

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED
JAN 10 2020
HOBBS OGD

Lease Serial No.
NMINM131588

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.

MOZZARELLA FEDERAL COM
702H
(372165)

9. API Well No.
372165-46742

10. Field area, Pool, or Exploratory
UPPER WOLF CAMP / WC-025 G-09 S21
(98313)

- 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

2. Name of Operator
CENTENNIAL RESOURCE PRODUCTION LLC (372165)

3a. Address
1001 17th Street, Suite 1800 Denver CO 80202
3b. Phone No. (include area code)
(720)499-1400

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface NENW / 954 FNL / 2159 FWL / LAT 32.410758 / LONG -103.698379
At proposed prod. zone NENW / 100 FNL / 2061 FWL / LAT 32.442113 / LONG -103.698733

11. Section, T. R. M. or Blk. and Survey or Area
SEC 8 / T22S / R32E / NMP

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

15. Distance from proposed* location to nearest property or lease line, ft.
954 feet
(Also to nearest drig. unit line, if any)
16. No. of acres in lease
886.41
17. Spacing Unit dedicated to this well
320

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
30 feet
19. Proposed Depth
11950 feet / 22529 feet
20. BLM/BIA Bond No. in file
FED: NMB001471

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3704 feet
22. Approximate date work will start*
04/09/2020
23. Estimated duration
45 days

24. Attachments

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

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

25. Signature (Electronic Submission)
Name (Printed/Typed)
Kancia Schlichting / Ph: (720)499-1537
Date
04/26/2019

Title
Sr. Regulatory Analyst

Approved by (Signature)
Name (Printed/Typed)
Christopher Walls / Ph: (575)234-2234
Date
01/06/2020

Title
Petroleum Engineer
Office
CARLSBAD

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

GCP Rec 01/11/2020

KE
01/17/2020

APPROVED WITH CONDITIONS
Approval Date: 01/06/2020

INSTRUCTIONS

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

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

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

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

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

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

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 other regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.28(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. 296; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

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

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

Additional Operator Remarks

Location of Well

1. SHL: NENW / 954 FNL / 2159 FWL / TWSP: 22S / RANGE: 32E / SECTION: 8 / LAT: 32.410758 / LONG: -103.698379 (TVD: 0 feet, MD: 0 feet)
PPP: SESW / 100 FSL / 2061 FWL / TWSP: 22S / RANGE: 32E / SECTION: 5 / LAT: 32.413653 / LONG: -103.698703 (TVD: 11946 feet, MD: 12315 feet)
PPP: SESW / 2632 FNL / 2061 FWL / TWSP: 22S / RANGE: 32E / SECTION: 5 / LAT: 32.420636 / LONG: -103.698791 (TVD: 11947 feet, MD: 14720 feet)
BHL: NENW / 100 FNL / 2061 FWL / TWSP: 21S / RANGE: 32E / SECTION: 32 / LAT: 32.442113 / LONG: -103.698738 (TVD: 11950 feet, MD: 22529 feet)

BLM Point of Contact

Name: Deborah Ham
Title: Legal Landlaw Examiner
Phone: 5752345965
Email: dham@blm.gov

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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.

Geologic Conditions of Approval

The operator proposes to set surface casing at 750' which will be in the Rustler and is an acceptable set point. If salt is encountered, set casing 25' above the salt. The operator proposes to set intermediate casing at 11,215' which will be in the 3rd BS Lime and is an acceptable set point. Ensure GR and CNL logs from surface to total depth and submit to the BLM as soon as possible for future development. H2S has been reported within one mile of the proposed project in concentrations as high as 500 ppm.

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Centennial Resource Production LLC
LEASE NO.:	NMNM131588
WELL NAME & NO.:	MOZZARELLA FEDERAL COM 702H
SURFACE HOLE FOOTAGE:	954'/N & 2159'/W
BOTTOM HOLE FOOTAGE	100'/N & 2061'/W
LOCATION:	Section 8, T.22 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** 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 **750** 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.

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- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 7-5/8 inch 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 Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.
JJP12192019

GENERAL REQUIREMENTS

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

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

Eddy County

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

Lea County

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after

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installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for

details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

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- 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.

Mozzarella Fed Com 702H

Centennial Drilling Plan for 3-Casing String Wolfcamp Formation

Cameron Multi-Bowl Wellhead

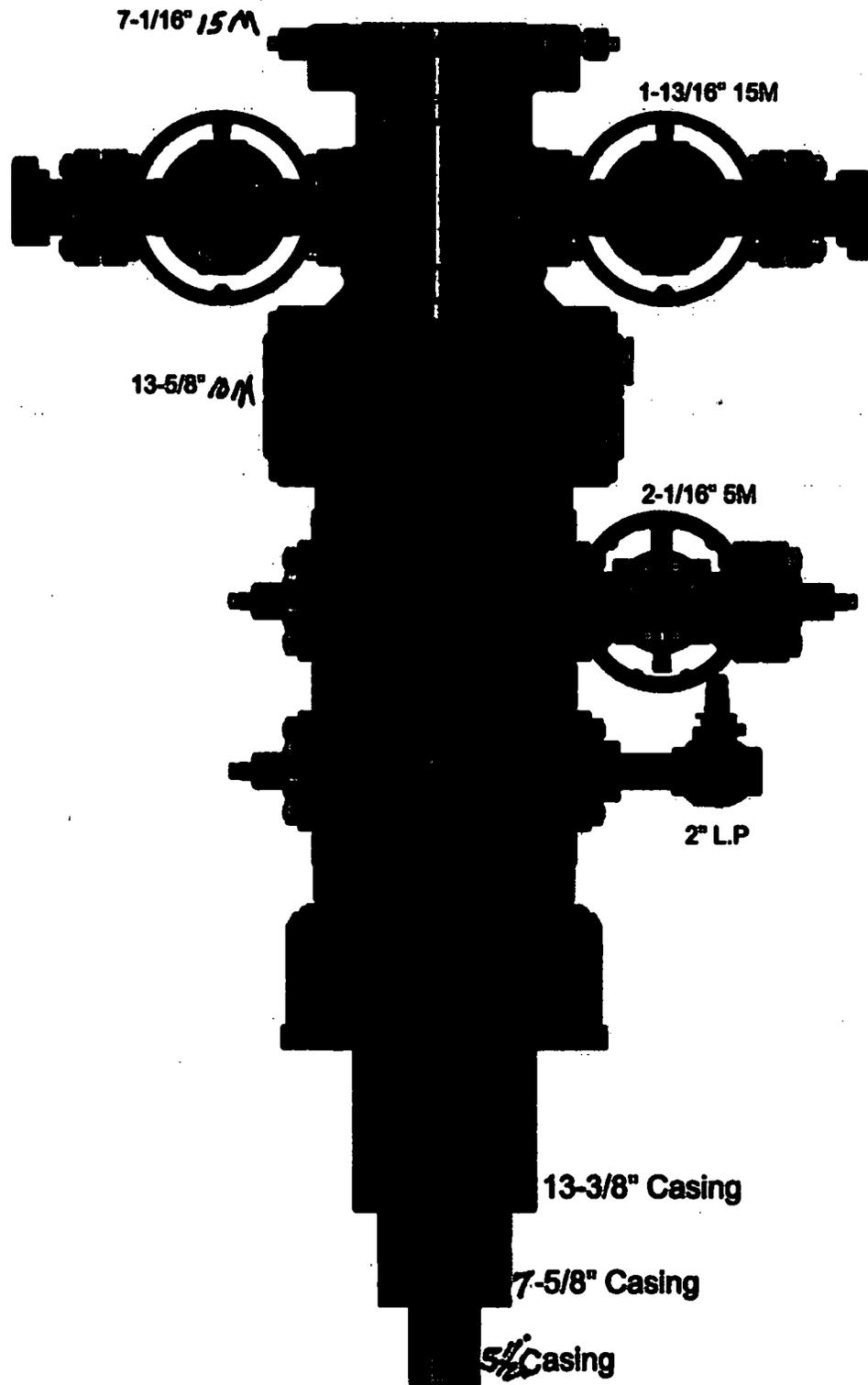
13-3/8" x 7-5/8" x 5-1/2" Semi-flush Casing Design

1. Drill 17-1/2" surface hole to Total Depth with Spudder Rig and perform wellbore cleanup cycles.
2. Run and land 13-3/8" casing to Depth.
3. Cement 13-3/8" casing – cement to surface.
4. Cut / Dress Conductor and 13-3/8" casing as needed, weld on Cameron Multi-bowl system with baseplate supported by 20" conductor.
5. Test Weld to 70% of 13-3/8" casing collapse. Place nightcap with Pressure Gauge on wellhead and test seals to 70% of Casing Collapse
6. Bleed Pressure if necessary and remove nightcap. Nipple up and test BOPE with test plug per Onshore Order 2.
7. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
8. Install wear bushing then drill out 13-3/8" shoe-track plus 20' and conduct FIT to minimum of the MW equivalent anticipated to control the formation pressure to the next casing point.
9. Drill 9-7/8" Intermediate hole to 7-5/8" casing point. (~ 100' above KOP).
10. Remove wear bushing then run and land 7-5/8" Intermediate with mandrel hanger in wellhead.
11. Cement 7-5/8 casing – cement to surface.
12. Washout stack then run wash tool in wellhead and wash hanger and pack-off setting area.
13. Install pack-off and test to 10000 psi for 15 minutes.
 - a. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) - not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
14. Install wear bushing then drill out 7-5/8" shoe-track plus 20' and conduct FIT to minimum MWequivalent to control the formation pressure to TD of well.
15. Drill 6-3/4" Vertical hole to KOP with Curve BHA.
16. Drill 6-3/4" Curve, landing in production interval – Trip for Lateral BHA.
17. Drill 6-3/4" Lateral to Permitted BHL, perform cleanup cycles and trip out to run 5-1/2" SemiFlush Production Casing.
18. Remove wear bushing then run 5-1/2" Semi-Flush production casing to TD landing casingmandrel in wellhead.
19. Cement 5-1/2" Production string to surface.

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20. Run in with wash tool and wash wellhead area – install pack-off and test to 10,000psi for 15 minutes.
21. Install BPV in 5-1/2" mandrel hanger – Nipple down BOPE and install nightcap.
22. Test nightcap void to 10,000psi for 30 minutes.

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Centennial

13-5/8" 10M MN-DS Wellhead



<p>Note: Dimensional information reflected on this drawing are estimated measurements only.</p>	<p>REV.</p>	<p>1655807-A</p>	<p>12/20/18</p>	<p>C. Moore</p>
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Approval Date: 01/06/2020



APD ID: 10400041204

Submission Date: 04/26/2019

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: MOZZARELLA FEDERAL COM

Well Number: 702H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

445175	RUSTLER	3584	712	712	SANDSTONE	NONE	N
445176	CAPITAN REEF	-1102	4686	4686	OTHER : Carbonate	USEABLE WATER	N
445178	BELL CANYON	-1174	4758	4758	SANDSTONE	NATURAL GAS, OIL	N
445179	CHERRY CANYON	-2010	5594	5594	SANDSTONE	NATURAL GAS, OIL	N
445180	BRUSHY CANYON	-3350	6934	6934	SANDSTONE	NATURAL GAS, OIL	N
445182	BONE SPRING LIME	-5051	8635	8635	OTHER : Carbonate	NATURAL GAS, OIL	N
445183	AVALON SAND	-5243	8827	8827	SHALE	CO2, NATURAL GAS, OIL	N
445184	BONE SPRING 1ST	-6157	9741	9741	LIMESTONE, SANDSTONE	NATURAL GAS, OIL	N
445185	BONE SPRING 2ND	-6410	9994	9994	OTHER, SHALE : Carbonate	NATURAL GAS, OIL	N
445186	BONE SPRING 3RD	-7821	11405	11405	SANDSTONE	NATURAL GAS, OIL	N
445227	WOLFCAMP	-8238	11822	11822	OTHER, SHALE : Carbonate	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 11950

Equipment: The BOP and related equipment will meet or exceed the requirements of a 10M/5M-psi system as set forth in On Shore Order No. 2. See attached BOP Schematic. A. Casinghead: 13 5/8" – 10,000 psi SOW x 13" – 10,000 psi WP Intermediate Spool: 13" – 10,000 psi WP x 11" – 10,000 psi WP Tubinghead: 11" – 10,000 psi WP x 7 1/16" – 15,000 psi WP B. Minimum Specified Pressure Control Equipment • Annular preventer • One Pipe ram, One blind ram • Drilling spool, or blowout preventer with 2 side outlets. Choke side will be a 3-inch minimum diameter, kill line shall be at least 2-inch diameter • 3 inch diameter choke line • 2 – 3 inch choke line valves • 2 inch kill line • 2 chokes with 1 remotely controlled from rig floor (see Figure 2) • 2 – 2 inch kill line valves and a check valve • Upper kelly cock valve with handle available • When the expected pressures approach working pressure of the system, 1 remote kill line tested to stack pressure (which shall run to the outer edge of the substructure and be unobstructed) • Lower kelly cock valve with handle available • Safety valve(s) and subs to fit all drill string connections in use • Inside BOP or float sub available • Pressure gauge on choke manifold • All

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: MOZZARELLA FEDERAL COM

Well Number: 702H

preventer. C. Auxiliary Equipment • Audio and visual mud monitoring equipment shall be placed to detect volume changes indicating loss or gain of circulating fluid volume. (OOS 1, III.C.2) • Gas Buster will be used below intermediate casing setting depth. • Upper and lower kelly cocks with handles, safety valve and subs to fit all drill string connections and a pressure gauge installed on choke manifold.

Requesting Variance? YES

Variance request: Request to use a flex hose on the choke manifold and 5k annular. Please see specs and multi-bowl attachments in section 8.

Testing Procedure: The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed b. whenever any seal subject to test pressure is broken c. following related repairs d. at 30 day intervals e. checked daily as to mechanical operating conditions. The ram type preventer(s) will be tested using a test plug to 250 psi (low) and 10,000 psi (high) (casinghead WP) with a test plug upon its installation onto the 13" surface casing. If a test plug is not used, the ram type preventer(s) shall be tested to 70% of the minimum internal yield pressure of the casing. The annular type preventer(s) shall be tested to 100% of its working pressure. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer. • A Sundry Notice (Form 3160 5), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test. • If the bleed line is connected into the buffer tank (header), all BOP equipment including the buffer tank and associated valves will be rated at the required BOP pressure. • The BLM office will be provided with a minimum of four (4) hours' notice of BOP testing to allow witnessing. The BOP Configuration, choke manifold layout, and accumulator system, will be in compliance with Onshore Order 2 for a 10,000 psi system. A remote accumulator will be used. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM 'witnessed BOP test. Any remote controls will be capable of both opening and closing all preventers and shall be readily accessible.

Choke Diagram Attachment:

HP650_10M_Choke_Manifold_20191122082633.pdf

BOP Diagram Attachment:

CRD_Well_Control_Plan_for_Variance_20190426083538.pdf

HP618_BOP_Drawing_20191122082659.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF	
1	CONDUCTOR	26	20.0	NEW	API	N	0	120	0	120	3704	3584	120	H-40	94	OTHER - Weld							
2	SURFACE	17.5	13.375	NEW	API	N	0	750	0	750	3704	2954	750	J-55	54.5	OTHER - BTC	3.05	7.38	DRY	12.87	DRY	20.87	
3	INTERMEDIATE	9.875	7.625	NEW	API	N	0	11215	0	11174	3704	-7471	11215	HCP-110	29.7	LT&C	2.16	1.81	DRY	2.32	BUOY	2.83	
4	PRODUCTION	6.75	5.5	NEW	API	N	0	22529	0	11950	3704	-8247	22529	P-110	20	OTHER - TMK Ultra Semi Flush	1.42	1.6	DRY	2.76	DRY	2.76	

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

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Casing Attachments

Casing ID: 1 **String Type:** CONDUCTOR

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20190418130015.pdf

Casing ID: 2 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CASING_ASSUMPTIONS_WORKSHEET_20190418130050.pdf

Casing ID: 3 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Cheddar_2BS_Fed_Com_1H_Casing_Assumptions_06-09-2017.pdf

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: MOZZARELLA FEDERAL COM

Well Number: 702H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MID	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead					3.41					
PRODUCTION	Tail										

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a diesel emulsified brine fluid to inhibit salt washout and prevent severe fluid losses. The production hole will employ oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

Describe the mud monitoring system utilized: Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
750	1121 5	OTHER : Brine	9	9							
0	750	WATER-BASED MUD	8.6	9.5							
1121 5	1195 0	OTHER : Brine/OBM	8.8	14.5							

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: MOZZARELLA FEDERAL COM

Well Number: 702H

Section 6 - Test, Logging, Coring

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

MWD/LWD Intermediate to TD

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

DS,GR

Coring operation description for the well:

N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 9010

Anticipated Surface Pressure: 6381

Anticipated Bottom Hole Temperature(F): 170

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Mozzarella_FC_702H_H2S_Plan_20190426090044.docx

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

MOZZARELLA_FED_COM_702H__APD_PLAN__1_20190426090112.pdf

Other proposed operations facets description:

o 13-3/8" Surface Casing - CRD intends to preset 13-3/8" casing to a depth approved in the APD. Surface Holes will be batch set by a Spudder rig. Appropriate notifications will be made prior to spudding the well, running and cementing casing and prior to skidding to the rig to the next well on pad.

o Intermediate and Production Casing – For all subsequent Intermediate and Production Casing Strings, the well will be drilled below 13-3/8" to it's intended final TD. Batch drilling will not be executed for casing strings below the 13-3/8". Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

Please see attached Gas Capture Plan.

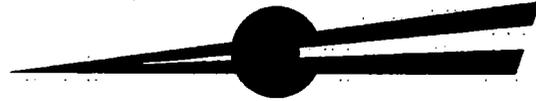
Other proposed operations facets attachment:

Mozzarella_Federal_Com_603H_702H_703H_Gas_Capture_Plan_20190426063945.docx

H_P_650_Flex_Hose_Specs_Continental_Hose_SN_67255_20190426064013.pdf

Other Variance attachment:

CRDM MWD Drill Procedure Mozzarella Fed Com 702H 20190426090044.pdf



CENTENNIAL

RESOURCE DEVELOPMENT, INC

HYDROGEN SULFIDE CONTINGENCY PLAN

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Initial Date: 4/9/19

Revision Date:

Table of Contents

Page 3: Introduction

Page 4: Directions to Location

Page 5: Safe Briefing Areas

Page 6: Drill Site Location Setup

Page 7: Toxicity of Various Gases

Page 10: H₂S Required Equipment

Page 11: Determination of Radius of Exposure

Page 12: Emergency Contact List

INTRODUCTION

This plan specifies precautionary measures, safety equipment, emergency procedures, responsibilities, duties, and the compliance status pertaining to the production operations of Hydrogen Sulfide producing wells on:

Centennial Resource Development, Inc.

This plan will be in full effect prior to and continuing with all drilling operations for all wells producing potential Hydrogen Sulfide on the

[REDACTED]

This plan was developed in response to the potential hazards involved when producing formations that may contain Hydrogen Sulfide (H₂S) It has been written in compliance with current **New Mexico Oil Conservation Division Rule 118 and Bureau of Land Management 43 CFR 3160 Onshore Order No. 6.**

All personnel shall receive proper H₂S training in accordance with Onshore Order III.C.3.a

This plan shall require the full cooperation and efforts of all individuals participating in the production of potential H₂S wells.

Each individual is required to know their assigned responsibilities and duties in regard to normal production operations and emergency procedures.

Each person should thoroughly understand and be able to use all safety related equipment on the production facility.

Each person should become familiar with the location of all safety equipment and become involved in ensuring that all equipment is properly stored, easily accessible, and routinely maintained.

An ongoing training program will remain in effect with regular training, equipment inspections, and annual certifications for all personnel.

Centennial Resource Development, Inc. shall make every reasonable effort to provide all possible safeguards to protect all personnel, both on this location and in the immediate vicinity, from the harmful effects of H₂S exposure, if a release to the atmosphere should occur.

DIRECTIONS TO LOCATION



PROCEED IN A EASTERLY, THEN NORTHEASTERLY, THEN EASTERLY DIRECTION FROM CARLSBAD, NEW MEXICO ALONG U.S. HIGHWAY 62 APPROXIMATELY 31.1 MILES TO THE JUNCTION OF THIS ROAD AND CAMPBELL ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 9.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN NORTHERLY, THEN EASTERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY, THEN NORTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 3,030' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM CARLSBAD, NEW MEXICO TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 43.8 MILES.

SAFE BRIEFING AREAS

Two areas will be designated as "SAFE BRIEFING AREAS".

The Primary Safe Briefing Area

If the Primary Safe Briefing Area cannot be used due to wind conditions; the designated secondary safe briefing area will be used.

These two areas are so designated for accessibility reasons related to self-contained safe breathing air device locations, evacuation muster point utility, and for ease of overall communication, organizational support, as well as the all-important prevailing wind directions. Drawings of the facility denoting these locations are included on Page 15.

If H₂S is detected in concentrations equal to or in excess of 15 PPM, all personnel not assigned emergency duties are to assemble in the appropriate "SAFE BRIEFING AREA" for instructions.

Wind Direction Indicators: A windsock, shall be positioned, allowing the wind direction to be observed from anywhere on the charted facility location.

Warning-DANGER SIGNS for Approaching Traffic: All signs shall also be illuminated under conditions of poor visibility.

**DANGER
POISONOUS GAS
HYDROGEN SULFIDE
DO NOT APPROACH IF AMBER LIGHTS ARE FLASHING**

An amber strobe light system will be activated for H₂S concentrations of 10 PPM or greater and an audible alarm will sound when H₂S exceeds 15 ppm, and. This condition will exist until the all clear is given.

DRILL SITE LOCATION:

1. The drilling rig should be situated on location such that the prevailing winds blow across the rig toward the reserve pit or at right angles to a line from the rig to the reserve pit.
2. The entrance to the location should be designated so that it can be barricaded if Hydrogen Sulfide emergency conditions arise. An auxiliary exit (or entrance) should be available in case of a catastrophe; a shift in wind direction would not preclude escape from the location. Appropriate warning signs and flags should be placed at all location entrances.
3. Once H₂S safety procedures are established on location, no beards or facial hair, which will interfere with face seal or mask, will be allowed on location.
4. A minimum of two BRIEFING AREAS will be established, no less than 250 feet from the wellhead and in such location that at least one area will be up-wind from the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated briefing areas for instructions.
5. A safety equipment trailer will be station at one of the briefing areas.
6. Windssocks will be installed and wind streamers (6 to 8 feet above ground level) placed at the location entrance. Windssocks shall be illuminated for nighttime operations. Personnel should develop wind direction consciousness.
7. The mud-logging trailer will be located so as to minimize the danger from the gas that breaks out of the drilling fluid.
8. Shale shaker mud tanks will be located so as to minimize the danger from gas that breaks out of the drilling fluid.
9. Electric power plant(s) will be located as far from the well bore as practical so that it may be used under conditions where it otherwise would have to be shut down.
10. When approaching depth where Hydrogen Sulfide may be encountered, appropriate warning signs will be posted on all access roads to the location and at the foot of all stairways to the derrick floor.
11. Appropriate smoking areas will be designated, and smoking will be prohibited elsewhere.

The table below lists various poisonous gases and the concentrations at which they become dangerous.

TOXICITY OF VARIOUS GASES

TOXICITY OF GASES					
(Taken from API RP-49 September 1974 – Re-issued August 1978)					
Common Name	Chemical Formula	Gravity (Air = 1)	Threshold 1 Limit	Hazardous 2 Limit	Lethal 3 Limit
Hydrogen Sulfide	H ₂ S	1.18	10 ppm	250 ppm/1hr	600 ppm
Sulfur Dioxide	SO ₂	2.21	20 ppm	---	1000 ppm
Carbon Monoxide	CO	0.97	50 ppm	400 ppm/1hr	1000 ppm
Carbon Dioxide	CO ₂	1.52	5000 ppm	5%	10%
Methane	CH ₄	0.55	90000 ppm	Combustible Above 5% in Air	

1. Threshold concentration at which it is believed that all workers may repeatedly be exposed day after day, without adverse effect	2. Hazardous concentration that may cause death	3. Lethal concentration that will cause death with short-term exposure
---	---	--

Properties of Gases

The produced gas will probably be a mixture of Carbon Dioxide, Hydrogen Sulfide, and Methane.

Carbon Dioxide

Carbon Dioxide (CO₂) is usually considered inert and is commonly used to extinguish fires.

It is heavier than air (1.52 times) and it will concentrate in low areas of still air.

Humans cannot breathe air containing more than 10% CO₂ without losing consciousness. Air containing 5% CO₂ will cause disorientation in a few minutes.

Continued exposures to CO₂ after being affected will cause convulsions, coma, and respiratory failure.

The threshold limit of CO₂ is 5000 ppm.

Short-term exposure to 50,000 PPM (5%) is reasonable. This gas is colorless and odorless and can be tolerated in relatively high concentrations.

Hydrogen Sulfide

Hydrogen Sulfide (H₂S) itself is a colorless, transparent gas and is flammable. It is heavier than air and, hence, may accumulate in low places.

Although the slightest presence of H₂S in the air is normally detectable by its characteristic "rotten egg" odor, it is dangerous to rely on the odor as a means of detecting excessive concentrations because the sense of smell is rapidly lost, allowing lethal concentrations to be accumulated without warning. The following table indicates the poisonous nature of Hydrogen Sulfide.

HYDROGEN SULFIDE TOXICITY			
Concentration			Effects
%H ₂ S	PPM	GR/100 SCF 1	
0.001	10	0.65	Safe for 8 hours without respirator. Obvious and unpleasant odor.
0.002	20	1.30	Burning in eyes and irritation of respiratory tract after on hour.
0.01	100	6.48	Kills smell in 3 to 15 minutes; may sting eyes and throat.
0.02	200	12.96	Kills smell shortly; stings eyes and throat.
0.05	500	32.96	Dizziness; breathing ceases in a few minutes; need prompt artificial respiration.
0.07	700	45.92	Unconscious quickly; death will result if not rescued promptly
0.10	1000	64.80	DEATH!

Note: 1 grain per 100 cubic feet

Sulfur Dioxide

Sulfur Dioxide is a colorless, transparent gas and is non-flammable.

Sulfur Dioxide (SO₂) is produced during the burning of H₂S. Although SO₂ is heavier than air, it will be picked up by a breeze and carried downwind at elevated temperatures. Since Sulfur Dioxide is extremely irritating to the eyes and mucous membranes of the upper respiratory tract, it has exceptionally good warning powers in this respect. The following table indicates the toxic nature of the gas.

SULFUR DIOXIDE TOXICITY		
Concentration		Effects
%SO₂	PPM	
0.0005	3 to 5	Pungent odor-normally a person can detect SO ₂ in this range.
0.0012	12	Throat irritation, coughing, and constriction of the chest tearing and smarting of eyes.
0.15	150	So irritating that it can only be endured for a few minutes.
0.05	500	Causes a sense of suffocation, even with first breath.

H₂S REQUIRED EQUIPMENT LIST

RESPIRATORY SAFETY SYSTEMS

- Working cascade system available on rig floor and pit system & 750' of air line hose
- Four (4) breathing air manifolds
- Four (4) 30-minute rescue packs
- Five (5) work/Escape units
- Five (5) escape units
- One (1) filler hose for the work/escape/rescue units

DETECTION AND ALARM SYSTEM

- 4 channel H₂S monitor
- 4 wireless H₂S monitors
- H₂S alarm system (Audible/Red strobe)
- Personal gas monitor for each person on location
- Gas sample tubes

WELL CONTROL EQUIPMENT

- Flare line with remote ignitor and backup flare gun, placed 150' from wellhead
- Choke manifold with remotely operated choke
- Mud gas separator

VISUAL WARNING SYSTEMS

- One color code condition sign will be placed at each entrance reflecting possible conditions at the site
- A colored condition flag will be on display, reflecting current condition at the site at the time
- At least 4 wind socks placed on location, visible at all angles and locations

MUD PROGRAM

- Mud will contain sufficient weight and additives to control and minimize H₂S

METALLURGY

- All drill strings, casing, tubing, wellhead, BOP, spools, kill lines, choke manifold and lines, and valves shall be suitable for anticipated H₂S volume and pressure

COMMUNICATION

- Cell phones, intercoms, and satellite phones will be available on location

ADDITIONAL SAFETY RELATED ITEMS

- Stretcher
- 2 OSHA full body harness

- **20# class ABC fire extinguisher**

DETERMINATION OF RADIUS OF EXPOSURE

Potentially hazardous volume means a volume of gas of such H₂S concentration and flow rate that it may result in radius of exposure-calculated ambient concentrations of 100 ppm H₂S at any occupied residence, school, church, park, school bus stop, place of business or other area where the public could reasonably be expected to frequent, or 500 ppm H₂S at any Federal, State, County or municipal road or highway.

Currently there are no residence located within the ROE

Radius of exposure means the calculation resulting from using the Pasquill -Gifford derived equation, or by such other method(s) that may be approved by the authorized officer. Advanced Fire and Safety has provided the Pasquill-Gifford formula in excel format for simple calculations.

NEW MEXICO OIL & GAS CONSERVATION DIVISION 118

████████████████████

H₂S Concentration - █████ PPM

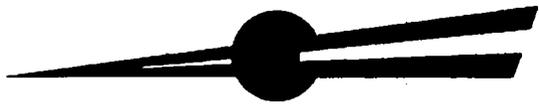
Maximum Escape Volume - █████ MCF/Day

100 PPM Radius of Exposure - █████
(Formula= $1.589 \times (\frac{\text{█████}}{1000000}) \times (\text{█████} \times 1000) \times .6258$)

500 PPM Radius of Exposure - █████
Formula= $.4546 \times (\frac{\text{█████}}{1000000}) \times (\text{█████} \times 1000) \times .6258$

EMERGENCY CONTACT LIST

911 is available in the area			
NAME	POSITION	COMPANY	NUMBER
Centennial Contacts			
Dennis Hartwig	Drilling Engineer	CDEV	720-499-1528
Ricky Mills/John Helm	Superintendent	CDEV	432-305-1068
Mike Ponder/Wayne Miller	Field Superintendent	CDEV	432-287-3003
Brett Thompson	Drilling Manager	CDEV	720-656-7027
Reggie Phillips	HSE Manager	CDEV	432-638-3380
H&P 650 Drilling Office	Drilling Supervisor	CDEV	432-538-3343
Local Emergency Response			
Fire Department			575-395-2511
Jal Community Hospital			505-395-2511
State Police			505-827-9000
Lea County Sheriff			575-396-3611
Safety Contractor			
Advanced Safety	Office	Advanced Safety	833-296-3913
Joe Gadway	Permian Supervisor	Advanced Safety	318-446-3716
Clint Hudson	Operations Manager	Advanced Safety	337-552-8330
Well Control Company			
Wild Well Control			866-404-9564
Contractors			
Tommy E Lee	Pump Trucks		432-813-7140
Paul Smith	Drilling Fluids	Momentum	307-258-6254
Compass Coordinators	Cement	Compass	432-561-5970



CENTENNIAL

RESOURCE DEVELOPMENT, INC

Project: MOZZARELLA FED COM

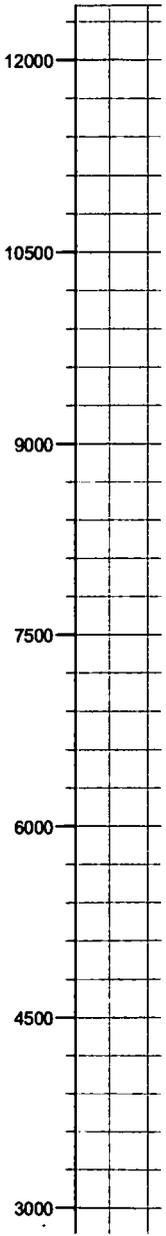
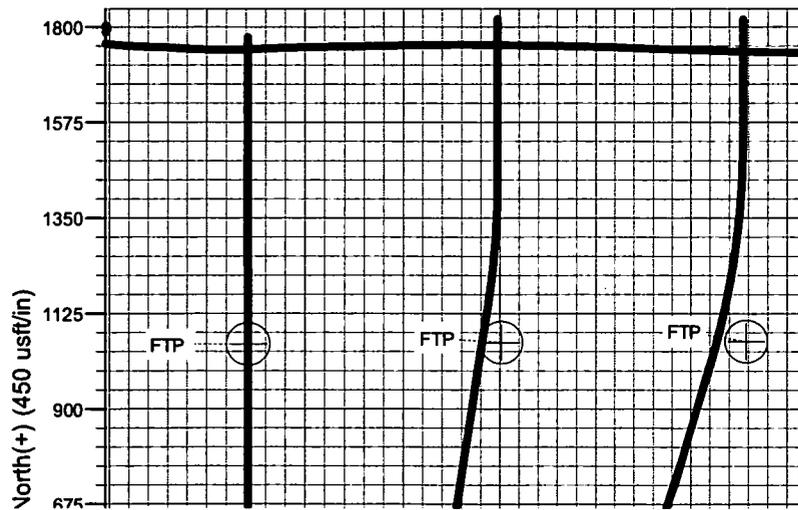
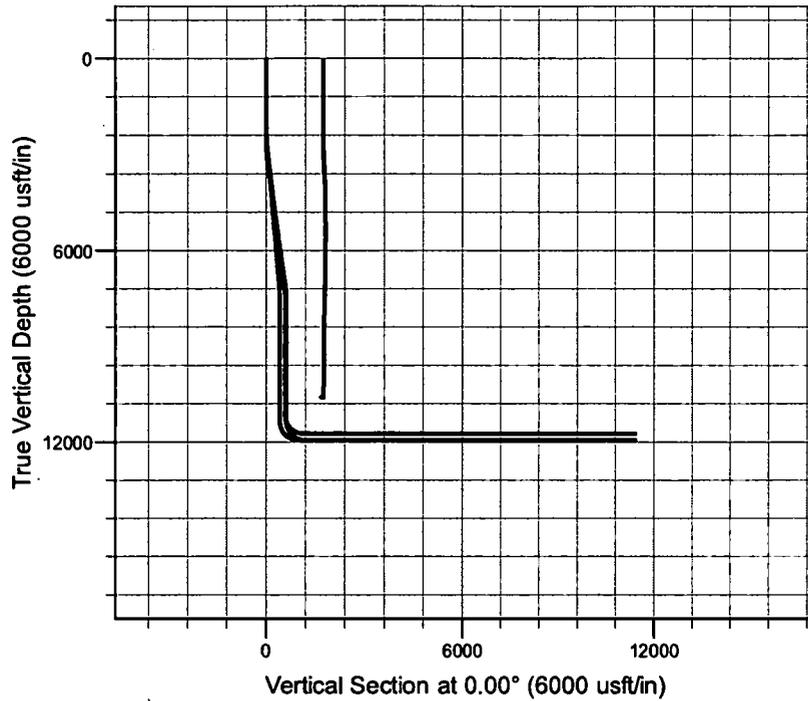
Site: MOZZARELLA FED COM

Wells: MOZZARELLA FED COM 603H_702H_703H

Design: APD PLAN

Geodetic

System





NEW MEXICO

LEA

MOZZARELLA

MOZZARELLA FED COM 702H

MOZZARELLA FED COM 702H

Plan: PWP0

Survey Report - Geographic

09 April, 2019

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well MOZZARELLA FED COM 702H
Project:	LEA	TVD Reference:	RKB=3704+25 @ 3729.0usft
Site:	MOZZARELLA	MD Reference:	RKB=3704+25 @ 3729.0usft
Well:	MOZZARELLA FED COM 702H	North Reference:	True
Wellbore:	MOZZARELLA FED COM 702H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Centennial EDM SQL Server

Project	LEA		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Zone 13N (108 W to 102 W)		

Site	MOZZARELLA				
Site Position:		Northing:	11,767,404.24 usft	Latitude:	32° 24' 38.729 N
From:	Map	Easting:	2,042,015.02 usft	Longitude:	103° 41' 53.816 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.70 °

Well	MOZZARELLA FED COM 702H					
Well Position	+N/-S	0.0 usft	Northing:	11,767,403.70 usft	Latitude:	32° 24' 38.728 N
	+E/-W	0.0 usft	Easting:	2,041,985.03 usft	Longitude:	103° 41' 54.166 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,703.5 usft

Wellbore	MOZZARELLA FED COM 702H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.82	60.39	48,889.43837550

Design	PWP0				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	0.00	

Survey Tool Program	Date	4/8/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	22,529.2	PWP0 (MOZZARELLA FED COM 702H)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W	
100.0	0.00	0.00	100.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W	
200.0	0.00	0.00	200.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W	
300.0	0.00	0.00	300.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W	
400.0	0.00	0.00	400.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W	
500.0	0.00	0.00	500.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W	
600.0	0.00	0.00	600.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W	
700.0	0.00	0.00	700.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W	
800.0	0.00	0.00	800.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W	
900.0	0.00	0.00	900.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W	

Company: NEW MEXICO	Local Co-ordinate Reference: Well MOZZARELLA FED COM 702H
Project: LEA	TVD Reference: RKB=3704+25 @ 3729.0usft
Site: MOZZARELLA	MD Reference: RKB=3704+25 @ 3729.0usft
Well: MOZZARELLA FED COM 702H	North Reference: True
Wellbore: MOZZARELLA FED COM 702H	Survey Calculation Method: Minimum Curvature
Design: PWP0	Database: Centennial EDM SQL Server

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,200.0	0.00	0.00	1,200.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	11,767,403.70	2,041,985.03	32° 24' 38.728 N	103° 41' 54.166 W
2,600.0	1.00	350.80	2,600.0	0.9	-0.1	11,767,404.56	2,041,984.88	32° 24' 38.736 N	103° 41' 54.167 W
2,700.0	2.00	350.80	2,700.0	3.4	-0.6	11,767,407.14	2,041,984.43	32° 24' 38.762 N	103° 41' 54.172 W
2,800.0	3.00	350.80	2,799.9	7.8	-1.3	11,767,411.44	2,041,983.68	32° 24' 38.804 N	103° 41' 54.180 W
2,900.0	4.00	350.80	2,899.7	13.8	-2.2	11,767,417.45	2,041,982.63	32° 24' 38.864 N	103° 41' 54.192 W
3,000.0	5.00	350.80	2,999.4	21.5	-3.5	11,767,425.18	2,041,981.28	32° 24' 38.941 N	103° 41' 54.206 W
3,100.0	6.00	350.80	3,098.9	31.0	-5.0	11,767,434.62	2,041,979.63	32° 24' 39.034 N	103° 41' 54.224 W
3,200.0	7.00	350.80	3,198.3	42.2	-6.8	11,767,445.77	2,041,977.68	32° 24' 39.145 N	103° 41' 54.245 W
3,300.0	8.00	350.80	3,297.4	55.0	-8.9	11,767,458.63	2,041,975.44	32° 24' 39.272 N	103° 41' 54.270 W
3,400.0	8.00	350.80	3,396.4	68.8	-11.1	11,767,472.34	2,041,973.05	32° 24' 39.408 N	103° 41' 54.296 W
3,500.0	8.00	350.80	3,495.5	82.5	-13.4	11,767,486.05	2,041,970.66	32° 24' 39.544 N	103° 41' 54.322 W
3,600.0	8.00	350.80	3,594.5	96.3	-15.6	11,767,499.76	2,041,968.26	32° 24' 39.680 N	103° 41' 54.347 W
3,700.0	8.00	350.80	3,693.5	110.0	-17.8	11,767,513.47	2,041,965.87	32° 24' 39.816 N	103° 41' 54.373 W
3,800.0	8.00	350.80	3,792.5	123.7	-20.0	11,767,527.18	2,041,963.48	32° 24' 39.952 N	103° 41' 54.399 W
3,900.0	8.00	350.80	3,891.6	137.5	-22.3	11,767,540.89	2,041,961.09	32° 24' 40.088 N	103° 41' 54.425 W
4,000.0	8.00	350.80	3,990.6	151.2	-24.5	11,767,554.60	2,041,958.70	32° 24' 40.224 N	103° 41' 54.451 W
4,100.0	8.00	350.80	4,089.6	164.9	-26.7	11,767,568.31	2,041,956.30	32° 24' 40.360 N	103° 41' 54.477 W
4,200.0	8.00	350.80	4,188.6	178.7	-28.9	11,767,582.02	2,041,953.91	32° 24' 40.496 N	103° 41' 54.503 W
4,300.0	8.00	350.80	4,287.7	192.4	-31.2	11,767,595.73	2,041,951.52	32° 24' 40.632 N	103° 41' 54.529 W
4,400.0	8.00	350.80	4,386.7	206.2	-33.4	11,767,609.44	2,041,949.13	32° 24' 40.768 N	103° 41' 54.555 W
4,500.0	8.00	350.80	4,485.7	219.9	-35.6	11,767,623.15	2,041,946.73	32° 24' 40.904 N	103° 41' 54.581 W
4,600.0	8.00	350.80	4,584.8	233.6	-37.8	11,767,636.87	2,041,944.34	32° 24' 41.040 N	103° 41' 54.607 W
4,700.0	8.00	350.80	4,683.8	247.4	-40.1	11,767,650.58	2,041,941.95	32° 24' 41.176 N	103° 41' 54.633 W
4,800.0	8.00	350.80	4,782.8	261.1	-42.3	11,767,664.29	2,041,939.56	32° 24' 41.312 N	103° 41' 54.659 W
4,900.0	8.00	350.80	4,881.8	274.9	-44.5	11,767,678.00	2,041,937.16	32° 24' 41.448 N	103° 41' 54.685 W
5,000.0	8.00	350.80	4,980.9	288.6	-46.7	11,767,691.71	2,041,934.77	32° 24' 41.584 N	103° 41' 54.711 W
5,100.0	8.00	350.80	5,079.9	302.3	-49.0	11,767,705.42	2,041,932.38	32° 24' 41.720 N	103° 41' 54.737 W
5,200.0	8.00	350.80	5,178.9	316.1	-51.2	11,767,719.13	2,041,929.99	32° 24' 41.856 N	103° 41' 54.763 W
5,300.0	8.00	350.80	5,277.9	329.8	-53.4	11,767,732.84	2,041,927.60	32° 24' 41.992 N	103° 41' 54.789 W
5,400.0	8.00	350.80	5,377.0	343.5	-55.6	11,767,746.55	2,041,925.20	32° 24' 42.128 N	103° 41' 54.815 W
5,500.0	8.00	350.80	5,476.0	357.3	-57.9	11,767,760.26	2,041,922.81	32° 24' 42.264 N	103° 41' 54.841 W
5,600.0	8.00	350.80	5,575.0	371.0	-60.1	11,767,773.97	2,041,920.42	32° 24' 42.400 N	103° 41' 54.867 W
5,700.0	8.00	350.80	5,674.0	384.8	-62.3	11,767,787.68	2,041,918.03	32° 24' 42.536 N	103° 41' 54.893 W
5,800.0	8.00	350.80	5,773.1	398.5	-64.5	11,767,801.39	2,041,915.63	32° 24' 42.672 N	103° 41' 54.919 W
5,900.0	8.00	350.80	5,872.1	412.2	-66.8	11,767,815.10	2,041,913.24	32° 24' 42.808 N	103° 41' 54.945 W
6,000.0	8.00	350.80	5,971.1	426.0	-69.0	11,767,828.81	2,041,910.85	32° 24' 42.944 N	103° 41' 54.971 W
6,100.0	8.00	350.80	6,070.2	439.7	-71.2	11,767,842.52	2,041,908.46	32° 24' 43.080 N	103° 41' 54.996 W
6,200.0	8.00	350.80	6,169.2	453.5	-73.4	11,767,856.23	2,041,906.07	32° 24' 43.216 N	103° 41' 55.022 W
6,300.0	8.00	350.80	6,268.2	467.2	-75.7	11,767,869.94	2,041,903.67	32° 24' 43.352 N	103° 41' 55.048 W
6,400.0	8.00	350.80	6,367.2	480.9	-77.9	11,767,883.65	2,041,901.28	32° 24' 43.487 N	103° 41' 55.074 W
6,500.0	8.00	350.80	6,466.3	494.7	-80.1	11,767,897.36	2,041,898.89	32° 24' 43.623 N	103° 41' 55.100 W
6,600.0	8.00	350.80	6,565.3	508.4	-82.3	11,767,911.07	2,041,896.50	32° 24' 43.759 N	103° 41' 55.126 W

Company: NEW MEXICO	Local Co-ordinate Reference: Well MOZZARELLA FED COM 702H
Project: LEA	TVD Reference: RKB=3704+25 @ 3729.0usft
Site: MOZZARELLA	MD Reference: RKB=3704+25 @ 3729.0usft
Well: MOZZARELLA FED COM 702H	North Reference: True
Wellbore: MOZZARELLA FED COM 702H	Survey Calculation Method: Minimum Curvature
Design: PWPO	Database: Centennial EDM SQL Server

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,700.0	8.00	350.80	6,664.3	522.1	-84.6	11,767,924.78	2,041,894.10	32° 24' 43.895 N	103° 41' 55.152 W
6,800.0	8.00	350.80	6,763.3	535.9	-86.8	11,767,938.49	2,041,891.71	32° 24' 44.031 N	103° 41' 55.178 W
6,900.0	8.00	350.80	6,862.4	549.6	-89.0	11,767,952.20	2,041,889.32	32° 24' 44.167 N	103° 41' 55.204 W
7,000.0	8.00	350.80	6,961.4	563.4	-91.2	11,767,965.91	2,041,886.93	32° 24' 44.303 N	103° 41' 55.230 W
7,100.0	7.00	350.80	7,060.5	576.2	-93.3	11,767,978.77	2,041,884.68	32° 24' 44.431 N	103° 41' 55.254 W
7,200.0	6.00	350.80	7,159.9	587.4	-95.1	11,767,989.92	2,041,882.74	32° 24' 44.541 N	103° 41' 55.276 W
7,300.0	5.00	350.80	7,259.4	596.9	-96.7	11,767,999.36	2,041,881.09	32° 24' 44.635 N	103° 41' 55.293 W
7,400.0	4.00	350.80	7,359.1	604.6	-97.9	11,768,007.09	2,041,879.74	32° 24' 44.712 N	103° 41' 55.308 W
7,500.0	3.00	350.80	7,458.9	610.7	-98.9	11,768,013.10	2,041,878.69	32° 24' 44.771 N	103° 41' 55.320 W
7,600.0	2.00	350.80	7,558.8	615.0	-99.6	11,768,017.40	2,041,877.94	32° 24' 44.814 N	103° 41' 55.328 W
7,700.0	1.00	350.80	7,658.8	617.5	-100.0	11,768,019.98	2,041,877.49	32° 24' 44.840 N	103° 41' 55.333 W
7,800.0	0.00	0.00	7,758.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
7,900.0	0.00	0.00	7,858.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
8,000.0	0.00	0.00	7,958.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
8,100.0	0.00	0.00	8,058.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
8,200.0	0.00	0.00	8,158.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
8,300.0	0.00	0.00	8,258.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
8,400.0	0.00	0.00	8,358.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
8,500.0	0.00	0.00	8,458.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
8,600.0	0.00	0.00	8,558.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
8,700.0	0.00	0.00	8,658.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
8,800.0	0.00	0.00	8,758.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
8,900.0	0.00	0.00	8,858.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
9,000.0	0.00	0.00	8,958.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
9,100.0	0.00	0.00	9,058.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
9,200.0	0.00	0.00	9,158.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
9,300.0	0.00	0.00	9,258.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
9,400.0	0.00	0.00	9,358.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
9,500.0	0.00	0.00	9,458.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
9,600.0	0.00	0.00	9,558.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
9,700.0	0.00	0.00	9,658.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
9,800.0	0.00	0.00	9,758.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
9,900.0	0.00	0.00	9,858.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
10,000.0	0.00	0.00	9,958.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
10,100.0	0.00	0.00	10,058.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
10,200.0	0.00	0.00	10,158.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
10,300.0	0.00	0.00	10,258.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
10,400.0	0.00	0.00	10,358.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
10,500.0	0.00	0.00	10,458.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
10,600.0	0.00	0.00	10,558.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
10,700.0	0.00	0.00	10,658.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
10,800.0	0.00	0.00	10,758.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
10,900.0	0.00	0.00	10,858.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
11,000.0	0.00	0.00	10,958.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
11,100.0	0.00	0.00	11,058.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
11,200.0	0.00	0.00	11,158.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
11,300.0	0.00	0.00	11,258.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
11,400.0	0.00	0.00	11,358.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
11,415.0	0.00	0.00	11,373.8	618.4	-100.2	11,768,020.84	2,041,877.34	32° 24' 44.848 N	103° 41' 55.334 W
11,500.0	8.50	359.95	11,458.5	624.7	-100.2	11,768,027.13	2,041,877.26	32° 24' 44.910 N	103° 41' 55.334 W
11,600.0	18.50	359.95	11,555.6	648.0	-100.2	11,768,050.44	2,041,876.96	32° 24' 45.141 N	103° 41' 55.334 W
11,700.0	28.50	359.95	11,647.2	687.8	-100.2	11,768,090.27	2,041,876.44	32° 24' 45.535 N	103° 41' 55.335 W
11,800.0	38.50	359.95	11,730.5	743.0	-100.3	11,768,145.38	2,041,875.72	32° 24' 46.081 N	103° 41' 55.335 W
11,900.0	48.50	359.95	11,802.9	811.7	-100.3	11,768,214.13	2,041,874.82	32° 24' 46.761 N	103° 41' 55.336 W
12,000.0	58.50	359.95	11,862.3	892.0	-100.4	11,768,294.40	2,041,873.77	32° 24' 47.556 N	103° 41' 55.337 W

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well MOZZARELLA FED COM 702H
Project:	LEA	TVD Reference:	RKB=3704+25 @ 3729.0usft
Site:	MOZZARELLA	MD Reference:	RKB=3704+25 @ 3729.0usft
Well:	MOZZARELLA FED COM 702H	North Reference:	True
Wellbore:	MOZZARELLA FED COM 702H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Centennial EDM SQL Server

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
12,100.0	68.50	359.95	11,906.9	981.4	-100.5	11,768,383.78	2,041,872.61	32° 24' 48.440 N	103° 41' 55.338 W	
12,200.0	78.50	359.95	11,935.3	1,077.1	-100.6	11,768,479.53	2,041,871.36	32° 24' 49.388 N	103° 41' 55.339 W	
12,300.0	88.50	359.95	11,946.6	1,176.4	-100.6	11,768,578.75	2,041,870.06	32° 24' 50.370 N	103° 41' 55.340 W	
12,315.0	90.00	359.95	11,946.8	1,191.4	-100.7	11,768,593.75	2,041,869.86	32° 24' 50.519 N	103° 41' 55.340 W	
12,400.0	90.00	359.95	11,946.8	1,276.4	-100.7	11,768,678.74	2,041,868.76	32° 24' 51.360 N	103° 41' 55.341 W	
12,500.0	90.00	359.95	11,946.8	1,376.4	-100.8	11,768,778.73	2,041,867.45	32° 24' 52.350 N	103° 41' 55.342 W	
12,600.0	90.00	359.95	11,946.8	1,476.4	-100.9	11,768,878.72	2,041,866.15	32° 24' 53.339 N	103° 41' 55.343 W	
12,700.0	90.00	359.95	11,946.8	1,576.4	-101.0	11,768,978.72	2,041,864.84	32° 24' 54.329 N	103° 41' 55.344 W	
12,800.0	90.00	359.95	11,946.8	1,676.4	-101.1	11,769,078.71	2,041,863.54	32° 24' 55.319 N	103° 41' 55.345 W	
12,900.0	90.00	359.95	11,946.8	1,776.4	-101.2	11,769,178.70	2,041,862.23	32° 24' 56.308 N	103° 41' 55.346 W	
13,000.0	90.00	359.95	11,946.8	1,876.4	-101.3	11,769,278.69	2,041,860.93	32° 24' 57.298 N	103° 41' 55.347 W	
13,100.0	90.00	359.95	11,946.8	1,976.4	-101.3	11,769,378.68	2,041,859.62	32° 24' 58.288 N	103° 41' 55.348 W	
13,200.0	90.00	359.95	11,946.8	2,076.4	-101.4	11,769,478.67	2,041,858.31	32° 24' 59.277 N	103° 41' 55.349 W	
13,300.0	90.00	359.95	11,946.8	2,176.4	-101.5	11,769,578.66	2,041,857.01	32° 25' 0.267 N	103° 41' 55.350 W	
13,400.0	90.00	359.95	11,946.8	2,276.4	-101.6	11,769,678.66	2,041,855.70	32° 25' 1.257 N	103° 41' 55.351 W	
13,500.0	90.00	359.95	11,946.8	2,376.4	-101.7	11,769,778.65	2,041,854.40	32° 25' 2.247 N	103° 41' 55.352 W	
13,600.0	90.00	359.95	11,946.8	2,476.4	-101.8	11,769,878.64	2,041,853.09	32° 25' 3.236 N	103° 41' 55.353 W	
13,700.0	90.00	359.95	11,946.8	2,576.4	-101.9	11,769,978.63	2,041,851.79	32° 25' 4.226 N	103° 41' 55.354 W	
13,800.0	90.00	359.95	11,946.8	2,676.4	-102.0	11,770,078.62	2,041,850.48	32° 25' 5.216 N	103° 41' 55.355 W	
13,900.0	90.00	359.95	11,946.8	2,776.4	-102.0	11,770,178.61	2,041,849.18	32° 25' 6.205 N	103° 41' 55.356 W	
14,000.0	90.00	359.95	11,946.8	2,876.4	-102.1	11,770,278.60	2,041,847.87	32° 25' 7.195 N	103° 41' 55.357 W	
14,100.0	90.00	359.95	11,946.8	2,976.4	-102.2	11,770,378.60	2,041,846.57	32° 25' 8.185 N	103° 41' 55.358 W	
14,200.0	90.00	359.95	11,946.8	3,076.4	-102.3	11,770,478.59	2,041,845.26	32° 25' 9.174 N	103° 41' 55.359 W	
14,300.0	90.00	359.95	11,946.8	3,176.4	-102.4	11,770,578.58	2,041,843.96	32° 25' 10.164 N	103° 41' 55.360 W	
14,400.0	90.00	359.95	11,946.8	3,276.4	-102.5	11,770,678.57	2,041,842.65	32° 25' 11.154 N	103° 41' 55.361 W	
14,500.0	90.00	359.95	11,946.8	3,376.4	-102.6	11,770,778.56	2,041,841.35	32° 25' 12.144 N	103° 41' 55.362 W	
14,600.0	90.00	359.95	11,946.8	3,476.4	-102.7	11,770,878.55	2,041,840.04	32° 25' 13.133 N	103° 41' 55.363 W	
14,700.0	90.00	359.95	11,946.8	3,576.4	-102.7	11,770,978.54	2,041,838.74	32° 25' 14.123 N	103° 41' 55.364 W	
14,800.0	90.00	359.95	11,946.8	3,676.4	-102.8	11,771,078.54	2,041,837.43	32° 25' 15.113 N	103° 41' 55.365 W	
14,900.0	90.00	359.95	11,946.8	3,776.4	-102.9	11,771,178.53	2,041,836.13	32° 25' 16.102 N	103° 41' 55.366 W	
15,000.0	90.00	359.95	11,946.8	3,876.4	-103.0	11,771,278.52	2,041,834.82	32° 25' 17.092 N	103° 41' 55.367 W	
15,100.0	90.00	359.95	11,946.8	3,976.4	-103.1	11,771,378.51	2,041,833.52	32° 25' 18.082 N	103° 41' 55.368 W	
15,200.0	90.00	359.95	11,946.8	4,076.4	-103.2	11,771,478.50	2,041,832.21	32° 25' 19.071 N	103° 41' 55.369 W	
15,300.0	90.00	359.95	11,946.8	4,176.4	-103.3	11,771,578.49	2,041,830.91	32° 25' 20.061 N	103° 41' 55.370 W	
15,400.0	90.00	359.95	11,946.8	4,276.4	-103.4	11,771,678.49	2,041,829.60	32° 25' 21.051 N	103° 41' 55.371 W	
15,500.0	90.00	359.95	11,946.8	4,376.4	-103.4	11,771,778.48	2,041,828.30	32° 25' 22.041 N	103° 41' 55.373 W	
15,600.0	90.00	359.95	11,946.8	4,476.4	-103.5	11,771,878.47	2,041,826.99	32° 25' 23.030 N	103° 41' 55.374 W	
15,700.0	90.00	359.95	11,946.8	4,576.4	-103.6	11,771,978.46	2,041,825.69	32° 25' 24.020 N	103° 41' 55.375 W	
15,800.0	90.00	359.95	11,946.8	4,676.4	-103.7	11,772,078.45	2,041,824.38	32° 25' 25.010 N	103° 41' 55.376 W	
15,900.0	90.00	359.95	11,946.8	4,776.4	-103.8	11,772,178.44	2,041,823.08	32° 25' 25.999 N	103° 41' 55.377 W	
16,000.0	90.00	359.95	11,946.8	4,876.4	-103.9	11,772,278.43	2,041,821.77	32° 25' 26.989 N	103° 41' 55.378 W	
16,100.0	90.00	359.95	11,946.8	4,976.4	-104.0	11,772,378.43	2,041,820.47	32° 25' 27.979 N	103° 41' 55.379 W	
16,200.0	90.00	359.95	11,946.8	5,076.4	-104.0	11,772,478.42	2,041,819.16	32° 25' 28.968 N	103° 41' 55.380 W	
16,300.0	90.00	359.95	11,946.8	5,176.4	-104.1	11,772,578.41	2,041,817.86	32° 25' 29.958 N	103° 41' 55.381 W	
16,400.0	90.00	359.95	11,946.8	5,276.4	-104.2	11,772,678.40	2,041,816.55	32° 25' 30.948 N	103° 41' 55.382 W	
16,500.0	90.00	359.95	11,946.8	5,376.4	-104.3	11,772,778.39	2,041,815.25	32° 25' 31.938 N	103° 41' 55.383 W	
16,600.0	90.00	359.95	11,946.8	5,476.4	-104.4	11,772,878.38	2,041,813.94	32° 25' 32.927 N	103° 41' 55.384 W	
16,700.0	90.00	359.95	11,946.8	5,576.4	-104.5	11,772,978.37	2,041,812.64	32° 25' 33.917 N	103° 41' 55.385 W	
16,800.0	90.00	359.95	11,946.8	5,676.4	-104.6	11,773,078.37	2,041,811.33	32° 25' 34.907 N	103° 41' 55.386 W	
16,900.0	90.00	359.95	11,946.8	5,776.4	-104.7	11,773,178.36	2,041,810.03	32° 25' 35.896 N	103° 41' 55.387 W	
17,000.0	90.00	359.95	11,946.8	5,876.4	-104.7	11,773,278.35	2,041,808.72	32° 25' 36.886 N	103° 41' 55.388 W	
17,100.0	90.00	359.95	11,946.8	5,976.4	-104.8	11,773,378.34	2,041,807.42	32° 25' 37.876 N	103° 41' 55.389 W	
17,200.0	90.00	359.95	11,946.8	6,076.4	-104.9	11,773,478.33	2,041,806.11	32° 25' 38.865 N	103° 41' 55.390 W	
17,300.0	90.00	359.95	11,946.8	6,176.4	-105.0	11,773,578.32	2,041,804.81	32° 25' 39.855 N	103° 41' 55.391 W	
17,400.0	90.00	359.95	11,946.8	6,276.4	-105.1	11,773,678.31	2,041,803.50	32° 25' 40.845 N	103° 41' 55.392 W	

Company: NEW MEXICO	Local Co-ordinate Reference: Well MOZZARELLA FED COM 702H
Project: LEA	TVD Reference: RKB=3704+25 @ 3729.0usft
Site: MOZZARELLA	MD Reference: RKB=3704+25 @ 3729.0usft
Well: MOZZARELLA FED COM 702H	North Reference: True
Wellbore: MOZZARELLA FED COM 702H	Survey Calculation Method: Minimum Curvature
Design: PWPO	Database: Centennial EDM SQL Server

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
17,500.0	90.00	359.95	11,946.8	6,376.4	-105.2	11,773,778.31	2,041,802.20	32° 25' 41.834 N	103° 41' 55.393 W
17,600.0	90.00	359.95	11,946.8	6,476.4	-105.3	11,773,878.30	2,041,800.89	32° 25' 42.824 N	103° 41' 55.394 W
17,700.0	90.00	359.95	11,946.8	6,576.4	-105.4	11,773,978.29	2,041,799.59	32° 25' 43.814 N	103° 41' 55.395 W
17,800.0	90.00	359.95	11,946.8	6,676.4	-105.4	11,774,078.28	2,041,798.28	32° 25' 44.804 N	103° 41' 55.396 W
17,900.0	90.00	359.95	11,946.8	6,776.4	-105.5	11,774,178.27	2,041,796.97	32° 25' 45.793 N	103° 41' 55.397 W
18,000.0	90.00	359.95	11,946.8	6,876.4	-105.6	11,774,278.26	2,041,795.67	32° 25' 46.783 N	103° 41' 55.398 W
18,100.0	90.00	359.95	11,946.8	6,976.4	-105.7	11,774,378.26	2,041,794.36	32° 25' 47.773 N	103° 41' 55.399 W
18,200.0	90.00	359.95	11,946.8	7,076.4	-105.8	11,774,478.25	2,041,793.06	32° 25' 48.762 N	103° 41' 55.400 W
18,300.0	90.00	359.95	11,946.8	7,176.4	-105.9	11,774,578.24	2,041,791.75	32° 25' 49.752 N	103° 41' 55.401 W
18,400.0	90.00	359.95	11,946.8	7,276.4	-106.0	11,774,678.23	2,041,790.45	32° 25' 50.742 N	103° 41' 55.402 W
18,500.0	90.00	359.95	11,946.8	7,376.4	-106.1	11,774,778.22	2,041,789.14	32° 25' 51.731 N	103° 41' 55.403 W
18,600.0	90.00	359.95	11,946.8	7,476.4	-106.1	11,774,878.21	2,041,787.84	32° 25' 52.721 N	103° 41' 55.404 W
18,700.0	90.00	359.95	11,946.8	7,576.4	-106.2	11,774,978.20	2,041,786.53	32° 25' 53.711 N	103° 41' 55.405 W
18,800.0	90.00	359.95	11,946.8	7,676.4	-106.3	11,775,078.20	2,041,785.23	32° 25' 54.701 N	103° 41' 55.406 W
18,900.0	90.00	359.95	11,946.8	7,776.4	-106.4	11,775,178.19	2,041,783.92	32° 25' 55.690 N	103° 41' 55.407 W
19,000.0	90.00	359.95	11,946.8	7,876.4	-106.5	11,775,278.18	2,041,782.62	32° 25' 56.680 N	103° 41' 55.408 W
19,100.0	90.00	359.95	11,946.8	7,976.4	-106.6	11,775,378.17	2,041,781.31	32° 25' 57.670 N	103° 41' 55.409 W
19,200.0	90.00	359.95	11,946.8	8,076.4	-106.7	11,775,478.16	2,041,780.01	32° 25' 58.659 N	103° 41' 55.410 W
19,300.0	90.00	359.95	11,946.8	8,176.4	-106.8	11,775,578.15	2,041,778.70	32° 25' 59.649 N	103° 41' 55.411 W
19,400.0	90.00	359.95	11,946.8	8,276.4	-106.8	11,775,678.14	2,041,777.40	32° 26' 0.639 N	103° 41' 55.412 W
19,500.0	90.00	359.95	11,946.8	8,376.4	-106.9	11,775,778.13	2,041,776.09	32° 26' 1.628 N	103° 41' 55.413 W
19,600.0	90.00	359.95	11,946.8	8,476.4	-107.0	11,775,878.13	2,041,774.79	32° 26' 2.618 N	103° 41' 55.414 W
19,700.0	90.00	359.95	11,946.8	8,576.4	-107.1	11,775,978.12	2,041,773.48	32° 26' 3.608 N	103° 41' 55.415 W
19,800.0	90.00	359.95	11,946.8	8,676.4	-107.2	11,776,078.11	2,041,772.18	32° 26' 4.598 N	103° 41' 55.416 W
19,900.0	90.00	359.95	11,946.8	8,776.4	-107.3	11,776,178.10	2,041,770.87	32° 26' 5.587 N	103° 41' 55.417 W
20,000.0	90.00	359.95	11,946.8	8,876.4	-107.4	11,776,278.09	2,041,769.57	32° 26' 6.577 N	103° 41' 55.418 W
20,100.0	90.00	359.95	11,946.8	8,976.4	-107.5	11,776,378.09	2,041,768.26	32° 26' 7.567 N	103° 41' 55.419 W
20,200.0	90.00	359.95	11,946.8	9,076.4	-107.5	11,776,478.08	2,041,766.96	32° 26' 8.556 N	103° 41' 55.420 W
20,300.0	90.00	359.95	11,946.8	9,176.4	-107.6	11,776,578.07	2,041,765.65	32° 26' 9.546 N	103° 41' 55.421 W
20,400.0	90.00	359.95	11,946.8	9,276.4	-107.7	11,776,678.06	2,041,764.35	32° 26' 10.536 N	103° 41' 55.422 W
20,500.0	90.00	359.95	11,946.8	9,376.4	-107.8	11,776,778.05	2,041,763.04	32° 26' 11.525 N	103° 41' 55.423 W
20,600.0	90.00	359.95	11,946.8	9,476.4	-107.9	11,776,878.04	2,041,761.74	32° 26' 12.515 N	103° 41' 55.424 W
20,700.0	90.00	359.95	11,946.8	9,576.4	-108.0	11,776,978.03	2,041,760.43	32° 26' 13.505 N	103° 41' 55.425 W
20,800.0	90.00	359.95	11,946.8	9,676.4	-108.1	11,777,078.03	2,041,759.13	32° 26' 14.494 N	103° 41' 55.426 W
20,900.0	90.00	359.95	11,946.8	9,776.4	-108.2	11,777,178.02	2,041,757.82	32° 26' 15.484 N	103° 41' 55.427 W
21,000.0	90.00	359.95	11,946.8	9,876.4	-108.2	11,777,278.01	2,041,756.52	32° 26' 16.474 N	103° 41' 55.428 W
21,100.0	90.00	359.95	11,946.8	9,976.4	-108.3	11,777,378.00	2,041,755.21	32° 26' 17.464 N	103° 41' 55.429 W
21,200.0	90.00	359.95	11,946.8	10,076.4	-108.4	11,777,477.99	2,041,753.91	32° 26' 18.453 N	103° 41' 55.430 W
21,300.0	90.00	359.95	11,946.8	10,176.4	-108.5	11,777,577.98	2,041,752.60	32° 26' 19.443 N	103° 41' 55.431 W
21,400.0	90.00	359.95	11,946.8	10,276.4	-108.6	11,777,677.97	2,041,751.30	32° 26' 20.433 N	103° 41' 55.432 W
21,500.0	90.00	359.95	11,946.8	10,376.4	-108.7	11,777,777.97	2,041,749.99	32° 26' 21.422 N	103° 41' 55.433 W
21,600.0	90.00	359.95	11,946.8	10,476.4	-108.8	11,777,877.96	2,041,748.69	32° 26' 22.412 N	103° 41' 55.434 W
21,700.0	90.00	359.95	11,946.8	10,576.4	-108.8	11,777,977.95	2,041,747.38	32° 26' 23.402 N	103° 41' 55.435 W
21,800.0	90.00	359.95	11,946.8	10,676.4	-108.9	11,778,077.94	2,041,746.08	32° 26' 24.391 N	103° 41' 55.436 W
21,900.0	90.00	359.95	11,946.8	10,776.4	-109.0	11,778,177.93	2,041,744.77	32° 26' 25.381 N	103° 41' 55.437 W
22,000.0	90.00	359.95	11,946.8	10,876.4	-109.1	11,778,277.92	2,041,743.47	32° 26' 26.371 N	103° 41' 55.438 W
22,100.0	90.00	359.95	11,946.8	10,976.4	-109.2	11,778,377.91	2,041,742.16	32° 26' 27.361 N	103° 41' 55.439 W
22,200.0	90.00	359.95	11,946.8	11,076.4	-109.3	11,778,477.91	2,041,740.86	32° 26' 28.350 N	103° 41' 55.441 W
22,300.0	90.00	359.95	11,946.8	11,176.4	-109.4	11,778,577.90	2,041,739.55	32° 26' 29.340 N	103° 41' 55.442 W
22,400.0	90.00	359.95	11,946.8	11,276.4	-109.5	11,778,677.89	2,041,738.25	32° 26' 30.330 N	103° 41' 55.443 W
22,500.0	90.00	359.95	11,946.8	11,376.4	-109.5	11,778,777.88	2,041,736.94	32° 26' 31.319 N	103° 41' 55.444 W
22,529.2	90.00	359.95	11,946.8	11,405.5	-109.6	11,778,807.04	2,041,736.56	32° 26' 31.608 N	103° 41' 55.444 W

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well MOZZARELLA FED COM 702H
Project:	LEA	TVD Reference:	RKB=3704+25 @ 3729.0usft
Site:	MOZZARELLA	MD Reference:	RKB=3704+25 @ 3729.0usft
Well:	MOZZARELLA FED COM 702H	North Reference:	True
Wellbore:	MOZZARELLA FED COM 702H	Survey Calculation Method:	Minimum Curvature
Design:	PWP0	Database:	Centennial EDM SQL Server

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - MOZZARELLA FE - hit/miss target - Shape	0.00	0.00	11,949.0	1,053.0	-99.8	11,768,455.38	2,041,872.37	32° 24' 49.149 N	103° 41' 55.331 W
- plan misses target center by 18.7usft at 12180.7usft MD (11931.1 TVD, 1058.3 N, -100.5 E)									
- Circle (radius 50.0)									
LTP - MOZZARELLA FE	0.00	0.00	11,949.0	11,405.5	-109.1	11,778,807.04	2,041,737.07	32° 26' 31.608 N	103° 41' 55.438 W
- plan misses target center by 2.3usft at 22529.2usft MD (11946.8 TVD, 11405.5 N, -109.6 E)									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
900.0	900.0	13 3/8"	13-3/8	17-1/2
11,291.2	11,250.0	7.625	7-5/8	9-7/8
22,529.0	11,946.8	5 1/2"	5-1/2	6-3/4

Checked By: _____ Approved By: _____ Date: _____



APD ID: 10400041204

Submission Date: 04/26/2019

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: MOZZARELLA FEDERAL COM

Well Number: 702H

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: MOZZARELLA FEDERAL COM

Well Number: 702H

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: MOZZARELLA FEDERAL COM

Well Number: 702H

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: MOZZARELLA FEDERAL COM

Well Number: 702H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

01/06/2020

APD ID: 10400041204

Submission Date: 04/26/2019

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: MOZZARELLA FEDERAL COM

Well Number: 702H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001471

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: