Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

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

8. Lease Name and Well No.
[330652]

2. Name of Operator
[325830]

9. API Well No.
30-025-49051

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory **[96399]**

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface
At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

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.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date

Title

Approved by *(Signature)*	Name *(Printed/Typed)*	Date

Title	Office

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.

GCP Rec 04/26/2021

06/18/2021 KZ

SL

APPROVED WITH CONDITIONS

Approval Date: 04/28/2021

(Continued on page 2)

*(Instructions on page 2)

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 wen, 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 directionany 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 wen 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 win 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 conects this information to anow 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Approval Date: 04/28/2021

Additional Operator Remarks

Location of Well

0. SHL: NWNE / 155 FNL / 2200 FEL / TWSP: 20S / RANGE: 33E / SECTION: 16 / LAT: 32.579978 / LONG: -103.666831 (TVD: 0 feet, MD: 0 feet)

PPP: NWSE / 2641 FNL / 2311 FEL / TWSP: 20S / RANGE: 33E / SECTION: 21 / LAT: 32.558633 / LONG: -103.667175 (TVD: 11176 feet, MD: 18505 feet)

PPP: NWNE / 0 FSL / 2311 FEL / TWSP: 20S / RANGE: 33E / SECTION: 21 / LAT: 32.565892 / LONG: -103.667178 (TVD: 11091 feet, MD: 15864 feet)

PPP: NWNE / 100 FNL / 2310 FEL / TWSP: 20S / RANGE: 33E / SECTION: 16 / LAT: 32.580133 / LONG: -103.667491 (TVD: 10647 feet, MD: 10682 feet)

BHL: SWSE / 50 FSL / 2310 FEL / TWSP: 20S / RANGE: 33E / SECTION: 21 / LAT: 32.551509 / LONG: -103.667169 (TVD: 11266 feet, MD: 21214 feet)

BLM Point of Contact

Name: Gavin Mickwee
Title: Land Law Examiner
Phone: (575) 234-5972
Email: gmickwee@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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-49051	96399	TEAS; BONE SPRING, WEST

[4] Property Code	[5] Property Name	[6] Well Number
330652	PONY EXPRESS FED COM	603H

[7] OGRID No.	[8] Operator Name	[9] Elevation
325830	ASCENT ENERGY	3541.9'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	16	20S	33E		155	NORTH	2200	EAST	LEA

[11] Bottom Hole Location If Different From Surface

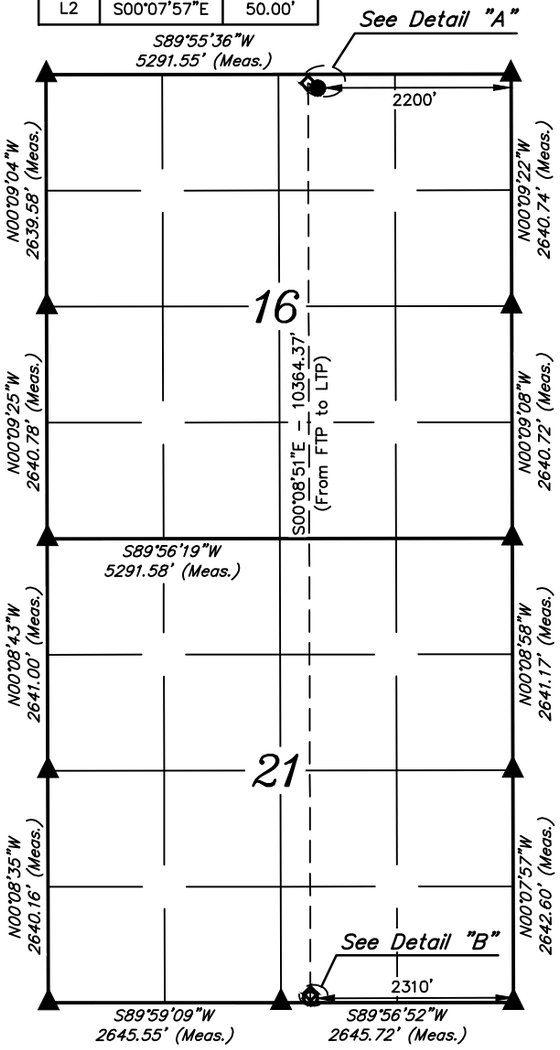
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	21	20S	33E		50	SOUTH	2310	EAST	LEA

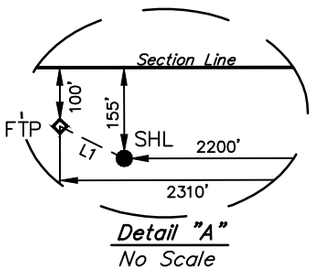
[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

[16]

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N63°29'22"W	122.83'
L2	S00°07'57"E	50.00'





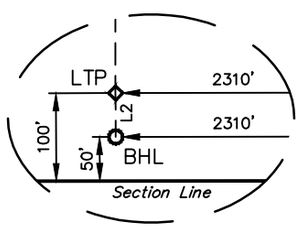
Detail "A"
No Scale

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°34'47.92" (32.579978°)
LONGITUDE = 103°40'00.59" (103.666831°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°34'47.48" (32.579856°)
LONGITUDE = 103°39'58.81" (103.666337°)
STATE PLANE NAD 83 (N.M. EAST)
N: 575369.69' E: 746636.01'
STATE PLANE NAD 27 (N.M. EAST)
N: 575307.27' E: 705455.48'

NAD 83 (FIRST TAKE POINT)
LATITUDE = 32°34'48.47" (32.580129°)
LONGITUDE = 103°40'01.88" (103.667188°)
NAD 27 (FIRST TAKE POINT)
LATITUDE = 32°34'48.03" (32.580007°)
LONGITUDE = 103°40'00.10" (103.666693°)
STATE PLANE NAD 83 (N.M. EAST)
N: 575424.04' E: 746525.89'
STATE PLANE NAD 27 (N.M. EAST)
N: 575361.62' E: 705345.36'

NAD 83 (LAST TAKE POINT)
LATITUDE = 32°33'05.93" (32.551647°)
LONGITUDE = 103°40'01.81" (103.667169°)
NAD 27 (LAST TAKE HOLE POINT)
LATITUDE = 32°33'05.49" (32.551524°)
LONGITUDE = 103°40'00.03" (103.666676°)
STATE PLANE NAD 83 (N.M. EAST)
N: 565061.78' E: 746596.40'
STATE PLANE NAD 27 (N.M. EAST)
N: 564999.65' E: 705415.57'

NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 32°33'05.43" (32.551509°)
LONGITUDE = 103°40'01.81" (103.667169°)
NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 32°33'04.99" (32.551387°)
LONGITUDE = 103°40'00.03" (103.666676°)
STATE PLANE NAD 83 (N.M. EAST)
N: 565011.79' E: 746596.73'
STATE PLANE NAD 27 (N.M. EAST)
N: 564949.66' E: 705415.90'



Detail "B"
No Scale

● = SURFACE HOLE LOCATION
◇ = FTP/LTP
○ = BOTTOM HOLE LOCATION
▲ = SECTION CORNER LOCATED

2000' 1000' 0' 2000'
SCALE
DRAWN BY: D.P. 02-21-20

NOTE:
- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearing is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83).

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Ben Metz 3-31-2020
Signature Date

Ben Metz
Printed Name

bmetz@ascentenergy.us
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

February 03, 2020
Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number:

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original to Appropriate District Office

GAS CAPTURE PLAN

Date: 7-23-2020

☒ Original

Operator & OGRID No.: Ascent Energy, LLC (325830)

☐ Amended - Reason for Amendment:

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Pony Express Fed Com 305H	03-025	B-16-20S-33E	355' FNL, 2226' FEL	200	~30 days	Flare until well clean, then connect
Pony Express Fed Com 306H	03-025	B-16-20S-33E	355' FNL, 2151' FEL	200	~30 days	Flare until well clean, then connect
Pony Express Fed Com 403H	03-025	B-16-20S-33E	355' FNL, 2201' FEL	200	~30 days	Flare until well clean, then connect
Pony Express Fed Com 504H	03-025	B-16-20S-33E	155' FNL, 2175' FEL	200	~30 days	Flare until well clean, then connect
Pony Express Fed Com 603H	03-025 **49051**	B-16-20S-33E	155' FNL, 2200' FWL	200	~30 days	Flare until well clean, then connect
Pony Express Fed Com 703H	03-025	B-16-20S-33E	155' FNL, 2150' FEL	200	~30 days	Flare until well clean, then connect
Pony Express Fed Com 707H	03-025	B-16-20S-33E	355' FNL, 2176' FEL	200	~30 days	Flare until well clean, then connect

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from the production facility has not yet been dedicated. One possible outlet is 3 Bear Energy. 3Bear has an existing gas pipeline in NW Section 11, T20S R33E. Ascent Energy, LLC and 3Bear Energy have agreements in place to extend the gas pipeline to the Silver & Pony Express drill pads. Ascent Energy, LLC will provide (periodically) to 3Bear a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Ascent Energy, LLC and 3Bear will have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at 3Bear Processing Plant at a yet to be determined location. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on 3Bear system at that time. Based on current information, it is Ascent Energy, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Ascent Energy, LLC
Well Name: Pony Express Fed Com 603H
SHL 355' FNL, 2226' FEL
NWNE, Section 16, T20S, R33E
Lea County, New Mexico

Onshore Order 1
8 Point Drilling Plan

1. Geologic Formations/Estimated Tops

Formation	Lithology	MD	TVD	Mineral Resources
Upper Permian	Sandstone	0	0	Useable Water
Rustler	Anhydrite	1266	1266	None
Salado	Salt	1606	1606	None
Base Salado Salt	Salt	2836	2826	None
Tansil	Limestone	2902	2891	None
Yates	Carbonates	3071	3056	Natural Gas, Oil, CO2
Capitan Reef	Limestone	3295	3276	Useable Water
Delaware – Mt. Group	Sandstone	5268	5246	Natural Gas, Oil, CO2
Cherry Canyon	Sandstone	6378	5356	Natural Gas, Oil, CO2
Brushy Canyon	Sandstone	6638	6616	Natural Gas, Oil, CO2
Bone Spring	Limestone	8198	8176	Natural Gas, Oil, CO2
Bone Spring - Avalon	Shale	9318	8296	Natural Gas, Oil, CO2
Bone Spring – Leonard B	Limestone, Shale	9733	8711	Natural Gas, Oil, CO2
1st Bone Spring Sandstone	Sandstone	9268	9246	Natural Gas, Oil, CO2
2nd Bone Spring Carbonate	Carbonates	9555	9533	Natural Gas, Oil, CO2
2nd Bone Spring Sandstone	Sandstone	9784	9762	Natural Gas, Oil, CO2
3rd Bone Spring Carbonate	Carbonates	10330	10308	Natural Gas, Oil, CO2
3rd Bone Spring Sandstone	Sandstone	10706	10668	Natural Gas, Oil, CO2
TD	Sandstone	21214	11266	Natural Gas, Oil, CO2

Notable Zones: 3rd Bone Spring Sand is the target formation.
Closest water well (CP 00317) is 8858' NW. Depth to water is 325', total depth is 680'.

2. Blowout Prevention Equipment

a. Pressure Rating: 5,000'
b. Rating Depth: 15,000'
c. Equipment: A 15,000', 5,000 psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A top drive check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.

UINTAH ENGINEERING & LAND SURVEYING

Ascent Energy, LLC
Well Name: Pony Express Fed Com 603H
SHL 355' FNL, 2226' FEL
NWNE, Section 16, T20S, R33E
Lea County, New Mexico

d. Testing Procedures: After surface casing is set and the BOP is nippled up, the BOP pressure tests will be made with a third-party tester to 250 psi low, 5000 psi high, and the annular preventer will be tested to 2,500 psi. The BOP will be tested in this manner after nipple-up if any break of the stack occurs as wells as every 30 days.
e. Requesting Variance:
   i. Variance is requested to use a co-flex line between the BOP and choke manifold instead of using a 4" 0. D. steel line. Choke and kill line data book are attached. If this hose is unavailable, then a hose of equal or higher rating will be used.
   ii. 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.
   iii. Ascent requests a variance to run a multi-bowl speed head for setting the Intermediate 1, Intermediate 2, and Production Strings. Speed head will be installed by the vendor's representative(s). Well head welding will be monitored by the vendor's representative.

3. Casing

Interval	Hole Size	Interval MD		Interval TVD		Csg OD	Weight	Grade	Conn Type	Conn	New/ Used	DF Collapse	DF Burst	DF Tension
Surface	17.5	0'	1,291'	0'	1,291'	13.375	54.5	J-55	STC	API	New	1.75	3.58	3.02
1st Int	12.25	0'	3,004'	0'	2,991'	9.625	40.0	J-55	LTC	API	New	1.65	1.99	2.06
2nd Int	8.75	0'	5,268'	0'	5,246'	7.625	29.7	HCP-110	EZGO FJ3	Non-API	New	3.75	2.45	2.38
Production	6.75	0'	21,214'	0'	11,266'	5.5	20.0	HCP-110	EZGO HT	Non-API	New	2.17	2.16	1.53

*Casing Assumption Worksheet to be attached

Variance:

- A 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.

4. Cement

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Ascent Energy, LLC
Well Name: Pony Express Fed Com 603H
SHL 355' FNL, 2226' FEL
NWNE, Section 16, T20S, R33E
Lea County, New Mexico

Section	Depth	Type	Cmt Top	Excess	Ft^3	Sacks	BBLS	Wt. ppg	Yld Ft^3/sk	Slurry Description
Surface	13.375	Lead	0	100%	1,057	615	188	13.5	1.728	Class C
	1291'	Tail	791'	100%	695	550	124	14.8	1.332	Class C
1st Int	9.625	Lead	0	100%	915	530	163	12.7	1.728	Class C
	3004'	Tail	2004'	100%	626	485	112	14.8	1.332	Class C
2nd Int	7.625	Lead	0	50%	472	235	84	12.7	2.039	Class C
	5268'	Tail	3968'	50%	196	155	35	14.8	1.368	Class C
Production	5.5	Lead	0	25%	562	195	100	11	2.887	TXI Nine Lite Cement
	21,214'	Tail	5,500'	25%	4,962	3375	884	13.2	1.472	35/65 Poz H

5. **Circulating Medium (Mud Program)**
   a. Mud System Type: Closed loop
   b. Air/Gas Drilling: No
   c. 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.
   d. Describe the mud monitoring system: Electronic Pason mud monitor system complying with Onshore Order 1 will be used. All necessary mud products (e. g., barite, cedar bark) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions. A closed loop system will be used.

Interval		Type	Weight	Viscosity	Water Loss
0'	1,291'	Fresh Water	8.4-9.6	34-38	N/C
1,291'	3,004'	Brine Water	10	28-34	N/C
3,004'	5,268'	Fresh Water	8.4-8.6	28-34	N/C
5,268'	21,214'	OBM	9-9.5	40-45	N/C

6. **Test, Logging & Coring**
   a. List of production tests including testing procedures, equipment and safety measures: GR will be collected while drilling through the MWD tools from 9.625" casing shoe to TD. A 2-person mud logging program will be used from 9.625" casing shoe to TD.
   b. Open/cased hole logs run in the well: No open hole logs
   c. Coring operations description for the well: No core, drill stem test, or open hole log is planned.

UINTAH
ENGINEERING & LAND SURVEYING

Ascent Energy, LLC
Well Name: Pony Express Fed Com 603H
SHL 355' FNL, 2226' FEL
NWNE, Section 16, T20S, R33E
Lea County, New Mexico

7. **Anticipated Pressure**
   a. Anticipated bottom hole pressure: Maximum expected bottom hole pressure is 3000 psi.
   b. Anticipated bottom hole temperature: Expected bottom hole temperature is 171° F.
   c. Abnormal pressures, temperatures, or potential geologic hazards: No abnormal pressure or temperature is expected.
   d. Hydrogen sulfide drilling operations plan required: Yes
      i. H_2S monitoring and detection equipment will be used from surface casing point to TD.
      ii. Ascent does not anticipate that there will be enough H2S from the surface to the Bone Spring formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Ascent has an H2S safety package on all wells and an "H2S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be safely flared. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. **Other Information**
   a. Anticipated spud date is upon approval. It is expected it will take 3 months to drill and complete the well.
   b. Ascent requests approval to possibly utilize a spudder rig to drill and set casing for the surface interval on this well. The spudder rig will be possibly utilized in order to reduce cost and save time. The wellhead will be installed and tested as soon as the surface casing is cut off per the existing COAs. A blind flange with the same pressure rating as the wellhead will be installed on the well. Once the spudder rig is removed, Ascent will secure the wellhead area by placing a guard rail around the cellar. Pressure will be monitored and a means for intervention will be maintained while the drilling rig is not over the well. Spudder rig operations are expected to take 2-3 days per well. Three wells on the pad will have surface casing set by the spudder rig as a part of this operation. The BLM will be notified 24 hours prior to commencing spudder rig operations. Within 90 days of the departure of the spudder rig, drilling operations will recommence on these wells. This rig will have a BOP stack equal or greater to the pressure rating required in the COAs. The BLM will be notified 24 hours before the larger rig moves on the pre-set wells. Ascent will have supervision on the spudder rig to ensure compliance with all BLM and NMOCD regulations.
   c. Ascent requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event the wells are batch drilled, after drilling surface, 1st intermediate, and 2nd intermediate hole sections and cementing 2nd intermediate casing, a 10M dry hole cap with bleed off valve will

UINTAH ENGINEERING & LAND SURVEYING

be installed. The rig will then walk to another well on the pad. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

9. Lessee's or Operator's Representative

Permit Matters	**Drilling, Completions, Production & Operational Matters**
UELS, LLC	Ascent Energy, LLC
85 S 200 E	1125 17th St., Suite 410
Vernal, UT 84078	Denver, CO 80202
Amy Doebele- Permit Agent	Gema Volek- Drilling Manager
435-789-1017	785-312-2092
adoebele@uintahgroup.com	gvolek@ascentenergy.us

UINTAH ENGINEERING & LAND SURVEYING

ASCENT ENERGY

Project: LEA COUNTY, NEW MEXICO (NAD 83) (GRID)
Site: SEC. 16 T20S R33E N.M.P.M. (GRID)
Well: PONY EXPRESS FED COM 603H
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 155ft FNL & 2200ft FEL of Sec 16
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	START NUDGE (2°/100ft BUR)
2600.00	12.00	301.01	2595.62	32.25	-53.66	-32.61	62.60	EOB TO 12° INC
3199.31	12.00	301.01	3181.84	96.44	-160.45	-97.53	187.21	END OF TANGENT
3799.31	0.00	0.00	3777.46	128.69	-214.11	-130.14	249.81	EOD TO VERTICAL
10387.20	0.00	0.00	10365.35	128.69	-214.11	-130.14	249.81	KOP (10°/100ft BUR)
10682.06	29.49	172.00	10647.37	55.20	-203.78	-56.59	324.46	FTP: 100ft FNL & 2403.46ft FEL of Sec 16
11268.30	88.11	172.00	10938.00	-419.98	-137.00	419.04	803.87	HZ LP: 575.18ft FNL & 2340ft FEL of Sec 16
11368.30	88.11	172.00	10941.29	-518.95	-123.09	518.10	903.82	END OF TANGENT
11621.83	88.11	179.61	10949.67	-771.47	-104.57	770.74	1157.20	EOT TO 179.61° AZ
21164.19	88.11	179.61	11264.35	-10308.43	-39.63	10307.92	10694.38	LTP: 100ft FSL & 2310ft FEL of Sec 21
21214.22	88.11	179.61	11266.00	-10358.43	-39.29	10357.93	10744.38	BHL: 50ft FSL & 2310ft FEL of Sec 21

PROPOSED LOCAL COORDINATES:

SHL: 155ft FNL & 2200ft FEL Sec 16

FTP: 100ft FNL & 2403.46ft FEL of Sec 16

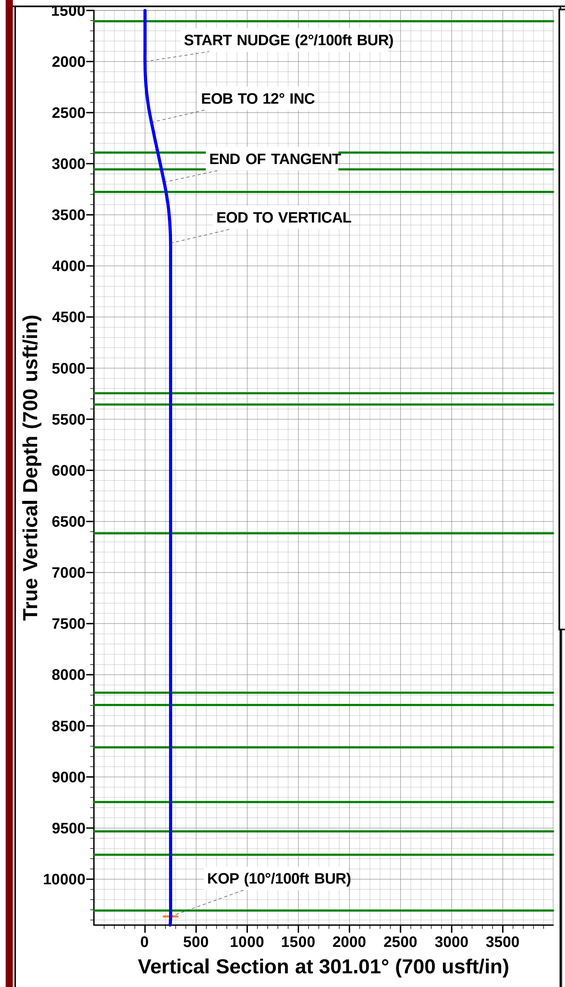
HZ LP: 575.18ft FNL & 2340ft FEL Sec 16

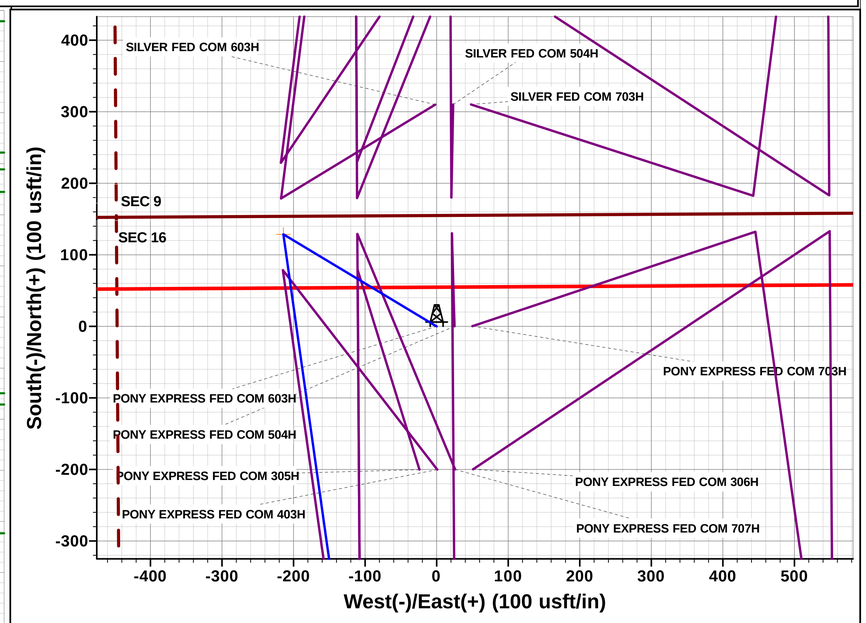
LTP: 100ft FSL & 2310ft FEL of Sec 21

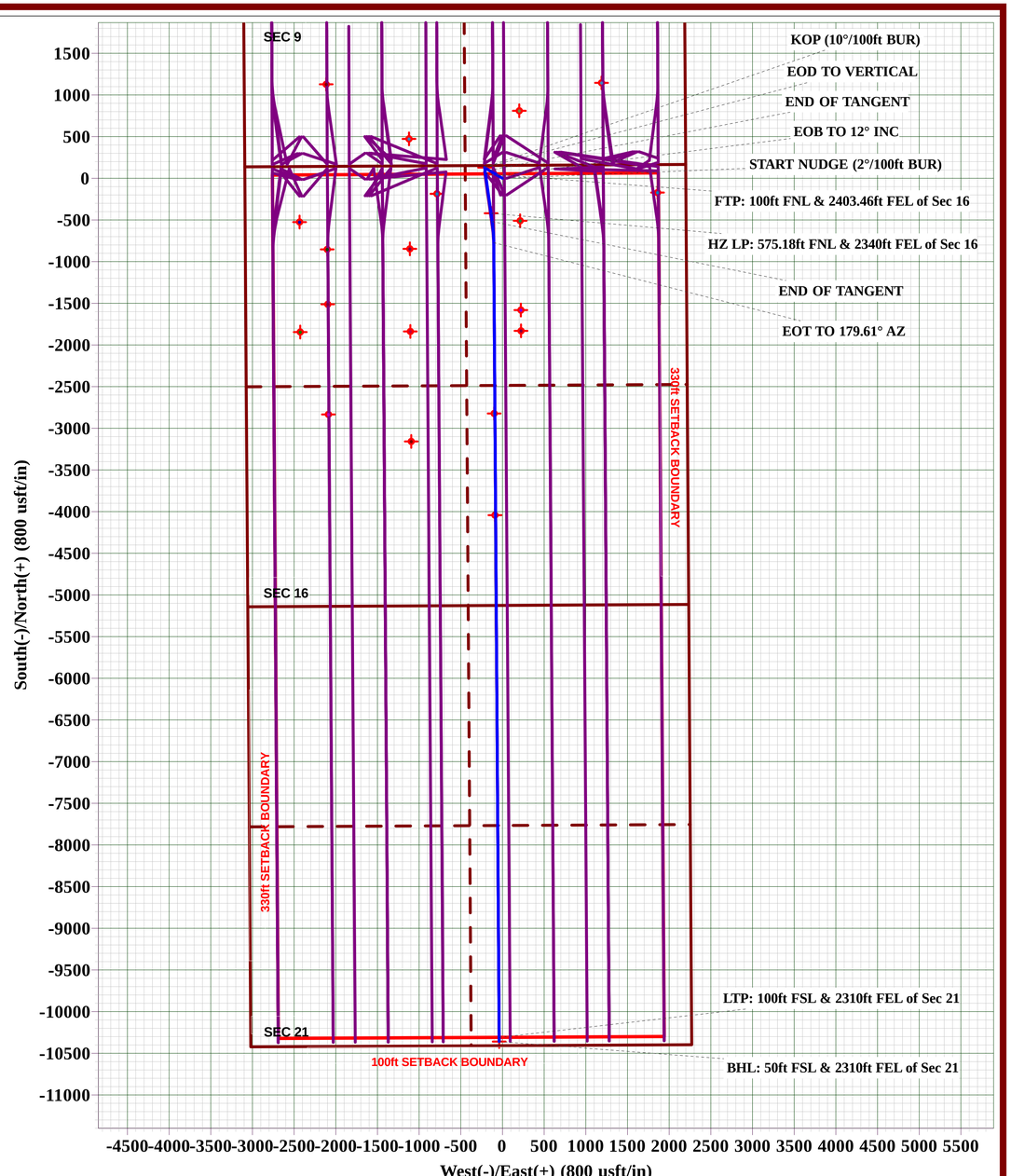
BHL: 50ft FSL & 2310ft FEL of Sec 21

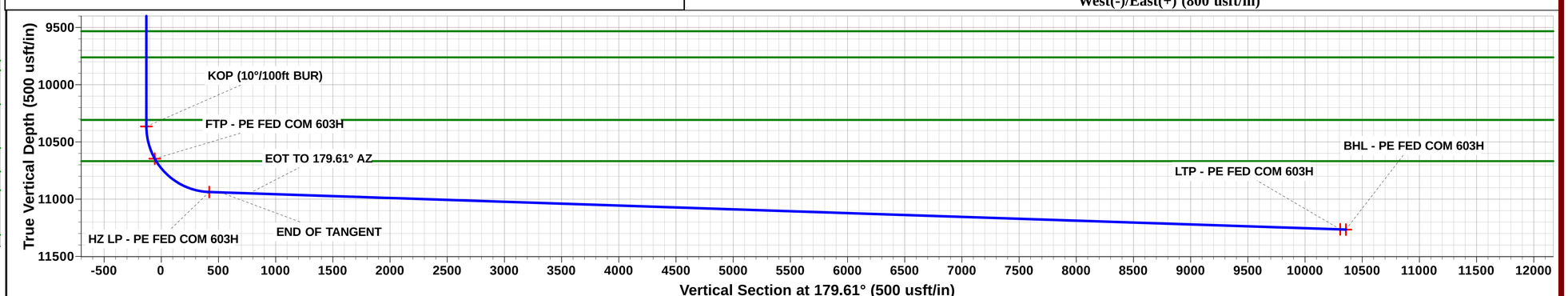
WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - PE FED COM 603H	10365.35	128.69	-214.11	32.580335	-103.667523
FTP - PE FED COM 603H	10647.37	55.20	-203.78	32.580133	-103.667491
HZ LP - PE FED COM 603H	10938.00	-419.98	-137.00	32.578826	-103.667284
LTP - PE FED COM 603H	11264.35	-10308.43	-39.63	32.551646	-103.667169
BHL - PE FED COM 603H	11266.00	-10358.43	-39.29	32.551509	-103.667169









Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well PONY EXPRESS FED COM 603H
Company:	ASCENT ENERGY	**TVD Reference:**	KB 25' @ 3566.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB 25' @ 3566.00usft
Site:	SEC. 16 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	PONY EXPRESS FED COM 603H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

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

Site	SEC. 16 T20S R33E N.M.P.M. (GRID)				
Site Position:		**Northing:**	575,356.07 usft	**Latitude:**	32.579983
From:	Map	**Easting:**	744,175.82 usft	**Longitude:**	-103.674818
Position Uncertainty:	0.00 usft	**Slot Radius:**	1.10 ft	**Grid Convergence:**	0.35 °

Well	PONY EXPRESS FED COM 603H				
Well Position	**+N/-S**	13.63 usft	**Northing:**	575,369.70 usft	**Latitude:** 32.579978
	+E/-W	2,460.40 usft	**Easting:**	746,636.11 usft	**Longitude:** -103.666831
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:** 3,541.00 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2020	2020-03-18	6.76	60.25	47,823.58794104

Design	PROPOSAL #1				
Audit Notes:					
Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.00	0.00	0.00	179.61	

Plan Sections

MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usf	Build Rate (°/100usf	Turn Rate (°/100usf	TFO (°)	Target
0.00	0.00	0.00	0.00	-3,566.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	-1,566.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,600.00	12.00	301.01	2,595.62	-970.38	32.25	-53.66	2.00	2.00	0.00	301.01	
3,199.31	12.00	301.01	3,181.84	-384.16	96.44	-160.45	0.00	0.00	0.00	0.00	
3,799.31	0.00	0.00	3,777.46	211.46	128.69	-214.11	2.00	-2.00	0.00	180.00	
10,387.20	0.00	0.00	10,365.35	6,799.35	128.69	-214.11	0.00	0.00	0.00	0.00	KOP - PE FED COI
11,268.30	88.11	172.00	10,938.00	7,372.00	-419.98	-137.00	10.00	10.00	0.00	172.00	
11,368.30	88.11	172.00	10,941.29	7,375.29	-518.95	-123.09	0.00	0.00	0.00	0.00	
11,621.83	88.11	179.61	10,949.67	7,383.67	-771.47	-104.57	3.00	0.00	3.00	90.12	
21,214.22	88.11	179.61	11,266.00	7,700.00	-10,358.43	-39.29	0.00	0.00	0.00	0.00	BHL - PE FED COI

Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well PONY EXPRESS FED COM 603H
Company:	ASCENT ENERGY	**TVD Reference:**	KB 25' @ 3566.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB 25' @ 3566.00usft
Site:	SEC. 16 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	PONY EXPRESS FED COM 603H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

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: 155ft FNL & 2200ft FEL of Sec 16										
0.00	***0.00***	***0.00***	***0.00***	***3,566.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
100.00	0.00	0.00	100.00	3,466.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	3,366.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	3,266.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	3,166.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	3,066.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	2,966.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	2,866.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	2,766.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	2,666.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	2,566.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	2,466.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	2,366.00	0.00	0.00	0.00	0.00	0.00	0.00
RSTLR										
1,266.00	***0.00***	***0.00***	***1,266.00***	***2,300.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
1,300.00	0.00	0.00	1,300.00	2,266.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	2,166.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	2,066.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	1,966.00	0.00	0.00	0.00	0.00	0.00	0.00
SALDO										
1,606.00	***0.00***	***0.00***	***1,606.00***	***1,960.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
1,700.00	0.00	0.00	1,700.00	1,866.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	1,766.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	1,666.00	0.00	0.00	0.00	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
2,000.00	***0.00***	***0.00***	***2,000.00***	***1,566.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***
2,100.00	2.00	301.01	2,099.98	1,466.02	0.90	-1.50	-0.91	2.00	2.00	0.00
2,200.00	4.00	301.01	2,199.84	1,366.16	3.59	-5.98	-3.64	2.00	2.00	0.00
2,300.00	6.00	301.01	2,299.45	1,266.55	8.08	-13.45	-8.18	2.00	2.00	0.00
2,400.00	8.00	301.01	2,398.70	1,167.30	14.36	-23.90	-14.52	2.00	2.00	0.00
2,500.00	10.00	301.01	2,497.47	1,068.53	22.42	-37.30	-22.67	2.00	2.00	0.00
EOB TO 12° INC										
2,600.00	***12.00***	***301.01***	***2,595.62***	***970.38***	***32.25***	***-53.66***	***-32.61***	***2.00***	***2.00***	***0.00***
2,700.00	12.00	301.01	2,693.44	872.56	42.96	-71.48	-43.45	0.00	0.00	0.00
2,800.00	12.00	301.01	2,791.25	774.75	53.67	-89.30	-54.28	0.00	0.00	0.00
2,900.00	12.00	301.01	2,889.07	676.93	64.38	-107.12	-65.11	0.00	0.00	0.00
TANSIL										
2,901.98	***12.00***	***301.01***	***2,891.00***	***675.00***	***64.59***	***-107.47***	***-65.32***	***0.00***	***0.00***	***0.00***
3,000.00	12.00	301.01	2,986.88	579.12	75.09	-124.94	-75.94	0.00	0.00	0.00
YATES										
3,070.66	***12.00***	***301.01***	***3,056.00***	***510.00***	***82.66***	***-137.53***	***-83.60***	***0.00***	***0.00***	***0.00***
3,100.00	12.00	301.01	3,084.70	481.30	85.80	-142.76	-86.77	0.00	0.00	0.00
END OF TANGENT										
3,199.31	***12.00***	***301.01***	***3,181.84***	***384.16***	***96.44***	***-160.45***	***-97.53***	***0.00***	***0.00***	***0.00***
3,200.00	11.99	301.01	3,182.51	383.49	96.51	-160.58	-97.60	2.00	-2.00	0.00
CAPITAN_REEF_TOP										
3,295.25	***10.08***	***301.01***	***3,276.00***	***290.00***	***105.90***	***-176.20***	***-107.10***	***2.00***	***-2.00***	***0.00***
3,300.00	9.99	301.01	3,280.67	285.33	106.33	-176.91	-107.53	2.00	-2.00	0.00
3,400.00	7.99	301.01	3,379.44	186.56	114.38	-190.30	-115.67	2.00	-2.00	0.00
3,500.00	5.99	301.01	3,478.69	87.31	120.64	-200.72	-122.01	2.00	-2.00	0.00
3,600.00	3.99	301.01	3,578.31	-12.31	125.12	-208.17	-126.53	2.00	-2.00	0.00

Planning Report

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Site:	SEC. 16 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	PONY EXPRESS FED COM 603H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

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)
3,700.00	1.99	301.01	3,678.17	-112.17	127.80	-212.63	-129.25	2.00	-2.00	0.00
EOD TO VERTICAL										
3,799.31	***0.00***	***0.00***	***3,777.46***	***-211.46***	***128.69***	***-214.11***	***-130.14***	***2.00***	***-2.00***	***0.00***
3,800.00	0.00	0.00	3,778.15	-212.15	128.69	-214.11	-130.14	0.00	0.00	0.00
3,900.00	0.00	0.00	3,878.15	-312.15	128.69	-214.11	-130.14	0.00	0.00	0.00
4,000.00	0.00	0.00	3,978.15	-412.15	128.69	-214.11	-130.14	0.00	0.00	0.00
4,100.00	0.00	0.00	4,078.15	-512.15	128.69	-214.11	-130.14	0.00	0.00	0.00
4,200.00	0.00	0.00	4,178.15	-612.15	128.69	-214.11	-130.14	0.00	0.00	0.00
4,300.00	0.00	0.00	4,278.15	-712.15	128.69	-214.11	-130.14	0.00	0.00	0.00
4,400.00	0.00	0.00	4,378.15	-812.15	128.69	-214.11	-130.14	0.00	0.00	0.00
4,500.00	0.00	0.00	4,478.15	-912.15	128.69	-214.11	-130.14	0.00	0.00	0.00
4,600.00	0.00	0.00	4,578.15	-1,012.15	128.69	-214.11	-130.14	0.00	0.00	0.00
4,700.00	0.00	0.00	4,678.15	-1,112.15	128.69	-214.11	-130.14	0.00	0.00	0.00
4,800.00	0.00	0.00	4,778.15	-1,212.15	128.69	-214.11	-130.14	0.00	0.00	0.00
4,900.00	0.00	0.00	4,878.15	-1,312.15	128.69	-214.11	-130.14	0.00	0.00	0.00
5,000.00	0.00	0.00	4,978.15	-1,412.15	128.69	-214.11	-130.14	0.00	0.00	0.00
5,100.00	0.00	0.00	5,078.15	-1,512.15	128.69	-214.11	-130.14	0.00	0.00	0.00
5,200.00	0.00	0.00	5,178.15	-1,612.15	128.69	-214.11	-130.14	0.00	0.00	0.00
TOP_DELAWARE_SAND										
5,267.85	***0.00***	***0.00***	***5,246.00***	***-1,680.00***	***128.69***	***-214.11***	***-130.14***	***0.00***	***0.00***	***0.00***
5,300.00	0.00	0.00	5,278.15	-1,712.15	128.69	-214.11	-130.14	0.00	0.00	0.00
CHERRY_CANYON										
5,377.85	***0.00***	***0.00***	***5,356.00***	***-1,790.00***	***128.69***	***-214.11***	***-130.14***	***0.00***	***0.00***	***0.00***
5,400.00	0.00	0.00	5,378.15	-1,812.15	128.69	-214.11	-130.14	0.00	0.00	0.00
5,500.00	0.00	0.00	5,478.15	-1,912.15	128.69	-214.11	-130.14	0.00	0.00	0.00
5,600.00	0.00	0.00	5,578.15	-2,012.15	128.69	-214.11	-130.14	0.00	0.00	0.00
5,700.00	0.00	0.00	5,678.15	-2,112.15	128.69	-214.11	-130.14	0.00	0.00	0.00
5,800.00	0.00	0.00	5,778.15	-2,212.15	128.69	-214.11	-130.14	0.00	0.00	0.00
5,900.00	0.00	0.00	5,878.15	-2,312.15	128.69	-214.11	-130.14	0.00	0.00	0.00
6,000.00	0.00	0.00	5,978.15	-2,412.15	128.69	-214.11	-130.14	0.00	0.00	0.00
6,100.00	0.00	0.00	6,078.15	-2,512.15	128.69	-214.11	-130.14	0.00	0.00	0.00
6,200.00	0.00	0.00	6,178.15	-2,612.15	128.69	-214.11	-130.14	0.00	0.00	0.00
6,300.00	0.00	0.00	6,278.15	-2,712.15	128.69	-214.11	-130.14	0.00	0.00	0.00
6,400.00	0.00	0.00	6,378.15	-2,812.15	128.69	-214.11	-130.14	0.00	0.00	0.00
6,500.00	0.00	0.00	6,478.15	-2,912.15	128.69	-214.11	-130.14	0.00	0.00	0.00
6,600.00	0.00	0.00	6,578.15	-3,012.15	128.69	-214.11	-130.14	0.00	0.00	0.00
BRUSHY_CANYON										
6,637.85	***0.00***	***0.00***	***6,616.00***	***-3,050.00***	***128.69***	***-214.11***	***-130.14***	***0.00***	***0.00***	***0.00***
6,700.00	0.00	0.00	6,678.15	-3,112.15	128.69	-214.11	-130.14	0.00	0.00	0.00
6,800.00	0.00	0.00	6,778.15	-3,212.15	128.69	-214.11	-130.14	0.00	0.00	0.00
6,900.00	0.00	0.00	6,878.15	-3,312.15	128.69	-214.11	-130.14	0.00	0.00	0.00
7,000.00	0.00	0.00	6,978.15	-3,412.15	128.69	-214.11	-130.14	0.00	0.00	0.00
7,100.00	0.00	0.00	7,078.15	-3,512.15	128.69	-214.11	-130.14	0.00	0.00	0.00
7,200.00	0.00	0.00	7,178.15	-3,612.15	128.69	-214.11	-130.14	0.00	0.00	0.00
7,300.00	0.00	0.00	7,278.15	-3,712.15	128.69	-214.11	-130.14	0.00	0.00	0.00
7,400.00	0.00	0.00	7,378.15	-3,812.15	128.69	-214.11	-130.14	0.00	0.00	0.00
7,500.00	0.00	0.00	7,478.15	-3,912.15	128.69	-214.11	-130.14	0.00	0.00	0.00
7,600.00	0.00	0.00	7,578.15	-4,012.15	128.69	-214.11	-130.14	0.00	0.00	0.00
7,700.00	0.00	0.00	7,678.15	-4,112.15	128.69	-214.11	-130.14	0.00	0.00	0.00
7,800.00	0.00	0.00	7,778.15	-4,212.15	128.69	-214.11	-130.14	0.00	0.00	0.00
7,900.00	0.00	0.00	7,878.15	-4,312.15	128.69	-214.11	-130.14	0.00	0.00	0.00
8,000.00	0.00	0.00	7,978.15	-4,412.15	128.69	-214.11	-130.14	0.00	0.00	0.00

Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well PONY EXPRESS FED COM 603H
Company:	ASCENT ENERGY	**TVD Reference:**	KB 25' @ 3566.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB 25' @ 3566.00usft
Site:	SEC. 16 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	PONY EXPRESS FED COM 603H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

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)
8,100.00	0.00	0.00	8,078.15	-4,512.15	128.69	-214.11	-130.14	0.00	0.00	0.00
BSPG_LIME										
8,197.85	***0.00***	***0.00***	***8,176.00***	***-4,610.00***	***128.69***	***-214.11***	***-130.14***	***0.00***	***0.00***	***0.00***
8,200.00	0.00	0.00	8,178.15	-4,612.15	128.69	-214.11	-130.14	0.00	0.00	0.00
8,300.00	0.00	0.00	8,278.15	-4,712.15	128.69	-214.11	-130.14	0.00	0.00	0.00
AVLN										
8,317.85	***0.00***	***0.00***	***8,296.00***	***-4,730.00***	***128.69***	***-214.11***	***-130.14***	***0.00***	***0.00***	***0.00***
8,400.00	0.00	0.00	8,378.15	-4,812.15	128.69	-214.11	-130.14	0.00	0.00	0.00
8,500.00	0.00	0.00	8,478.15	-4,912.15	128.69	-214.11	-130.14	0.00	0.00	0.00
8,600.00	0.00	0.00	8,578.15	-5,012.15	128.69	-214.11	-130.14	0.00	0.00	0.00
8,700.00	0.00	0.00	8,678.15	-5,112.15	128.69	-214.11	-130.14	0.00	0.00	0.00
LEONARD_B										
8,732.85	***0.00***	***0.00***	***8,711.00***	***-5,145.00***	***128.69***	***-214.11***	***-130.14***	***0.00***	***0.00***	***0.00***
8,800.00	0.00	0.00	8,778.15	-5,212.15	128.69	-214.11	-130.14	0.00	0.00	0.00
8,900.00	0.00	0.00	8,878.15	-5,312.15	128.69	-214.11	-130.14	0.00	0.00	0.00
9,000.00	0.00	0.00	8,978.15	-5,412.15	128.69	-214.11	-130.14	0.00	0.00	0.00
9,100.00	0.00	0.00	9,078.15	-5,512.15	128.69	-214.11	-130.14	0.00	0.00	0.00
9,200.00	0.00	0.00	9,178.15	-5,612.15	128.69	-214.11	-130.14	0.00	0.00	0.00
1ST_BSPG_SND										
9,267.85	***0.00***	***0.00***	***9,246.00***	***-5,680.00***	***128.69***	***-214.11***	***-130.14***	***0.00***	***0.00***	***0.00***
9,300.00	0.00	0.00	9,278.15	-5,712.15	128.69	-214.11	-130.14	0.00	0.00	0.00
9,400.00	0.00	0.00	9,378.15	-5,812.15	128.69	-214.11	-130.14	0.00	0.00	0.00
9,500.00	0.00	0.00	9,478.15	-5,912.15	128.69	-214.11	-130.14	0.00	0.00	0.00
2ND_BSPG										
9,554.85	***0.00***	***0.00***	***9,533.00***	***-5,967.00***	***128.69***	***-214.11***	***-130.14***	***0.00***	***0.00***	***0.00***
9,600.00	0.00	0.00	9,578.15	-6,012.15	128.69	-214.11	-130.14	0.00	0.00	0.00
9,700.00	0.00	0.00	9,678.15	-6,112.15	128.69	-214.11	-130.14	0.00	0.00	0.00
2ND_BSPG_SND										
9,783.85	***0.00***	***0.00***	***9,762.00***	***-6,196.00***	***128.69***	***-214.11***	***-130.14***	***0.00***	***0.00***	***0.00***
9,800.00	0.00	0.00	9,778.15	-6,212.15	128.69	-214.11	-130.14	0.00	0.00	0.00
9,900.00	0.00	0.00	9,878.15	-6,312.15	128.69	-214.11	-130.14	0.00	0.00	0.00
10,000.00	0.00	0.00	9,978.15	-6,412.15	128.69	-214.11	-130.14	0.00	0.00	0.00
10,100.00	0.00	0.00	10,078.15	-6,512.15	128.69	-214.11	-130.14	0.00	0.00	0.00
10,200.00	0.00	0.00	10,178.15	-6,612.15	128.69	-214.11	-130.14	0.00	0.00	0.00
10,300.00	0.00	0.00	10,278.15	-6,712.15	128.69	-214.11	-130.14	0.00	0.00	0.00
3RD_BSPG_C										
10,329.85	***0.00***	***0.00***	***10,308.00***	***-6,742.00***	***128.69***	***-214.11***	***-130.14***	***0.00***	***0.00***	***0.00***
KOP (10°/100ft BUR)										
10,387.20	***0.00***	***0.00***	***10,365.35***	***-6,799.35***	***128.69***	***-214.11***	***-130.14***	***0.00***	***0.00***	***0.00***
10,400.00	1.28	172.00	10,378.15	-6,812.15	128.55	-214.09	-130.00	10.00	10.00	0.00
10,500.00	11.28	172.00	10,477.42	-6,911.42	117.73	-212.57	-119.17	10.00	10.00	0.00
10,600.00	21.28	172.00	10,573.29	-7,007.29	90.00	-208.67	-91.42	10.00	10.00	0.00
FTP: 100ft FNL & 2403.46ft FEL of Sec 16										
10,682.06	***29.49***	***172.00***	***10,647.37***	***-7,081.37***	***55.20***	***-203.78***	***-56.59***	***10.00***	***10.00***	***0.00***
10,700.00	31.28	172.00	10,662.84	-7,096.84	46.22	-202.52	-47.59	10.00	10.00	0.00
3RD_BSPG_S										
10,706.06	***31.89***	***172.00***	***10,668.00***	***-7,102.00***	***43.07***	***-202.08***	***-44.45***	***10.00***	***10.00***	***0.00***
10,800.00	41.28	172.00	10,743.35	-7,177.35	-12.31	-194.29	10.98	10.00	10.00	0.00
10,900.00	51.28	172.00	10,812.38	-7,246.38	-83.79	-184.25	82.53	10.00	10.00	0.00
11,000.00	61.28	172.00	10,867.82	-7,301.82	-166.05	-172.69	164.87	10.00	10.00	0.00
11,100.00	71.28	172.00	10,908.00	-7,342.00	-256.59	-159.96	255.50	10.00	10.00	0.00
11,200.00	81.28	172.00	10,931.68	-7,365.68	-352.67	-146.46	351.67	10.00	10.00	0.00

Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well PONY EXPRESS FED COM 603H
Company:	ASCENT ENERGY	**TVD Reference:**	KB 25' @ 3566.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB 25' @ 3566.00usft
Site:	SEC. 16 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	PONY EXPRESS FED COM 603H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

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)
HZ LP: 575.18ft FNL & 2340ft FEL of Sec 16										
11,268.30	***88.11***	***172.00***	***10,938.00***	***-7,372.00***	***-419.98***	***-137.00***	***419.04***	***10.00***	***10.00***	***0.00***
11,300.00	88.11	172.00	10,939.04	-7,373.04	-451.35	-132.59	450.44	0.00	0.00	0.00
END OF TANGENT										
11,368.30	***88.11***	***172.00***	***10,941.29***	***-7,375.29***	***-518.95***	***-123.09***	***518.10***	***0.00***	***0.00***	***0.00***
11,400.00	88.11	172.95	10,942.34	-7,376.34	-550.36	-118.94	549.54	3.00	-0.01	3.00
11,500.00	88.11	175.95	10,945.64	-7,379.64	-649.83	-109.28	649.07	3.00	0.00	3.00
11,600.00	88.11	178.95	10,948.95	-7,382.95	-749.66	-104.84	748.93	3.00	0.00	3.00
EOT TO 179.61° AZ										
11,621.83	***88.11***	***179.61***	***10,949.67***	***-7,383.67***	***-771.47***	***-104.57***	***770.74***	***3.00***	***0.01***	***3.00***
11,700.00	88.11	179.61	10,952.25	-7,386.25	-849.60	-104.04	848.88	0.00	0.00	0.00
11,800.00	88.11	179.61	10,955.54	-7,389.54	-949.55	-103.36	948.82	0.00	0.00	0.00
11,900.00	88.11	179.61	10,958.84	-7,392.84	-1,049.49	-102.67	1,048.77	0.00	0.00	0.00
12,000.00	88.11	179.61	10,962.14	-7,396.14	-1,149.43	-101.99	1,148.71	0.00	0.00	0.00
12,100.00	88.11	179.61	10,965.44	-7,399.44	-1,249.38	-101.31	1,248.66	0.00	0.00	0.00
12,200.00	88.11	179.61	10,968.73	-7,402.73	-1,349.32	-100.63	1,348.60	0.00	0.00	0.00
12,300.00	88.11	179.61	10,972.03	-7,406.03	-1,449.26	-99.95	1,448.55	0.00	0.00	0.00
12,400.00	88.11	179.61	10,975.33	-7,409.33	-1,549.21	-99.27	1,548.50	0.00	0.00	0.00
12,500.00	88.11	179.61	10,978.63	-7,412.63	-1,649.15	-98.59	1,648.44	0.00	0.00	0.00
12,600.00	88.11	179.61	10,981.93	-7,415.93	-1,749.09	-97.91	1,748.39	0.00	0.00	0.00
12,700.00	88.11	179.61	10,985.22	-7,419.22	-1,849.04	-97.23	1,848.33	0.00	0.00	0.00
12,800.00	88.11	179.61	10,988.52	-7,422.52	-1,948.98	-96.55	1,948.28	0.00	0.00	0.00
12,900.00	88.11	179.61	10,991.82	-7,425.82	-2,048.92	-95.87	2,048.22	0.00	0.00	0.00
13,000.00	88.11	179.61	10,995.12	-7,429.12	-2,148.87	-95.19	2,148.17	0.00	0.00	0.00
13,100.00	88.11	179.61	10,998.41	-7,432.41	-2,248.81	-94.51	2,248.12	0.00	0.00	0.00
13,200.00	88.11	179.61	11,001.71	-7,435.71	-2,348.75	-93.83	2,348.06	0.00	0.00	0.00
13,300.00	88.11	179.61	11,005.01	-7,439.01	-2,448.70	-93.15	2,448.01	0.00	0.00	0.00
13,400.00	88.11	179.61	11,008.31	-7,442.31	-2,548.64	-92.47	2,547.95	0.00	0.00	0.00
13,500.00	88.11	179.61	11,011.60	-7,445.60	-2,648.58	-91.79	2,647.90	0.00	0.00	0.00
13,600.00	88.11	179.61	11,014.90	-7,448.90	-2,748.53	-91.11	2,747.84	0.00	0.00	0.00
13,700.00	88.11	179.61	11,018.20	-7,452.20	-2,848.47	-90.43	2,847.79	0.00	0.00	0.00
13,800.00	88.11	179.61	11,021.50	-7,455.50	-2,948.41	-89.75	2,947.73	0.00	0.00	0.00
13,900.00	88.11	179.61	11,024.80	-7,458.80	-3,048.36	-89.07	3,047.68	0.00	0.00	0.00
14,000.00	88.11	179.61	11,028.09	-7,462.09	-3,148.30	-88.38	3,147.63	0.00	0.00	0.00
14,100.00	88.11	179.61	11,031.39	-7,465.39	-3,248.24	-87.70	3,247.57	0.00	0.00	0.00
14,200.00	88.11	179.61	11,034.69	-7,468.69	-3,348.19	-87.02	3,347.52	0.00	0.00	0.00
14,300.00	88.11	179.61	11,037.99	-7,471.99	-3,448.13	-86.34	3,447.46	0.00	0.00	0.00
14,400.00	88.11	179.61	11,041.28	-7,475.28	-3,548.07	-85.66	3,547.41	0.00	0.00	0.00
14,500.00	88.11	179.61	11,044.58	-7,478.58	-3,648.02	-84.98	3,647.35	0.00	0.00	0.00
14,600.00	88.11	179.61	11,047.88	-7,481.88	-3,747.96	-84.30	3,747.30	0.00	0.00	0.00
14,700.00	88.11	179.61	11,051.18	-7,485.18	-3,847.90	-83.62	3,847.25	0.00	0.00	0.00
14,800.00	88.11	179.61	11,054.48	-7,488.48	-3,947.85	-82.94	3,947.19	0.00	0.00	0.00
14,900.00	88.11	179.61	11,057.77	-7,491.77	-4,047.79	-82.26	4,047.14	0.00	0.00	0.00
15,000.00	88.11	179.61	11,061.07	-7,495.07	-4,147.73	-81.58	4,147.08	0.00	0.00	0.00
15,100.00	88.11	179.61	11,064.37	-7,498.37	-4,247.68	-80.90	4,247.03	0.00	0.00	0.00
15,200.00	88.11	179.61	11,067.67	-7,501.67	-4,347.62	-80.22	4,346.97	0.00	0.00	0.00
15,300.00	88.11	179.61	11,070.96	-7,504.96	-4,447.56	-79.54	4,446.92	0.00	0.00	0.00
15,400.00	88.11	179.61	11,074.26	-7,508.26	-4,547.51	-78.86	4,546.86	0.00	0.00	0.00
15,500.00	88.11	179.61	11,077.56	-7,511.56	-4,647.45	-78.18	4,646.81	0.00	0.00	0.00
15,600.00	88.11	179.61	11,080.86	-7,514.86	-4,747.39	-77.50	4,746.76	0.00	0.00	0.00
15,700.00	88.11	179.61	11,084.16	-7,518.16	-4,847.34	-76.82	4,846.70	0.00	0.00	0.00
15,800.00	88.11	179.61	11,087.45	-7,521.45	-4,947.28	-76.14	4,946.65	0.00	0.00	0.00
15,900.00	88.11	179.61	11,090.75	-7,524.75	-5,047.22	-75.46	5,046.59	0.00	0.00	0.00

Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well PONY EXPRESS FED COM 603H
Company:	ASCENT ENERGY	**TVD Reference:**	KB 25' @ 3566.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB 25' @ 3566.00usft
Site:	SEC. 16 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	PONY EXPRESS FED COM 603H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

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)
16,000.00	88.11	179.61	11,094.05	-7,528.05	-5,147.17	-74.78	5,146.54	0.00	0.00	0.00
16,100.00	88.11	179.61	11,097.35	-7,531.35	-5,247.11	-74.09	5,246.48	0.00	0.00	0.00
16,200.00	88.11	179.61	11,100.64	-7,534.64	-5,347.05	-73.41	5,346.43	0.00	0.00	0.00
16,300.00	88.11	179.61	11,103.94	-7,537.94	-5,447.00	-72.73	5,446.37	0.00	0.00	0.00
16,400.00	88.11	179.61	11,107.24	-7,541.24	-5,546.94	-72.05	5,546.32	0.00	0.00	0.00
16,500.00	88.11	179.61	11,110.54	-7,544.54	-5,646.88	-71.37	5,646.27	0.00	0.00	0.00
16,600.00	88.11	179.61	11,113.83	-7,547.83	-5,746.83	-70.69	5,746.21	0.00	0.00	0.00
16,700.00	88.11	179.61	11,117.13	-7,551.13	-5,846.77	-70.01	5,846.16	0.00	0.00	0.00
16,800.00	88.11	179.61	11,120.43	-7,554.43	-5,946.71	-69.33	5,946.10	0.00	0.00	0.00
16,900.00	88.11	179.61	11,123.73	-7,557.73	-6,046.66	-68.65	6,046.05	0.00	0.00	0.00
17,000.00	88.11	179.61	11,127.03	-7,561.03	-6,146.60	-67.97	6,145.99	0.00	0.00	0.00
17,100.00	88.11	179.61	11,130.32	-7,564.32	-6,246.54	-67.29	6,245.94	0.00	0.00	0.00
17,200.00	88.11	179.61	11,133.62	-7,567.62	-6,346.49	-66.61	6,345.89	0.00	0.00	0.00
17,300.00	88.11	179.61	11,136.92	-7,570.92	-6,446.43	-65.93	6,445.83	0.00	0.00	0.00
17,400.00	88.11	179.61	11,140.22	-7,574.22	-6,546.37	-65.25	6,545.78	0.00	0.00	0.00
17,500.00	88.11	179.61	11,143.51	-7,577.51	-6,646.32	-64.57	6,645.72	0.00	0.00	0.00
17,600.00	88.11	179.61	11,146.81	-7,580.81	-6,746.26	-63.89	6,745.67	0.00	0.00	0.00
17,700.00	88.11	179.61	11,150.11	-7,584.11	-6,846.20	-63.21	6,845.61	0.00	0.00	0.00
17,800.00	88.11	179.61	11,153.41	-7,587.41	-6,946.15	-62.53	6,945.56	0.00	0.00	0.00
17,900.00	88.11	179.61	11,156.71	-7,590.71	-7,046.09	-61.85	7,045.50	0.00	0.00	0.00
18,000.00	88.11	179.61	11,160.00	-7,594.00	-7,146.03	-61.17	7,145.45	0.00	0.00	0.00
18,100.00	88.11	179.61	11,163.30	-7,597.30	-7,245.98	-60.49	7,245.40	0.00	0.00	0.00
18,200.00	88.11	179.61	11,166.60	-7,600.60	-7,345.92	-59.80	7,345.34	0.00	0.00	0.00
18,300.00	88.11	179.61	11,169.90	-7,603.90	-7,445.86	-59.12	7,445.29	0.00	0.00	0.00
18,400.00	88.11	179.61	11,173.19	-7,607.19	-7,545.81	-58.44	7,545.23	0.00	0.00	0.00
18,500.00	88.11	179.61	11,176.49	-7,610.49	-7,645.75	-57.76	7,645.18	0.00	0.00	0.00
18,600.00	88.11	179.61	11,179.79	-7,613.79	-7,745.69	-57.08	7,745.12	0.00	0.00	0.00
18,700.00	88.11	179.61	11,183.09	-7,617.09	-7,845.64	-56.40	7,845.07	0.00	0.00	0.00
18,800.00	88.11	179.61	11,186.39	-7,620.39	-7,945.58	-55.72	7,945.02	0.00	0.00	0.00
18,900.00	88.11	179.61	11,189.68	-7,623.68	-8,045.52	-55.04	8,044.96	0.00	0.00	0.00
19,000.00	88.11	179.61	11,192.98	-7,626.98	-8,145.47	-54.36	8,144.91	0.00	0.00	0.00
19,100.00	88.11	179.61	11,196.28	-7,630.28	-8,245.41	-53.68	8,244.85	0.00	0.00	0.00
19,200.00	88.11	179.61	11,199.58	-7,633.58	-8,345.35	-53.00	8,344.80	0.00	0.00	0.00
19,300.00	88.11	179.61	11,202.87	-7,636.87	-8,445.30	-52.32	8,444.74	0.00	0.00	0.00
19,400.00	88.11	179.61	11,206.17	-7,640.17	-8,545.24	-51.64	8,544.69	0.00	0.00	0.00
19,500.00	88.11	179.61	11,209.47	-7,643.47	-8,645.18	-50.96	8,644.63	0.00	0.00	0.00
19,600.00	88.11	179.61	11,212.77	-7,646.77	-8,745.12	-50.28	8,744.58	0.00	0.00	0.00
19,700.00	88.11	179.61	11,216.06	-7,650.06	-8,845.07	-49.60	8,844.53	0.00	0.00	0.00
19,800.00	88.11	179.61	11,219.36	-7,653.36	-8,945.01	-48.92	8,944.47	0.00	0.00	0.00
19,900.00	88.11	179.61	11,222.66	-7,656.66	-9,044.95	-48.24	9,044.42	0.00	0.00	0.00
20,000.00	88.11	179.61	11,225.96	-7,659.96	-9,144.90	-47.56	9,144.36	0.00	0.00	0.00
20,100.00	88.11	179.61	11,229.26	-7,663.26	-9,244.84	-46.88	9,244.31	0.00	0.00	0.00
20,200.00	88.11	179.61	11,232.55	-7,666.55	-9,344.78	-46.20	9,344.25	0.00	0.00	0.00
20,300.00	88.11	179.61	11,235.85	-7,669.85	-9,444.73	-45.51	9,444.20	0.00	0.00	0.00
20,400.00	88.11	179.61	11,239.15	-7,673.15	-9,544.67	-44.83	9,544.14	0.00	0.00	0.00
20,500.00	88.11	179.61	11,242.45	-7,676.45	-9,644.61	-44.15	9,644.09	0.00	0.00	0.00
20,600.00	88.11	179.61	11,245.74	-7,679.74	-9,744.56	-43.47	9,744.04	0.00	0.00	0.00
20,700.00	88.11	179.61	11,249.04	-7,683.04	-9,844.50	-42.79	9,843.98	0.00	0.00	0.00
20,800.00	88.11	179.61	11,252.34	-7,686.34	-9,944.44	-42.11	9,943.93	0.00	0.00	0.00
20,900.00	88.11	179.61	11,255.64	-7,689.64	-10,044.39	-41.43	10,043.87	0.00	0.00	0.00
21,000.00	88.11	179.61	11,258.94	-7,692.94	-10,144.33	-40.75	10,143.82	0.00	0.00	0.00
21,100.00	88.11	179.61	11,262.23	-7,696.23	-10,244.27	-40.07	10,243.76	0.00	0.00	0.00

Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well PONY EXPRESS FED COM 603H
Company:	ASCENT ENERGY	**TVD Reference:**	KB 25' @ 3566.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB 25' @ 3566.00usft
Site:	SEC. 16 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	PONY EXPRESS FED COM 603H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

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)
LTP: 100ft FSL & 2310ft FEL of Sec 21										
21,164.19	***88.11***	***179.61***	***11,264.35***	***-7,698.35***	***-10,308.43***	***-39.63***	***10,307.92***	***0.00***	***0.00***	***0.00***
21,200.00	88.11	179.61	11,265.53	-7,699.53	-10,344.22	-39.39	10,343.71	0.00	0.00	0.00
BHL: 50ft FSL & 2310ft FEL of Sec 21										
21,214.22	***88.11***	***179.61***	***11,266.00***	***-7,700.00***	***-10,358.43***	***-39.29***	***10,357.93***	***0.00***	***0.00***	***0.00***

Formations

MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,266.00	1,266.00	RSTLR		0.00	
1,606.00	1,606.00	SALDO		0.00	
2,901.98	2,891.00	TANSIL		0.00	
3,070.66	3,056.00	YATES		0.00	
3,295.25	3,276.00	CAPITAN_REEF_TOP		0.00	
5,267.85	5,246.00	TOP_DELAWARE_SAND		0.00	
5,377.85	5,356.00	CHERRY_CANYON		0.00	
6,637.85	6,616.00	BRUSHY_CANYON		0.00	
8,197.85	8,176.00	BSPG_LIME		0.00	
8,317.85	8,296.00	AVLN		0.00	
8,732.85	8,711.00	LEONARD_B		0.00	
9,267.85	9,246.00	1ST_BSPG_SND		0.00	
9,554.85	9,533.00	2ND_BSPG		0.00	
9,783.85	9,762.00	2ND_BSPG_SND		0.00	
10,329.85	10,308.00	3RD_BSPG_C		0.00	
10,706.06	10,668.00	3RD_BSPG_S		0.00	

Plan Annotations

		Local Coordinates		
MD (usft)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Comment
0.00	0.00	0.00	0.00	SHL: 155ft FNL & 2200ft FEL of Sec 16
2,000.00	2,000.00	0.00	0.00	START NUDGE (2°/100ft BUR)
2,600.00	2,595.62	32.25	-53.66	EOB TO 12° INC
3,199.31	3,181.84	96.44	-160.45	END OF TANGENT
3,799.31	3,777.46	128.69	-214.11	EOD TO VERTICAL
10,387.20	10,365.35	128.69	-214.11	KOP (10°/100ft BUR)
10,682.06	10,647.37	55.20	-203.78	FTP: 100ft FNL & 2403.46ft FEL of Sec 16
11,268.30	10,938.00	-419.98	-137.00	HZ LP: 575.18ft FNL & 2340ft FEL of Sec 16
11,368.30	10,941.29	-518.95	-123.09	END OF TANGENT
11,621.83	10,949.67	-771.47	-104.57	EOT TO 179.61° AZ
21,164.19	11,264.35	-10,308.43	-39.63	LTP: 100ft FSL & 2310ft FEL of Sec 21
21,214.22	11,266.00	-10,358.43	-39.29	BHL: 50ft FSL & 2310ft FEL of Sec 21

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Ascent Energy**
LEASE NO.:	**NMNM013280**
LOCATION:	Section 16, T.20 S., R.33 E., NMPM
COUNTY:	Lea County, New Mexico

WELL NAME & NO.:	Pony Express Fed Com 603H
SURFACE HOLE FOOTAGE:	155'/N & 2200'/E
BOTTOM HOLE FOOTAGE	50'/S & 2310'/E

COA

H2S	(•) Yes	( ) No	
Potash	( ) None	( ) Secretary	(•) R-111-P
Cave/Karst Potential	(•) Low	( ) Medium	( ) High
Cave/Karst Potential	( ) Critical		
Variance	( ) None	(•) Flex Hose	( ) Other
Wellhead	( ) Conventional	(•) Multibowl	( ) Both
Other	[x] 4 String Area	[x] Capitan Reef	[ ] WIPP
Other	[ ] Fluid Filled	[ ] Cement Squeeze	[ ] Pilot Hole
Special Requirements	[ ] Water Disposal	[x] COM	[ ] Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Morrow** 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

1. The **13-3/8** inch surface casing shall be set at approximately _1302_ 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

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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 minimum required fill of cement behind the **9-5/8** inch 1st Intermediate casing is:
   - 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.

- In R111 Potash Areas if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing string must come to surface.
- 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:
  (Use this for 3 string wells in the Capitan Reef, if 4 string well ensure FW based mud used across the capitan interval)

  - 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 2nd Intermediate casing is:
   - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Excess calculates to 24%. Additional cement maybe required.**

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

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4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
   - Cement should tie-back at least **50 feet(3255 ft)** 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, potash or capitan reef.

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 **5000 (5M)** psi.
   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. 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 Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, 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

☒ 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. Operator is approve 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. Operator is approve 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.

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.

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.

ZS 012821

Approval Date: 04/28/2021

Ascent Energy, LLC
PONY EXPRESS PAD 3
NWNE, SEC 16, T20S, R33E, N.M.P.M.
Lea County, New Mexico

H_2S Drilling Operations Plan

1. All personnel will be trained in H_2S working conditions as required by Onshore Order 6 before drilling out of the surface casing.

2. Two briefing areas will be established. Each briefing area will be ≥150' from the wellhead, perpendicular from one another, and easily entered and exited. See H_2S page 4 for more details.

3. H_2S Safety Equipment/Systems:
   a. Well Control Equipment
      i. Flare line will be ≥150' from the wellhead and ignited by a flare gun
      ii. Beware of SO_2 created by flaring
      iii. Choke manifold will have a remotely operated choke
      iv. Mud gas separator

   b. Protective Equipment for Personnel
      i. Every person on site will wear a personal H_2S and SO_2 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.
      ii. 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.
      iii. Four work/escape packs will be on the rig floor. Each pack will have a sufficiently long hose to allow unimpaired work activity.
      iv. Four emergency escape packs will be in the doghouse for emergency evacuation.
      v. Hand signals will be used when wearing protective breathing apparatus.
      vi. Stokes litter or stretcher
      vii. Two full OSHA compliant body harnesses
      viii. A 100' long x 5/8" OSHA compliant rope
      ix. One 20-pound ABC fire extinguisher

   c. H2S Detection & Monitoring Equipment
      i. Every person on site will wear a personal H_2S and SO_2 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.
      ii. A stationary detector with three sensors will be in the doghouse
      iii. Sensors will be installed on the rig floor, bell nipple, and at the end of the flow line or where drilling fluids are discharged.
      iv. Visual alarm will be triggered at 10 ppm.
      v. Audible alarm will be triggered at 10 ppm.
      vi. Calibration will occur at least every 30 days. Gas sample tubes will be kept in the safety trailer.

d. Visual Warning System
   i. A color-coded H_2S condition sign will be set at each pad entrance.
   ii. Color-coded condition flag will be installed to indicate current H_2S conditions.
   iii. Two wind socks will be installed that will be visible from all sides.

e. Mud Program
   i. A water based mud with a pH of > 10 will be maintained to control corrosion, H_2S gas returns to the surface, and minimize sulfide stress cracking and embrittlement.
   ii. Drilling mud containing H_2S gas will be degassed at an optimum location for the rig configuration.
   iii. This gas will be piped into the flare system.
   iv. Enough mud additives will be on location to scavenge and/or neutralize H_2S where formation pressures are unknown.

f. Metallurgy
   i. All equipment that has the potential to be exposed to H_2S will be suitable for H_2S service.
   ii. 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) .

g. Communication from well site

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

4. A remote-controlled choke, mud-gas separator, and a rotating head will be installed before drilling or testing any formation expected to contain H_2S.

Ascent Energy, LLC
PONY EXPRESS PAD 3
NWNE, SEC 16, T20S, R33E, N.M.P.M.
Lea County, New Mexico

Ascent Emergency Contact Numbers

Company Personnel to be Notified

Ascent Emergency Contact	(303) 281-9951
Gema Volek (Vice President of Drilling)	Cell: (785) 312-2092
Matt Ward (Chief Operations Officer)	Cell: (303) 506-6647
Dean Gimbel (Vice President Completions)	Cell: (303) 945-1323

Local and 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

Ascent Energy, LLC
PONY EXPRESS PAD 3
NWNE, SEC 16, T20S, R33E, N.M.P.M.
Lea County, New Mexico

State Agencies

NM State Police (Hobbs)	(575) 392-5 5 8 8
NM Oil Conservation (Hobbs)	(575) 370-3186
NM oil Conservation (Santa Fe)	(505) 476-3440
NM Department of Transportation (Roswell)	(575) 637-7201

Federal Agencies

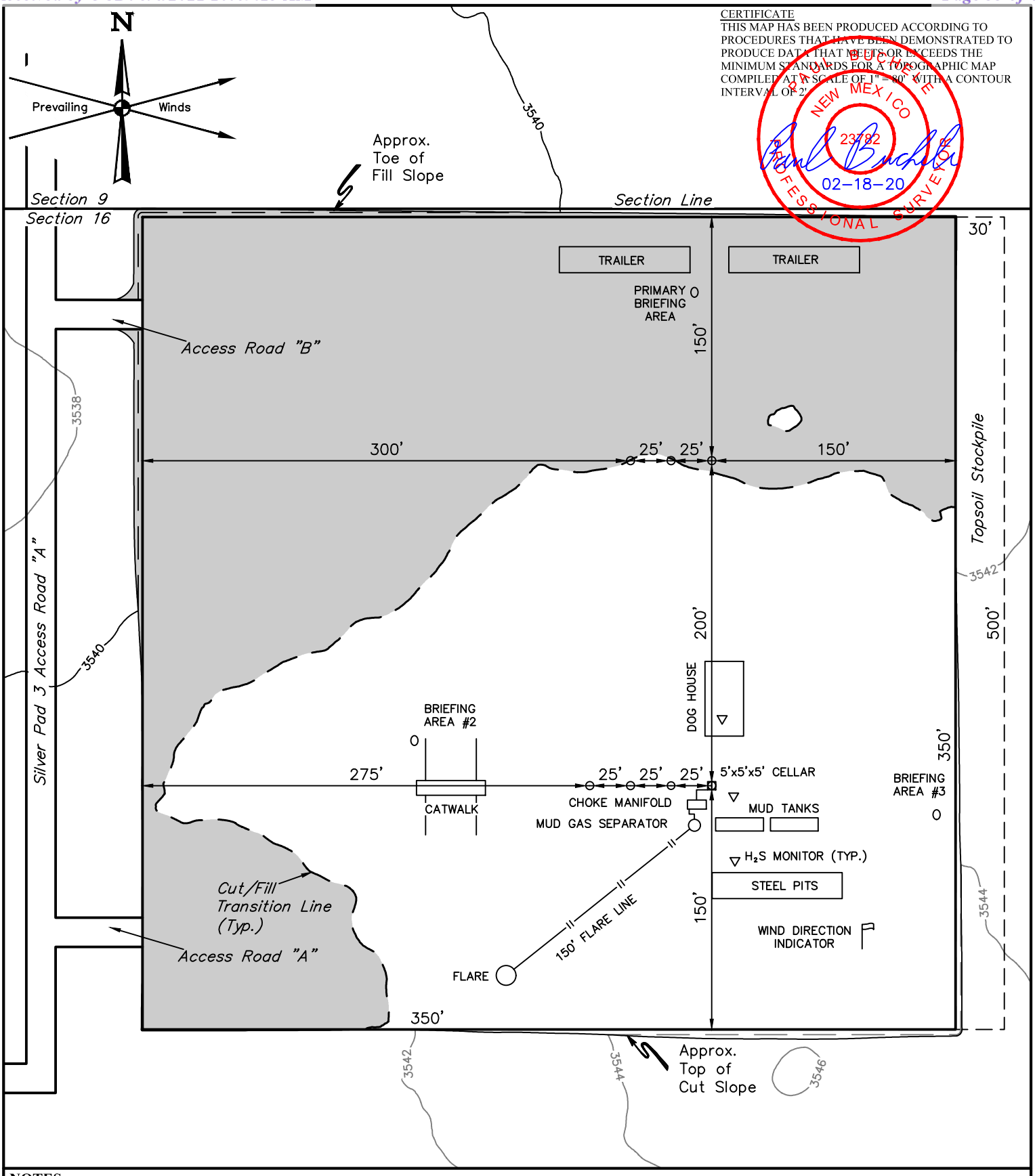
BLM Carlsbad Field Office	(575) 234-5972
BLM Hobbs Field Station	(575) 393-3612
National Response Center	(800) 424-8802
United States Environmental Protection Agency (USEPA Region 6 Dallas)	(800) 887-6063 (214) 665-6444

Air Evacuation

Med Flight Air Ambulance (Albuquerque)	(800) 842-4431
Lifeguard (Albuquerque)	(888) 866-7256

Veterinarians

Dal Paso Animal Hospital (Hobbs)	(575) 397-2286
Hobbs Animal Clinic And Pet Care (Hobbs)	(575) 392-5563
Great Plains Veterinary Clinic and Hospital (Hobbs)	(505) 392-5513



NOTES:

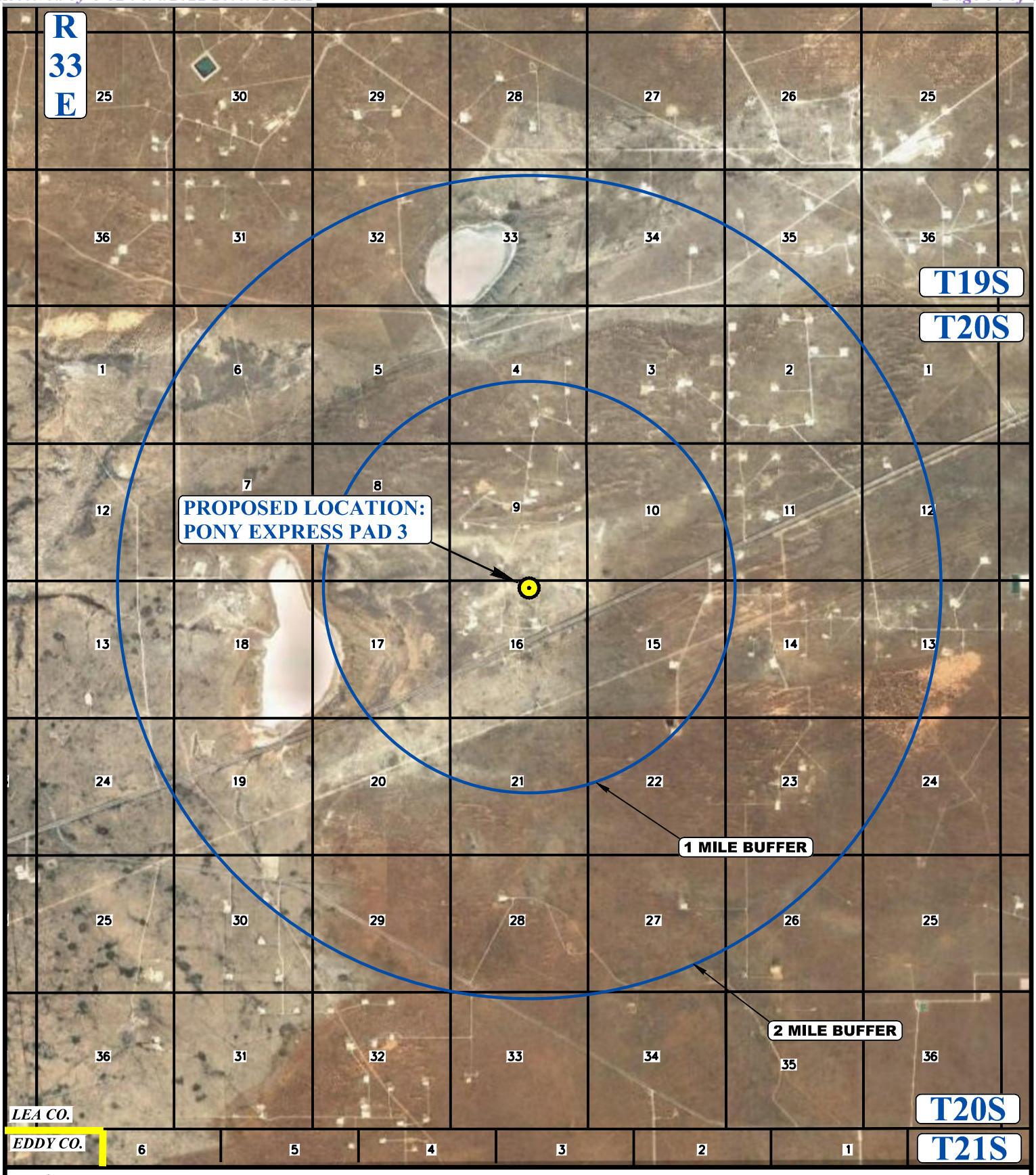
- Contours shown at 2' intervals.
- May have different number of Pump Houses and Combination Buildings.

ASCENT ENERGY

PONY EXPRESS PAD 3
NW 1/4 NE 1/4, SECTION 16, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	M.D., S.L.	02-03-20	SCALE
DRAWN BY	S.T.O.	02-18-20	1" = 80'
TYPICAL RIG LAYOUT			FIGURE #3

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



LEGEND:

PROPOSED LOCATION

N

ASCENT ENERGY

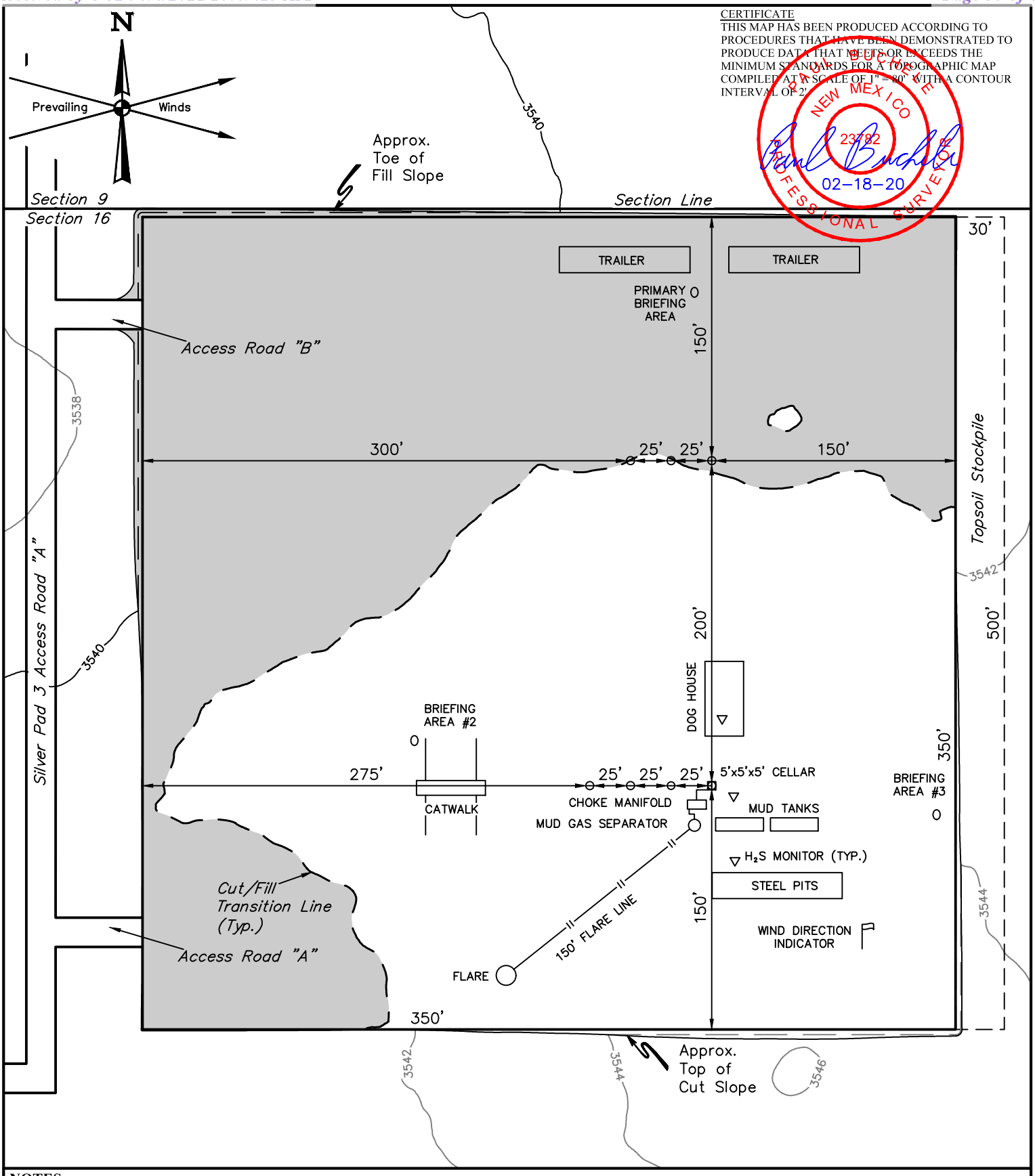
PONY EXPRESS PAD 3
NW 1/4 NE 1/4, SECTION 16, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	R.C., M.D.	01-31-20	SCALE
DRAWN BY	V.L.D.	03-17-20	1 : 60,000

2 MILE RADIUS MAP

UINTAH ENGINEERING & LAND SURVEYING

UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017



NOTES:

- Contours shown at 2' intervals.
- May have different number of Pump Houses and Combination Buildings.

ASCENT ENERGY

PONY EXPRESS PAD 3
NW 1/4 NE 1/4, SECTION 16, T20S, R33E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SURVEYED BY	M.D., S.L.	02-03-20	SCALE
DRAWN BY	S.T.O.	02-18-20	1" = 80'
TYPICAL RIG LAYOUT			FIGURE #3

UINTAH ENGINEERING & LAND SURVEYING
UELS, LLC
Corporate Office * 85 South 200 East
Vernal, UT 84078 * (435) 789-1017

Ascent Energy, LLC
Pony Express Pad 3
NWNE, SEC 16, T20S, R33E, N.M.P.M.
Lea County, New Mexico

Onshore Order No.1
Surface Use Plan of Operations

Pony Express Fed Com 305H
SHL: 355' FNL, 2226' FEL SEC. 16, T20S, R33E
Pony Express Fed Com 306H
SHL: 355' FNL, 2151' FEL SEC. 16, T20S, R33E
Pony Express Fed Com 403H
SHL: 355' FNL, 2201' FEL SEC. 16, T20S, R33E
Pony Express Fed Com 504H
SHL: 155' FNL, 2175' FEL SEC. 16, T20S, R33E
Pony Express Fed Com 603H
SHL: 155' FNL, 2200' FEL SEC. 16, T20S, R33E
Pony Express Fed Com 703H
SHL: 155' FNL, 2150' FEL SEC. 16, T20S, R33E
Pony Express Fed Com 707H
SHL: 355' FNL, 2176' FEL SEC. 16, T20S, R33E

This surface use plan of operations provides site specific information for the above referenced wells located on the Pony Express 3 Pad within the proposed Lone Ranger Drill Island.

1. **Existing Roads** *See Pony Express Pad 3 & Pony Express East CTB TOPO A & B – Access Road Map(s)
   Existing roads providing access to the well site are shown on Topo Maps A and B. Non-state roads will be maintained as needed to Gold Book standards. This includes pulling ditches, preserving the crown, and cleaning culverts. This will be done at least once a year, and more often as needed.
   Proceed in a westerly, then southwesterly direction from Hobbs, New Mexico along Highway 180 approximately 33.3 miles to the junction of this road and an existing road to the northwest; turn right then proceed in a northwesterly, then westerly, then northerly direction approximately 0.6 miles to the beginning of the proposed Silver 3 Pad access road "A" to the east; follow road flags in a easterly, then northerly direction approximately 743' to the beginning of the proposed access road "A" to the east; follow road flags in an easterly direction approximately 62' to the proposed location. Total distance from Hobbs, New Mexico to the proposed well location is approximately 34.1 miles.

2. **New Roads** *See Pony Express Pad 3 & Pony Express East CTB TOPO B - Access Road Map & R-O-W Plats
   There will be 196' of new resource roads that will be crowned and ditched. The proposed construction width will be 30' with a 14' wide driving surface, and be surfaced with caliche. Maximum disturbed width = 30', maximum grade = 3%, maximum cut/fill = 3'. No culvert, cattle guard, or vehicle turn out is needed. Upgrading will consist of filling potholes with caliche.
   a. Road "A" Dimensions (Permanent road): 62'
   b. Road "B" Dimensions (Permanent road): 62'
   c. Road "C" Dimensions (Permanent road to CTB): 72'

   New road access erosion control: Crowned and ditched

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Ascent Energy, LLC
Pony Express Pad 3
NWNE, SEC 16, T20S, R33E, N.M.P.M.
Lea County, New Mexico

3. **Location of Existing Wells** *See Pony Express Pad 3 Topo C: Well Proximity Map.
   Existing oil, gas, water and P&A wells within a mile of the proposed wellbore.
   No SWD or injection well is within a mile radius.
4. **Location of Existing and/or Proposed Production Facilities** *See Pony Express Pad 3 Figure 3-4 & Pony Express East CTB Figure 1
   Flare(s) will be set on the southernmost bottom of the well pad. Separators and treaters will be placed in the southeast corner of the well pad. A central tank battery (CTB) will be built south of the well pad. Tanks will be in the northwest corner of the CTB.

   A 229' long x 3' wide x 3' deep trench will run between the well pad and CTB. Trench will hold 4" 0.D. steel, HDPE, or composite oil line, fuel gas and gas sale lines, and SWD line. (There will be one trench per well. Trenches will be 3' apart. There will be 7 wells on the pad.)

   A 10' long above ground powerline will run between the well pad and CTB

5. **Location and Types of Water Supply** *See Water Transportation Map
   Water will be trucked from the 3Bear Libby water station on private land, located NE1/4 Section 26, T20S, R34E.

6. **Construction Materials** *See Construction Materials Source Map
   NM One Call (811), offset operators will be notified before construction starts, if necessary. Top 4" of soil and brush will be stockpiled east of the well pad. V-door will face east. Closed loop drilling system will be used. Top 4" of soil and brush will be piled east of the CTB. Caliche will be hauled from an existing caliche pit on private (Berry) land in E2N34 35-20S-34E.

7. **Methods of Handling Waste**
   All trash will be placed in a portable trash cage. It will be hauled to the Lea County landfill. There will be no trash burning. Contents (drill cuttings, mud, salts, and other chemicals) of the mud tanks will be hauled to state approved disposal site at R360's state approved (NM-01-0006) disposal site at Halfway, NM. Human waste will be disposed of in chemical toilets and hauled to the Hobbs wastewater treatment plant.
   Reserve pit: No reserve pit planned.

8. **Ancillary Facilities**
   There will be no airstrip or camp. Camper trailers will be on location for the company man, tool pusher, and mud logger.

9. **Well Site Layout** *See Pony Express Pad 3 Figures 1-3 & Pony Express East CTB Figures 1 & 2

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Pony Express Pad 3
NWNE, SEC 16, T20S, R33E, N.M.P.M.
Lea County, New Mexico

Also see Rig Layout (Figure #3) for depictions of the well pad, trash cage, access onto the location, parking, living facilities, and rig orientation.

10. **Plans for Final Surface Reclamation** *See Pony Express Pad 3 Figure 4
Interim Reclamation: Once the last well has been drilled, then the pad will be interim reclaimed to a reduced working surface area. The reclaimed area will be recontoured and reseeded to match preconstruction grades.
Final Reclamation: Once the last well is plugged, then the pad, CTB, and new road will be reclaimed within 6 months of plugging. Disturbed areas will be recontoured to match pre- construction grades. Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with BLM requirements. Road will be blocked. Noxious weeds will be controlled.

APPROXIMATE SURFACE DISTURBANCE AREAS	DISTANCE	ACRES
WELL SITE DISTURBANCE	NA	6.180
CTB SITE DISTURBANCE	NA	3.241
10’ WIDE POWER LINE R-O-W DISTURBANCE	10’	0.002
10’ WIDE POWER LINE TO CTB R-O-W DISTURBANCE	90’	0.021
30’ WIDE FLOWLINE R-O-W DISTURBANCE	229’	0.158
30’ WIDE ROAD “A” PERMANENT ROAD R-O-W DISTURBANCE	62’	0.043
30’ WIDE ROAD “B” PERMANENT ROAD R-O-W DISTURBANCE	62’	0.043
30’ WIDE ROAD “C” PERMANENT ROAD TO CTB R-O-W DISTURBANCE	72’	0.049
TOTAL SURFACE USE AREA:		**9.737**

11. **Surface Ownership**

Well site:
Surface owner: State of New Mexico
Contact/Office location:
State of New Mexico
P.O. Box 1148
Santa Fe, NM 87504
505-827-5760

Roads (New/Existing):
Surface owner: State of New Mexico
Contact/Office location:
State of New Mexico
P.O. Box 1148
Santa Fe, NM 87504
505-827-5760

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Pony Express Pad 3
NWNE, SEC 16, T20S, R33E, N.M.P.M.
Lea County, New Mexico

12. Additional Information

An onsite inspection was conducted for Pony Express Pad 3 on January 29, 2020. In attendance at the inspection were the following individuals:

Name	Agency/Company
Jeffery Roberts	Bureau of Land Management
Chaz Sartin	Bureau of Land Management
Jim Rutley	Bureau of Land Management
Ben Metz	Ascent Energy, LLC
Gema Volek	Ascent Energy, LLC
Amy Doebele	UELS, LLC
Bryan Bergstresser	UELS, LLC
Shane Lobdell	UELS, LLC
Michael Daniels	UELS, LLC

Field representative will be:

Gema Volek
Drilling Manager
Ascent Energy, LLC
1125 17th St., Suite 410
Denver, CO 80202
Office: (720) 710-8999
Cell: (785) 312-2092

UINTAH
ENGINEERING & LAND SURVEYING

Planning Report

Database:	Database 1	**Local Co-ordinate Reference:**	Well PONY EXPRESS FED COM 603H
Company:	ASCENT ENERGY	**TVD Reference:**	KB 25' @ 3566.00usft
Project:	LEA COUNTY, NEW MEXICO (NAD 83) (GRID)	**MD Reference:**	KB 25' @ 3566.00usft
Site:	SEC. 16 T20S R33E N.M.P.M. (GRID)	**North Reference:**	Grid
Well:	PONY EXPRESS FED COM 603H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

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)
LTP: 100ft FSL & 2310ft FEL of Sec 21										
21,164.19	***88.11***	***179.61***	***11,264.35***	***-7,698.35***	***-10,308.43***	***-39.63***	***10,307.92***	***0.00***	***0.00***	***0.00***
21,200.00	88.11	179.61	11,265.53	-7,699.53	-10,344.22	-39.39	10,343.71	0.00	0.00	0.00
BHL: 50ft FSL & 2310ft FEL of Sec 21										
21,214.22	***88.11***	***179.61***	***11,266.00***	***-7,700.00***	***-10,358.43***	***-39.29***	***10,357.93***	***0.00***	***0.00***	***0.00***

Formations

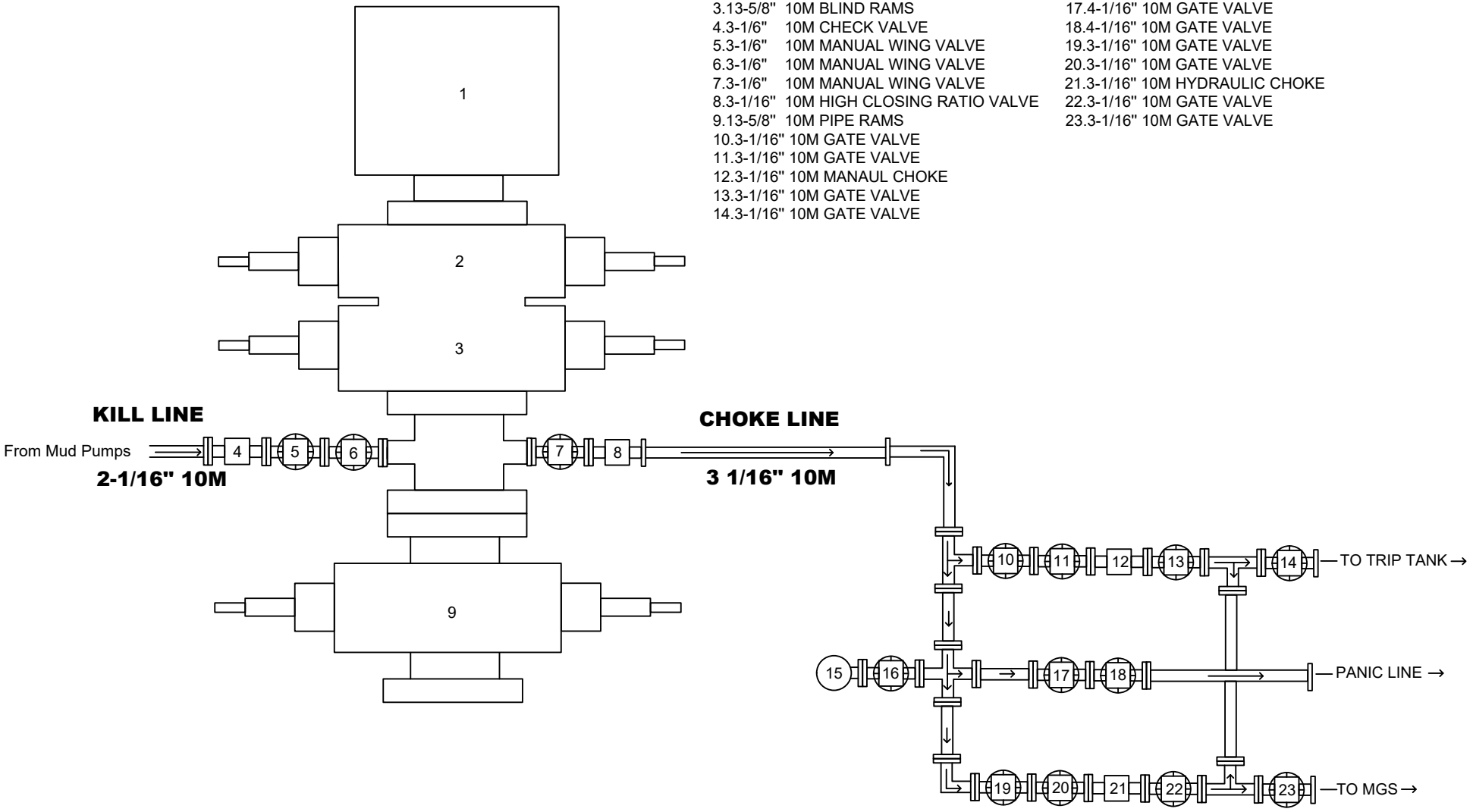
MD (usft)	TVD (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,266.00	1,266.00	RSTLR		0.00	
1,606.00	1,606.00	SALDO		0.00	
2,901.98	2,891.00	TANSIL		0.00	
3,070.66	3,056.00	YATES		0.00	
3,295.25	3,276.00	CAPITAN_REEF_TOP		0.00	
5,267.85	5,246.00	TOP_DELAWARE_SAND		0.00	
5,377.85	5,356.00	CHERRY_CANYON		0.00	
6,637.85	6,616.00	BRUSHY_CANYON		0.00	
8,197.85	8,176.00	BSPG_LIME		0.00	
8,317.85	8,296.00	AVLN		0.00	
8,732.85	8,711.00	LEONARD_B		0.00	
9,267.85	9,246.00	1ST_BSPG_SND		0.00	
9,554.85	9,533.00	2ND_BSPG		0.00	
9,783.85	9,762.00	2ND_BSPG_SND		0.00	
10,329.85	10,308.00	3RD_BSPG_C		0.00	
10,706.06	10,668.00	3RD_BSPG_S		0.00	

Plan Annotations

		Local Coordinates		
MD (usft)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Comment
0.00	0.00	0.00	0.00	SHL: 155ft FNL & 2200ft FEL of Sec 16
2,000.00	2,000.00	0.00	0.00	START NUDGE (2°/100ft BUR)
2,600.00	2,595.62	32.25	-53.66	EOB TO 12° INC
3,199.31	3,181.84	96.44	-160.45	END OF TANGENT
3,799.31	3,777.46	128.69	-214.11	EOD TO VERTICAL
10,387.20	10,365.35	128.69	-214.11	KOP (10°/100ft BUR)
10,682.06	10,647.37	55.20	-203.78	FTP: 100ft FNL & 2403.46ft FEL of Sec 16
11,268.30	10,938.00	-419.98	-137.00	HZ LP: 575.18ft FNL & 2340ft FEL of Sec 16
11,368.30	10,941.29	-518.95	-123.09	END OF TANGENT
11,621.83	10,949.67	-771.47	-104.57	EOT TO 179.61° AZ
21,164.19	11,264.35	-10,308.43	-39.63	LTP: 100ft FSL & 2310ft FEL of Sec 21
21,214.22	11,266.00	-10,358.43	-39.29	BHL: 50ft FSL & 2310ft FEL of Sec 21

Ascent Energy

5M BOPE & CHOKE MANIFOLD DIAGRAM



Blowout Prevention and Control
Well Kick: Shut-In Procedures

Primary Kick Indicators

If any primary kick indicators are observed, report them IMMEDIATEALY 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.

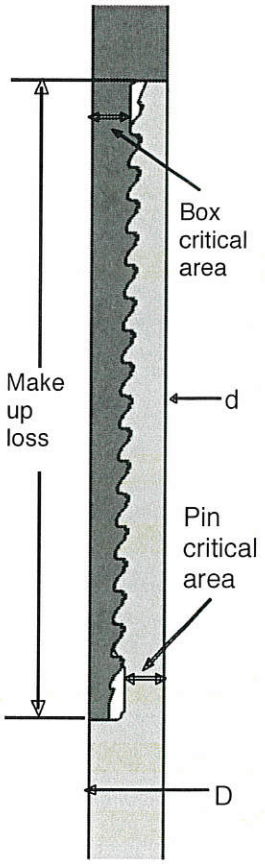
Metal One Corp.	FLUSHMAX-III Connection Data Sheet	Page	44-O
Metal One		Date	25-Jan-17
		Rev.	N - 1

FLUSHMAX-III

Geometry

Pipe Body

	Imperial		S.I.	
Grade	P110		P110	
Pipe OD (D)	7 5/8	in	193.68	mm
Weight	29.70	lb/ft	44.20	kg/m
Actual weight	29.04		43.21	kg/m
Wall Thickness (t)	0.375	in	9.53	mm
Pipe ID (d)	6.875	in	174.63	mm
Pipe body cross section	8.537	in^2	5,508	mm^2
Drift Dia.	6.750	in	171.45	mm



Connection

Box OD (W)	7.625	in	193.68	mm
PIN ID	6.875	in	174.63	mm
Make up Loss	3.040	in	77.22	mm
Box Critical Area	4.424	in^2	2854	mm^2
Joint load efficiency	60	%	60	%
Thread Taper	1 / 16 (3/4" per ft)			
Number of Threads	5 TPI			

Performance

Performance Properties for Pipe Body

S.M.Y.S.	939	kips	4,177	kN
M.I.Y.P.	9,470	psi	65.31	MPa
Collapse Strength	5,350	psi	36.90	MPa

Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body
M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body

Performance Properties for Connection

Tensile Yield load	563 kips (60% of S.M.Y.S.)
Min. Compression Yield	563 kips (60% of S.M.Y.S.)
Internal Pressure	7,580 psi (80% of M.I.Y.P.)
External Pressure	100% of Collapse Strength
Max. DLS (deg. /100ft)	25

Recommended Torque

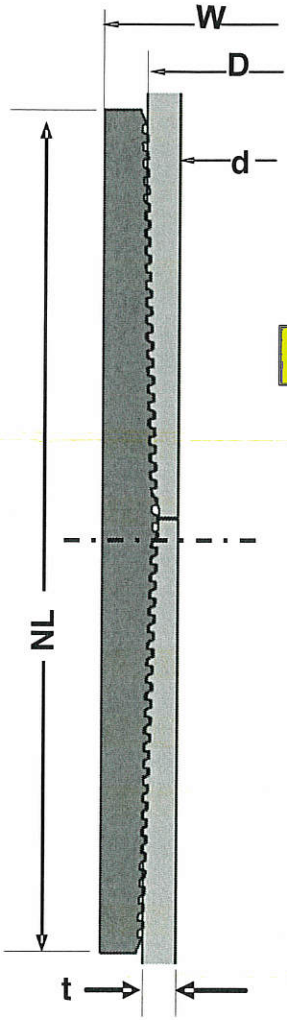
Min.	15,500	ft-lb	21,000	N-m
Opti.	17,200	ft-lb	23,300	N-m
Max.	18,900	ft-lb	25,600	N-m
Operational Max.	23,600	ft-lb	32,000	N-m

Note : Operational Max. torque can be applied for high torque application

Metal One Corp. / Metal One	GEOCONN Connection Data Sheet	Page	32 - R
		Date	5-Oct-16
		Rev.	N-0

Geometry

GEOCONN



Pipe Body

	Imperial		S.I.	
Grade	P110		P110	
Pipe OD (D)	5 1/2	in	139.70	mm
Weight	20.00	lb/ft	29.76	kg/m
Wall Thickness (t)	0.361	in	9.17	mm
Pipe ID (d)	4.778	in	121.36	mm
Drift Dia.	4.653	in	118.19	mm

Connection

Coupling OD (W)	6.050	in	153.67	mm
Coupling Length (NL)	8.350	in	212.09	mm
Make up Loss	4.125	in	104.78	mm
Pipe Critical Area	5.83	in^2	3,758	mm^2
Box Critical Area	6.10	in^2	3,935	mm^2
Thread Taper	1 / 16 (3/4" per ft)			
Number of Threads	5 TPI			

Performance

Performance Properties for Pipe Body

S.M.Y.S.	641	kips	2,850	kN
M.I.Y.P.	12,640	psi	87.17	MPa
Collapse Strength	11,100	psi	76.55	MPa

Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body
M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body

Performance Properties for Connection

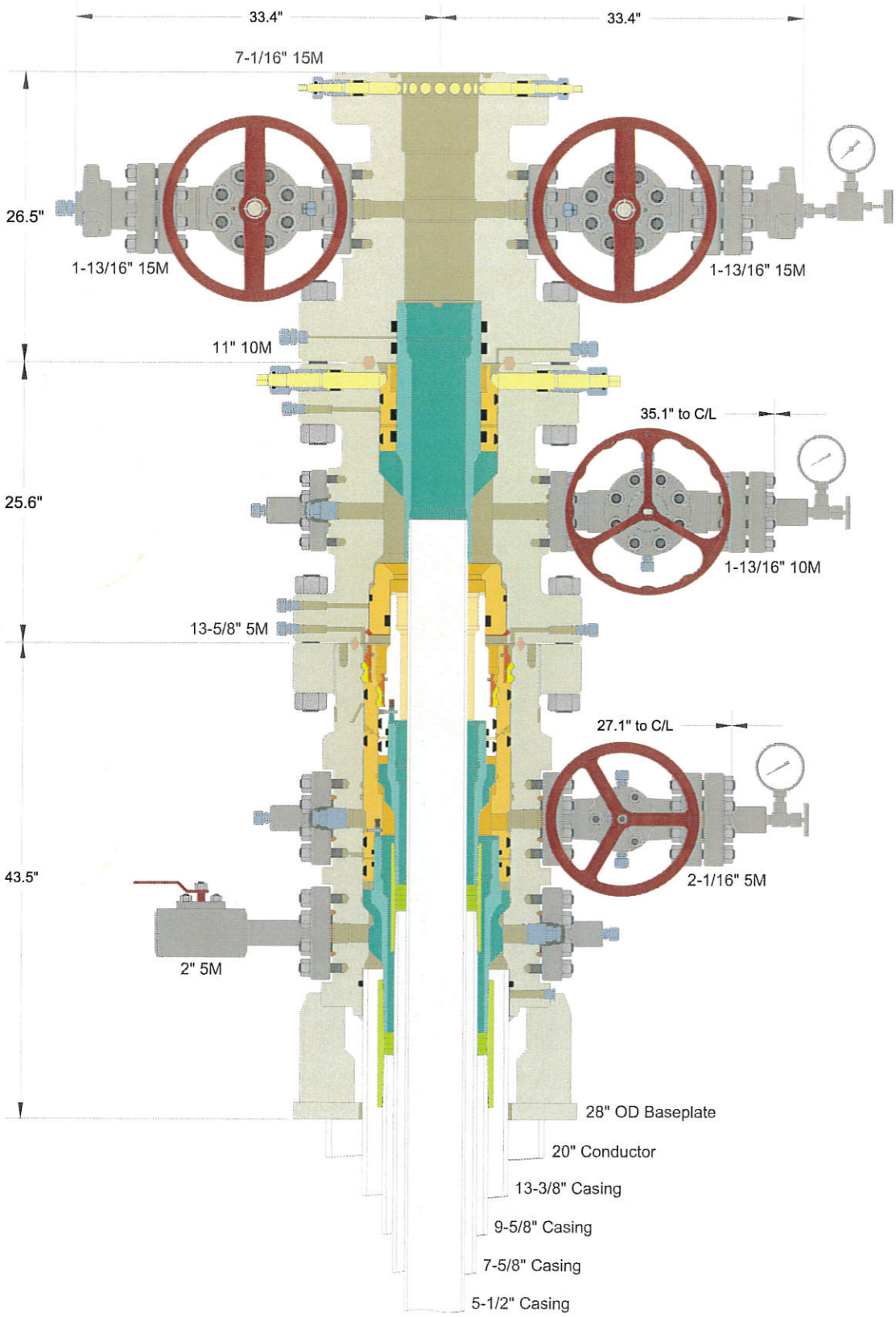
Min. Connection Joint Strength	100% of S.M.Y.S.
Min. Compression Yield	100% of S.M.Y.S.
Internal Pressure	100% of M.I.Y.P.
External Pressure	100% of Collapse Strength
Max. DLS (deg. /100ft)	>90

Recommended Torque

Min.	14,600	ft-lb	19,700	N-m
Opti.	16,200	ft-lb	21,900	N-m
Max.	17,800	ft-lb	24,100	N-m
Operational Max.	19,500	ft-lb	26,400	N-m

Note : Operational Max. torque can be applied for high torque application

Connection Yield Torque	22,900	ft-lb	31,000	N-m



CACTUS WELLHEAD LLC	ASCENT ENERGY, LLC DELAWARE BASIN		
13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" 5M MBU-3T Wellhead System With 13-5/8" 5M x 11" 10M CTH-P-HPS-F Tubing Spool And 11" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head	DRAWN	DLE	06APR18
	APPRV		
	DRAWING NO.	ODE0002219	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 26808

CONDITIONS

Operator: ASCENT ENERGY, LLC. 1125 17th St Denver, CO 80202	OGRID: 325830
	Action Number: 26808
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/18/2021
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	6/18/2021