UNITED STATES

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

5.	Lease	Serial No.	

DEPARTMENT OF THE BUREAU OF LAND MAN			SEMETER S	5. Lease Serial No. NMNM131588		
APPLICATION FOR PERMIT TO			REMITER	6. If Indian, Allotee	or Tribe	Name
la. Type of work: DRILL	REENT	ER	REPOTER AND	7. If Unit or CA Ag	respent,	Name and No.
1b. Type of Well: Oil Well Gas Well	Other			8. Lease Name and	Well No.	
1c. Type of Completion: Hydraulic Fracturing	Single 2	Zone [Multiple Zone	MOZZARELLA	ZOERAL 3-1	COM
						
2. Name of Operator CENTENNIAL RESOURCE PRODUCTION LLQ 372	-164	-)		9. API-Well No.	a de	46741
3a. Address 1001 17th Street, Suite 1800 Denver CO 80202	_	Phone N)499-14	o. (include area code) 400	Field and Pool, 3RD BONE SPRI		
4. Location of Well (Report location clearly and in accordance	`	·		11. See T. R. M. o		
At surface NENW / 954 FNL / 2189 FWL / LAT 32.41		•		SEC 8 / 1228 / RS		
At proposed prod. zone NWNE / 100 FNL / 2589 FEL /						
14. Distance in miles and direction from nearest town or post of 44 miles				12. County or Paris LEA	sh	13. State NM
15. Distance from proposed* 954 feet	16.1	No of ac	eres in leave 17. Spa	Unit dedicated to	this well	
property or lease line, ft.	886.	41	320	•		
(Also to nearest drig. unit line, if any) 18. Distance from proposed location*	19.	Progesse	d Depth AM /BL	M/BIA Bond No. in file		
to nearest well, drilling, completed, 30 feet applied for, on this lease, ft.	1			MB001471		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)			mate date work will start*	23. Estimated durat	tion	
3704 feet		19/2020	· · · · · · · · · · · · · · · · · · ·	45 days		
	_		hments			
The following, completed in accordance with the requirements (as applicable)	of Ons	one Oil	and Gas Order No. 1, and the	Hydraulic Fracturing	rule per 4	3 CFR 3162.3-3
Well plat certified by a registered surveyor. A Drilling Plan.		•	4. Bond to cover the operation Item 20 above).	ons unless covered by a	n existing	g bond on file (see
3. A Surface Use Plan (if the location is on National Forest Sus SUPO must be filed with the appropriate Forest Service Office		ids, the	Operator certification. Such other site specific in: BLM.	formation and/or plans a	s may be	requested by the
25. Signature (Electronic Submission)			(Printed/Typed) a Schlichting / Ph: (720)49	9-1537	Date 04/26/2	2019
Title Sr. Regulatory <u>Ana</u> lyst						
Approved by Signature) (Electronic Submission)			(Printed/Typed) opher Walls / Ph: (575)234	1-2234	Date 01/06/2	2020
Title Petroleum Engineer		Office	SBAD			
Application approval does not vegetant or certify that the applicant to conduct operations decreon. Conditions of approval. Learny are attached.	ant hold	ls legal o	or equitable title to those righ	ts in the subject lease v	vhich wou	ald entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, of the United States any false, fictitious or fraudulent statement				ts jurisdiction.		· ·
5cl dec 01/10/2020				Kenl	2020	
			TOTAL TIONS	oi M	r	
			en conditions	3 . "		

NIL

(Continued on page 2)

Approval Date: 01/06/2020

REQUIRES NSL *(Instructions on page 2)

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Centennial Resource Production LLC

LEASE NO.: | NMNM131588

WELL NAME & NO.: | MOZZARELLA FEDERAL COM 603H

SURFACE HOLE FOOTAGE: 954'/N & 2189'/W BOTTOM HOLE FOOTAGE 100'/N & 2589'/E

LOCATION: | Section 8, T.22 S., R.32 E., NMP

COUNTY: | Lea County, New Mexico

COA

H2S	• Yes	€ No	
Potash	None	© Secretary	C R-111-P
Cave/Karst Potential	€ Low		C High
Cave/Karst Potential	Critical		
Variance	None	Flex Hose	C Other
Wellhead	Conventional	Multibowl ■ Multi	C Both
Other		Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	Water Disposal	▼ . COM	□ Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **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 915 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of

24 hours in the Potash Area or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate Casing must be kept at least 1/3 fluid filled to meet BLM Collaspe Requirement.

- 2. The minimum required fill of cement behind the 9-5/8 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 <u>Secretary Potash Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 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 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 CountyCall the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

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

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.

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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.

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- 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).

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Approval Date: 01/06/2020

- 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.

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Approval Date: 01/06/2020



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

Operator Certification Data Report

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Kanicia Schlichting

Signed on: 06/28/2017

Title: Sr. Regulatory Analyst

Street Address:

City:

State:

Zip:

Phone: (720)499-1537

Email address: Kanicia.schlichting@cdevinc.com

Field Representative

Representative Name:

Street Address: 400 W ILLINOIS AVE, SUITE 1601

City: MIDLAND

State: TX

Zip: 79701

Phone: (432)315-0106

Email address: kevan.eddy@centennialresource.com



APD ID: 10400040908

Well Type: OIL WELL

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



Submission Date: 04/26/2019

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: MOZZARELLA FEDERAL COM

Well Number: 603H

Well Work Type: Drill



Show Final Text

Section 1 - General

APD ID:

10400040908

Tie to previous NOS? N

Submission Date: 04/26/2019

BLM Office: CARLSBAD

User: Kanicia Schlichting

Title: Sr. Regulatory Analyst

Federal/Indian APD: FED

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

Lease number: NMNM131588

Lease Acres: 886.41

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: CENTENNIAL RESOURCE PRODUCTION LLC

Operator letter of designation:

Operator Info

Operator Organization Name: CENTENNIAL RESOURCE PRODUCTION LLC

Operator Address: 1001 17th Street, Suite 1800

Operator PO Box:

Zip: 80202

Operator City: Denver

State: CO

Operator Phone: (720)499-1400

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: MOZZARELLA FEDERAL COM

Well Number: 603H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: 3RD BONE

Pool Name: BILBREY BASIN; BONE SPRING

le the proposed well in an area containing other mineral resources? POTASH

Well Name: MOZZARELLA FEDERAL COM Well Number: 603H

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

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

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

MOZZARELLA DRILL ISLAND

Number: 1

Well Class: HORIZONTAL

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: EVALUATION

Describe sub-type:

Distance to town: 44 Miles

Distance to nearest well: 30 FT

Distance to lease line: 954 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat:

MOZZARELLA_FED_COM_603H_Revised_Lease_Plat_20190423154125.pdf

MOZZARELLA_FED_COM_603H_Revised_C102_20190425091649.pdf

Well work start Date: 03/09/2020

Duration: 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 23782

Reference Datum:

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	DVT	Will this well produce from this lease?
SHL Leg #1	954	FNL	218 9	FW L	228	32E	-	Aliquot NENW	32.41075 8	- 103.6982 82	LEA	NEW MEXI CO	14-44		NMNM 069373	370 4	0	0	
KOP Leg #1	954	FNL	218 9	FW L	228	32E	Ι -	Aliquot NENW	32.41075 8	- 103.6982 82	LEA	li .	NEW MEXI CO		NMNM 069373	- 747 7	112 25	111 81	

Well Name: MOZZARELLA FEDERAL COM

Well Number: 603H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	dvT	Will this well produce from this lease?
PPP Leg #1-1	264 1	FNL	258 8	FEL	228	32E	5	Aliquot SWNE	32.42064 7	- 103.6966 58	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 131588	- 805 0	145 78	117 54	
PPP Leg #1-2	100	FSL	258 9	FEL	228	32E	5		32.41366 4	- 103.6966 5	LEA	NEW MEXI CO	• • — • •	S	STATE	- 805 0	121 25	117 54	
EXIT Leg #1	100	FNL	258 9	FEL	21\$	32E	32	Aliquot NWNE	32.44212 1	- 103.6966 82	LEA	NEW MEXI CO	1 - 1 - 1	S	STATE	- 804 6	223 87	117 50	
BHL Leg #1	100	FNL	258 9	FEL	21S	32E	32	Aliquot NWNE	32.44212 1	- 103.6966 82	LEA	NEW MEXI CO		s	STATE	- 804 6	223 87	117 50	



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

Drilling Plan Data Report

APD ID: 10400040908 Submission Date: 04/26/2019

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: MOZZARELLA FEDERAL COM

Well Number: 603H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

liograph bot			ing Vertical	Mores, cos			Procuding
		Freggion'		Dapä.	1 (2) (3) (3) (3) (3) (3)		
439863	RUSTLER	3584	712	712	SANDSTONE	NONE	N
439864	CAPITAN REEF	-1102	4686	4686 -	OTHER : Carbonate	USEABLE WATER	N
439866	BELL CANYON	-1174	4758	4758	SANDSTONE	NATURAL GAS, OIL	N
439867	CHERRY CANYON	-2010	5594	5594	SANDSTONE	NATURAL GAS, OIL	N
439868	BRUSHY CANYON	-3350	6934	6934	SANDSTONE	NATURAL GAS, OIL	N
439870	BONE SPRING LIME	-5051	8635	8635	OTHER : Carbonate	NATURAL GAS, OIL	N
439871	AVALON SAND	-5243	8827	8827	SHALE	CO2, NATURAL GAS, OIL	N
439872	BONE SPRING 1ST	-6157	9741	9741	LIMESTONE, SANDSTONE	NATURAL GAS, OIL	N
439873	BONE SPRING 2ND	-6410	9994	9994	OTHER, SHALE : Carbonate	NATURAL GAS, OIL	N
439874	BONE SPRING 3RD	-7821	11405	11405	SANDSTONE	NATURAL GAS, OIL	Ÿ

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 11750

Equipment: The BOP and related equipment will meet or exceed the requirements of a 5M-psi system as set forth in On Shore Order No. 2. See attached BOP Schematic. A. Casinghead: 13 5/8" – 5,000 psi SOW x 13" – 5,000 psi WP Intermediate Spool: 13" – 5,000 psi WP x 11" – 5,000 psi WP Tubinghead: 11" – 5,000 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 BOPE connections subjected to well pressure shall be flanged, welded, or clamped • Fill-up line above the uppermost preventer. C. Auxiliary Equipment • Audio and visual mud monitoring equipment shall be placed to detect volume changes

Well Name: MOZZARELLA FEDERAL COM Well Number: 603H

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. 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 5,000 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 50% 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 5,000 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 20190418080247.pdf

BOP Diagram Attachment:

HP618_BOP_Drawing_20191122083955.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	CONDUCT OR	26	20.0	NEW	API	N	0	120	0	120	3704	3584	120	H-40	ı	OTHER - Weld						
2	SURFACE	17.5	13.375	NEW	API	N	0	1300	0	1300	3704	2404	1300	J-55		OTHER - BTC	1.76	4.26	DRY	12.0 4	DRY	12.0 4
		12.2 5	9.625	NEW	API	N	0	4668	0	4650	3704	-947	4668	J-55	40	LT&C	1.51	1.64	DRY	2.8	BUOY	3.39
4	PRODUCTI ON	8.5	5.5	NEW	API	N	0	11225	0	11181	3704	-7478	11225	P- 110		OTHER - TMK UP DQX	1.74	1.98	DRY	2.87	DRY	2.87
5	PRODUCTI ON	8.5	5.5	NEW	API	N	11225	22387	11181	11750	-7478	-8047	11162	P- 110	1	OTHER - TMK UP DQX	1.65	1.88	DRY	56.3 3	DRY	56.3 3

Well Name: MOZZARELLA FE	DERAL COM Well Number: 603H	
Casing Attachments		
Casing ID: 1	String Type:CONDUCTOR	
Spec Document:		
Tapered String Spec:		
Casing Design Assumptio	ns and Worksheet(s):	
Cheddar_2BS_Fed_C	com_1H_Casing_Assumptions_06-09-2017.pdf	·
Casing ID: 2	String Type:SURFACE	
Spec Document:		
Tapered String Spec:		
Casing Design Assumption CASING_ASSUMPTI	ons and Worksheet(s): ONS_WORKSHEET_20190418130015.pdf	
Casing ID: 3	String Type: INTERMEDIATE	
Spec Document:		
Tapered String Spec:		
Casing Design Assumption	ons and Worksheet(s): ONS_WORKSHEET_20190418130039.pdf	•

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC Well Name: MOZZARELLA FEDERAL COM Well Number: 603H **Casing Attachments** Casing ID: 4 **String Type:**PRODUCTION **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): CASING ASSUMPTIONS WORKSHEET 20190418130050.pdf Casing ID: 5 **String Type:**PRODUCTION **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): CASING_ASSUMPTIONS_WORKSHEET_20190418130101.pdf Technical_Data_Sheet_TMK_UP_DQX_5.5_x_20_P110_CY_20190418130130.pdf **Section 4 - Cement** Cement type Stage Tool Depth Quantity(sx) **Bottom MD** _ead/Tail Excess% Top MD Density Cu Ft Yield **PRODUCTION** Lead CONDUCTOR 1.49 Lead

Well Name: MOZZARELLA FEDERAL COM

Well Number: 603H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead					1.74					
SURFACE	Tail										
INTERMEDIATE	Lead					3.44					
INTERMEDIATE	Tail										
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.

Well Name: MOZZARELLA FEDERAL COM

Well Number: 603H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1300	4668	OTHER : Brine	9	10							
0	1300	WATER-BASED MUD	8.6	9.5							
0	2238 7	OTHER : Brine/OBM	8.8	11						÷	

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: 6721

Anticipated Surface Pressure: 4135.12

Anticipated Bottom Hole Temperature(F): 170

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Mozzarella FC 603H_H2S_Plan_20190418132544.docx

Well Name: MOZZARELLA FEDERAL COM Well Number: 603H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

MOZZARELLA_FED_COM_603H___APD_PLAN__1_20190418132757.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.

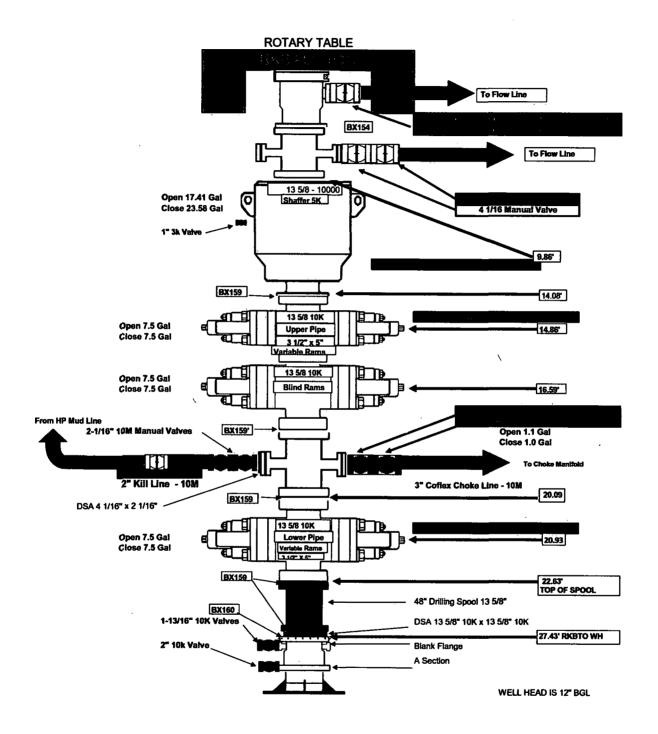
Other proposed operations facets attachment:

 $\label{local_mozzarella_federal_com_603H_702H_703H_Gas_Capture_Plan_20190426063945.} \\ \text{docx H_P_650_Flex_Hose_Specs_Continental_Hose_SN_67255_20190426064013.pdf}$

Other Variance attachment:

 $CDEV_Multi_Bowl_Procedure_Mozzarella_Fed_Com_603H_20191122083921.pdf$

H&P 618





HYDROGEN SULFIDE CONTINGENCY PLAN



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

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:

- 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. Windsocks will be installed and wind streamers (6 to 8 feet above ground level) placed at the location entrance. Windsocks 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	H₂S	1.18	10 ppm	250 ppm/1hr	600 ppm					
Sulfur Dioxide	SO ₂	2.21	20 ppm		1000 ppm					
Carbon Monoxide	СО	0.97	50 ppm	400 ppm/1hr	1000 ppm					
Carbon Dioxide	CO ₂	1.52	5000 ppm	5%	10%					
Methane	Iethane CH ₄		90000 ppm	Combustible Above 5% in Air						

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

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.

		HYDRO	GEN SULFIDE TOXICITY
	Concent	ration	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 10	00 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						
%SO ₂	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

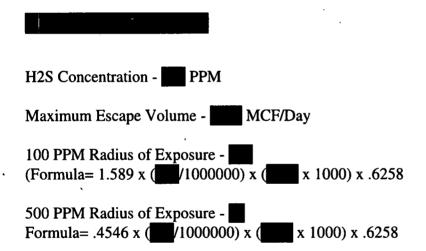
DETERMINATION OF RADIUS OF EXPOSURE

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



EMERGENCY CONTACT LIST

911 is available in the area			·						
NAME	POSITION	COMPANY	NUMBER						
	Centennial Contacts	5							
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 Compar	ny							
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						



Project: MOZZARELLA FED COM

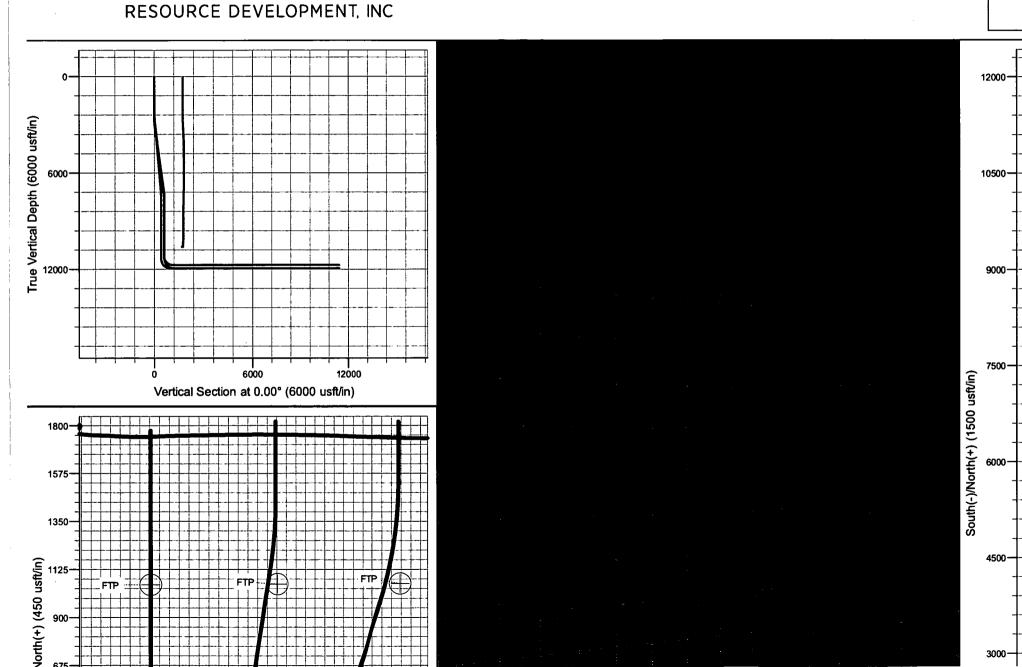
Site: MOZZARELLA FED COM

Wells: MOZZARELLA FED COM 603H_702H_703H

Design: APD PLAN

Geodetic

Syster





NEW MEXICO

LEA MOZZARELLA MOZZARELLA FED COM 603H

MOZZARELLA FED COM 603H

Plan: PWP0

Survey Report - Geographic

09 April, 2019



Survey Report - Geographic

Company: Project:

NEW MEXICO

LEA

Well:

Site:

MOZZARELLA

Wellbore:

MOZZARELLA FED COM 603H MOZZARELLA FED COM 603H

Design:

PWP0

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well MOZZARELLA FED COM 603H

Production @ 3730.0usft (3703.5+26.5) Production @ 3730.0usft (3703.5+26.5)

Minimum Curvature

Centennial EDM SQL Server

Project

LEA

Map System: Geo Datum:

Universal Transverse Mercator (US Survey Feet)

North American Datum 1983

Map Zone:

Zone 13N (108 W to 102 W)

System Datum:

Mean Sea Level

Site

MOZZARELLA

Site Position: From:

Мар

Northing: Easting:

11,767,404.24 usft

Latitude: 2,042,015.02 usft

Longitude:

32° 24' 38.729 N

Position Uncertainty:

0.0 usft

Slot Radius:

13-3/16

Grid Convergence:

103° 41' 53.816 W

0.70 °

Well

MOZZARELLA FED COM 603H

IGRF200510

Well Position

+N/-S +E/-W 0.0 usft 0.0 usft Northing:

Easting:

12/31/2009

0.0

11,767,404.24 usft 2,042,015.02 usft

7.82

Latitude: Longitude:

32° 24' 38.729 N 103° 41' 53.816 W

Position Uncertainty

0.0 usft

Wellhead Elevation:

Ground Level:

3,703.5 usft

Wellbore MOZZARELLA FED COM 603H

Magnetics

Model Name

PWP0

Sample Date

Declination (°)

Dip Angle (°)

Field Strength (nT)

48,889.45181445

Design

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.0

0.0

Vertical Section:

Depth From (TVD) (usft)

+N/-S (usft)

0.0

+E/-W (usft)

Direction (°)

60.39

0.00

Survey Tool Program

4/9/2019

From (usft)

To (usft)

Survey (Wellbore)

Tool Name

Description

0.0

22,386.3 PWP0 (MOZZARELLA FED COM 603H)

MWD+IFR1+MS

OWSG MWD + IFR1 + Multi-Station Correction

Planned Survey

Measured	leasured		Vertical			Map	Map		
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 W
100.0	0.00	0.00	100.0	- 0.0	···0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 W
200.0	0.00	0.00	200.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
300.0	0.00	0.00	300.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
400.0	0.00	0.00	400.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
500.0	0.00	0.00	500.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
600.0	0.00	0.00	600.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38,729 N	103° 41' 53.816 V
700.0	0.00	0.00	700.0	0.0	0.0	11,767,404,24	2,042,015.02	32° 24' 38,729 N	103° 41' 53.816 V
800.0	0.00	0.00	800.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38,729 N	103° 41' 53.816 W
900.0	0.00	0.00	900.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
1,000.0	0.00	0.00	1,000.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
1,100.0	0.00	0.00	1,100.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V



Survey Report - Geographic

Company:

NEW MEXICO

Project: Site:

MOZZARELLA

Well:

MOZZARELLA FED COM 603H

Wellbore:

MOZZARELLA FED COM 603H

PWP0 Design:

Local Co-ordinate Reference:

TVD Reference:

Database:

Well MOZZARELLA FED COM 603H Production @ 3730.0usft (3703.5+26.5)

Production @ 3730.0usft (3703.5+26.5)

MD Reference: North Reference:

Survey Calculation Method:

Minimum Curvature

Pla	nne	м 5	in.	VAV

leasured 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	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
1,300.0	0.00	0.00	1,300.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24′ 38.729 N	103° 41' 53.816 V
1,400.0	0.00	0.00	1,400.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
1,500.0	0.00	0.00	1,500.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
1,600.0	0.00	0.00	1,600.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
1,700.0	0.00	0.00	1,700.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
1,800.0	0.00	0.00	1,800.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
1,900.0	0.00	0.00	1,900.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
2,000.0	0.00	0.00	2,000.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
2,100.0	0.00	0.00	2,100.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
2,200.0	0.00	0.00	2,200.0	0.0	0.0	11,767,404.24	2,042,015.02	32° 24' 38.729 N	103° 41' 53.816 V
2,300.0	1.00	30.00	2,300.0	0.8	0.4	11,767,405.00	2,042,015.44	32° 24' 38.737 N	103° 41' 53.811 V
2,400.0	2.00	30.00	2,400.0	3.0	1.7	11,767,407.29	2,042,016.72	32° 24' 38.759 N	103° 41' 53.795 V
2,500.0		30.00	2,499.9	6.8	3.9	11,767,411.09	2,042,018.86	32° 24' 38.797 N	103° 41' 53.770 V
2,600.0			2,599.7	12.1	7.0	11,767,416.41	2,042,021.85	32° 24' 38.849 N	103° 41' 53.734 V
2,700.0		30.00	2,699.4	18.9	10.9	11,767,423.26	2,042,025.69	32° 24' 38.916 N	103° 41' 53.688 V
2,800.0		30.00	2,798.9	27.2	15.7	11,767,431.61	2,042,030.38	32° 24' 38.998 N	103° 41' 53.633 V
2,900.0		30.00	2,898.3	37.0	21.4	11,767,441.49	2,042,035.92	32° 24' 39.096 N	103° 41' 53.566 V
3,000.0		30.00	2,997.4	48.3	27.9	11,767,452.87	2,042,042.31	32° 24' 39.207 N	103° 41' 53.490 \
3,100.0		30.00	3,096.4	. 60.3	34.8	11,767,465.01	2,042,049.12	32° 24' 39.327 N	103°41' 53.409 \
3,200.0		30.00	3,195.5	72.4	41.8	11,767,477.14	2,042,055.93	32° 24' 39.446 N	103° 41' 53.328 V
		30.00	3,294.5	84.4			, .	32° 24' 39.565 N	
3,300.0					48.8	11,767,489.28	2,042,062.74		103° 41' 53.247 \
3,400.0		30.00	3,393.5	96.5	55.7	11,767,501.41	2,042,069.55	32° 24' 39.685 N	103° 41' 53.166 V
3,500.0		30.00	3,492.5	108.6	62.7	11,767,513.55	2,042,076.36	32° 24' 39.804 N	103° 41′ 53.084 \
3,600.0		30.00	3,591.6	120.6	69.6	11,767,525.69	2,042,083.17	32° 24' 39.923 N	103° 41' 53.003 V
3,700.0		30.00	3,690.6	132.7	76.6	11,767,537.82	2,042,089.98	32° 24' 40.042 N	103° 41′ 52.922 V
3,800.0		30.00	3,789.6	144.7	83.5	11,767,549.96	2,042,096.80	32° 24′ 40.162 N	103° 41' 52.841 V
3,900.0		30.00	3,888.6	156.8	90.5	11,767,562.10	2,042,103.61	32° 24′ 40.281 N	103° 41' 52.760 V
4,000.0		30.00	3,987.7	168.8	97.5	11,767,574.23	2,042,110.42	32° 24' 40.400 N	103° 41' 52.678 V
4,100.0		30.00	4,086.7	180.9	104.4	11,767,586.37	2,042,117.23	32° 24' 40.520 N	103° 41' 52.597 V
4,200.0	8.00	30.00	4,185.7	192.9	111.4	11,767,598.51	2,042,124.04	32° 24' 40.639 N	103° 41' 52.516 V
4,300.0	8.00	30.00	4,284.8	205.0	118.3	11,767,610.64	2,042,130.85	32° 24' 40.758 N	103° 41' 52.435 \
4,400.0	8.00	30.00	4,383.8	217.0	125.3	11,767,622.78	2,042,137.66	32° 24' 40.877 N	103° 41' 52.354 \
4,500.0	8.00	30.00	4,482.8	229.1	132.3	11,767,634.92	2,042,144.48	32° 24' 40.997 N	103° 41' 52.273 \
4,600.0	8.00	30.00	4,581.8	241.1	139.2	11,767,647.05	2,042,151.29	32° 24' 41.116 N	103° 41' 52.191 \
4,700.0	8.00	30.00	4,680.9	253.2	146.2	11,767,659.19	2,042,158.10	32° 24' 41.235 N	103° 41' 52.110 \
4,800.0	8.00	30.00	4,779.9	265.2	153.1	11,767,671.33	2,042,164.91	32° 24' 41.355 N	103° 41' 52.029 \
4,900.0	8.00	30.00	4,878.9	277.3	160.1	11,767,683.46	2,042,171.72	32° 24' 41.474 N	103° 41' 51.948 '
5,000.0	8.00	30.00	4,977.9	289.3	167.1	11,767,695.60	2,042,178.53	32° 24' 41.593 N	103° 41' 51.867 \
5,100.0		30.00	5,077.0	301.4	174.0	11,767,707.74	2,042,185.34	32° 24' 41.712 N	103° 41' 51.785 \
5,200.0		30.00	5,176.0	313.4	. 181.0	11,767,719.87	2,042,192.15	32° 24' 41.832 N	103° 41' 51.704 \
5,300.0		4 30.00	5,275.0	325.5	187.9	11,767,732.01	2,042,198.97	32° 24' 41,951 N	103° 41' 51.623 \
5,400.0		30.00	5,374.0	337.6	194.9	11,767,744.15	2,042,205.78	32° 24' 42.070 N	103° 41' 51.542 \
5,500.0		30.00	5,473.1	349.6	201.8	11,767,756.28	2,042,212.59	32° 24' 42.190 N	103° 41' 51.461 \
5,600.0		30.00	5,572.1	361.7	208.8	11,767,768.42	2,042,219.40	32° 24' 42.309 N	103° 41' 51.379 \
5,700.0		30.00	5,671.1	373.7	215.8	11,767,780.56	2,042,226.21	32° 24' 42.428 N	103° 41′ 51.298 \
5,800.0		30.00	5,770.2	385.8	213.0	11,767,792.69	2,042,233.02	32° 24' 42.547 N	103° 41' 51.217 \
		30.00		397.8	229.7	11,767,804.83			
5,900.0			5,869.2				2,042,239.83	32° 24' 42.667 N	103° 41' 51.136 \
6,000.0		30.00	5,968.2	409.9	236.6	11,767,816.97	2,042,246.65	32° 24' 42.786 N	103° 41′ 51.055 \
6,100.0		30.00	6,067.2	421.9	243.6	11,767,829.10	2,042,253.46	32° 24' 42.905 N	103° 41′ 50.974 \
6,200.0		30.00	6,166.3	434.0	250.6	11,767,841.24	2,042,260.27	32° 24' 43.025 N	103° 41' 50.892 \
6,300.0		30.00	6,265.3	446.0	257.5	11,767,853.38	2,042,267.08	32° 24' 43.144 N	103° 41' 50.811 '
6,400.0		30.00	6,364.3	458.1	264.5	11,767,865.51	2,042,273.89	32° 24' 43.263 N	103° 41′ 50.730 \
6,500.0		30.00	6,463.3	470.1	271.4	11,767,877.65	2,042,280.70	32° 24' 43.382 N	103° 41' 50.649 \
6,600.0	8.00	30.00	6,562.4	482.2	278.4	11,767,889.79	2,042,287.51	32° 24' 43.502 N	103° 41' 50.568



Survey Report - Geographic

Company:

NEW MEXICO

Project:

LEA

Site: MOZZARELLA

Well:

MOZZARELLA FED COM 603H

Wellbore:

MOZZAREŁLA FED COM 603H

Design:

PWP0

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well MOZZARELLA FED COM 603H

Production @ 3730.0usft (3703.5+26.5) Production @ 3730.0usft (3703.5+26.5)

Minimum Curvature

leasured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
6,700.0	8.00	30.00	6,661.4	494.2	285.4	11,767,901.92	2,042,294.33	32° 24' 43.621 N	103° 41' 50.48
6,800.0		30.00	6,760.4	506.3	292.3	11,767,914.06	2,042,301.14	32° 24′ 43.740 N	103° 41' 50.40
6,900.0	8.00	30.00	6,859.4	518.3	299.3	11,767,926.20	2,042,307.95	32° 24' 43.860 N	103° 41′ 50.32
7,000.0	8.00	30.00	6,958.5	530.4	306.2	11,767,938.33	2,042,314.76	32° 24' 43.979 N	103° 41′ 50.24
7,100.0	7.00	30.00	7,057.6	541.7	312.8	11,767,949.71	2,042,321.15	32° 24' 44.091 N	103° 41' 50.16
7,200.0	6.00	30.00	7,157.0	551.5	318.4	11,767,959.59	2,042,326.69	32° 24' 44.188 N	103° 41' 50.10
7,300.0	5.00	30.00	7,256.5	559.8	323.2	11,767,967.94	2,042,331.38	32° 24' 44.270 N	103° 41′ 50.04
7,400.0	4.00	30.00	7,356.2	566.6	327.1	11,767,974.79	2,042,335.22	32° 24' 44.337 N	103° 41' 49.99
7,500.0	3.00	30.00	7,456.0	571.9	330.2	11,767,980.11	2,042,338.21	32° 24' 44.389 N	103° 41' 49.96
7,600.0	2.00	30.00	7,555.9	575.7	332.4	11,767,983.91	2,042,340.34	32° 24' 44.427 N	103° 41' 49.93
7,700.0	1.00	30.00	7,655.9	577.9	333.7	11,767,986.20	2,042,341.62	32° 24' 44.449 N	103° 41' 49.92
7,800.0	0.00	0.00	7,755.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.91
7,900.0	0.00	0.00	7,855.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.91
8,000.0	0.00	0.00	7,955.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.91
8,100.0		0.00	8,055.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.91
8,200.0		0.00	8,155.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9
8,300.0		0.00	8,255.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9
8,400.0		0.00	8,355.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9°
8,500.0		0.00	8,455.9	578.7	334.1		2,042,342.05	32° 24' 44.457 N	103° 41' 49.9'
8,600.0		0.00	8,555.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9
8,700.0		0.00	8,655.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9°
8,800.0		0.00	8,755.9	578.7	334.1	11,767,986.96	2.042.342.05	32° 24' 44.457 N	103° 41' 49.9
8,900.0		0.00	8,855.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.91
9,000.0		0.00	8,955.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44,457 N	103° 41' 49.9
9,100.0		0.00	9,055.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9
9,200.0		0.00	9,155.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9
9,300.0		0.00	9,255.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44,457 N	103° 41' 49.9
9,400.0		0.00	9,355.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9
9,500.0		0.00	9,455.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9
9,600.0		0.00	9,555.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9
9,700.0		0.00	9,655.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9
9,800.0		0.00	9,755.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9'
9,900.0		0.00	9,855.9	578.7 578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9
10,000.0		0.00	9,655.9 9,955.9	576.7 578.7	334.1 334.1	• •	2,042,342.05	32° 24' 44.457 N	103 41 49.9 103° 41' 49.9
10,000.0		0.00	10,055.9	578.7 578.7	334.1	11,767,986.96 11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9
10,100.0		0.00	10,055.9	578.7 578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44,457 N	103 41 49.9 103° 41' 49.9
							2,042,342.05		103° 41' 49.9
10,300.0 10,400.0		0.00 0.00	10,255.9 10,355.9	578.7 578.7	334.1 334.1	11,767,986.96 11,767,986.96	2,042,342.05 2,042,342.05	32° 24' 44.457 N 32° 24' 44.457 N	103° 41' 49.9
10,400.0		0.00	10,355.9	578.7 578.7	334.1 334.1	11,767,986.96	2,042,342.05 2,042,342.05	32° 24' 44.457 N	103 41 49.9 103° 41' 49.9
10,500.0		0.00	10,455.9	578.7 578.7	334.1 334.1	11,767,986.96	2,042,342.05 2,042,342.05	32° 24' 44.457 N	103° 41' 49.9
10,600.0		0.00	10,555.9	578.7 578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103 41 49.9 103° 41' 49.9
10,700.0		0.00	10,655.9	578.7 578.7	334.1 334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103 41 49.9 103° 41' 49.9
10,800.0		0.00	10,755.9	578.7 578.7	334.1 334.1		2,042,342.05	32° 24' 44.457 N	103 41 49.9 103° 41' 49.9
						11,767,986.96			
11,000.0		0.00	10,955.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9'
11,100.0		0.00	11,055.9	578.7 579.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41′ 49.9°
11,200.0		0.00	11,155.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9'
11,225.0		0.00	11,180.9	578.7	334.1	11,767,986.96	2,042,342.05	32° 24' 44.457 N	103° 41' 49.9
11,300.0		8.78	11,255.7	583.5	334.9	11,767,991.81	2,042,342.74	32° 24' 44.505 N	103° 41' 49.90
11,400.0		8.78	11,353.2	604.9	338.2	11,768,013.21	2,042,345.78	32° 24' 44.716 N	103° 41' 49.8'
11,500.0		8.78	11,445.4	642.7	344.0	11,768,051.05	2,042,351.15	32° 24' 45.090 N	103° 41' 49.80
11,600.0		8.78	11,529.7	695.7	352.2	11,768,104.18	2,042,358.70	32° 24' 45.615 N	103° 41' 49.70
11,700.0		8.78	11,603.3	762.4	362.5	11,768,170.98	2,042,368.18	32° 24' 46.275 N	103° 41' 49.58
11,800.0	57.50	8.78	11,664.1	840.7	374.6	11,768,249.43	2,042,379.32	32° 24' 47.050 N	103° 41′ 49.44
11,900.0	67.50	8.78	11,710.2	928.2	388.1	11,768,337.14	2,042,391.78	32° 24′ 47.916 N	103° 41′ 49.28
12,000.0	77.50	8.78	11,740.3	1,022.4	402.6	11,768,431.45	2,042,405.17	32° 24' 48.848 N	103° 41' 49.11



Survey Report - Geographic

Company:

NEW MEXICO

Project:

MOZZARELLA Site:

Well:

MOZZARELLA FED COM 603H

Wellbore:

MOZZARELLA FED COM 603H

PWP0 Design:

Local Co-ordinate Reference:

TVD Reference:

Well MOZZARELLA FED COM 603H Production @ 3730.0usft (3703.5+26.5)

Production @ 3730.0usft (3703.5+26.5)

North Reference:

Survey Calculation Method:

Database:

MD Reference:

Minimum Curvature

anned 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	87.50	8.78	11,753.3	1,120.2	417.7	11,768,529.48	2,042,419.09	32° 24' 49.816 N	103° 41' 48.942 V
12,125.0	90.00	8.78	11,753.8	1,144.9	421.6	11,768,554.22	2,042,422.60	32° 24' 50.061 N	103° 41' 48.897 V
12,200.0	90.00	6.53	11,753.8	1,219.3	431.6	11,768,628.67	2,042,431.69	32° 24' 50.796 N	103° 41' 48.780 V
12,300.0	90.00	3.53	11,753.8	1,318.9	440.3	11,768,728.37	2,042,439.24	32° 24' 51.782 N	103° 41' 48.678 V
12,400.0	90.00	0.53	11,753.8	1,418.8	443.9	11,768,828.33	2,042,441.56	32° 24' 52.771 N	103° 41' 48.637 V
12,417.7	90.00	0.00	11,753.8	1,436.5	443.9	11,768,846.00	2,042,441.43	32° 24' 52.946 N	103° 41' 48.636 V
12,500.0	90.00	0.00	11,753.8	1,518.8	443.9	11,768,928.33	2,042,440.43	32° 24' 53.761 N	103° 41' 48.636 V
12,600.0	90.00	0.00	11,753.8	1,618.8	443.9	11,769,028.32	2,042,439.21	32° 24' 54.751 N	103° 41' 48.636 V
12,700.0	90.00	0.00	11,753.8	1,718.8	443.9	11,769,128.31	2,042,437.99	32° 24' 55.740 N	103° 41' 48.636 V
12,800.0 12,900.0	90.00 90.00	0.00 0.00	11,753.8 11,753.8	1,818.8 1,918.8	443.9 443.9	11,769,228.30	2,042,436.77 2,042,435.56	32° 24' 56.730 N	103° 41' 48.636 V 103° 41' 48.636 V
	90.00		11,753.8		443.9 443.9	11,769,328.30		32° 24' 57.720 N	
13,000.0 13,100.0	90.00	0.00 0.00	11,753.8	2,018.8 2,118.8	443.9 443.9	11,769,428.29	2,042,434.34 2,042,433.12	32° 24' 58.709 N	103° 41' 48.636 V 103° 41' 48.636 V
13,100.0	90.00	0.00	11,753.8	2,118.8	443.9 443.9	11,769,528.28 11,769,628.27	2,042,431.90	32° 24' 59.699 N 32° 25' 0.689 N	103° 41' 48.636 V
13,200.0	90.00	0.00	11,753.8	2,318.8	443.9	11,769,728.27	2,042,430.68	32° 25' 1.678 N	103° 41' 48.636 V
13,400.0	90.00	0.00	11,753.8	2,418.8	443.9	11,769,828.26	2,042,429.47	32° 25' 2.668 N	103° 41' 48.636 V
13,500.0	90.00	0.00	11,753.8	2,518.8	443.9	11,769,928.25	2,042,428.25	32° 25' 3.658 N	103° 41' 48.636 V
13,600.0	90.00	0.00	11,753.8	2,618.8	443.9	11,770,028.24	2,042,427.03	32° 25' 4.648 N	103° 41' 48.636 V
13,700.0	90.00	0.00	11,753.8	2,718.8	443.9	11,770,128.24	2,042,425.81	32° 25' 5.637 N	103° 41' 48.636 V
13,800.0	90.00	0.00	11,753.8	2,818.8	443.9	11,770,120.24	2,042,424.59	32° 25' 6.627 N	103° 41' 48.636 V
13,900.0	90.00	0.00	11,753.8	2,918.8	443.9	11,770,328.22	2,042,423.38	32° 25' 7.617 N	103° 41' 48.636 V
14,000.0	90.00	0.00	11,753.8	3,018.8	443.9	11,770,428.21	2,042,422.16	32° 25′ 8.606 N	103° 41' 48.636 \
14,100.0	90.00	0.00	11,753.8	3,118.8	443.9	11,770,528.21	2,042,420.94	32° 25' 9.596 N	103° 41' 48.636 \
14,200.0	90.00	0.00	11,753.8	3,218.8	443.9	11,770,628.20	2,042,419.72	32° 25' 10.586 N	103° 41' 48.636 \
14,300.0	90.00	0.00	11,753.8	3,318.8	443.9	11,770,728.19	2,042,418.51	32° 25' 11.575 N	103° 41′ 48,636 \
14,400.0	90.00	0.00	11,753.8	3,418.8	443.9	11,770,828.18	2,042,417.29	32° 25' 12.565 N	103° 41' 48.636 \
14,500.0	90.00	0.00	11,753.8	3,518.8	443.9	11,770,928.18	2,042,416.07	32° 25' 13.555 N	103° 41' 48.636 V
14,600.0	90.00	0.00	11,753.8	3,618.8	443.9	11,771,028.17	2,042,414.85	32° 25′ 14.545 N	103° 41' 48.635 \
14,700.0	90.00	0.00	11,753.8	3,718.8	443.9	11,771,128.16	2,042,413.63	32° 25' 15.534 N	103° 41' 48.635 \
14,800.0	90.00	0.00	11,753.8	3,818.8	443.9	11,771,228.16	2,042,412.42	32° 25′ 16.524 N	103° 41' 48.635 \
14,900.0	90.00	0.00	11,753.8	3,918.8	443.9	11,771,328.15	2,042,411.20	32° 25' 17.514 N	103° 41' 48.635 \
15,000.0	90.00	0.00	11,753.8	4,018.8	443.9	11,771,428.14	2,042,409.98	32° 25' 18.503 N	103° 41' 48.635 \
15,100.0	90.00	0.00	11,753.8	4,118.8	443.9	11,771,528.13	2,042,408.76	32° 25' 19.493 N	103° 41' 48.635 \
15,200.0	90.00	0.00	11,753.8	4,218.8	443.9	11,771,628.13	2,042,407.54	32° 25' 20.483 N	103° 41' 48.635 \
15,300.0	90.00	0.00	11,753.8	4,318.8	443.9	11,771,728.12	2,042,406.33	32° 25' 21.472 N	103° 41' 48.635 '
15,400.0	90.00	0.00	11,753.8	4,418.8	443.9	11,771,828.11	2,042,405.11	32° 25' 22.462 N	103° 41' 48.635 '
15,500.0	90.00	0.00	11,753.8	4,518.8	443.9	11,771,928.10	2,042,403.89	32° 25' 23,452 N	103° 41' 48.635 '
15,600.0	90.00	0.00	11,753.8	4,618.8	443.9	11,772,028.10	2,042,402.67	32° 25' 24.442 N	103° 41' 48.635
15,700.0	90.00	0.00	11,753.8	4,718.8	443.9	11,772,128.09	2,042,401.45	32° 25' 25.431 N	103° 41' 48.635
15,800.0	90.00	0.00	11,753.8	4,818.8	443.9	11,772,228.08	2,042,400.24	32° 25′ 26.421 N	103° 41′ 48.635 1
15,900.0	90.00	0.00	11,753.8	4,918.8	443.9	11,772,328.07	2,042,399.02	32° 25' 27.411 N	103° 41' 48.635
16,000.0	90.00	0.00	11,753.8	5,018.8	443.9	11,772,428.07	2,042,397.80	32° 25' 28.400 N	103° 41' 48.635 '
16,100.0	90.00	0.00	11,753.8	5,118.8	443.9	11,772,528.06	2,042,396.58	32° 25' 29.390 N	103° 41′ 48.635 \
16,200.0	90.00	0.00	11,753.8	5,218.8	443.9	11,772,628.05	2,042,395.36	32° 25' 30.380 N	103° 41' 48.635 '
16,300.0	90.00	0.00	11,753.8	5,318.8	443.9	11,772,728.04	2,042,394.15	32° 25' 31.369 N	103° 41' 48.635
16,400.0	90.00	0.00	11,753.8	5,418.8	443.9	11,772,828.04	2,042,392.93	32° 25' 32.359 N	103° 41' 48.635
16,500.0	90.00	0.00	11,753.8	5,518.8	443.9	11,772,928.03	2,042,391.71	32° 25' 33.349 N	103° 41' 48.635
16,600.0	90.00	0.00	11,753.8	5,618.8	443.9	11,773,028.02	2,042,390.49	32° 25' 34.339 N	103° 41' 48.635
16,700.0	90.00	0.00	11,753.8	5,718.8	443.9	11,773,128.01	2,042,389.27	32° 25' 35.328 N	103° 41' 48.635
16,800.0	90.00	0.00	11,753.8	5,818.8	443.9	11,773,228.01	2,042,388.06	32° 25' 36.318 N	103° 41′ 48.635
16,900.0	90.00	0.00	11,753.8	5,918.8	443.9	11,773,328.00	2,042,386.84	32° 25' 37.308 N	103° 41' 48.635
17,000.0	90.00	0.00	11,753.8	6,018.8	443.9	11,773,427.99	2,042,385.62	32° 25' 38.297 N	103° 41' 48.635
17,100.0	90.00	0.00	11,753.8	6,118.8	443.9	11,773,527.98	2,042,384.40	32° 25' 39.287 N	103° 41' 48.635 '
17,200.0	90.00	0.00	11,753.8	6,218.8	443.9	11,773,627.98	2,042,383.18	32° 25′ 40.277 N	103° 41' 48.635 '
17,300.0	90.00	0.00	11,753.8	6,318.8	443.9	11,773,727.97	2,042,381.97	32° 25' 41.266 N	103° 41' 48.635



Survey Report - Geographic

Company:

NEW MEXICO

Project:

LEA

MOZZARELLA Site:

Well:

MOZZARELLA FED COM 603H

Wellbore:

MOZZARELLA FED COM 603H

Design:

PWP0

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: **Survey Calculation Method:**

Database:

Well MOZZARELLA FED COM 603H

Production @ 3730.0usft (3703.5+26.5)

Production @ 3730.0usft (3703.5+26.5)

Minimum Curvature

leasured			Vertical			Мар	Мар		
Depth (usft)	Inclination	Azimuth	Depth (usft)	+N/-S	+E/-W	Northing (usft)	Easting		
(usit)	(°)	(°)		(usft)	(usft)	(usit)	(usft)	Latitude	Longitude
17,400.0	90.00	0.00	11,753.8	6,418.8	443.9	11,773,827.96	2,042,380.75	32° 25' 42.256 N	103° 41' 48.63
17,500.0	90.00	0.00	11,753.8	6,518.8	443.9	11,773,927.95	2,042,379.53	32° 25' 43.246 N	103° 41' 48.63
17,600.0	90.00	0.00	11,753.8	6,618.8	443.9	11,774,027.95	2,042,378.31	32° 25′ 44.235 N	103° 41' 48.63
17,700.0	90.00	0.00	11,753.8	6,718.8	443.9	11,774,127.94	2,042,377.10	32° 25' 45.225 N	103° 41' 48.63
17,800.0	90.00	0.00	11,753.8	6,818.8	443.9	11,774,227.93	2,042,375.88	32° 25' 46.215 N	103° 41' 48.63
17,900.0	90.00	0.00	11,753.8	6,918.8	443.9	11,774,327.93	2,042,374.66	32° 25' 47.205 N	103° 41' 48.63
18,000.0	90.00	0.00	11,753.8	7,018.8	443.9	11,774,427.92	2,042,373.44	32° 25′ 48.194 N	103° 41' 48.63
18,100.0	90.00	0.00	11,753.8	7,118.8	443.9	11,774,527.91	2,042,372.22	32° 25' 49.184 N	103° 41' 48.63
18,200.0	90.00	0.00	11,753.8	7,218.8	443.9	11,774,627.90	2,042,371.01	32° 25' 50.174 N	103° 41' 48.63
18,300.0	90.00	0.00	11,753.8	7,318.8	443.9	11,774,727.90	2,042,369.79	32° 25' 51.163 N	103° 41' 48.63
18,400.0	90.00	0.00	11,753.8	7,418.8	443.9	11,774,827.89	2,042,368.57	32° 25' 52.153 N	103° 41' 48.63
18,500.0	90.00	0.00	11,753.8	7,518.8	443.9	11,774,927.88	2,042,367.35	32° 25' 53.143 N	103° 41' 48.63
18,600.0	90.00	0.00	11,753.8	7,618.8	443.9	11,775,027.87	2,042,366.13	32° 25′ 54.132 N	103° 41' 48.63
18,700.0	90.00	0.00	11,753.8	7,718.8	443.9	11,775,127.87	2,042,364.92	32° 25' 55.122 N	103° 41' 48.63
18,800.0	90.00	0.00	11,753.8	7,818.8	443.9	11,775,227.86	2,042,363.70	32° 25' 56.112 N	103° 41' 48.63
18,900.0	90.00	0.00	11,753.8	7,918.8	443.9	11,775,327.85	2,042,362.48	32° 25' 57.102 N	103° 41′ 48.63
19,000.0	90.00	0.00	11,753,8	8,018.8	443.9	11,775,427.84	2,042,361.26	32° 25' 58.091 N	103° 41' 48.63
19,100.0	90.00	0.00	11,753.8	8,118.8	443.9	11,775,527.84	2,042,360.04	32° 25' 59.081 N	103° 41' 48.63
19,200.0	90.00	0.00	11,753.8	8,218.8	443.9	11,775,627.83	2,042,358.83	32° 26' 0.071 N	103° 41' 48.63
19,300.0	90.00	0.00	11,753.8	8,318.8	443.9	11,775,727.82	2,042,357.61	32° 26′ 1.060 N	103° 41' 48.63
19,400.0	90.00	0.00	11,753.8	8,418.8	443.9	11,775,827.81	2,042,356.39	32° 26' 2.050 N	103° 41' 48.63
19,500.0	90.00	0.00	11,753.8	8,518.8	443.9	11,775,927.81	2,042,355.17	32° 26′ 3.040 N	103° 41' 48.63
19,600.0	90.00	0.00	11,753.8	8,618.8	443.9	11,776,027.80	2,042,353.95	32° 26′ 4.029 N	103° 41' 48.63
•	90.00			8,718.8					
19,700.0		0.00	11,753.8		443.9	11,776,127.79	2,042,352.74	32° 26' 5.019 N	103° 41' 48.63
19,800.0	90.00	0.00	11,753.8	8,818.8	443.9	11,776,227.78	2,042,351.52	32° 26' 6,009 N	103° 41' 48.63
19,900.0	90.00	0.00	11,753.8	8,918.8	443.9	11,776,327.78	2,042,350.30	32° 26' 6.999 N	103° 41' 48.63
20,000.0	90.00	0.00	11,753.8	9,018.8	443.9	11,776,427.77	2,042,349.08	32° 26' 7.988 N	103° 41' 48.63
20,100.0	90.00	0.00	11,753.8	9,118.8	443.9	11,776,527.76	2,042,347.86	32° 26' 8.978 N	103° 41' 48.63
20,200.0	90.00	0.00	11,753.8	9,218.8	443.9	11,776,627.75	2,042,346.65	32° 26′ 9.968 N	103° 41' 48.63
20,300.0	90.00	0.00	11,753.8	9,318.8	443.9	11,776,727.75	2,042,345.43	32° 26′ 10.957 N	103° 41′ 48.63
20,400.0	90.00	0.00	11,753.8	9,418.8	443.9	11,776,827.74	2,042,344.21	32° 26' 11.947 N	103° 41' 48.63
20,500.0	90.00	0.00	11,753.8	9,518.8	443.9	11,776,927.73	2,042,342.99	32° 26′ 12.937 N	103° 41' 48.63
20,600.0	90.00	0.00	11,753.8	9,618.8	443.9	11,777,027.73	2,042,341.78	32° 26' 13.926 N	103° 41' 48.63
20,700.0	90.00	0.00	11,753.8	9,718.8	443.9	11,777,127.72	2,042,340.56	32° 26′ 14.916 N	103° 41' 48.63
20,800.0	90.00	0.00	11,753.8	9,818.8	443.9	11,777,227.71	2,042,339.34	32° 26′ 15.906 N	103° 41' 48.63
20,900.0	90.00	0.00	11,753.8	9,918.8	443.9	11,777,327.70	2,042,338.12	32° 26′ 16.895 N	103° 41' 48.63
21,000.0	90.00	0.00	11,753.8	10,018.8	443.9	11,777,427.70	2,042,336.90	32° 26' 17.885 N	103° 41' 48.63
21,100.0	90.00	0.00	11,753.8	10,118.8	443.9	11,777,527.69	2,042,335.69	32° 26' 18.875 N	103° 41' 48.63
21,200.0	90.00	0.00	11,753.8	10,218.8	443.9	11,777,627.68	2,042,334.47	32° 26' 19.865 N	103° 41' 48.63
21,300.0	90.00	0.00	11,753.8	10,318.8	443.9	11,777,727.67	2,042,333.25	32° 26′ 20.854 N	103° 41' 48.63
21,400.0	90.00	0.00	11,753.8	10,418.8	443.9	11,777,827.67	2,042,332.03	32° 26' 21.844 N	103° 41' 48.63
21,500.0	90.00	0.00	11,753.8	10,518.8	443.9	11,777,927.66	2,042,330.81	32° 26' 22.834 N	103° 41' 48.63
21,600.0	90.00	0.00	11,753.8	10,618.8	443.9	11,778,027.65	2,042,329.60	32° 26' 23.823 N	103° 41' 48.63
21,700.0	90.00	0.00	11,753.8	10,718.8	443.9	11,778,127.64	2,042,328.38	32° 26' 24.813 N	103° 41' 48.63
21,800.0	90.00	0.00	11,753.8	10,818.8	443.9	11,778,227.64	2,042,327.16	32° 26' 25.803 N	103° 41' 48.63
21,900.0	90.00	0.00	11,753.8	10,918.8	443.9	11,778,327.63	2,042,325.94	32° 26' 26.792 N	103° 41' 48.63
22,000.0	90.00	0.00	11,753.8	11,018.8	443.9	11,778,427.62	2,042,324.72	32° 26' 27.782 N	103° 41' 48.63
22,100.0	90.00	0.00	11,753.8	11,118.8	443.9	11,778,527.61	2,042,323.51	32° 26' 28.772 N	103° 41' 48.63
22,100.0	90.00	0.00	11,753.8	11,218.8	443.9	11,778,627.61	2,042,322.29	32° 26' 29.762 N	103° 41' 48.63
22,300.0 22,386.6	90.00 90.00	0.00 0.00	11,753.8 11,753.8	11,318.8 11,405.3	443.9 443.9	11,778,727.60 11,778,814.14	2,042,321.07 2,042,320.02	32° 26' 30.751 N 32° 26' 31.608 N	103° 41' 48.63 103° 41' 48.63



Survey Report - Geographic

Company:

NEW MEXICO

Project:

LEA

MOZZARELLA

Well:

Site:

MOZZAREŁLA FED COM 603H

Wellbore:

MOZZARELLA FED COM 603H

Design:

PWP0

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well MOZZARELLA FED COM 603H

Production @ 3730.0usft (3703.5+26.5)

Production @ 3730.0usft (3703.5+26.5)

Minimum Curvature

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (usft)	+ N /-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	L ongitude
LTP - MOZZARELLA FE - plan misses target o - Point	0.00 center by 4.6u	0.00 sft at 22386.	11,750.0 6usft MD (1	11,407.9 1753.8 TVD, 1	443.8 11405.3 N, 44	11,778,816.71 3.9 E)	2,042,319.80	32° 26' 31.633 N	103° 41' 48.636 W
FTP - MOZZARELLA FE - plan misses target (- Circle (radius 50.0)	-	0.00 usft at 12042	11,750.0 2.6usft MD (1,056.7 11747.9 TVD,	453.0 1063.8 N, 40	11,768,466.40 9.0 E)	2,042,455.07	32° 24' 49.188 N	103° 41' 48.531 W
LTP - MOZZARELLA FE - plan misses target o - Point	0.00 center by 609.	0.00 1usft at 2238	11,950.0 86.6usft MD	11,410.5 (11753.8 TVD	1,020.5), 11405.3 N,	11,778,826.34 443.9 E)	2,042,896.52	32° 26' 31.659 N	103° 41' 41.904 W
FTP - MOZZARELLA FE - plan misses target (- Circle (radius 50.0)	-	0.00 1usft at 1200	11,950.0 00.0usft MD	1,052.8 (11740.3 TVE	-129.8 D, 1022.4 N, 4	11,768,455.38 02.6 E)	2,041,872.37	32° 24' 49.149 N	103° 41' 55.331 W
FTP - MOZZARELLA FE - plan misses target (- Circle (radius 50.0)	-	0.00 7usft at 1212	11,950.0 25.0usft MD	1,059.5 (11753.8 TVD	1,029.8 D, 1144.9 N, 4	11,768,476.23 21.6 E)	2,043,031.79	32° 24' 49.215 N	103° 41' 41.801 W
LTP - MOZZARELLA FE - plan misses target of - Point	0.00 center by 615.	0.00 1usft at 2238	11,950.0 86.6usft MD	11,405.3 (11753.8 TVD	-139.1 D, 11405.3 N,	11,778,807.04 443.9 E)	2,041,737.07	32° 26' 31.608 N	103° 41' 55.438 W

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	
	4,668.8	4,650.0	9 5/8"		9-5/8	12-1/4	
	22,386.0	11,753.8	5 1/2"		5-1/2	8-1/2	

Checked By:	Approved By:	Date:	_



APD ID: 10400040908

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



PWD disturbance (acres):

Submission Date: 04/26/2019

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: MOZZARELLA FEDERAL COM Well Number: 603H

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:

•

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Well Name: MOZZARELLA FEDERAL COM Well Number: 603H

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC Well Name: MOZZARELLA FEDERAL COM Well Number: 603H 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):

Well Name: MOZZARELLA FEDERAL COM Well

Well Number: 603H

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

Operator Name: CENTENNIAL RESOURCE PRODUCTION LLC

Well Name: MOZZARELLA FEDERAL COM Well Number: 603H

Well Type: OIL WELL Well Work Type: Drill



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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: