Form 3160-3 (June 2015)

IBBS OCD

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

10. Type of Well:	e and No.
1b. Type of Well:	e and No.
1b. Type of Well:	148 (53
1b. Type of Well:	(//
Ric. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone BIG MOOSE FED COM 604H 3 2 6 3 3 1	(//
2. Name of Operator ASCENT ENERGY LLC 325830 3a. Address 3a. Address 1621 18th Street, Suite 200 Denver CO 80202 (720)710-8999 ALT LAKE / BONE SPRING At surface SWSW 308 FSL / 835 FWL / LAT 32.5015182 / LONG -103.6342029 At proposed prod. zone NWNW / 990 FNL / 365 FWL / LAT 32.4834336 / LONG -103.6357326 14. Distance in miles and direction from nearest town or post office* 22 miles 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* to nearest well, drilling, completed, 30 feet applied for, on this lease, ft. 19. Proposed Depth to nearest well, drilling, completed, 30 feet applied for, on this lease, ft. 11. Sec., T. R. M. or Blk. and Sur SEC 1 / T21S / R32E / NMP 12. County or Parish LEA 13. NN 14. No facres in lease 16. No of acres in lease 17. Spacing Unit dedicated to this well 200 18. Distance from proposed location* to nearest well, drilling, completed, 30 feet 11492 feet / 17808 feet	(//
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25. Signature Name (Printed/Typed) Date Option (State of Charles)	
(Electronic Submission) Brian Wood / Ph: (505)466-8120 05/09/2018 Title O5/09/2018	
President	
Approved by (Signature) Name (Printed/Typed) Date	
(Electronic Submission) Christopher Walls / Ph: (575)234-2234 11/22/2019 Title Office	
Title Office Petroleum Engineer CARLSBAD	
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would enapplicant to conduct operations thereon.	
Conditions of approval, if any, are attached.	ititle the
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 of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	
GCP Rec 11/26/19 K3/27/19	

pproval Date: 11/22/2019

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(Continued on page 2)

*(Instructions on page 2)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: ASCENT ENERGY LLC

LEASE NO.: | NMNM092187

LOCATION: SECTION 01, T21S, R32E, NMPM COUNTY: LEA COUNTY, NEW MEXICO

WELL NAME & NO.: BIG MOOSE FED COM 506H

SURFACE HOLE FOOTAGE: 308'/S & 805'/W **BOTTOM HOLE FOOTAGE** 990'/N & 390'/W

WELL NAME & NO.: BIG MOOSE FED COM 604H

SURFACE HOLE FOOTAGE: | 308'/S & 835'/W **BOTTOM HOLE FOOTAGE** | 990'/N & 365'/W

WELL NAME & NO.: BIG MOOSE FED COM 707H

SURFACE HOLE FOOTAGE: 308'/S & 895'/W **BOTTOM HOLE FOOTAGE** 990'/N & 1030'/W

WELL NAME & NO.: BIG MOOSE FED COM 708H

SURFACE HOLE FOOTAGE: 308'/S & 775'/W **BOTTOM HOLE FOOTAGE** 990'/N & 365'/W

COA

H2S	€ Yes	r No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	€ Low	← Medium	← High
Cave/Karst Potential			
Variance	None	Flex Hose	Other
Wellhead	Conventional	• Multibowl	← Both
Other	 ✓ 4 String Area	Capitan Reef	₩IPP
Other	Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	▼ COM	□ 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 <u>R111 Potash Areas</u> 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 <u>WIPP Areas</u> cement must come to surface on the first three casing strings.
- ❖ In <u>Capitan Reef Areas</u> 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:

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- 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.

- 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 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

- 1. 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).'
- 2. 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.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

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- 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.

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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
- 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 2nd 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.

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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 intergrity 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 intergrity 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.

Page 9 of 10

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

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



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: Brian Wood		Signed on: 05/09/2018
Title: President		
Street Address:		
City:	State:	Zip:
Phone: (505)466-812	20	
Email address: afms	s@permitswest.com	
Field Repre	esentative	
Representative Nam	ne:	
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		



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

Application Data Report 11/25/2019

APD ID: 10400030123

Operator Name: ASCENT ENERGY LLC

Submission Date: 05/09/2018

Highlighted data reflects the most

recent changes

Well Name: BIG MOOSE FED COM

Well Number: 604H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

APD ID: 10400030123 Tie to previous NOS? N

Submission Date: 05/09/2018

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

Operator PO Box:

Zip: 80202

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: 604H

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

Well Name: BIG MOOSE FED COM Well Number: 604H

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

Well Class: HORIZONTAL

MOOSE

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: 30 FT

Distance to lease line: 308 FT

Reservoir well spacing assigned acres Measurement: 200 Acres

Well plat:

BigMoose_604H_Plat_GasCapPlan_20180509124720.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	ΠVD	Will this well produce
SHL	308	FSL	835	FWL	21\$	32E	1	Aliquot	32.50151		LEA	1	NEW		NMNM	1	0	0	
Leg								sws	82	103.6342		1	MEXI		092187	4			
#1								W		029		СО	СО						
KOP	316	FSL	381	FWL	21S	32E	1	Aliquot	32.50152	-	LEA	NEW	NEW	F	NMNM	-	108	108	
Leg								sws	9	103.6357		MEXI	MEXI	<u>.</u>	092187	705	61	19	
#1								w		27		co	co			5			
PPP	0	FNL	370	FWL	21S	32E	13	Aliquot	32.48614	-	LEA	NEW	NEW	F	NMNM	-	168	114	
Leg								NWN	2	103.6357		MEXI	MEXI		014155	772	22	86	
#1-1								w		05		СО	СО			2			

Well Name: BIG MOOSE FED COM

Well Number: 604H

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	DVT	Will this well produce
PPP Leg	0	FNL	380	FWL	218	32E	12	Aliquot NWN	32.50065	103.6357	HIDA LGO	ı	NEW MEXI	F	NMNM 127892	- 764	115 40	114 07	
#1-2								W		28		СО	co			3			L
PPP	308	FSL	835	FWL	21S	32E	1	Aliquot	32.50151		LEA	ı	145	F	NMNM		0	0	
Leg								sws	82	103.6342			MEXI		092187	4			
#1-3								W		029		СО	СО						L
EXIT	990	FNL	365	FWL	218	32E	13	Aliquot	32.48343	-	LEA	NEW	NEW	F	NMNM	-	178	114	
Leg								NWN	36	103.6357			MEXI		014155		08	92	
#1								w		326		СО	co			8			
BHL	990	FNL	365	FWL	21S	32E	13	Aliquot	32.48343	-	LEA	NEW	NEW	F	МММИ	-	178	114	
Leg								NWN	36	103.6357		MEXI	MEXI		014155	772	08	92	
#1								W		326		СО	СО			8			



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

Drilling Plan Data Report

Submission Date: 05/09/2018

Highlighted data reflects the most recent changes

Ob ---- 5'---- T----

Well Number: 604H

Show Final Text

Well Name: BIG MOOSE FED COM

Operator Name: ASCENT ENERGY LLC

Well Type: OIL WELL

APD ID: 10400030123

Well Work Type: Drill

Section 1 - Geologic Formations

Formation	Pharmada a Alama		True Vertical	1	B .	A4" 4 P5	Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	
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	3155	ANHYDRITE	NONE	N
5	YATES	482	3282	3290	OTHER : Carbonates	NATURAL GAS,CO2,OIL	N
6	CAPITAN REEF	374	3390	3401	LIMESTONE	USEABLE WATER	N
7	DELAWARE	-1776	5540	5582	OTHER : Mt.Group sandstones	NATURAL GAS,CO2,OIL	N
8	CHERRY CANYON	-1936	5700	5742	SANDSTONE	NATURAL GAS,CO2,OIL	N
9	BRUSHY CANYON	-3065	6829	6871	SANDSTONE	NATURAL GAS,CO2,OIL	N
10	BONE SPRING	-4975	8739	8781	LIMESTONE	NATURAL GAS,CO2,OIL	N
11	BONE SPRING	-5059	8823	8865	SHALE,OTHER : Avalon	NATURAL GAS,CO2,OIL	N
12	BONE SPRING	-5310	9074	9116	LIMESTONE,OTHER : Leonard B	NATURAL GAS,CO2,OIL	N
13	BONE SPRING 1ST	-5885	9649	9691	SANDSTONE	NATURAL GAS,CO2,OIL	Y
14	BONE SPRING 2ND	-6214	9978	10020	OTHER : Carbonate	NATURAL GAS,CO2,OIL	N
15	BONE SPRING 2ND	-6514	10278	10320	SANDSTONE	NATURAL GAS,CO2,OIL	N
16	BONE SPRING 3RD	-7058	10822	10864	OTHER : Carbonate	NATURAL GAS,CO2,OIL	N
17	BONE SPRING 3RD	-7471	11235	11315	SANDSTONE	NATURAL GAS,CO2,OIL	Y

Well Name: BIG MOOSE FED COM Well Number: 604H

Section 2 - Blowout Prevention

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_604_BOP_Choke_20191003124054.pdf

BOP Diagram Attachment:

BigMoose_604_BOP_Choke_20191003124100.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
1	l	12.2 5	9.625	NEW	API	N	0	3200	0	3199	3764		3200	J-55	40	LT&C	1.35	1.7	DRY	1.8	DRY	2

Well Name: BIG MOOSE FED COM Well Number: 604H

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
	INTERMED IATE	8.75	7.625	NEW	API	N	0	5450	0	5408	3764			HCP -110		OTHER - EZGO FJ3	3	3	DRY	1.8	DRY	2
4	PRODUCTI ON	6.75	5.5	NEW	API	N	0	17808	0	11492	3764		17808	HCP -110		OTHER - EZGO 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_604H_Casing_Design_Assumptions_20180509130225.pdf

Casing ID: 2

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BigMoose_604H_Casing_Design_Assumptions_20180509130249.pdf

Well Name: BIG MOOSE FED COM Well Number: 604H

Casing Attachments

Casing ID: 3

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BigMoose_604H_Casing_Design_Assumptions_20180509130320.pdf

7.625in_Casing_Spec_20191003124529.pdf

Casing ID: 4

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

BigMoose_604H_Casing_Design_Assumptions_20180509130355.pdf

5.5in_Casing_Spec_20191003124610.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

Well Name: BIG MOOSE FED COM Well Number: 604H

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	1780 8	765	2.89	11	2208	50	NeoCem PL	3% Microbond
PRODUCTION	Tail		0	1780 8	1505	1.47	13.2	2215	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 additivess (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)	Gei Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
5450	1780 8	OTHER : Cut brine/gel	11.5	11.5							
0	1655	OTHER : Fresh water	9.6	9.6							
1655	3200	OTHER : Brine water	10	10							

Well Name: BIG MOOSE FED COM Well Number: 604H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	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: 5487

Anticipated Surface Pressure: 2958.76

Anticipated Bottom Hole Temperature(F): 168

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

BigMoose_604H_H2S_Plan_20180509130631.pdf

Well Name: BIG MOOSE FED COM Well Number: 604H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BigMoose_604H_Horiztonal_Drill_Plan_20180509130725.pdf

Other proposed operations facets description:

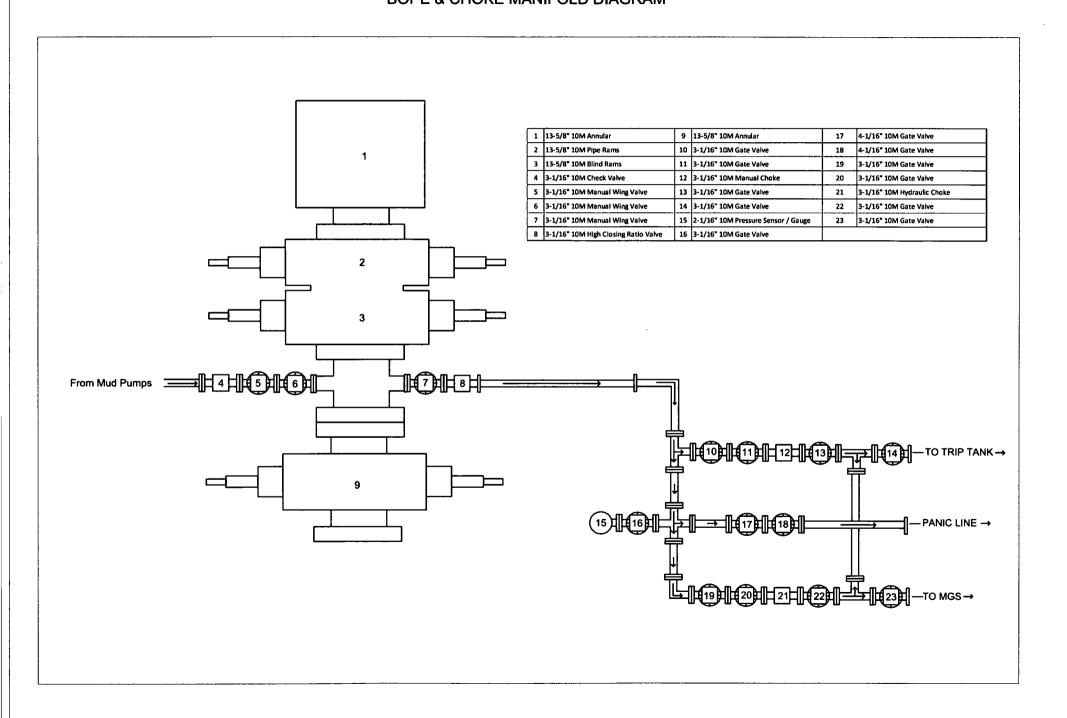
Other proposed operations facets attachment:

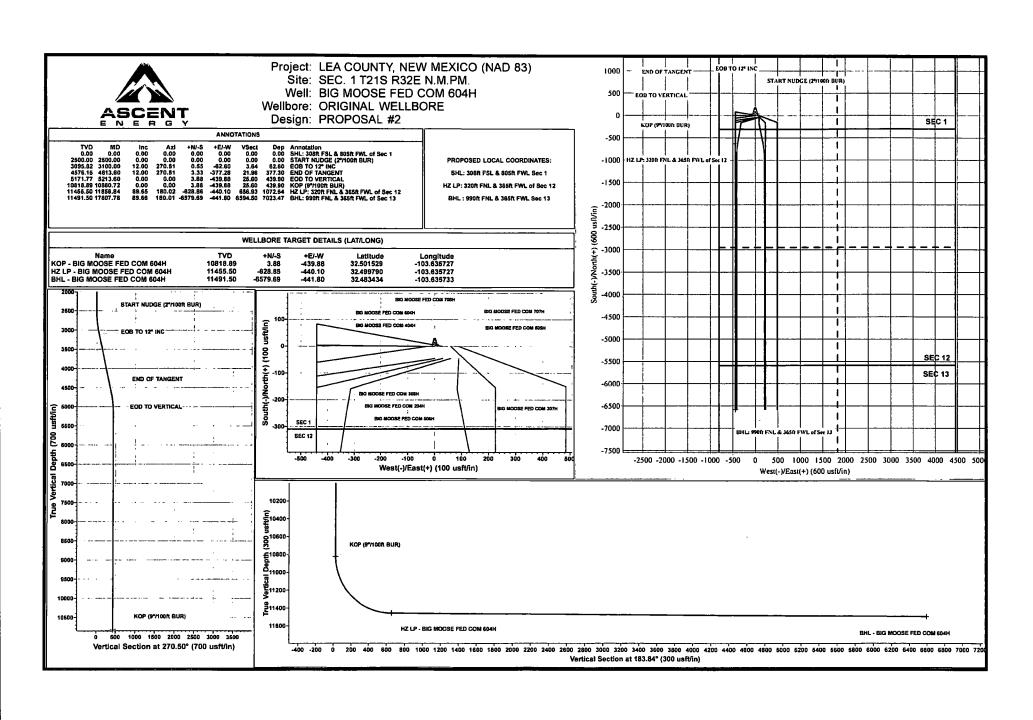
BigMoose_604H_Speedhead_Specs_20180509130746.pdf BigMoose_604H_Drill_Plan_Revised_20191003124743.pdf BigMoose_Well_Control_Plan_20191021153205.pdf

Other Variance attachment:

BigMoose_604H_Casing_Cementing_Variance_20180509130756.pdf

ASCENT ENERGY - TOQUE PAD - NABORS X04 BOPE & CHOKE MANIFOLD DIAGRAM







Database: Company: EDM 5000.1 Single User Db

ASCENT ENERGY

Project:

LEA COUNTY, NEW MEXICO (NAD 83)

Site: 'Well:

SEC. 1 T21S R32E N.M.PM. BIG MOOSE FED COM 604H **ORIGINAL WELLBORE**

Wellbore: Design:

PROPOSAL #2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BIG MOOSE FED COM 604H

KB EST @ 3788.50usft KB EST @ 3788.50usft

True

Minimum Curvature

LEA COUNTY, NEW MEXICO (NAD 83) **Project**

Map System:

US State Plane 1983

Geo Datum: Map Zone:

North American Datum 1983

New Mexico Eastern Zone

System Datum:

Mean Sea Level

Using geodetic scale factor

Site SEC. 1 T21S R32E N.M.PM

+N/-S

+E/-W

Site Position: From:

Well Position

Well

Lat/Long

Easting:

546,845.25 usft 756,934.17 usft

Longitude:

32.501395

Position Uncertainty:

0.00 usft

Slot Radius:

1.10000ft

Grid Convergence:

-103.634008 0.38°

BIG MOOSE FED COM 604H

Easting:

Northing:

546,889.46 usfl 756,843.98 usfl

Latitude: Longitude: 32.501518

Position Uncertainty

-89.91 usft 0.00 usft

44.80 usft

Wellhead Elevation:

usfl

Ground Level:

-103.634300 3,763.50 usft

ORIGINAL WELLBORE Wellbore Field Strength **Magnetics Model Name** Sample Date Declination Dip Angle (°) (°) (nT) **IGRF2015** 09/02/2018 6.93 60.30 48,027

PROPOSAL #2 Design Audit Notes: Version: Phase: **PROTOTYPE** 0.00 Tie On Depth: Depth From (TVD) Vertical Section: +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.00 0.00 0.00 183.84

MD	Inc	Azi	Vertical	SS	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate (°/100usf	TFO	
(usft)	(°)	(°)	Depth	(usft)	(usft)	(usft)	(°/100usf	(°/100usf	(/Tooust	(°)	Target
0.00	0.00	0.00	0.00	-3,788.50	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	
3,100.00	12.00	270.51	3,095.62	-692.88	0.55	-62.60	2.00	2.00	0.00	270.51	
4,613.60	12.00	270.51	4,576.14	787.64	3.33	-377.28	0.00	0.00	0.00	0.00	
5,213.60	0.00	0.00	5,171.77	1,383.27	3.88	-439.88	2.00	-2.00	0.00	180.00	
0,860.72	0.00	0.00	10,818.89	7,030.39	3.88	-439.88	0.00	0.00	0.00	0.00	KOP - BIG MOOS
1,856.84	89.65	180.02	11,455.50	7,667.00	-628.85	-440.10	9.00	9.00	-18.07	180.02	HZ LP - BIG MOO
7.807.78	89.66	180.01	11,491.50	7.703.00	-6.579.69	-441.80	0.00	0.00	0.00	-44.83	BHL - BIG MOOS



Dätabase: Company: Project:

EDM 5000.1 Single User Db ASCENT ENERGY

LEA COUNTY, NEW MEXICO (NAD 83)

Site: Well: SEC. 1 T21S R32E N.M.PM.

BIG MOOSE FED COM 604H ORIGINAL WELLBORE Wellbore: PROPOSAL #2 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well BIG MOOSE FED COM 604H KB EST @ 3788.50usft

KB EST @ 3788.50usft

True Minimum Curvature

Design:	PRO	POSAL #2							···	
Planned Survey	, <u> </u>						- 10 Transit Tage to move			
	_				•					
		•	= 145				Vertical	Dogleg	Build	Turn
MD (usft)	Inc	Azi	TVD (usft)	SS (usft)	+N/-S	+E/-W	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
	(°)	(°)		(usit)	(usft)	(usft)	(uait)	(/ loousit)	(71000311)	(/ 1000511)
		805ft FWL o				1				
0.00 100.00	0.00 0.00	0.00 0.00	0.00 100.00	3,788.50 3,688.50	0.00 0.00	<i>0.00</i> 0.00	<i>0.00</i> 0.00	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
600.00 700.00	0.00 0.00	0.00 0.00	600.00 700.00	3,188.50 3,088.50	0.00 0.00	0.00 0.00	0.00 0.00	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 1,300.00	0.00 0.00	0.00 0.00	1,200.00 1,300.00	2,588.50 2,488.50	0.00 0.00	0.00 0.00	0.00 0.00	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 1,900.00	0.00 0.00	0.00 0.00	1,800.00 1,900.00	1,988.50 1,888.50	0.00 0.00	0.00 0.00	0.00 0.00	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 2,400.00	0.00 0.00	0.00 0.00	2,300.00 2,400.00	1,488.50 1,388.50	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
· ·			2,400.00	1,366.50	0.00	0.00	U.UU	U.UU	0.00	0.00
2,500.00	NUDGE (2 0.00	°/100ft BUR) 0.00	2,500.00	1,288.50	0.00	0.00	0.00	0.00	0.00	
2,600.00	2.00	270.51	2,599.98	1,188.52	0.02	-1.75	0.10	2.00	2.00	0.00 0.00
2,700.00	4.00	270.51	2,699.84	1,088.66	0.06	-6.98	0.41	2.00	2.00	0.00
2,800.00	6.00	270.51	2,799.45	989.05	0.14	-15.69	0.91	2.00	2.00	0.00
2,900.00	8.00	270.51	2,898.70	889.80	0.25	-27.88	1.62	2.00	2.00	0.00
3,000.00	10.00 12° INC	270.51	2,997.47	791.03	0.38	-43.52	2.53	2.00	2.00	0.00
3,100.00	12.00	270.51	3,095.62	692.88	0.55	-62.60	3.64	2.00	2.00	0.00
3,200.00	12.00	270.51	3,193.44	595.06	0.74	-83.39	4.85	0.00	0.00	0.00
3,300.00 3,400.00	12.00 12.00	270.51 270.51	3,291.25 3,389.07	497.25 399.43	0.92 1.10	-104.18 -124.97	6.06 7.27	0.00 0.00	0.00 0.00	0.00 0.00
3,500.00	12.00	270.51	3,486.88	301.62	1.10	-124.57 -145.76	8.48	0.00	0.00	0.00
3,500.00 3,600.00	12.00	270.51 270.51	3,466.66 3,584.70	203.80	1.29	-145.76 -166.55	9.69	0.00	0.00	0.00
3,700.00	12.00	270.51	3,682.51	105.99	1.65	-187.34	10.90	0.00	0.00	0.00
3,800.00	12.00	270.51	3,780.33	8.17	1.84	-208.13	12.11	0.00	0.00	0.00
3,900.00	12.00	270.51	3,878.14	-89.64	2.02	-228.92	13.32	0.00	0.00	0.00
4,000.00 4,100.00	12.00 12.00	270.51 270.51	3,975.96 4,073.77	-187.46 -285.27	2.20 2.39	-249.71 -270.50	14.53 15.74	0.00 0.00	0.00 0.00	0.00 0.00
4,200.00	12.00	270.51	4,073.77 4,171.59	-265.27 -383.09	2.57	-270.50 -291.29	16.95	0.00	0.00	0.00
4,300.00	12.00	270.51	4,269.40	-480.90	2.75	-312.08	18.16	0.00	0.00	0.00
4,400.00	12.00	270.51	4,367.22	-578.72	2.94	-332.87	19.37	0.00	0.00	0.00
4,500.00	12.00	270.51	4,465.03	-676.53	3.12	-353.67	20.58	0.00	0.00	0.00
4,600.00	12.00	270.51	4,562.84	-774.34	3.30	-374.46	21.79	0.00	0.00	0.00
4,613.60	TANGEN 12.00	270.51	4.576.15	-787.65	3.33	-377.28	21.96	0.00	0.00	0.00
4,700.00	10.27	270.51	4,660.92	-872.42	3.48	-393.97	22.93	2.00	-2.00	0.00
4,800.00	8.27	270.51	4,759.61	<u>-971</u> .11	3.62	-410.08	23.86	2.00	-2.00	0.00



Database: Company: EDM 5000.1 Single User Db ASCENT ENERGY

Project:

LEA COUNTY, NEW MEXICO (NAD 83) SEC. 1 T21S R32E N.M.PM.

Site: Well:

BIG MOOSE FED COM 604H **ORIGINAL WELLBORE**

Wellbore: Design:

PROPOSAL #2

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference: MD Reference: North Reference: Well BIG MOOSE FED COM 604H

KB EST @ 3788.50usft KB EST @ 3788.50usft

True

Minimum Curvature

Planned Surve	y !									
MD	inc	Azi	TVD	, \$S	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
4,900.00	6.27	270.51	4,858.80	-1,070.30	3.73	-422.74	24.60	2.00	-2.00	0.00
5,000.00	4.27	270.51	4,958.37	-1,169.87	3.81	-431.92	25.14	2.00	-2.00	0.00
5,100.00	2.27	270.51	5,058.20	-1,269.70	3.86	-437.63	25.47	2.00	-2.00	0.00
5,200.00	0.27	270.51	5,158.17	-1,369.67	3.88	-439.85	25.60	2.00	-2.00	0.00
EOD T	O VERTIC									
5,213.60	0.00	0.00	5,171.77	-1,383.27	3.88	-439.88	25.60	2.00	-2.00	0.00
5,300.00	0.00	0.00	5,258.17	-1,469.67	3.88	-439.88	25.60	0.00	0.00	0.00
5,400.00	0.00	0.00	5,358.17	-1,569.67	3.88	-439.88	25.60	0.00	0.00	0.00
5,500.00	0.00	0.00	5,458.17	-1,669.67	3.88	-439.88	25.60	0.00	0.00	0.00
5,600.00	0.00	0.00	5,558.17	-1,769.67	3.88	-439.88	25.60	0.00	0.00	0.00
5,700.00	0.00	0.00	5,658.17	-1,869.67	3.88	-439.88	25.60	0.00	0.00	0.00
5,800.00	0.00	0.00	5,758.17	-1,969.67	3.88	-439.88	25.60	0.00	0.00	0.00
5,900.00	0.00	0.00	5,858.17	-2,069.67	3.88	-439.88	25.60	0.00	0.00	0.00
6,000.00	0.00	0.00	5,958.17	-2,169.67	3.88	-439.88	25.60	0.00	0.00	0.00
6,100.00	0.00	0.00	6,058.17	-2,269.67	3.88	-439.88	25.60	0.00	0.00	0.00
6,200.00	0.00	0.00	6,158.17	-2,369.67	3.88	-439.88	25.60	0.00	0.00	0.00
6,300.00	0.00	0.00	6,258.17	-2,469.67	3.88	-439.88	25.60	0.00	0.00	0.00
6,400.00	0.00	0.00	6,358.17	-2,569.67	3.88	-439.88	25.60	0.00	0.00	0.00
6,500.00	0.00	0.00	6,458.17	-2,669.67	3.88	-439.88	25.60	0.00	0.00	0.00
6,600.00	0.00	0.00	6,558.17	-2,769.67	3.88	-439.88	25.60	0.00	0.00	0.00
6,700.00	0.00	0.00	6,658.17	-2,869.67	3.88	-439.88	25.60	0.00	0.00	0.00
6,800.00	0.00	0.00	6,758.17	-2,969.67	3.88	-439.88	25.60	0.00	0.00	0.00
6,900.00	0.00	0.00	6,858.17	-3,069.67	3.88	-439.88	25.60	0.00	0.00	0.00
7,000.00	0.00	0.00	6,958.17	-3,169.67	3.88	-439.88	25.60	0.00	0.00	0.00
7,100.00	0.00	0.00	7,058.17	-3,269.67	3.88	-439.88	25.60	0.00	0.00	0.00
7,200.00	0.00	0.00	7,158.17	-3,369.67	3.88	-439.88	25.60	0.00	0.00	0.00
7,300.00	0.00	0.00	7,258.17	-3,469.67	3.88	-439.88	25.60	0.00	0.00	0.00
7,400.00	0.00	0.00	7,358.17	-3,569.67	3.88	-439.88	25.60	0.00	0.00	0.00
7,500.00	0.00	0.00	7,458.17	-3,669.67	3.88	-439.88	25.60	0.00	0.00	0.00
7,600.00	0.00	0.00	7,558.17	-3,769.67	3.88	-439.88	25.60	0.00	0.00	0.00
7,700.00	0.00	0.00	7,658.17	-3,869.67	3.88	-439.88	25.60	0.00	0.00	0.00
7,800.00	0.00	0.00	7,758.17	-3,969.67	3.88	-439.88	25.60	0.00	0.00	0.00
7,900.00	0.00	0.00	7,858.17	-4,069.67	3.88	-439.88	25.60	0.00	0.00	0.00
8,000.00	0.00	0.00	7,958.17	-4,169.67	3.88	-439.88	25.60	0.00	0.00	0.00
8,100.00	0.00	0.00	8,058.17	-4,269.67	3.88	-439.88	25.60	0.00	0.00	0.00
8,200.00	0.00	0.00	8,158.17	-4,369.67	3.88	-439.88	25.60	0.00	0.00	0.00
8,300.00	0.00	0.00	8,258.17	-4,469.67	3.88	-439.88	25.60	0.00	0.00	0.00
8,400.00	0.00	0.00	8,358.17	-4,569.67	3.88	-439.88	25.60	0.00	0.00	0.00
8,500.00	0.00	0.00	8,458.17	-4,669.67	3.88	-439.88	25.60	0.00	0.00	0.00
8,600.00	0.00	0.00	8,558.17	-4,769.67	3.88	-439.88 430.88	25.60	0.00	0.00	0.00
8,700.00	0.00	0.00	8,658.17	-4,869.67	3.88	-439.88	25.60	0.00	0.00	0.00
8,800.00	0.00	0.00	8,758.17	-4,969.67	3.88	-439.88	25.60	0.00	0.00	0.00
8,900.00	0.00	0.00	8,858.17	-5,069.67	3.88	-439.88	25.60	0.00	0.00	0.00
9,000.00	0.00	0.00	8,958.17	-5,169.67	3.88	-439.88	25.60	0.00	0.00	0.00
9,100.00	0.00	0.00	9,058.17	-5,269.67	3.88	-439.88	25.60	0.00	0.00	0.00
9,200.00	0.00	0.00	9,158.17	-5,369.67	3.88	-439.88	25.60	0.00	0.00	0.00
9,300.00	0.00	0.00	9,258.17	-5,469.67	3.88	-439.88	25.60	0.00	0.00	0.00
9,400.00	0.00	0.00	9,358.17	-5,569.67	3.88	-439.88	25.60	0.00	0.00	0.00
9,500.00	0.00	0.00	9,458.17	-5,669.67	3.88	-439.88	25.60	0.00	0.00	0.00
9,600.00	0.00	0.00	9,558.17	-5,769.67	3.88	-439.88	25.60	0.00	0.00	0.00
9,700.00	0.00	0.00	9,658.17	-5,869.67	3.88	-439.88	25.60	0.00	0.00	0.00
9,800.00	0.00	0.00	9,758.17	-5,969.67	3.88	-439.88	25.60	0.00	0.00	0.00
9,900.00	0.00	0.00	9,858.17	-6,069.67	3.88	-439.88	25.60	0.00	0.00	0.00



Database:

EDM 5000.1 Single User Db ASCENT ENERGY

Company: ASCENT ENERGY
Project: LEA COUNTY, NEW MEXICO (NAD 83)

Project: Site: Well:

SEC. 1 T21S R32E N.M.PM. BIG MOOSE FED COM 604H

Wellbore: Design: ORIGINAL WELLBORE PROPOSAL #2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BIG MOOSE FED COM 604H

KB EST @ 3788.50usft KB EST @ 3788.50usft

True

Minimum Curvature

Design:	APRL 25 " C****	POSAL #2			·		*xmann	-	longere versenske	
Planned Survey				TT. EEEEE				TT THEFT		
	'									
4 ()							Vertical	Dogleg	Build	Turn
MD	lne	Ai	TVD	SS	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	inc (°)	Azi (°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
(- -	. <i></i>					
10,000.00	0.00	0.00	9,958.17	-6,169.67	3.88	-439.88	25.60	0.00	0.00	0.00
10,100.00	0.00	0.00	10,058.17	-6,269.67	3.88	-439.88	25.60	0.00	0.00	0.00
10,200.00	0.00	0.00	10,158.17	-6,369.67	3.88	-439.88	25.60	0.00	0.00	0.00
10,300.00	0.00	0.00	10,258.17	-6,469.67	3.88	-439.88	25.60	0.00	0.00	0.00
10,400.00	0.00	0.00	10,358.17	-6,569.67	3.88	-439.88	25.60	0.00	0.00	0.00
10,500.00	0.00	0.00	10,458.17	-6,669.67	3.88	-439.88	25.60	0.00	0.00	0.00
10,600.00	0.00	0.00	10,558.17	-6,769.67	3.88	-439.88	25.60	0.00	0.00	0.00
10,700.00	0.00	0.00	10,658.17	-6,869.67	3.88	-439.88	25.60	0.00	0.00	0.00
10,800.00	0.00	0.00	10,758.17	-6,969.67	3.88	-439.88	25.60	0.00	0.00	0.00
	/100ft BUI									
10,860.72	0.00	0.00	10,818.89	-7,030.39	3.88	-439.88	25.60	0.00	0.00	0.00
10,900.00	3.54	180.02	10,858.15	-7,069.65	2.67	-439.88	26.81	9.00	9.00	0.00
11,000.00	12.54	180.02	10,957.06	-7,168.56	-11.30	-439.89	40.74	9.00	9.00	0.00
11,100.00	21.54	180.02	11,052.58	-7,264.08	-40.56	-439.90	69.94	9.00	9.00	0.00
11,200.00	30.54	180.02	11,142.34	-7,353.84	-84.41	-439.91	113.69	9.00	9.00	0.00
11,200.00	39.54	180.02	11,142.34	-7,353.64 -7,435.63	-04.41 -141.76	-439.91 -439.93	170.91	9.00	9.00	0.00
11,400.00	48.54	180.02	11,295.95	-7,507.45	-211.20	-439.96	240.20	9.00	9.00	0.00
11,500.00	57.54	180.02	11,356.02	-7,567.52	-291.01	-439.98	319.84	9.00	9.00	0.00
11,600.00	66.54	180.02	11,402.87	-7,614.37	-379.25	-440.01	407.87	9.00	9.00	0.00
			ŕ							
11,700.00	75.53	180.02	11,435.33	-7,646.83 7,664.13	-473.72 573.44	-440.05	502.14	9.00 9.00	9.00	0.00
11,800.00	84.53	180.02	11,452.62	-7,664.12	-572.11	-440.08	600.31	9.00	9.00	0.00
		& 365ft FWL		7 667 00	-628.86	440.40	CEC 02			
<i>11,856.84</i> 11,900.00	89.65 89.65	180.02 180.02	<i>11,455.50</i> 11,455.76	-7,667.00 -7,667.26	-628.86 -672.02	-440.10 -440.11	656.93 699.99	9.00 0.00	9.00 0.00	0.00
12,000.00	89.65	180.02	11,456.37	-7,667.20 -7,667.87	-772.02	-440.11 -440.15	799.77	0.00	0.00	0.00 0.00
•			•	•						
12,100.00	89.65	180.02	11,456.98	-7,668.48	-872.01	-440.18	899.55	0.00	0.00	0.00
12,200.00	89.65	180.02	11,457.59	-7,669.09	-972.01	-440.22	999.32	0.00	0.00	0.00
	89.65	180.02	11,458.20	-7,669.70	-1,072.01	-440.25	1,099.10	0.00	0.00	0.00
12,400.00	89.65	180.02	11,458.81	-7,670.31 7,670.00	-1,172.01	-440.28	1,198.87	0.00	0.00	0.00
•	89.65	180.02	11,459.42	-7,670.92	-1,272.01	-440.31	1,298.65	0.00	0.00	0.00
	89.65	180.02	11,460.03	-7,671.53	-1,372.00	-440.35	1,398.42	0.00	0.00	0.00
12,700.00	89.65	180.02	11,460.64	-7,672.14	-1,472.00	-440.38	1,498.20	0.00	0.00	0.00
12,800.00	89.65	180.02	11,461.25	-7,672.75	-1,572.00	-440.41	1,597.97	0.00	0.00	0.00
	89.65	180.02	11,461.86	-7,673.36	-1,672.00	-440.45	1,697.75	0.00	0.00	0.00
13,000.00	89.65	180.02	11,462.47	-7,673.97	-1,772.00	-440.48	1,797.53	0.00	0.00	0.00
	89.65	180.02	11,463.08	-7,674.58	-1,872.00	-440.51	1,897.30	0.00	0.00	0.00
•	89.65	180.02	11,463.68	-7,675.18	-1,971.99	-440.54	1,997.08	0.00	0.00	0.00
13,300.00	89.65	180.02	11,464.29	-7,675.79	-2,071.99	-440.57	2,096.85	0.00	0.00	0.00
13,400.00	89.65	180.02	11,464.90	-7,676.40	-2,171.99	-440.60	2,196.63	0.00	0.00	0.00
13,500.00	89.65	180.02	11,465.51	-7,677.01	-2,271.99	-440.64	2,296.40	0.00	0.00	0.00
13,600.00	89.65	180.02	11,466.12	-7,677.62	-2,371.99	-440.67	2,396.18	0.00	0.00	0.00
13,700.00	89.65	180.02	11,466.72	-7,678.22	-2,471.98	-440.70	2,495.96	0.00	0.00	0.00
13,800.00	89.65	180.02	11,467.33	-7,678.83	-2,571.98	-440.73	2,595.73	0.00	0.00	0.00
13,900.00	89.65	180.02	11,467.94	-7,679.44	-2,671.98	-440.76	2,695.51	0.00	0.00	0.00
14,000.00	89.65	180.02	11,468.54	-7,680.04	-2,771.98	-440.79	2,795.28	0.00	0.00	0.00
14,100.00	89.65	180.02	11,469.15	-7,680.65	-2,871.98	-440.82	2,895.06	0.00	0.00	0.00
14,100.00	89.65	180.02	11,469.76	-7,680.05 -7,681.26	-2,971.98	-440.85	2,994.83	0.00	0.00	0.00
14,300.00	89.65	180.02	11,470.36	-7,681.86	-3,071.97	-440.88	3.094.61	0.00	0.00	0.00
14,400.00	89.65	180.02	11,470.97	-7,682.47	-3,171.97	-440.91	3,194.38	0.00	0.00	0.00
14,500.00	89.65	180.02	11,471.57	-7,683.07	-3,271.97	-440.94	3,294.16	0.00	0.00	0.00
•				•						
	89.65	180.02	11,472.18	-7,683.68	-3,371.97	- 440.97	3,393.93	0.00	0.00	0.00
14,600.00							2 402 74	0.00	0.00	0.00
14,700.00	89.65 89.65	180.02 180.02	11,472.78 11,473.39	-7,684.28 -7,684.89	-3,471.97 -3,571.96	-440.99 -441.02	3,493.71 3,593.49	0.00 0.00	0.00 0.00	0.00 0.00



Database: Company: Project:

EDM 5000.1 Single User Db ASCENT ENERGY

LEA COUNTY, NEW MEXICO (NAD 83) SEC. 1 T21S R32E N.M.PM.

Site: 'Well:

BIG MOOSE FED COM 604H **ORIGINAL WELLBORE**

Wellbore: Design:

PROPOSAL #2

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well BIG MOOSE FED COM 604H

KB EST @ 3788.50usft KB EST @ 3788.50usft

Minimum Curvature

lanned Surve	y [_			· · · · · · · · · · · · · · · · · · ·						
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)
15,000.00	89.65	180.02	11,474.60	-7,686.10	-3,771.96	-441.08	3,793.04	0.00	0.00	0.00
15,100.00	89.65	180.02	11,475.20	-7,686.70	-3,871.96	-441.11	3,892.81	0.00	0.00	0.00
15,200.00	89.65	180.02	11,475.81	-7,687.31	-3,971.96	-441.14	3,992.59	0.00	0.00	0.00
15,300.00	89.65	180.02	11,476.41	-7,687.91	-4,071.96	-441.16	4,092.36	0.00	0.00	0.00
15,400.00	89.65	180.02	11,477.02	-7,688.52	-4,171.95	-441.19	4,192.14	0.00	0.00	0.00
15,500.00	89.65	180.02	11,477.62	-7,689.12	-4,271.95	-441.22	4,291.91	0.00	0.00	0.00
15,600.00	89.65	180.02	11,478.22	-7,689.72	-4,371.95	-441.25	4,391.69	0.00	0.00	0.00
15,700.00	89.65	180.02	11,478.83	-7,690.33	-4,471.95	-441.27	4,491.46	0.00	0.00	0.00
15,800.00	89.65	180.02	11,479.43	-7,690.93	-4,571.95	-441.30	4,591.24	0.00	0.00	0.00
15,900.00	89.65	180.02	11,480.03	-7,691.53	-4,671.94	-441.33	4,691.01	0.00	0.00	0.00
16,000.00	89.65	180.02	11,480.64	-7,692.14	-4,771.94	-441.35	4,790.79	0.00	0.00	0.00
16,100.00	89.65	180.01	11,481.24	-7,692.74	-4,871.94	-441.38	4,890.57	0.00	0.00	0.00
16,200.00	89.65	180.01	11,481.84	-7,693.34	-4,971.94	-441.40	4,990.34	0.00	0.00	0.00
16,300.00	89.66	180.01	11,482.44	-7,693.94	-5,071.94	-441.43	5,090.12	0.00	0.00	0.00
16,400.00	89.66	180.01	11,483.05	-7,694.55	-5,171.94	-441.46	5,189.89	0.00	0.00	0.00
16,500.00	89.66	180.01	11,483.65	-7,695.15	-5,271.93	-441.48	5,289.67	0.00	0.00	0.00
16,600.00 16,700.00 16,800.00 16,900.00 17,000.00	89.66 89.66 89.66 89.66	180.01 180.01 180.01 180.01 180.01	11,484.25 11,484.85 11,485.45 11,486.05 11,486.65	-7,695.75 -7,696.35 -7,696.95 -7,697.55 -7,698.15	-5,371.93 -5,471.93 -5,571.93 -5,671.93 -5,771.92	-441.51 -441.53 -441.56 -441.58 -441.61	5,389.44 5,489.22 5,588.99 5,688.77 5,788.54	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
17,100.00	89.66	180.01	11,487.25	-7,698.75	-5,871.92	-441.63	5,888.32	0.00	0.00	0.00
17,200.00	89.66	180.01	11,487.85	-7,699.35	-5,971.92	-441.65	5,988.09	0.00	0.00	0.00
17,300.00	89.66	180.01	11,488.45	-7,699.95	-6,071.92	-441.68	6,087.87	0.00	0.00	0.00
17,400.00	89.66	180.01	11,489.05	-7,700.55	-6,171.92	-441.70	6,187.64	0.00	0.00	0.00
17,500.00	89.66	180.01	11,489.65	-7,701.15	-6,271.92	-441.73	6,287.42	0.00	0.00	0.00
17,600.00	89.66	180.01	11,490.25	-7,701.75	-6,371.91	-441.75	6,387.19	0.00	0.00	0.00
17,700.00	89.66	180.01	11,490.85	-7,702.35	-6,471.91	-441.77	6,486.97	0.00	0.00	0.00
17,800.00	89.66	180.01	11,491.45	-7,702.95	-6,571.91	-441.80	6,586.74	0.00	0.00	0.00
17,807.78	89.66	365ft FWL o	11.491.50	-7,703.00	-6,579.69	-441.80	6,594.50	0.00	0.00	0.00

Plan Annota	tions [
			Local Co	ordinates	
	MD (usft)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Comment
	0.00	0.00	0.00	0.00	SHL: 308ft FSL & 805ft FWL of Sec 1
	2,500.00	2,500.00	0.00	0.00	START NUDGE (2°/100ft BUR)
	3,100.00	3,095.62	0.55	-62.60	EOB TO 12° INC
	4.613.60	4,576.15	3.33	-377.28	END OF TANGENT
	5.213.60	5.171.77	3.88	-439.88	EOD TO VERTICAL
	10.860.72	10.818.89	3.88	-439.88	KOP (9°/100ft BUR)
	11,856.84	11,455.50	-628.86	-440.10	HZ LP: 320ft FNL & 365ft FWL of Sec 12
	17,807.78	11 491 50	-6,579.69	-441.80	BHL: 990ft FNL & 365ft FWL of Sec 13



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



APD ID: 10400030123

Submission Date: 05/09/2018

Operator Name: ASCENT ENERGY LLC

Well Name: BIG MOOSE FED COM

Well Number: 604H

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:

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:

Well Name: BIG MOOSE FED COM Well Number: 604H

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:

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?

Operator Name: ASCENT ENERGY LLC
Well Name: BIG MOOSE FED COM

Well Number: 604H

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):

Well Name: BIG MOOSE FED COM Well Number: 604H

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: 10400030123

Operator Name: ASCENT ENERGY LLC

Well Name: BIG MOOSE FED COM

Well Type: OIL WELL

Submission Date: 05/09/2018

Highlighted data reflects the most

recent changes

Well Number: 604H

Show Final Text

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: