proposed horizontal/directional/multi-lateral plan submission:**

BigMoose\_506H\_Horizontal\_Drill\_Plan\_RDC\_20180508141317.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

BigMoose\_506H\_Speedhead\_Specs\_20180508131645.pdf

BigMoose\_506H\_Drill\_Plan\_Revised\_20191003123718.pdf

BigMoose\_Well\_Control\_Plan\_20191021153020.pdf

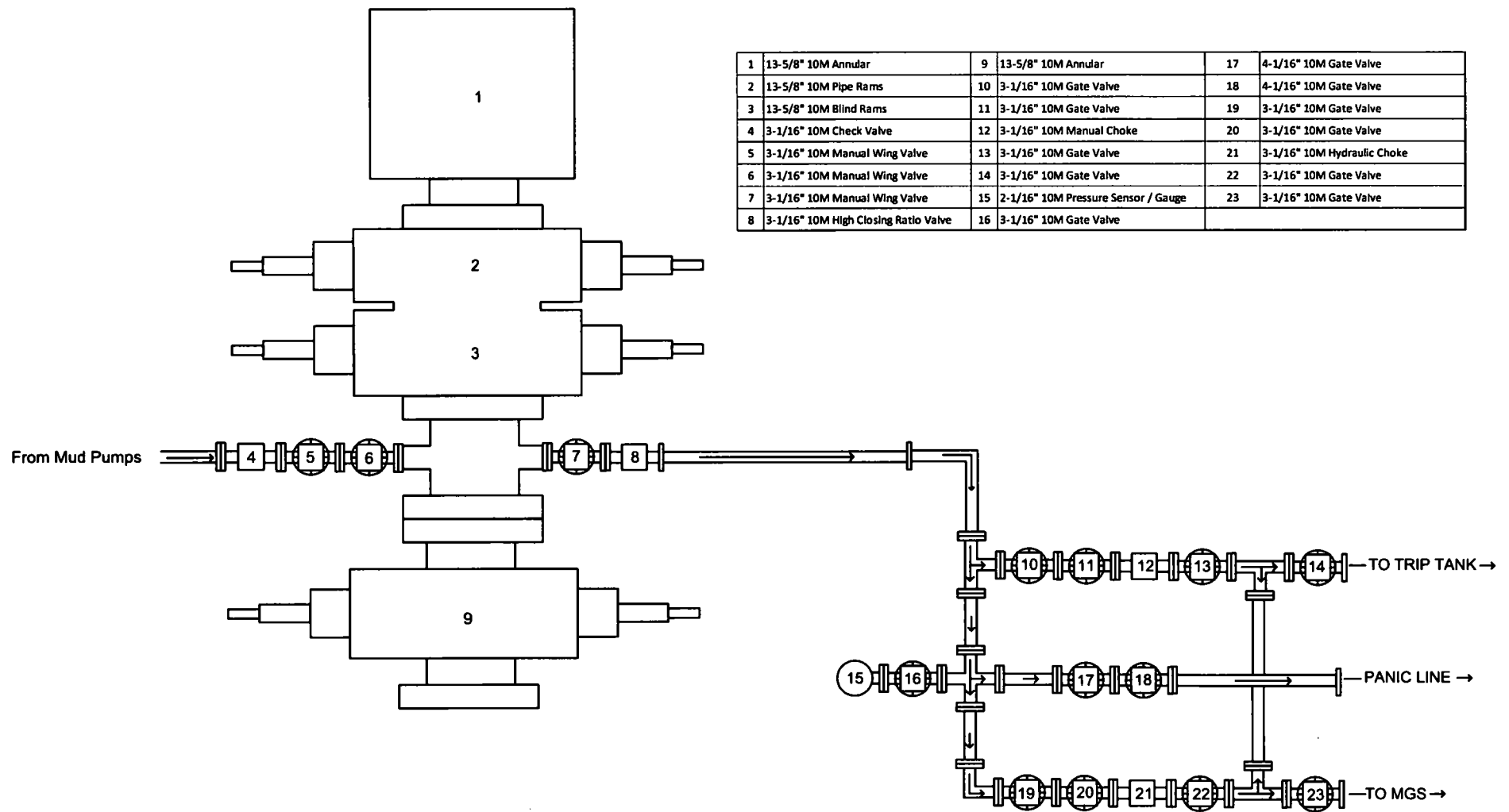
**Other Variance attachment:**

BigMoose\_506H\_Casing\_Cementing\_Variance\_20180508131652.pdf



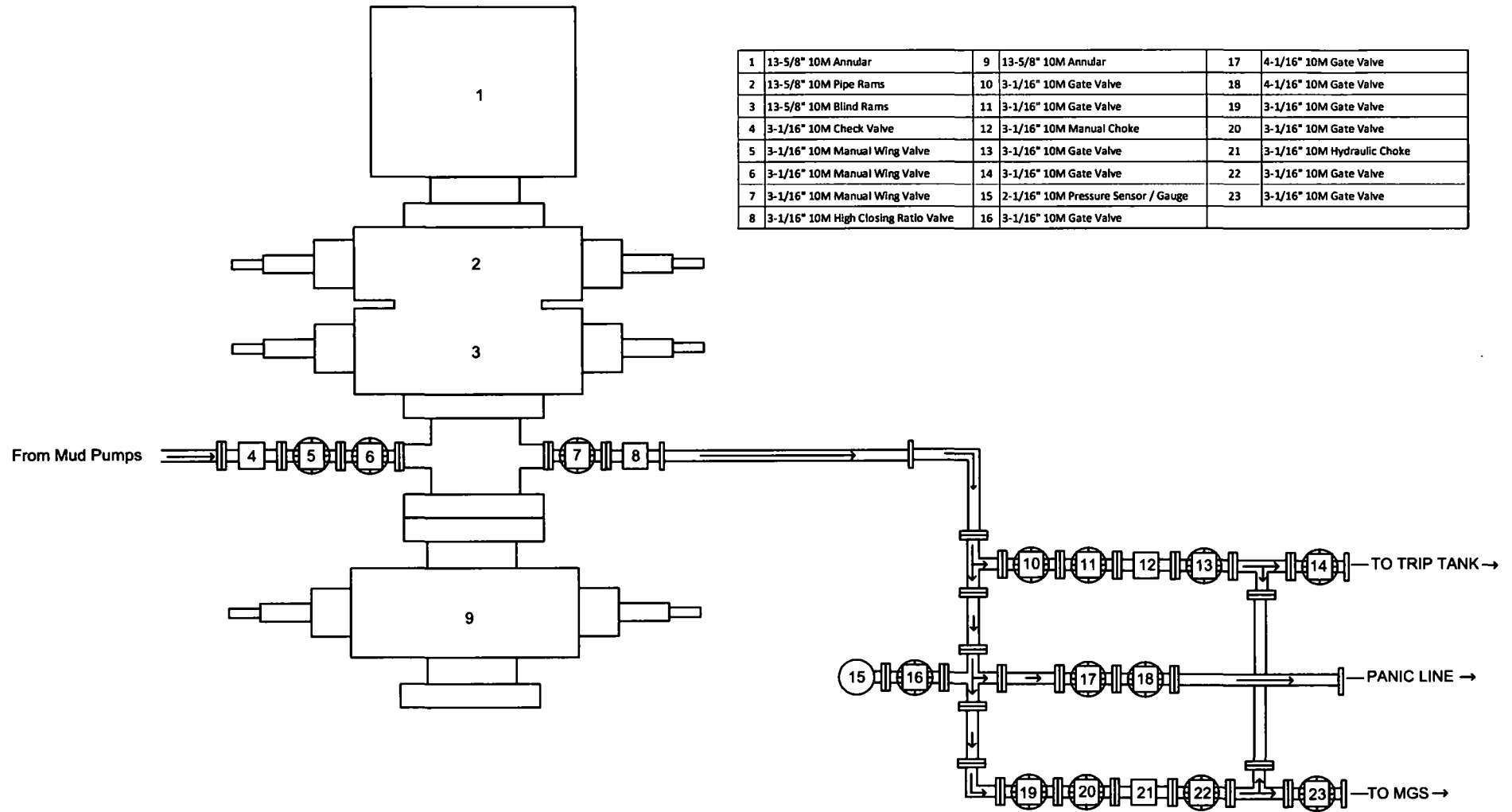
# ASCENT ENERGY - TOQUE PAD - NABORS X04

## BOPE & CHOKE MANIFOLD DIAGRAM



# ASCENT ENERGY - TOQUE PAD - NABORS X04

## BOPE & CHOKE MANIFOLD DIAGRAM



## H<sub>2</sub>S Drilling Operations Plan

- a. All personnel will be trained in H<sub>2</sub>S working conditions as required by Onshore Order 6 before drilling out of the surface casing.
- b. Two briefing areas will be established. Each briefing area will be  $\geq 150'$  from the wellhead, perpendicular from one another, and easily entered and exited. See H<sub>2</sub>S page 5 for more details.
- c. H<sub>2</sub>S Safety Equipment/Systems:
  - i. Well Control Equipment
    - Flare line will be  $\geq 150'$  from the wellhead and ignited by a flare gun.
    - Beware of SO<sub>2</sub> created by flaring.
    - Choke manifold will have a remotely operated choke.
    - Mud gas separator
  - ii. Protective Equipment for Personnel
    - Every person on site will wear a personal H<sub>2</sub>S and SO<sub>2</sub> monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the waist or chest.
    - One self-contained breathing apparatus (SCBA) 30-minute rescue pack will be at each briefing area. Two 30-minute SCBA packs will be stored in the safety trailer.
    - Four work/escape packs will be on the rig floor. Each pack will have a sufficiently long hose to allow unimpaired work activity.
    - Four emergency escape packs will be in the doghouse for emergency evacuation.
    - Hand signals will be used when wearing protective breathing apparatus.
    - Stokes litter or stretcher
    - Two full OSHA compliant body harnesses
    - A 100' long x 5/8" OSHA compliant rope
    - One 20-pound ABC fire extinguisher
  - iii. H<sub>2</sub>S Detection & Monitoring Equipment
    - Every person on site will wear a personal H<sub>2</sub>S and SO<sub>2</sub> monitor at all times while on site. Monitors will not be worn on hard hats. Monitors will be worn on the front of the waist or chest.
    - A stationary detector with three sensors will be in the doghouse.

- Sensors will be installed on the rig floor, bell nipple, and at the end of the flow line or where drilling fluids are discharged.
- Visual alarm will be triggered at 10 ppm.
- Audible alarm will be triggered at 10 ppm.
- Calibration will occur at least every 30 days. Gas sample tubes will be kept in the safety trailer.

iv. Visual Warning System

- A color-coded H<sub>2</sub>S condition sign will be set at each pad entrance.
- Color-coded condition flag will be installed to indicate current H<sub>2</sub>S conditions.
- Two wind socks will be installed that will be visible from all sides.

v. Mud Program

- A water based mud with a pH of  $\geq 10$  will be maintained to control corrosion, H<sub>2</sub>S gas returns to the surface, and minimize sulfide stress cracking and embrittlement.
- Drilling mud containing H<sub>2</sub>S gas will be degassed at an optimum location for the rig configuration.
- This gas will be piped into the flare system.
- Enough mud additives will be on location to scavenge and/or neutralize H<sub>2</sub>S where formation pressures are unknown.

vi. Metallurgy

- All equipment that has the potential to be exposed to H<sub>2</sub>S will be suitable for H<sub>2</sub>S service.
- Equipment that will meet these metallurgical standards include the drill string, casing, wellhead, BOP assembly, casing head and spool, rotating head, kill lines, choke, choke manifold and lines, valves, mud-gas separators, DST tools, test units, tubing, flanges, and other related equipment (elastomer packings and seals).

vii. Communication from well site

- Cell phones and/or two-way radios will be used to communicate from the well site.

d. A remote-controlled choke, mud-gas separator, and a rotating head will be installed before drilling or testing any formation expected to contain H<sub>2</sub>S.

#### Company Personnel to be Notified

Jody Robins, Vice President, Drilling	Office: (720) 710-8999
	Mobile: (303) 905-1858
Matt Ward, Chief Operations Officer	Mobile: (303) 506-6647
Dean Gimbel, Vice President Completions	Mobile: (303) 945-1323
Ascent Emergency Contact Number	(303) 281-9951

#### Local & County Agencies

Monument Fire Department	911 or (575) 393-4339
Hobbs Fire Marshal	(575) 391-8185
Lea County Sheriff (Lovington)	911 or (575) 396-3611
Lea County Emergency Management (Lovington)	(575) 396-8602
Lea Regional Medical Center Hospital (Hobbs)	(575) 492-5000

#### State Agencies

NM State Police (Hobbs)	(575) 392-5588
NM Oil Conservation (Hobbs)	(575) 370-3186
NM Oil Conservation (Santa Fe)	(505) 476-3440
NM Dept. of Transportation (Roswell)	(575) 637-7201

#### Federal Agencies

BLM Carlsbad Field Office	(575) 234-5972
BLM Hobbs Field Station	(575) 393-3612
National Response Center	(800) 424-8802

US EPA Region 6 (Dallas)

(800) 887-6063

(214) 665-6444

Veterinarians

Dal Paso Animal Hospital (Hobbs)

(575) 397-2286

Hobbs Animal Clinic & Pet Care (Hobbs)

(575) 392-5563

Great Plains Veterinary Clinic & Hospital (Hobbs)

(575) 392-5513

Residents within 2 miles

No residents are within 2 miles.

Air Evacuation

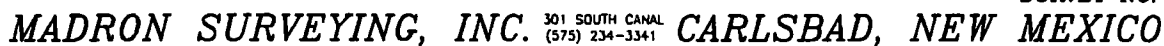
Med Flight Air Ambulance (Albuquerque)

(800) 842-4431

Lifeguard (Albuquerque)

(888) 866-7256

# SITE MAP



# Ascent Energy, LLC

Big Moose Fed Com #506H  
H<sub>2</sub>S Contingency Plan:  
2 Mile Radius Map

Section 1, Township 21S, Range 32E  
Lea County, New Mexico

⊙ Surface Hole Location

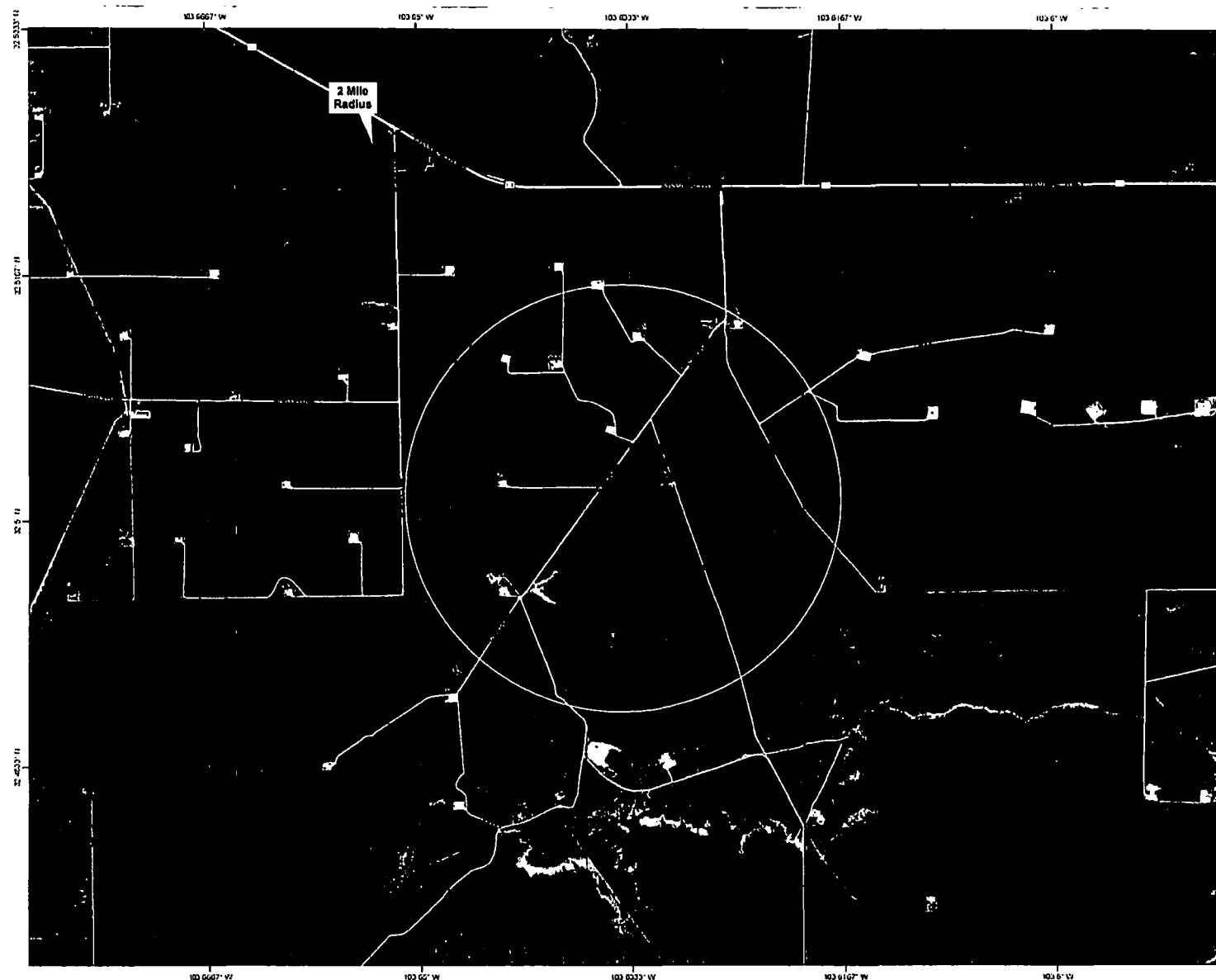
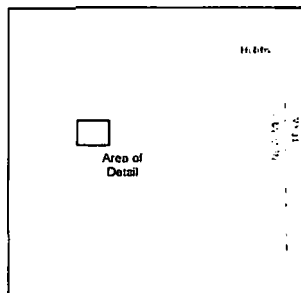
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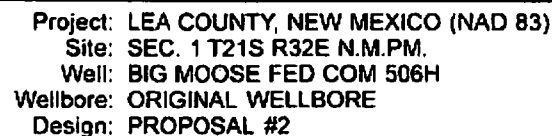
NAD 1983 New Mexico State Plane East  
FIPS 3001 Feet

PERMITS WEST

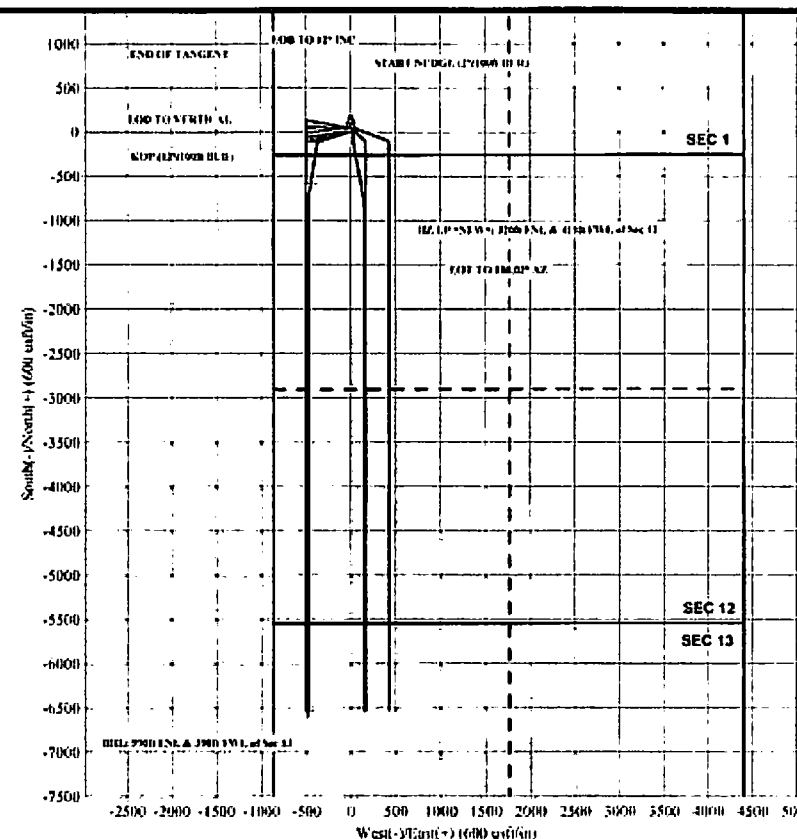
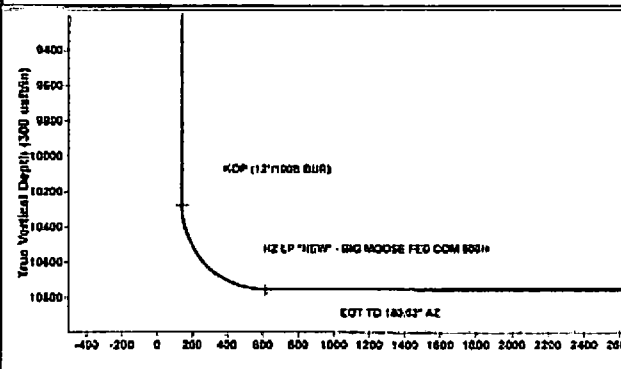
Prepared by Permits West, Inc., April 27, 2018  
for Ascent Energy LLC







WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	N-S	E-W	Latitude	Longitude
KOP - BIG MOOSE FED COM 500H	10275.04	-113.13	-372.61	32.501084	-103.635315
H2 LP 'NEW' - BIG MOOSE FED COM 500H	10752.50	-883.99	-448.82	32.499790	-103.635565
BHL - BIG MOOSE FED COM 500H	10758.80	-6534.70	-478.64	32.493434	-103.635692



# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BIG MOOSE FED COM 506H
<b>Company:</b>	ASCENT ENERGY	<b>TVD Reference:</b>	KB EST @ 3788.50usft
<b>Project:</b>	LEA COUNTY, NEW MEXICO (NAD 83)	<b>MD Reference:</b>	KB EST @ 3788.50usft
<b>Site:</b>	SEC. 1 T21S R32E N.M.PM.	<b>North Reference:</b>	True
<b>Well:</b>	BIG MOOSE FED COM 506H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #2		

<b>Project</b>	LEA COUNTY, NEW MEXICO (NAD 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		Using geodetic scale factor

Site	SEC. 1 T21S R32E N.M.PM.				
Site Position:		Northing:	546,845.25 usft	Latitude:	32.501395
From:	Lat/Long	Easting:	756,934.17 usft	Longitude:	-103.634008
Position Uncertainty:	0.00 usft	Slot Radius:	1.10000ft	Grid Convergence:	0.38 °

Well	BIG MOOSE FED COM 506H					
Well Position	+N/-S	-0.02 usft	Northing:	546,845.03 usft	Latitude:	32.501395
	+E/-W	-30.09 usft	Easting:	756,904.08 usft	Longitude:	-103.634106
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3.763.50 usft	

<b>Wellbore</b>	ORIGINAL WELLBORE				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
	IGRF2015	09/02/2018	(°)	(°)	(nT)
			6.93	60.30	48.027

<b>Design</b>	PROPOSAL #2			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	184.17

Plan Sections											
MD	Inc	Azi	Vertical	SS	+N/-S	+E/-W	Dogleg	Bulld	Turn	TFO	Target
(usft)	(°)	(°)	Depth	(usft)	(usft)	(usft)	Rate	Rate	Rate	(°)	
							(°/100usf)	(°/100usf)	(°/100usf)		
0.00	0.00	0.00	0.00	-3,788.50	0.00	0.00	0.00	0.00	0.00	0.00	
2,900.00	0.00	0.00	2,900.00	-888.50	0.00	0.00	0.00	0.00	0.00	0.00	
3,500.00	12.00	253.12	3,495.62	-292.88	-18.18	-59.90	2.00	2.00	0.00	253.12	
4,771.63	12.00	253.12	4,739.47	950.97	-94.95	-312.90	0.00	0.00	0.00	0.00	
5,371.63	0.00	0.00	5,335.09	1,546.59	-113.13	-372.81	2.00	-2.00	0.00	180.00	
10,311.58	0.00	0.00	10,275.04	6,486.54	-113.13	-372.81	0.00	0.00	0.00	0.00	KOP - BIG MOOSE
11,061.25	89.96	189.30	10,752.50	6,964.00	-583.99	-449.92	12.00	12.00	-22.77	189.30	HZ LP "NEW" - BIG
11,370.72	89.96	180.02	10,752.71	6,964.21	-892.10	-475.02	3.00	0.00	-3.00	-90.00	
17,013.41	89.96	180.02	10,756.50	6,968.00	-6,534.79	-476.64	0.00	0.00	0.00	0.00	BHL - BIG MOOSE

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BIG MOOSE FED COM 506H
<b>Company:</b>	ASCENT ENERGY	<b>TVD Reference:</b>	KB EST @ 3788.50usft
<b>Project:</b>	LEA COUNTY, NEW MEXICO (NAD 83)	<b>MD Reference:</b>	KB EST @ 3788.50usft
<b>Site:</b>	SEC. 1 T21S R32E N.M.PM	<b>North Reference:</b>	True
<b>Well:</b>	BIG MOOSE FED COM 506H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #2		

## Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
SHL: 263ft FSL & 865ft FWL of Sec 1										
0.00	0.00	0.00	0.00	3,788.50	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	3,688.50	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	3,588.50	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	3,488.50	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	3,388.50	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	3,288.50	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	3,188.50	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	3,088.50	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	2,988.50	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	2,888.50	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	2,788.50	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	2,688.50	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	2,588.50	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	2,488.50	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	2,388.50	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	2,288.50	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	2,188.50	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	2,088.50	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	1,988.50	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	1,888.50	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	1,788.50	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	1,688.50	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	1,588.50	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	1,488.50	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	1,388.50	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	1,288.50	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	1,188.50	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	1,088.50	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	988.50	0.00	0.00	0.00	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
2,900.00	0.00	0.00	2,900.00	888.50	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	2.00	253.12	2,999.98	788.52	-0.51	-1.67	0.63	2.00	2.00	0.00
3,100.00	4.00	253.12	3,099.84	688.68	-2.03	-6.68	2.51	2.00	2.00	0.00
3,200.00	6.00	253.12	3,199.45	589.05	-4.56	-15.02	5.84	2.00	2.00	0.00
3,300.00	8.00	253.12	3,298.70	489.80	-8.10	-26.68	10.02	2.00	2.00	0.00
3,400.00	10.00	253.12	3,397.47	391.03	-12.64	-41.65	15.63	2.00	2.00	0.00
EOB TO 12° INC										
3,500.00	12.00	253.12	3,495.62	292.88	-18.18	-59.90	22.49	2.00	2.00	0.00
3,600.00	12.00	253.12	3,593.44	195.08	-24.22	-79.80	29.96	0.00	0.00	0.00
3,700.00	12.00	253.12	3,691.25	97.25	-30.25	-99.70	37.43	0.00	0.00	0.00
3,800.00	12.00	253.12	3,789.07	-0.57	-36.29	-119.59	44.89	0.00	0.00	0.00
3,900.00	12.00	253.12	3,886.88	-98.38	-42.33	-139.49	52.36	0.00	0.00	0.00
4,000.00	12.00	253.12	3,984.70	-196.20	-48.37	-159.38	59.83	0.00	0.00	0.00
4,100.00	12.00	253.12	4,082.51	-294.01	-54.40	-179.28	67.30	0.00	0.00	0.00
4,200.00	12.00	253.12	4,180.33	-391.83	-60.44	-199.17	74.77	0.00	0.00	0.00
4,300.00	12.00	253.12	4,278.14	-489.64	-66.48	-219.07	82.24	0.00	0.00	0.00
4,400.00	12.00	253.12	4,375.96	-587.46	-72.52	-238.96	89.71	0.00	0.00	0.00
4,500.00	12.00	253.12	4,473.77	-685.27	-78.55	-258.86	97.18	0.00	0.00	0.00
4,600.00	12.00	253.12	4,571.59	-783.09	-84.59	-278.75	104.64	0.00	0.00	0.00
4,700.00	12.00	253.12	4,669.40	-880.90	-90.63	-298.65	112.11	0.00	0.00	0.00
4,771.63	12.00	253.12	4,739.47	-950.97	-94.95	-312.90	117.46	0.00	0.00	0.00
END OF TANGENT										
4,771.66	12.00	253.12	4,739.49	-950.99	-94.95	-312.91	117.47	0.00	0.00	0.00

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BIG MOOSE FED COM 506H
<b>Company:</b>	ASCENT ENERGY	<b>TVD Reference:</b>	KB EST @ 3788.50usft
<b>Project:</b>	LEA COUNTY, NEW MEXICO (NAD 83)	<b>MD Reference:</b>	KB EST @ 3788.50usft
<b>Site:</b>	SEC. 1 T21S R32E N.M.P.M.	<b>North Reference:</b>	True
<b>Well:</b>	BIG MOOSE FED COM 506H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #2		

## Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.00	11.43	253.12	4,767.24	-978.74	-96.63	-318.41	119.53	2.00	-2.00	0.00
4,900.00	9.43	253.12	4,885.59	-1,077.09	-101.88	-335.74	126.04	2.00	-2.00	0.00
5,000.00	7.43	253.12	4,964.50	-1,176.00	-106.14	-349.77	131.30	2.00	-2.00	0.00
5,100.00	5.43	253.12	5,063.86	-1,275.36	-109.39	-360.49	135.33	2.00	-2.00	0.00
5,200.00	3.43	253.12	5,163.56	-1,375.06	-111.64	-367.89	138.11	2.00	-2.00	0.00
5,300.00	1.43	253.12	5,263.47	-1,474.97	-112.87	-371.95	139.63	2.00	-2.00	0.00
5,371.63	0.00	0.00	5,335.09	-1,548.59	-113.13	-372.81	139.95	2.00	-2.00	0.00
EOD TO VERTICAL										
5,371.66	0.00	0.00	5,335.12	-1,548.62	-113.13	-372.81	139.95	0.00	0.00	0.00
5,400.00	0.00	0.00	5,363.46	-1,574.96	-113.13	-372.81	139.95	0.00	0.00	0.00
5,500.00	0.00	0.00	5,463.46	-1,674.96	-113.13	-372.81	139.95	0.00	0.00	0.00
5,600.00	0.00	0.00	5,563.46	-1,774.96	-113.13	-372.81	139.95	0.00	0.00	0.00
5,700.00	0.00	0.00	5,663.46	-1,874.96	-113.13	-372.81	139.95	0.00	0.00	0.00
5,800.00	0.00	0.00	5,763.46	-1,974.96	-113.13	-372.81	139.95	0.00	0.00	0.00
5,900.00	0.00	0.00	5,863.46	-2,074.96	-113.13	-372.81	139.95	0.00	0.00	0.00
6,000.00	0.00	0.00	5,963.46	-2,174.96	-113.13	-372.81	139.95	0.00	0.00	0.00
6,100.00	0.00	0.00	6,063.46	-2,274.96	-113.13	-372.81	139.95	0.00	0.00	0.00
6,200.00	0.00	0.00	6,163.46	-2,374.96	-113.13	-372.81	139.95	0.00	0.00	0.00
6,300.00	0.00	0.00	6,263.46	-2,474.96	-113.13	-372.81	139.95	0.00	0.00	0.00
6,400.00	0.00	0.00	6,363.46	-2,574.96	-113.13	-372.81	139.95	0.00	0.00	0.00
6,500.00	0.00	0.00	6,463.46	-2,674.96	-113.13	-372.81	139.95	0.00	0.00	0.00
6,600.00	0.00	0.00	6,563.46	-2,774.96	-113.13	-372.81	139.95	0.00	0.00	0.00
6,700.00	0.00	0.00	6,663.46	-2,874.96	-113.13	-372.81	139.95	0.00	0.00	0.00
6,800.00	0.00	0.00	6,763.46	-2,974.96	-113.13	-372.81	139.95	0.00	0.00	0.00
6,900.00	0.00	0.00	6,863.46	-3,074.96	-113.13	-372.81	139.95	0.00	0.00	0.00
7,000.00	0.00	0.00	6,963.46	-3,174.96	-113.13	-372.81	139.95	0.00	0.00	0.00
7,100.00	0.00	0.00	7,063.46	-3,274.96	-113.13	-372.81	139.95	0.00	0.00	0.00
7,200.00	0.00	0.00	7,163.46	-3,374.96	-113.13	-372.81	139.95	0.00	0.00	0.00
7,300.00	0.00	0.00	7,263.46	-3,474.96	-113.13	-372.81	139.95	0.00	0.00	0.00
7,400.00	0.00	0.00	7,363.46	-3,574.96	-113.13	-372.81	139.95	0.00	0.00	0.00
7,500.00	0.00	0.00	7,463.46	-3,674.96	-113.13	-372.81	139.95	0.00	0.00	0.00
7,600.00	0.00	0.00	7,563.46	-3,774.96	-113.13	-372.81	139.95	0.00	0.00	0.00
7,700.00	0.00	0.00	7,663.46	-3,874.96	-113.13	-372.81	139.95	0.00	0.00	0.00
7,800.00	0.00	0.00	7,763.46	-3,974.96	-113.13	-372.81	139.95	0.00	0.00	0.00
7,900.00	0.00	0.00	7,863.46	-4,074.96	-113.13	-372.81	139.95	0.00	0.00	0.00
8,000.00	0.00	0.00	7,963.46	-4,174.96	-113.13	-372.81	139.95	0.00	0.00	0.00
8,100.00	0.00	0.00	8,063.46	-4,274.96	-113.13	-372.81	139.95	0.00	0.00	0.00
8,200.00	0.00	0.00	8,163.46	-4,374.96	-113.13	-372.81	139.95	0.00	0.00	0.00
8,300.00	0.00	0.00	8,263.46	-4,474.96	-113.13	-372.81	139.95	0.00	0.00	0.00
8,400.00	0.00	0.00	8,363.46	-4,574.96	-113.13	-372.81	139.95	0.00	0.00	0.00
8,500.00	0.00	0.00	8,463.46	-4,674.96	-113.13	-372.81	139.95	0.00	0.00	0.00
8,600.00	0.00	0.00	8,563.46	-4,774.96	-113.13	-372.81	139.95	0.00	0.00	0.00
8,700.00	0.00	0.00	8,663.46	-4,874.96	-113.13	-372.81	139.95	0.00	0.00	0.00
8,800.00	0.00	0.00	8,763.46	-4,974.96	-113.13	-372.81	139.95	0.00	0.00	0.00
8,900.00	0.00	0.00	8,863.46	-5,074.96	-113.13	-372.81	139.95	0.00	0.00	0.00
9,000.00	0.00	0.00	8,963.46	-5,174.96	-113.13	-372.81	139.95	0.00	0.00	0.00
9,100.00	0.00	0.00	9,063.46	-5,274.96	-113.13	-372.81	139.95	0.00	0.00	0.00
9,200.00	0.00	0.00	9,163.46	-5,374.96	-113.13	-372.81	139.95	0.00	0.00	0.00
9,300.00	0.00	0.00	9,263.46	-5,474.96	-113.13	-372.81	139.95	0.00	0.00	0.00
9,400.00	0.00	0.00	9,363.46	-5,574.96	-113.13	-372.81	139.95	0.00	0.00	0.00
9,500.00	0.00	0.00	9,463.46	-5,674.96	-113.13	-372.81	139.95	0.00	0.00	0.00
9,600.00	0.00	0.00	9,563.46	-5,774.96	-113.13	-372.81	139.95	0.00	0.00	0.00
9,700.00	0.00	0.00	9,663.46	-5,874.96	-113.13	-372.81	139.95	0.00	0.00	0.00

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BIG MOOSE FED COM 506H
<b>Company:</b>	ASCENT ENERGY	<b>TVD Reference:</b>	KB EST @ 3788.50usft
<b>Project:</b>	LEA COUNTY, NEW MEXICO (NAD 83)	<b>MD Reference:</b>	KB EST @ 3788.50usft
<b>Site:</b>	SEC. 1 T21S R32E N.M.PM.	<b>North Reference:</b>	True
<b>Well:</b>	BIG MOOSE FED COM 506H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #2		

## Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buidl Rate (°/100usft)	Turn Rate (°/100usft)
9,800.00	0.00	0.00	9,783.48	-5,974.96	-113.13	-372.81	139.95	0.00	0.00	0.00
9,900.00	0.00	0.00	9,883.48	-6,074.96	-113.13	-372.81	139.95	0.00	0.00	0.00
10,000.00	0.00	0.00	9,983.48	-6,174.96	-113.13	-372.81	139.95	0.00	0.00	0.00
10,100.00	0.00	0.00	10,083.48	-6,274.96	-113.13	-372.81	139.95	0.00	0.00	0.00
10,200.00	0.00	0.00	10,183.48	-6,374.96	-113.13	-372.81	139.95	0.00	0.00	0.00
10,300.00	0.00	0.00	10,283.48	-6,474.96	-113.13	-372.81	139.95	0.00	0.00	0.00
<b>KOP (12°/100ft BUR)</b>										
10,311.58	0.00	0.00	10,275.04	-6,486.54	-113.13	-372.81	139.95	0.00	0.00	0.00
10,400.00	10.61	189.30	10,362.95	-6,574.45	-121.19	-374.12	148.08	12.00	12.00	0.00
10,500.00	22.61	189.30	10,458.61	-6,670.11	-149.35	-378.74	176.50	12.00	12.00	0.00
10,600.00	34.61	189.30	10,546.23	-6,757.73	-196.52	-386.46	224.11	12.00	12.00	0.00
10,700.00	46.61	189.30	10,622.01	-6,833.51	-260.63	-396.96	288.82	12.00	12.00	0.00
10,800.00	58.61	189.30	10,682.62	-6,894.12	-338.90	-409.78	367.81	12.00	12.00	0.00
10,900.00	70.61	189.30	10,725.42	-6,936.92	-427.89	-424.35	457.63	12.00	12.00	0.00
11,000.00	82.61	189.30	10,748.54	-6,960.04	-523.72	-440.05	554.34	12.00	12.00	0.00
<b>HZ LP *NEW*: 320ft FNL &amp; 415ft FWL of Sec 12</b>										
11,081.25	89.96	189.30	10,752.50	-6,964.00	-583.99	-449.92	615.18	12.00	12.00	0.00
11,100.00	89.96	188.14	10,752.53	-6,964.03	-622.30	-455.79	653.80	3.00	0.00	-3.00
11,200.00	89.96	185.14	10,752.59	-6,964.09	-721.61	-467.35	753.70	3.00	0.00	-3.00
11,300.00	89.96	182.14	10,752.66	-6,964.16	-821.40	-473.69	853.68	3.00	0.00	-3.00
<b>EQT TO 180.02° AZ</b>										
11,370.72	89.96	180.02	10,752.71	-6,964.21	-892.10	-475.02	924.30	3.00	0.00	-3.00
11,400.00	89.96	180.02	10,752.73	-6,964.23	-921.38	-475.03	953.50	0.00	0.00	0.00
11,500.00	89.96	180.02	10,752.80	-6,964.30	-1,021.38	-475.06	1,053.24	0.00	0.00	0.00
11,600.00	89.96	180.02	10,752.86	-6,964.36	-1,121.38	-475.09	1,152.97	0.00	0.00	0.00
11,700.00	89.96	180.02	10,752.93	-6,964.43	-1,221.38	-475.12	1,252.71	0.00	0.00	0.00
11,800.00	89.96	180.02	10,753.00	-6,964.50	-1,321.38	-475.15	1,352.45	0.00	0.00	0.00
11,900.00	89.96	180.02	10,753.07	-6,964.57	-1,421.38	-475.17	1,452.19	0.00	0.00	0.00
12,000.00	89.96	180.02	10,753.13	-6,964.63	-1,521.38	-475.20	1,551.92	0.00	0.00	0.00
12,100.00	89.96	180.02	10,753.20	-6,964.70	-1,621.38	-475.23	1,651.66	0.00	0.00	0.00
12,200.00	89.96	180.02	10,753.27	-6,964.77	-1,721.38	-475.26	1,751.40	0.00	0.00	0.00
12,300.00	89.96	180.02	10,753.33	-6,964.83	-1,821.38	-475.29	1,851.13	0.00	0.00	0.00
12,400.00	89.96	180.02	10,753.40	-6,964.90	-1,921.38	-475.32	1,950.87	0.00	0.00	0.00
12,500.00	89.96	180.02	10,753.47	-6,964.97	-2,021.38	-475.35	2,050.61	0.00	0.00	0.00
12,600.00	89.96	180.02	10,753.54	-6,965.04	-2,121.38	-475.38	2,150.35	0.00	0.00	0.00
12,700.00	89.96	180.02	10,753.60	-6,965.10	-2,221.38	-475.40	2,250.08	0.00	0.00	0.00
12,800.00	89.96	180.02	10,753.67	-6,965.17	-2,321.38	-475.43	2,349.82	0.00	0.00	0.00
12,900.00	89.96	180.02	10,753.74	-6,965.24	-2,421.38	-475.46	2,449.56	0.00	0.00	0.00
13,000.00	89.96	180.02	10,753.80	-6,965.30	-2,521.38	-475.49	2,549.29	0.00	0.00	0.00
13,100.00	89.96	180.02	10,753.87	-6,965.37	-2,621.38	-475.52	2,649.03	0.00	0.00	0.00
13,200.00	89.96	180.02	10,753.94	-6,965.44	-2,721.38	-475.55	2,748.77	0.00	0.00	0.00
13,300.00	89.96	180.02	10,754.01	-6,965.51	-2,821.38	-475.58	2,848.51	0.00	0.00	0.00
13,400.00	89.96	180.02	10,754.07	-6,965.57	-2,921.38	-475.61	2,948.24	0.00	0.00	0.00
13,500.00	89.96	180.02	10,754.14	-6,965.64	-3,021.38	-475.63	3,047.98	0.00	0.00	0.00
13,600.00	89.96	180.02	10,754.21	-6,965.71	-3,121.38	-475.66	3,147.72	0.00	0.00	0.00
13,700.00	89.96	180.02	10,754.27	-6,965.77	-3,221.38	-475.69	3,247.45	0.00	0.00	0.00
13,800.00	89.96	180.02	10,754.34	-6,965.84	-3,321.38	-475.72	3,347.19	0.00	0.00	0.00
13,900.00	89.96	180.02	10,754.41	-6,965.91	-3,421.38	-475.75	3,446.93	0.00	0.00	0.00
14,000.00	89.96	180.02	10,754.48	-6,965.98	-3,521.38	-475.78	3,546.67	0.00	0.00	0.00
14,100.00	89.96	180.02	10,754.54	-6,966.04	-3,621.38	-475.81	3,646.40	0.00	0.00	0.00
14,200.00	89.96	180.02	10,754.61	-6,966.11	-3,721.38	-475.84	3,746.14	0.00	0.00	0.00
14,300.00	89.96	180.02	10,754.68	-6,966.18	-3,821.38	-475.86	3,845.88	0.00	0.00	0.00
14,400.00	89.96	180.02	10,754.74	-6,966.24	-3,921.38	-475.89	3,945.61	0.00	0.00	0.00

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BIG MOOSE FED COM 506H
<b>Company:</b>	ASCENT ENERGY	<b>TVD Reference:</b>	KB EST @ 3788.50usft
<b>Project:</b>	LEA COUNTY, NEW MEXICO (NAD 83)	<b>MD Reference:</b>	KB EST @ 3788.50usft
<b>Site:</b>	SEC. 1 T21S R32E N.M.PM.	<b>North Reference:</b>	True
<b>Well:</b>	BIG MOOSE FED COM 506H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #2		

## Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,500.00	89.96	180.02	10,754.81	-6,966.31	-4,021.38	-475.92	4,045.35	0.00	0.00	0.00
14,600.00	89.96	180.02	10,754.88	-6,966.38	-4,121.38	-475.95	4,145.09	0.00	0.00	0.00
14,700.00	89.96	180.02	10,754.95	-6,966.45	-4,221.38	-475.98	4,244.82	0.00	0.00	0.00
14,800.00	89.96	180.02	10,755.01	-6,966.51	-4,321.38	-476.01	4,344.56	0.00	0.00	0.00
14,900.00	89.96	180.02	10,755.08	-6,966.58	-4,421.38	-476.04	4,444.30	0.00	0.00	0.00
15,000.00	89.96	180.02	10,755.15	-6,966.65	-4,521.38	-476.07	4,544.04	0.00	0.00	0.00
15,100.00	89.96	180.02	10,755.21	-6,966.71	-4,621.38	-476.09	4,643.77	0.00	0.00	0.00
15,200.00	89.96	180.02	10,755.28	-6,966.78	-4,721.38	-476.12	4,743.51	0.00	0.00	0.00
15,300.00	89.96	180.02	10,755.35	-6,966.85	-4,821.38	-476.15	4,843.25	0.00	0.00	0.00
15,400.00	89.96	180.02	10,755.42	-6,966.92	-4,921.38	-476.18	4,942.98	0.00	0.00	0.00
15,500.00	89.96	180.02	10,755.48	-6,966.98	-5,021.38	-476.21	5,042.72	0.00	0.00	0.00
15,600.00	89.96	180.02	10,755.55	-6,967.05	-5,121.38	-476.24	5,142.46	0.00	0.00	0.00
15,700.00	89.96	180.02	10,755.62	-6,967.12	-5,221.38	-476.27	5,242.20	0.00	0.00	0.00
15,800.00	89.96	180.02	10,755.68	-6,967.18	-5,321.38	-476.30	5,341.93	0.00	0.00	0.00
15,900.00	89.96	180.02	10,755.75	-6,967.25	-5,421.38	-476.32	5,441.67	0.00	0.00	0.00
16,000.00	89.96	180.02	10,755.82	-6,967.32	-5,521.38	-476.35	5,541.41	0.00	0.00	0.00
16,100.00	89.96	180.02	10,755.89	-6,967.39	-5,621.38	-476.38	5,641.14	0.00	0.00	0.00
16,200.00	89.96	180.02	10,755.95	-6,967.45	-5,721.38	-476.41	5,740.88	0.00	0.00	0.00
16,300.00	89.96	180.02	10,756.02	-6,967.52	-5,821.38	-476.44	5,840.62	0.00	0.00	0.00
16,400.00	89.96	180.02	10,756.09	-6,967.59	-5,921.38	-476.47	5,940.36	0.00	0.00	0.00
16,500.00	89.96	180.02	10,756.16	-6,967.66	-6,021.38	-476.50	6,040.09	0.00	0.00	0.00
16,600.00	89.96	180.02	10,756.22	-6,967.72	-6,121.38	-476.53	6,139.83	0.00	0.00	0.00
16,700.00	89.96	180.02	10,756.29	-6,967.79	-6,221.38	-476.55	6,239.57	0.00	0.00	0.00
16,800.00	89.96	180.02	10,756.36	-6,967.86	-6,321.38	-476.58	6,339.30	0.00	0.00	0.00
16,900.00	89.96	180.02	10,756.42	-6,967.92	-6,421.38	-476.61	6,439.04	0.00	0.00	0.00
17,000.00	89.96	180.02	10,756.49	-6,967.99	-6,521.38	-476.64	6,538.78	0.00	0.00	0.00
BHL: 990ft FNL & 390ft FWL of Sec 13										
17,013.41	89.96	180.02	10,756.50	-6,968.00	-6,534.79	-476.64	6,552.15	0.00	0.00	0.00

## Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.00	0.00	0.00	0.00	SHL: 263ft FSL & 865ft FWL of Sec 1
2,900.00	2,900.00	0.00	0.00	START NUDGE (2°/100ft BUR)
3,500.00	3,495.62	-18.18	-59.90	EOB TO 12° INC
4,771.66	4,739.49	-94.95	-312.91	END OF TANGENT
5,371.66	5,335.12	-113.13	-372.81	EOD TO VERTICAL
10,311.58	10,275.04	-113.13	-372.81	KOP (12°/100ft BUR)
11,081.25	10,752.50	-583.99	-448.92	HZ LP 'NEW': 320ft FNL & 415ft FWL of Sec 12
11,370.72	10,752.71	-892.10	-475.02	EOT TO 180.02° AZ
17,013.41	10,756.50	-6,534.79	-476.64	BHL: 990ft FNL & 390ft FWL of Sec 13

Ascent Energy, LLC  
 Big Moose Fed Com 506H  
 SHL 308' FSL & 805' FWL Sec. 1  
 BHL 990' FNL & 390' FWL Sec. 13  
 T. 21 S., R. 32 E., Lea County, NM

## DRILL PLAN PAGE 1

### Drilling Program

#### 1. ESTIMATED TOPS

Formation	TVD	MD	Bearing
Upper Permian sandstone	000'	000'	water
Rustler anhydrite	1570'	1570'	N/A
Top salt	1868'	1868'	N/A
Castile anhydrite	3150'	3151'	N/A
Yates carbonates	3282'	3283'	hydrocarbons
Capitan Reef limestone	3390'	3392'	water
Delaware Mt. Group sandstones	5540'	5577'	hydrocarbons
Cherry Canyon sandstone	5700'	5737'	hydrocarbons
Brushy Canyon sandstone	6829'	6866'	hydrocarbons
Bone Spring limestone	8739'	8776'	hydrocarbons
Avalon shale of Bone Spring	8823'	8860'	hydrocarbons
Leonard B limestone of Bone Spring	9074'	9111'	hydrocarbons
1st Bone Spring sandstone	9649'	9686'	hydrocarbons
2 <sup>nd</sup> Bone Spring carbonate	9978'	10015'	hydrocarbons
2 <sup>nd</sup> Bone Spring sandstone (goal)	10278'	10315'	hydrocarbons
(KOP	10275'	10312'	hydrocarbons
TD	10757'	17013'	hydrocarbons

#### 2. NOTABLE ZONES

Second Bone Spring sandstone is the goal. Closest water well (CP 00793 POD1) is 5106' NNE. Depth to water was not reported in the 1,000' deep well. Two windmills 1.6 miles southeast are 160' to 170' deep.

Ascent Energy, LLC  
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SHL 308' FSL & 805' FWL Sec. 1  
BHL 990' FNL & 390' FWL Sec. 13  
T. 21 S., R. 32 E., Lea County, NM

DRILL PLAN PAGE 2

### 3. PRESSURE CONTROL

Blow out preventer equipment (BOPE) will consist of a single ram, mud cross and double ram type (10,000 psi WP) preventer, and an annular preventer (5000 psi WP). Both units will be hydraulically operated. Ram type will be equipped with blind rams on the bottom and drill pipe rams on the top.

#### Auxiliary equipment:

A Kelly cock will be kept in the drill string at all times.

A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

Minimum working pressure of the BOP and related BOPE below the surface casing will be 5000-psi.

All BOPE will be tested in accordance with Onshore Order 2. All BOPE will be tested using a conventional test plug – not a cup or J packer. Both surface and intermediate casing will be tested as required by Onshore Order 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

#### Before drilling out the surface casing:

ram type BOP and accessory equipment will be tested to 5000/250 psig  
annular preventer will be tested to 3500/250 psig  
surface casing will be tested to 1500 psi for 30 minutes

#### Before drilling out the intermediate casing:

ram type BOP and accessory equipment will be tested to 5000/250 psig  
annular preventer will be tested to 3500/250 psig  
intermediate casing will be tested to 2000 psi for 30 minutes

Intermediate casing will be landed using a mandrel hanger and separate pack off. After installation, the pack off and lower flange will be pressure tested to 5000 psi. A hydraulically operated choke will be installed before drilling out of the intermediate casing shoe.



Ascent Energy, LLC  
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DRILL PLAN PAGE 3

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each TOOH. These checks will be noted on the daily tour sheets.

Variance is requested to use a co-flex line between the BOP and choke manifold instead of using a 4" O. D. steel line. Choke and kill line data book is attached. If this hose is unavailable, then a hose of equal or higher rating will be used.

Variance is requested to use a speed head (aka, multi-bowl wellhead). Diagram is attached. After running the 13.375" surface casing, a 13.625" BOP/BOPE system with a  $\geq 5000$  psi WP will be installed on the wellhead system. It will be pressure tested to 250 psi low, followed by a test to 5000-psi high. Pressure test will be repeated at least every 30 days as required by Onshore Order 2.

Speed head will be installed by the vendor's representative(s). Well head welding will be monitored by the vendor's representative.

#### 4. CASING & CEMENT

All casing will be API and new. See attached casing assumption worksheet.

Hole O. D.	Set MD	Set TVD	Casing O. D.	Weight (lb/ft)	Grade	Joint	SF Collapse	SF Burst	SF Tension
17.5"	0' - 1655'	0' - 1655'	Surface 13.375"	54.5	J-55	STC	1.4	2.89	2.0 body / 1.8 conn
12.25"	0' - 3200'	0' - 3199'	Inter. 1 9.625"	40	J-55	LTC	1.35	1.7	2.0 body / 1.8 conn
8.75"	0' - 5450'	0' - 5413'	Inter. 2 7.625"	29.7	HCP-110	EZGO FJ3	3.0	3.0	2.0 body / 1.8 conn
6.75"	0' - 17013'	0' - 10757'	Product. 5.5"	20	HCP-110	EXGO FJ3	2.1	1.24	2.28 body / 1.34 conn

Ascent Energy, LLC  
 Big Moose Fed Com 506H  
 SHL 308' FSL & 805' FWL Sec. 1  
 BHL 990' FNL & 390' FWL Sec. 13  
 T. 21 S., R. 32 E., Lea County, NM

DRILL PLAN PAGE 4

Variance is requested to waive centralizer requirements for the 7.625" casing. An expansion additive will be used in the cement slurry for the entire length of the 8.75" hole to maximize cement bond and zone isolation.

Variance is also requested to waive centralizers requirements for the 5.5" casing. An expansion additive will be used in the cement slurry for the entire length of the 6.75" hole to maximize cement bond and zone isolation.

Name	Type	Sacks	Yield	Cu. Ft.	Weight	Blend
Surface	Lead	685	1.728	1183	13.5	Class C HALCEM system + 4% bentonite
	Tail	420	1.332	559	14.8	Class C HALCEM system
TOC = GL		100% Excess				
Intermediate 1	Lead	500	1.728	864	12.7	Class C HALCEM system + 4% bentonite
	Tail	485	1.332	646	14.8	Class C HALCEM system
TOC = GL		100% Excess				
Intermediate 2	Lead	245	2.039	500	12.7	Class C EconoCem HLC + 5% salt + 3% Microbond + 3 lb/sk Kol-seal + 0.3% HR-800
	Tail	155	1.368	212	14.8	Class C HALCEM system + 3% Microbond
TOC = GL		50% Excess				
Production	Lead	610	2.887	1761	11.0	NeoCem PL + 3% Microbond
	Tail	1635	1.472	2406	13.2	NeoCem PT + 3% Microbond
TOC = GL		50% Excess				

## 5. MUD PROGRAM

An electronic pit volume totalizer (PVT) will be used to monitor volume, flow rate, pump pressure, and stroke rate. All necessary additives (e. g., barite, bentonite, LCM) to maintain mud properties and meet minimum lost circulation and weight increase needs will be on site at all times. Mud program may change due to hole conditions. A closed loop system will be used.

Ascent Energy, LLC  
Big Moose Fed Com 506H  
SHL 308' FSL & 805' FWL Sec. 1  
BHL 990' FNL & 390' FWL Sec. 13  
T. 21 S., R. 32 E., Lea County, NM

DRILL PLAN PAGE 5

Type	Interval (MD)	lb/gal	Viscosity	Fluid Loss
fresh water	0' - 1655'	9.6	28-34	N/C
brine water	1655' - 3200'	10.0	28-34	N/C
fresh water	3200' - 5450'	8.6	28-34	N/C
cut brine/gel	5450' - 17013p'	11.5	28-34	N/C

6. CORES, TESTS, & LOGS

No core, drill stem test, or open hole log is planned.

GR-CCL will be run in cased hole during completion phase of operations.

7. DOWN HOLE CONDITIONS

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is  $\approx 5033$  psig. Expected bottom hole temperature is  $\approx 165^{\circ}$  F.

H2S monitoring and detection equipment will be used from surface casing point to TD.

8. OTHER INFORMATION

Anticipated spud date is upon approval. It is expected it will take  $\approx 3$  months to drill and complete the well.

Variance is requested for the option to contract a surface rig to drill surface hole, set surface casing, and cement the surface casing. If the timing between rigs is such that Ascent would not be able to preset the surface casing, then the primary rig will MIRU and drill the well in its entirety.



## **Blowout Prevention and Control Well Kick: Shut-In Procedures**

### **Primary Kick Indicators**

If any primary kick indicators are observed, report them IMMEDIATELY TO THE DRILLER and initiate the proper shut-in procedures.

1. Increase flow rate.
2. Pit volume gain.
3. Well flows with pump off.
4. Hole not taking proper amount of mud on trips.

### **If a kick occurs while drilling:**

1. Raise the Kelly until a tool joint is above the rotary table.
2. Stop the mud pumps.
3. Open the hydraulic gate valve.
4. Close the annular preventer.
5. Close the hydraulic choke.
6. Notify the Drill Site Manager and Drilling Manager.
7. Read and record:
  - a. Shut-in drill pipe pressure,
  - b. Shut-in annulus pressure, and
  - c. Pit gain.
8. Prepare the well-killing spreadsheet.

### **If a kick occurs during a trip:**

1. Set the top tool joint on the slips.
2. Install and make up a full-opening, full opened safety valve in the fill pipe.
3. Close the safety valve.
4. Open the hydraulic gate valve.
5. Close the annular preventer.
6. Close the hydraulic choke.
7. Notify the Drill Site Manager and Drilling Manager.
8. Pick up the Kelly and make it up.
9. Open the safety valve.
10. Read and record:
  - a. Shut-in drill pipe pressure,
  - b. Shut-in casing pressure, and
  - c. Pit gain.
11. Prepare the well-killing spreadsheet.

**It is assumed the hydraulic choke is always open while drilling or tripping.**

**Note: check all lines and valves for leaks after the well has been shut-in.**

**Crewmember Stations for well kicks after the well has been shut-in:**

Crewmember	Station
Driller	On the brake.
Derrickman	Check pumps, line up mud and mixing equipment, check mud weight in pits.
Motorman	On hydraulic closing unit.
Floorhand #1	On hydraulic choke control panel to watch and record shut-in procedures.
Floorhand #2	Check BOPs, choke manifold, etc. for leaks then go to floor with driller.
Toolpusher	Make sure all crewmembers carry out their assignments.

**Big Moose 308H**

Variance is requested to waive centralizer requirements for the 7.625" casing. An expansion additive will be used in the cement slurry for the entire length of the 8.75" hole to maximize cement bond and zone isolation.

Variance is also requested to waive centralizers requirements for the 5.5" casing. An expansion additive will be used in the cement slurry for the entire length of the 6.75" hole to maximize cement bond and zone isolation.



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

## PWD Data Report

11/25/2019

APD ID: 10400030087

Submission Date: 05/08/2018

Operator Name: ASCENT ENERGY LLC

Well Name: BIG MOOSE FED COM

Well Number: 506H

Well Type: OIL WELL

Well Work Type: Drill

### 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:

**Operator Name:** ASCENT ENERGY LLC

**Well Name:** BIG MOOSE FED COM

**Well Number:** 506H

**Lined pit Monitor description:**

**Lined pit Monitor attachment:**

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

**Is the reclamation bond a rider under the BLM bond?**

**Lined pit bond number:**

**Lined pit bond amount:**

**Additional bond information attachment:**

### **Section 3 - Unlined Pits**

**Would you like to utilize Unlined Pit PWD options?** NO

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

**PWD disturbance (acres):**

**PWD surface owner:**

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

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

**Unlined pit specifications:**

**Precipitated solids disposal:**

**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?**



**Operator Name:** ASCENT ENERGY LLC

**Well Name:** BIG MOOSE FED COM

**Well Number:** 506H

**Is the reclamation bond a rider under the BLM bond?**

**Unlined pit bond number:**

**Unlined pit bond amount:**

**Additional bond information attachment:**

#### **Section 4 - Injection**

**Would you like to utilize Injection PWD options?** NO

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

**PWD surface owner:**

**PWD disturbance (acres):**

**Injection PWD discharge volume (bbl/day):**

**Injection well mineral owner:**

**Injection well type:**

**Injection well number:**

**Injection well name:**

**Assigned Injection well API number?**

**Injection well API number:**

**Injection well new surface disturbance (acres):**

**Minerals protection information:**

**Mineral protection attachment:**

**Underground Injection Control (UIC) Permit?**

**UIC Permit attachment:**

#### **Section 5 - Surface Discharge**

**Would you like to utilize Surface Discharge PWD options?** 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):**

**Operator Name:** ASCENT ENERGY LLC

**Well Name:** BIG MOOSE FED COM

**Well Number:** 506H

**Other PWD type description:**

**Other PWD type attachment:**

**Have other regulatory requirements been met?**

**Other regulatory requirements attachment:**



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

## Bond Info Data Report

11/25/2019

**APD ID:** 10400030087

**Submission Date:** 05/08/2018

Highlighted data  
reflects the most  
recent changes

**Operator Name:** ASCENT ENERGY LLC

**Well Name:** BIG MOOSE FED COM

**Well Number:** 506H

[Show Final Text](#)

**Well Type:** OIL WELL

**Well Work Type:** Drill

### Bond Information

**Federal/Indian APD:** FED

**BLM Bond number:** NMB001496

**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:**