

**HOBBS OCD**  
**JAN 02 2020**  
**RECEIVED**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. NMNM138893  6. If Indian, Allottee or Tribe Name  7. If Unit or CA Agreement, Name and No.  8. Lease Name and Well No. GIPPLE FED COM 114H <b>326772</b>
2. Name of Operator TAP ROCK OPERATING LLC <b>(372043)</b>		9. API Well No. <b>30-025-4665</b>
3a. Address 602 Park Point Drive Suite 200 Golden CO 80401	3b. Phone No. (include area code) (720)460-3316	10. Field and Pool, or Exploratory <b>98294</b> <del>WC-025 G-09-6240532M / WOLF BONE</del>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE / 225 FSL / 645 FEL / LAT 32.1673456 / LONG -103.3659929 At proposed prod. zone NENE / 20 FNL / 660 FEL / LAT 32.1957 / LONG -103.3660645		11. Sec., T. R. M. or Blk. and Survey or Area SEC 33 / T24S / R35E / NMP
14. Distance in miles and direction from nearest town or post office* 10 miles		12. County or Parish LEA
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 2009 feet		16. No of acres in lease 240
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 25 feet		17. Spacing Unit dedicated to this well 320  20. BLM/BIA Bond No. in file FED: NMB001443
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3283 feet	22. Approximate date work will start* 11/01/2019	23. Estimated duration 60 days

24. Attachments

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

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM.            |

25. Signature (Electronic Submission)	Name (Printed/Typed) Brian Wood / Ph: (505)466-8120	Date 08/27/2019
Title President		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Christopher Walls / Ph: (575)234-2234	Date 12/30/2019
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 01/02/20*

*KB 01/02/20*

**APPROVED WITH CONDITIONS**  
Approval Date: 12/30/2019

**PECOS DISTRICT  
DRILLING CONDITIONS OF APPROVAL**

<b>OPERATOR'S NAME:</b>	<b>Tap Rock Operating LLC</b>
<b>LEASE NO.:</b>	<b>NMNM138893</b>
<b>WELL NAME &amp; NO.:</b>	<b>Gipple Fed Com 114H</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>225'/S &amp; 645'/E</b>
<b>BOTTOM HOLE FOOTAGE:</b>	<b>20'/N &amp; 660'/E</b>
<b>LOCATION:</b>	<b>Section 33, T.24 S., R.35 E., NMPM</b>
<b>COUNTY:</b>	<b>Lea County, New Mexico</b>

COA

H2S	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input 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 type="radio"/> Multibowl	<input checked="" type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" 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**

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

**B. CASING**

1. The 13-3/8 inch surface casing shall be set at approximately **1000 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 8

hours 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 fluid filled to meet BLM minimum collapse requirement.**

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing shall be set at approximately **5006 feet** is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least **200 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.

##### **Option 1:**

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **3000 (3M)** psi.

##### **Option 2:**

1. 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 **3000 (3M)** 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.

## GENERAL REQUIREMENTS

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

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

Eddy County

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

Lea County

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

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

A. CASING

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

B. PRESSURE CONTROL

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

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

C. DRILLING MUD

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

**D. WASTE MATERIAL AND FLUIDS**

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

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



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

# Operator Certification Data Report

12/31/2019

## Operator Certification

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

**NAME:** Brian Wood

**Signed on:** 08/27/2019

**Title:** President

**Street Address:** 37 Verano Loop

**City:** Santa Fe

**State:** NM

**Zip:** 87508

**Phone:** (505)466-8120

**Email address:** afmss@permitswest.com

## Field Representative

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**



APD ID: 10400046402

Submission Date: 08/27/2019

Highlighted data  
reflects the most  
recent changes

Operator Name: TAP ROCK OPERATING LLC

Well Name: GIPPLE FED COM

Well Number: 114H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - General

APD ID: 10400046402

Tie to previous NOS? N

Submission Date: 08/27/2019

BLM Office: CARLSBAD

User: Brian Wood

Title: President

Federal/Indian APD: FED

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

Lease number: MNM138893

Lease Acres: 240

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? N

Permitting Agent? YES

APD Operator: TAP ROCK OPERATING LLC

Operator letter of designation:

### Operator Info

Operator Organization Name: TAP ROCK OPERATING LLC

Operator Address: 602 Park Point Drive Suite 200

Zip: 80401

Operator PO Box:

Operator City: Golden

State: CO

Operator Phone: (720)460-3316

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: GIPPLE FED COM

Well Number: 114H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: WC-025 G-09  
S243532M

Pool Name: WOLFBONE

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

Operator Name: TAP ROCK OPERATING LLC

Well Name: GIPPLE FED COM

Well Number: 114H

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

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: Gipple Number: 134H

Well Class: HORIZONTAL

Fed Com

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 10 Miles

Distance to nearest well: 25 FT

Distance to lease line: 2009 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: Gipple\_114H\_C102\_GCP\_20190823121652.pdf

Well work start Date: 11/01/2019

Duration: 60 DAYS

### Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 11401

Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
SHL Leg #1	225	FSL	645	FEL	24S	35E	33	Aliquot SESE	32.1673456	-103.3659929	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	3283	0	0	Y
KOP Leg #1	50	FSL	575	FEL	24S	35E	33	Aliquot SESE	32.1668637	-103.3657666	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	-6654	9941	9937	Y
PPP Leg #1-1	2640	FNL	660	FEL	24S	35E	28	Aliquot SENE	32.188518	-103.366043	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	-7135	18149	10418	Y

Operator Name: TAP ROCK OPERATING LLC

Well Name: GIPPLE FED COM

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Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
PPP Leg #1-2	1320	FNL	660	FEL	24S	35E	33	Aliquot NENE	32.177653	-103.36603	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 138893	-7184	14212	10467	Y
PPP Leg #1-3	200	FSL	594	FEL	24S	35E	33	Aliquot SESE	32.1672744	-103.365828	LEA	NEW MEXI CO	NEW MEXI CO	F	FEE	-7041	10366	10324	Y
EXIT Leg #1	20	FNL	660	FEL	24S	35E	28	Aliquot NENE	32.1957	-103.3660645	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 138889	-7102	20765	10385	Y
BHL Leg #1	20	FNL	660	FEL	24S	35E	28	Aliquot NENE	32.1957	-103.3660645	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 138889	-7102	20765	10385	Y



APD ID: 10400046402

Submission Date: 08/27/2019

Highlighted data  
reflects the most  
recent changes

Operator Name: TAP ROCK OPERATING LLC

Well Name: GIPPLE FED COM

Well Number: 114H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

**Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
522515	QUATERNARY	3283	0	0	OTHER : None	NONE	N
522516	RUSTLER	2814	469	469	ANHYDRITE	OTHER : Salt	N
522517	SALADO	2389	894	894	SALT	OTHER : Salt	N
522518	BASE OF SALT	-1526	4809	4812	SALT	OTHER : Salt	N
522519	LAMAR	-1991	5274	5283	LIMESTONE	NONE	N
522520	BELL CANYON	-2016	5299	5302	SANDSTONE	NATURAL GAS, OIL	N
522521	CHERRY CANYON	-2981	6264	6269	SANDSTONE	NATURAL GAS, OIL	N
522522	BRUSHY CANYON	-4461	7744	7749	SANDSTONE	NATURAL GAS, OIL	N
522523	BONE SPRING	-5761	9044	9048	LIMESTONE	NATURAL GAS	N
522524	BONE SPRING 1ST	-7041	10324	10366	SANDSTONE	NATURAL GAS, OIL	Y

**Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M

Rating Depth: 15000

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

**Requesting Variance?** YES

**Variance request:** Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate 1, and Production Strings. Tap Rock requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Tap Rock requests approval to possibly utilize a spudder rig to drill and set casing for the surface interval on this well. The spudder rig will be possibly utilized in order to

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** GIPPLE FED COM

**Well Number:** 114H

reduce cost and save time. The wellhead will be installed and tested as soon as the surface casing is cut off per the existing COAs. A blind flange with the same pressure rating as the wellhead will be installed on the well. Once the spudder rig is removed, Tap Rock will secure the wellhead area by placing a guard rail around the cellar. Pressure will be monitored and a means for intervention will be maintained while the drilling rig is not over the well. Spudder rig operations are expected to take 2-3 days per well. Three wells on the pad will have surface casing set by the spudder rig as a part of this operation. The BLM will be notified 24 hours prior to commencing spudder rig operations. Within 90 days of the departure of the spudder rig, drilling operations will recommence on these wells. This rig will have a BOP stack equal or greater to the pressure rating required in the COAs. The BLM will be notified 24 hours before the larger rig moves on the pre-set wells. Tap Rock will have supervision on the spudder rig to ensure compliance with all BLM and NMOCD regulations.

**Testing Procedure:** After surface casing is set and the BOP is nipped up, the BOP pressure tests will be made with a third party tester to 250 psi low, 5000 psi high, and the annular preventer will be tested to 2,500 psi. The BOP will be tested in this manner after nipple-up if any break of the stack occurs.

**Choke Diagram Attachment:**

Gipple\_114H\_10M\_Choke\_100418\_20190823124031.pdf

**BOP Diagram Attachment:**

BOP\_Diagram\_101619\_20191221064909.pdf

**Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	550	0	550	3283	2733	550	J-55	54.5	BUTT	1.13	1.15	DRY	1.6	DRY	1.6
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5293	0	5284	3283	-2001	5293	J-55	40	BUTT	1.13	1.15	DRY	1.6	DRY	1.6
3	PRODUCTION	8.75	5.5	NEW	API	N	0	20765	0	10385	3283	-7102	20765	P-110	20	OTHER - TXP	1.13	1.13	DRY	1.6	DRY	1.6

**Casing Attachments**

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** GIPPLE FED COM

**Well Number:** 114H

**Casing Attachments**

---

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Gipple\_114H\_Casing\_Design\_Assumptions\_20190823124301.pdf

---

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Gipple\_114H\_Casing\_Design\_Assumptions\_20190823124405.pdf

---

**Casing ID:** 3      **String Type:** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Gipple\_114H\_Casing\_Design\_Assumptions\_20190823124507.pdf

Gipple\_114H\_5.5in\_Casing\_Spec\_20190823124520.PDF

---

**Section 4 - Cement**

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** GIPPLE FED COM

**Well Number:** 114H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0	0	None	None
SURFACE	Tail		0	550	566	1.35	14.8	764	100	Class C	5% NaCl + LCM
PRODUCTION	Lead		0	0	0	0	0	0	0	None	None
PRODUCTION	Tail		4793	2076 5	2952	1.71	14.2	5048	25	Class H	Fluid Loss + Dispersant + Retarder + LCM
INTERMEDIATE	Lead		0	4293	1004	2.18	12.7	2188	65	Class C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
INTERMEDIATE	Tail		4293	5293	411	1.33	14.8	547	65	Class C	5% NaCl + LCM

### Section 5 - Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be Used?** NO

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

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

**Describe what will be on location to control well or mitigate other conditions:** All necessary mud products (e. g., barite, cedar bark) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions.

**Describe the mud monitoring system utilized:** Electronic Pason mud monitor system complying with Onshore Order 1 will be used.

### 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
0	550	OTHER : Fresh water spud mud	8.3	8.3							
550	5330	OTHER : Brine water	10	10							
5330	2076 5	OIL-BASED MUD	9	9							

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** GIPPLE FED COM

**Well Number:** 114H

### Section 6 - Test, Logging, Coring

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

Electric Logging Program: No open-hole logs are planned at this time for the pilot hole.

GR will be collected while drilling through the MWD tools from 9.625 casing shoe to TD.

A 2-person mud logging program will be used from 9.625 casing shoe to TD.

CBL w/ CCL from as far as gravity will let it fall to TOC.

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

GAMMA RAY LOG, CEMENT BOND LOG,

**Coring operation description for the well:**

No DSTs or cores are planned at this time.

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 4860

**Anticipated Surface Pressure:** 2557

**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:**

Gipple\_H2S\_Plan\_20190823125254.pdf

### Section 8 - Other Information

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

Gipple\_114H\_Horizontal\_Plan\_20190823125309.pdf

**Other proposed operations facets description:**

Surface casing will be set in the Rustler.

Intermediate 1 will be set in the Lamar.

Production will be set in the 1st Bone Spring Sand

**Other proposed operations facets attachment:**

Co\_flex\_Certs\_20190823125359.pdf

Gipple\_114H\_Anticollision\_Report\_20190823125432.pdf

Wellhead\_3T\_101619\_20191020124635.pdf

Gipple\_114H\_Drill\_Plan\_Revised\_121619\_20191219095249.pdf

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** GIPPLE FED COM

**Well Number:** 114H

**Other Variance attachment:**



## Hydrogen Sulfide Drilling

### Operations Plan

#### Tap Rock Resources

#### 1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system and briefing areas
- Evacuation procedures, routes and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30min pressure demand air packs

#### 2 H2S Detection and Alarm Systems:

- H2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure / cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary
- An audio alarm system will be installed on the derrick floor and in the doghouse

#### 3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area should be high enough to be visible
- Windsock on the rig floor and / top of doghouse should be high enough to be visible

#### 4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
  - Green Flag – Normal Safe Operation Condition
  - Yellow Flag – Potential Pressure and Danger
  - Red Flag – Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

#### 5 Well Control Equipment:

- See Drilling Operations Plan Schematics

#### 6 Communication:

- While working under masks chalkboards will be used for communications
- Hand signals will be used where chalk board is inappropriate
- Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.



7 Drilling Stem Testing:

- No DST cores are planned at this time

8 Drilling contractor supervisor will be required to be familiar with the effects H<sub>2</sub>S has on tubulars good and other mechanical equipment

9 If H<sub>2</sub>S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H<sub>2</sub>S scavengers if necessary

11 Emergency Contacts

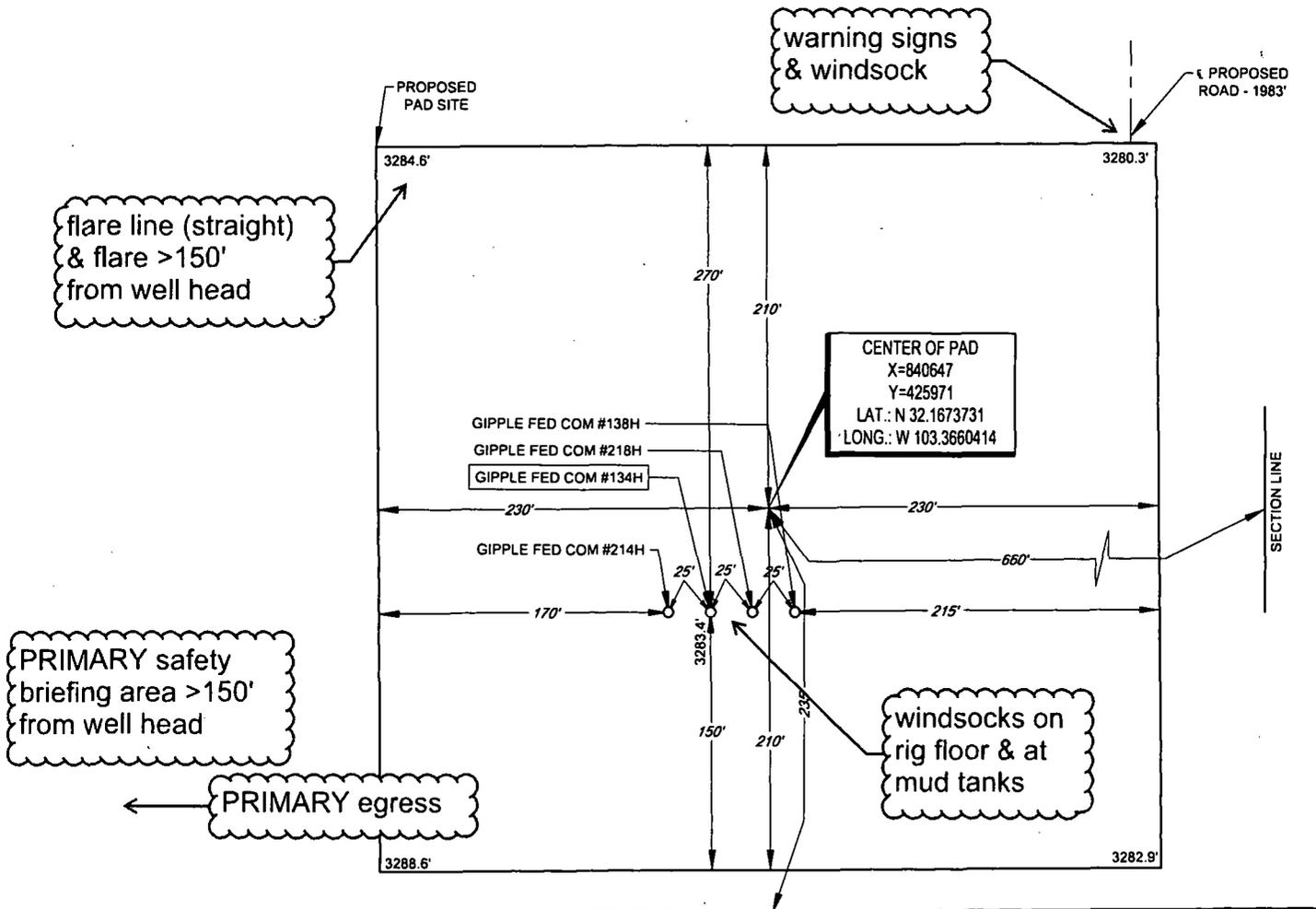
<b>Emergency Contacts</b>		
Carlsbad Police Department	575.887.7551	911
Carlsbad Medical Center	575.887.4100	911
Eddy County Fire Service	575.628.5450	911
Eddy County Sherriff	575.887.7551	911
Lea County Fire Service	575.391.2983	911
Lea County Sherriff	575.396.3611	911
Jal Police Department	575.395.2121	911
Jal Fire Department	575.395.2221	911
Tap Rock - Doug Sproul - Drilling	303-653-3518	

EXHIBIT 2B



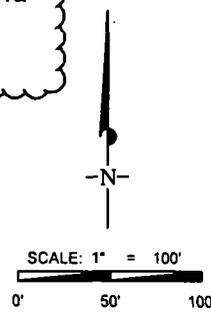
SECTION 33, TOWNSHIP 24-S, RANGE 35-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

DETAIL VIEW  
SCALE: 1" = 100'



LEASE NAME & WELL NO.: GIPPLE FED COM #134H  
#134H LATITUDE N 32.1672082 #134H LONGITUDE W 103.3661545

CENTER OF PAD IS 235' FSL & 660' FEL



ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554  
2803 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743  
WWW.TOPOGRAPHIC.COM

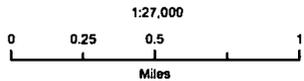
ORIGINAL DOCUMENT SIZE: 8.5" X 11"

# Tap Rock Operating, LLC

Gipple Fed Corn Pad  
H2S Contingency Plan:  
Radius Map

Section 33, Township 24S, Range 35E  
Lea County, New Mexico

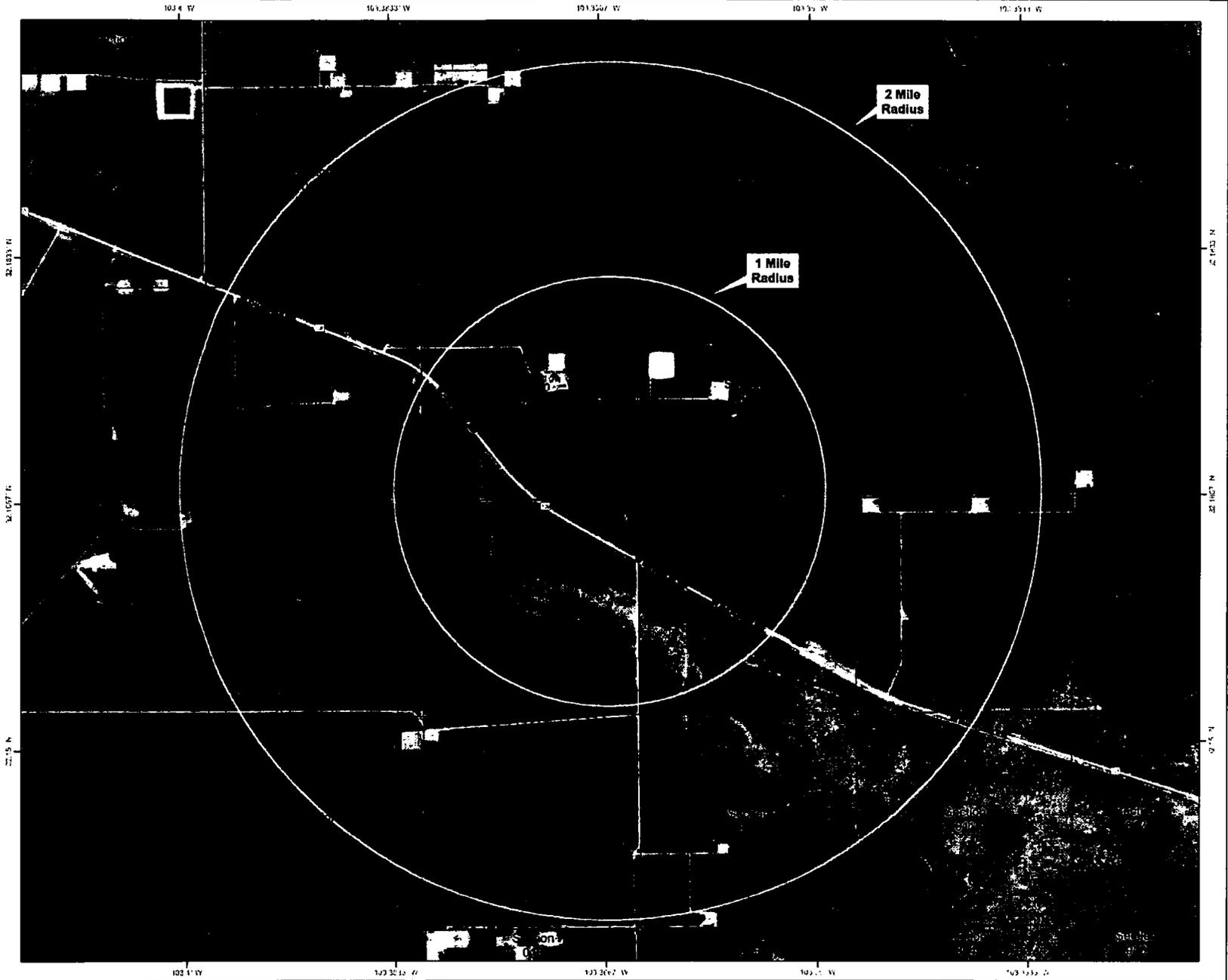
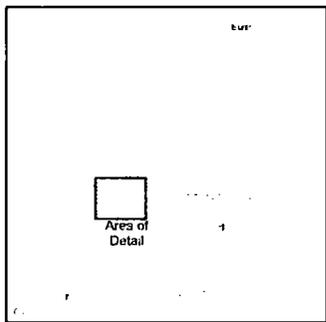
 Proposed SHL



NAD 1983 New Mexico State Plane East  
FIPS 3001 Feet

**PERMITS WEST**  
ANALYSIS • DESIGN • CONSTRUCTION

Prepared by Permits West, Inc., February 6, 2019  
for Tap Rock Operating, LLC

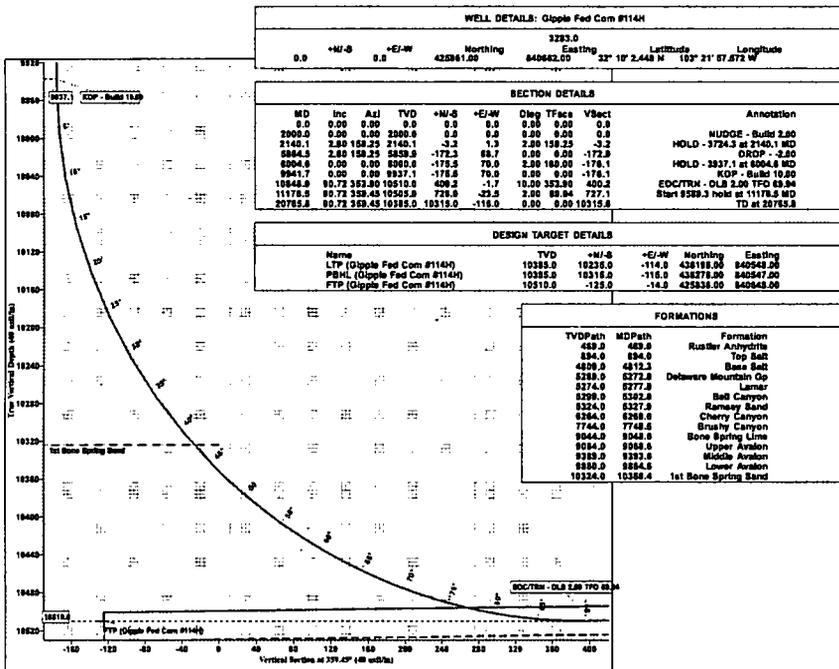
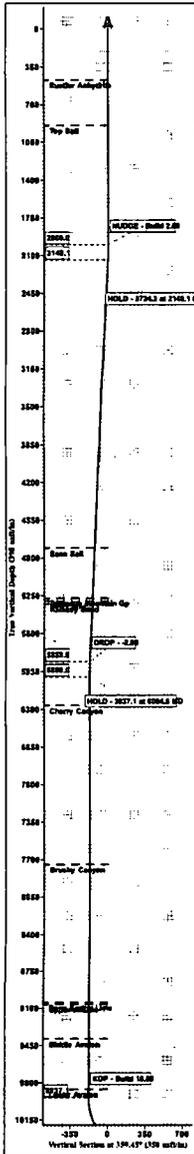




Azimuths to Grid North  
 True North: -0.52°  
 Magnetic North: 6.10°  
 Magnetic Field  
 Strength: 47702.8nT  
 Dip Angle: 60.014°  
 Date: 08/21/2018  
 Model: IGRF2015

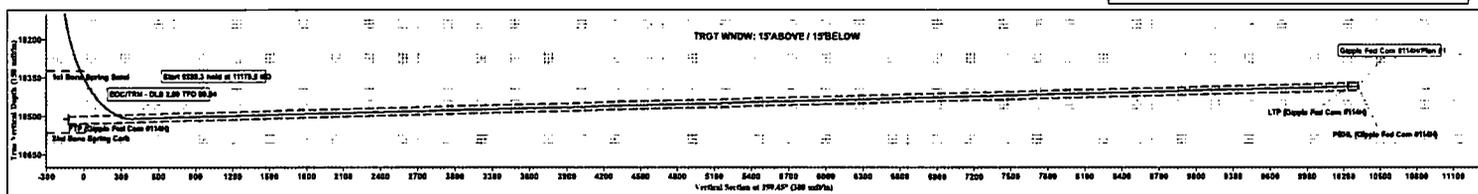
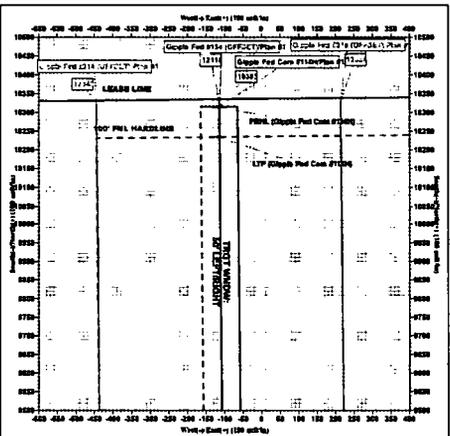
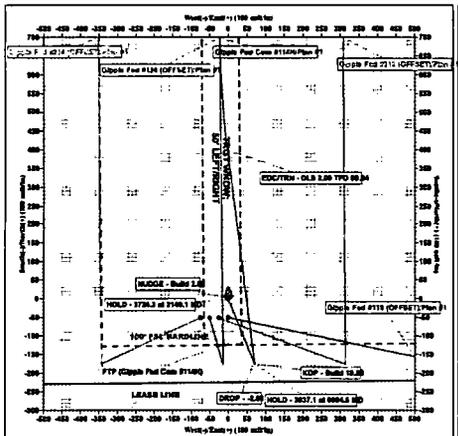
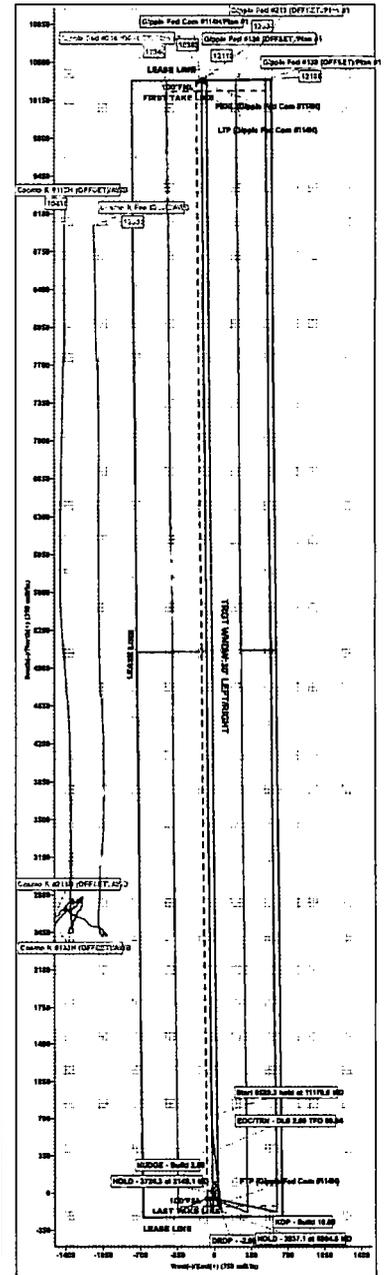
To convert a Magnetic direction to a Grid direction, Add 6.10°

Tap Rock Resources, LLC  
 Project: Lea County, NM (MAD 83 NME)  
 Site: (Gippe) Sec-33 T-24-S-R-35-E  
 Well: Gippe Fed Com #114H  
 Wellbore: OWB  
 Design: Plan #1  
 Lat: 32° 10' 2.448 N  
 Long: 103° 21' 57.572 W  
 Pad GL: 3283.0  
 KB: KB @ 3509.0usft



DESIGN TARGET DETAILS					
Name	TVD	+M-S	+E-W	Northing	Easting
LTP (Gippe Fed Com #114H)	10385.0	18235.0	-114.0	428185.00	840548.00
PBH/L (Gippe Fed Com #114H)	10385.0	18315.0	-115.0	428278.00	840547.00
FTP (Gippe Fed Com #114H)	10510.0	-125.0	-14.0	428258.00	840648.00

FORMATIONS		
TVDPath	MDPath	Formation
489.0	489.0	Rustler Anhydrite
834.0	834.0	Top Salt
4828.0	4812.5	Bone Salt
5281.0	5277.0	Delaware Mountain Cap
5374.0	5377.0	Lamar
5399.0	5392.0	Red Canyon
5324.0	5327.0	Ramsey Sand
5264.0	5268.0	Cherry Canyon
7744.0	7748.0	Grassy Canyon
8044.0	8048.0	Bone Spring Lime
8084.0	8088.0	Upper Avalon
8281.0	8285.0	Middle Avalon
8889.0	8884.0	Lower Avalon
10324.0	10328.0	1st Bone Spring Sand





## **Tap Rock Resources, LLC**

**Lea County, NM (NAD 83 NME)  
(Gipple) Sec-33\_T-24-S\_R-35-E  
Gipple Fed Com #114H**

**OWB**

**Plan: Plan #1**

## **Standard Planning Report**

**22 August, 2019**





**Intrepid**  
Planning Report



<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Site (Gipple) Sec-33_T-24-S_R-35-E
<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3309.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3309.0usft
<b>Site:</b>	(Gipple) Sec-33_T-24-S_R-35-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Gipple Fed Com #114H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	Plan #1		

<b>Project</b>	Lea County, NM (NAD 83 NME)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Site</b>	(Gipple) Sec-33_T-24-S_R-35-E				
<b>Site Position:</b>	<b>Northing:</b>	425,961.00 usft	<b>Latitude:</b>	32° 10' 2.448 N	
<b>From:</b> Map	<b>Easting:</b>	840,662.00 usft	<b>Longitude:</b>	103° 21' 57.572 W	
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.52 °

<b>Well</b>	Gipple Fed Com #114H					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	425,961.00 usft	<b>Latitude:</b>	32° 10' 2.448 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	840,662.00 usft	<b>Longitude:</b>	103° 21' 57.572 W
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	3,283.0 usft	

<b>Wellbore</b>	OWB
-----------------	-----

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	08/21/19	6.62	60.01	47,702.82441147

<b>Design</b>	Plan #1
---------------	---------

<b>Audit Notes:</b>	
<b>Version:</b>	<b>Phase:</b> PLAN <b>Tie On Depth:</b> 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.45

Plan Survey Tool Program	Date	08/22/19		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,765.6	Plan #1 (OWB)	MWD OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,140.1	2.80	158.25	2,140.1	-3.2	1.3	2.00	2.00	0.00	158.25	
5,864.5	2.80	158.25	5,859.9	-172.3	68.7	0.00	0.00	0.00	0.00	
6,004.6	0.00	0.00	6,000.0	-175.5	70.0	2.00	-2.00	0.00	180.00	
9,941.7	0.00	0.00	9,937.1	-175.5	70.0	0.00	0.00	0.00	0.00	
10,848.9	90.72	352.90	10,510.0	400.2	-1.7	10.00	10.00	0.00	352.90	
11,176.5	90.72	359.45	10,505.9	726.9	-23.5	2.00	0.00	2.00	89.94	
20,765.8	90.72	359.45	10,385.0	10,315.0	-115.0	0.00	0.00	0.00	0.00	PBHL (Gipple Fed (



**Intrepid**  
Planning Report



<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Site (Gipple) Sec-33_T-24-S_R-35-E
<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3309.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3309.0usft
<b>Site:</b>	(Gipple) Sec-33_T-24-S_R-35-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Gipple Fed Com #114H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
469.0	0.00	0.00	469.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Rustler Anhydrite</b>									
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
894.0	0.00	0.00	894.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Top Salt</b>									
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>NUDGE - Build 2.00</b>									
2,100.0	2.00	158.25	2,100.0	-1.6	0.6	-1.6	2.00	2.00	0.00
2,140.1	2.80	158.25	2,140.1	-3.2	1.3	-3.2	2.00	2.00	0.00
<b>HOLD - 3724.3 at 2140.1 MD</b>									
2,200.0	2.80	158.25	2,199.9	-5.9	2.4	-5.9	0.00	0.00	0.00
2,300.0	2.80	158.25	2,299.8	-10.4	4.2	-10.5	0.00	0.00	0.00
2,400.0	2.80	158.25	2,399.6	-15.0	6.0	-15.0	0.00	0.00	0.00
2,500.0	2.80	158.25	2,499.5	-19.5	7.8	-19.6	0.00	0.00	0.00
2,600.0	2.80	158.25	2,599.4	-24.1	9.6	-24.2	0.00	0.00	0.00
2,700.0	2.80	158.25	2,699.3	-28.6	11.4	-28.7	0.00	0.00	0.00
2,800.0	2.80	158.25	2,799.2	-33.1	13.2	-33.3	0.00	0.00	0.00
2,900.0	2.80	158.25	2,899.0	-37.7	15.0	-37.8	0.00	0.00	0.00
3,000.0	2.80	158.25	2,998.9	-42.2	16.8	-42.4	0.00	0.00	0.00
3,100.0	2.80	158.25	3,098.8	-46.8	18.7	-46.9	0.00	0.00	0.00
3,200.0	2.80	158.25	3,198.7	-51.3	20.5	-51.5	0.00	0.00	0.00
3,300.0	2.80	158.25	3,298.6	-55.8	22.3	-56.1	0.00	0.00	0.00
3,400.0	2.80	158.25	3,398.4	-60.4	24.1	-60.6	0.00	0.00	0.00
3,500.0	2.80	158.25	3,498.3	-64.9	25.9	-65.2	0.00	0.00	0.00
3,600.0	2.80	158.25	3,598.2	-69.5	27.7	-69.7	0.00	0.00	0.00
3,700.0	2.80	158.25	3,698.1	-74.0	29.5	-74.3	0.00	0.00	0.00
3,800.0	2.80	158.25	3,798.0	-78.6	31.3	-78.9	0.00	0.00	0.00
3,900.0	2.80	158.25	3,897.8	-83.1	33.1	-83.4	0.00	0.00	0.00
4,000.0	2.80	158.25	3,997.7	-87.6	35.0	-88.0	0.00	0.00	0.00
4,100.0	2.80	158.25	4,097.6	-92.2	36.8	-92.5	0.00	0.00	0.00
4,200.0	2.80	158.25	4,197.5	-96.7	38.6	-97.1	0.00	0.00	0.00
4,300.0	2.80	158.25	4,297.4	-101.3	40.4	-101.6	0.00	0.00	0.00
4,400.0	2.80	158.25	4,397.2	-105.8	42.2	-106.2	0.00	0.00	0.00
4,500.0	2.80	158.25	4,497.1	-110.3	44.0	-110.8	0.00	0.00	0.00
4,600.0	2.80	158.25	4,597.0	-114.9	45.8	-115.3	0.00	0.00	0.00



**Intrepid**  
Planning Report



<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Site (Gipple) Sec-33_T-24-S_R-35-E
<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3309.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3309.0usft
<b>Site:</b>	(Gipple) Sec-33_T-24-S_R-35-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Gipple Fed Com #114H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	Plan #1		

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buidl Rate (°/100usft)	Turn Rate (°/100usft)
4,700.0	2.80	158.25	4,696.9	-119.4	47.6	-119.9	0.00	0.00	0.00
4,800.0	2.80	158.25	4,796.8	-124.0	49.4	-124.4	0.00	0.00	0.00
4,812.3	2.80	158.25	4,809.0	-124.5	49.7	-125.0	0.00	0.00	0.00
<b>Base Salt</b>									
4,900.0	2.80	158.25	4,896.6	-128.5	51.3	-129.0	0.00	0.00	0.00
5,000.0	2.80	158.25	4,996.5	-133.0	53.1	-133.5	0.00	0.00	0.00
5,100.0	2.80	158.25	5,096.4	-137.6	54.9	-138.1	0.00	0.00	0.00
5,200.0	2.80	158.25	5,196.3	-142.1	56.7	-142.7	0.00	0.00	0.00
5,272.8	2.80	158.25	5,269.0	-145.4	58.0	-146.0	0.00	0.00	0.00
<b>Delaware Mountain Gp</b>									
5,277.8	2.80	158.25	5,274.0	-145.7	58.1	-146.2	0.00	0.00	0.00
<b>Lamar</b>									
5,300.0	2.80	158.25	5,296.2	-146.7	58.5	-147.2	0.00	0.00	0.00
5,302.8	2.80	158.25	5,299.0	-146.8	58.6	-147.3	0.00	0.00	0.00
<b>Bell Canyon</b>									
5,327.9	2.80	158.25	5,324.0	-147.9	59.0	-148.5	0.00	0.00	0.00
<b>Ramsey Sand</b>									
5,400.0	2.80	158.25	5,396.0	-151.2	60.3	-151.8	0.00	0.00	0.00
5,500.0	2.80	158.25	5,495.9	-155.7	62.1	-156.3	0.00	0.00	0.00
5,600.0	2.80	158.25	5,595.8	-160.3	63.9	-160.9	0.00	0.00	0.00
5,700.0	2.80	158.25	5,695.7	-164.8	65.8	-165.5	0.00	0.00	0.00
5,800.0	2.80	158.25	5,795.6	-169.4	67.6	-170.0	0.00	0.00	0.00
5,864.5	2.80	158.25	5,859.9	-172.3	68.7	-172.9	0.00	0.00	0.00
<b>DROP - -2.00</b>									
5,900.0	2.09	158.25	5,895.5	-173.7	69.3	-174.4	2.00	-2.00	0.00
6,004.6	0.00	0.00	6,000.0	-175.5	70.0	-176.1	2.00	-2.00	0.00
<b>HOLD - 3937.1 at 6004.6 MD</b>									
6,100.0	0.00	0.00	6,095.4	-175.5	70.0	-176.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,195.4	-175.5	70.0	-176.1	0.00	0.00	0.00
6,268.6	0.00	0.00	6,264.0	-175.5	70.0	-176.1	0.00	0.00	0.00
<b>Cherry Canyon</b>									
6,300.0	0.00	0.00	6,295.4	-175.5	70.0	-176.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,395.4	-175.5	70.0	-176.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,495.4	-175.5	70.0	-176.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,595.4	-175.5	70.0	-176.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,695.4	-175.5	70.0	-176.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,795.4	-175.5	70.0	-176.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,895.4	-175.5	70.0	-176.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,995.4	-175.5	70.0	-176.1	0.00	0.00	0.00
7,100.0	0.00	0.00	7,095.4	-175.5	70.0	-176.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,195.4	-175.5	70.0	-176.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,295.4	-175.5	70.0	-176.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,395.4	-175.5	70.0	-176.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,495.4	-175.5	70.0	-176.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,595.4	-175.5	70.0	-176.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,695.4	-175.5	70.0	-176.1	0.00	0.00	0.00
7,748.6	0.00	0.00	7,744.0	-175.5	70.0	-176.1	0.00	0.00	0.00
<b>Brushy Canyon</b>									
7,800.0	0.00	0.00	7,795.4	-175.5	70.0	-176.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,895.4	-175.5	70.0	-176.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,995.4	-175.5	70.0	-176.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,095.4	-175.5	70.0	-176.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,195.4	-175.5	70.0	-176.1	0.00	0.00	0.00



**Intrepid**  
Planning Report



<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Site (Gipple) Sec-33_T-24-S_R-35-E
<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3309.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3309.0usft
<b>Site:</b>	(Gipple) Sec-33_T-24-S_R-35-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Gipple Fed Com #114H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,300.0	0.00	0.00	8,295.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,395.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,495.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,595.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,695.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,795.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,895.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,995.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
9,048.6	0.00	0.00	9,044.0	-175.5	70.0	-176.1	0.00	0.00	0.00	
<b>Bone Spring Lime</b>										
9,068.6	0.00	0.00	9,064.0	-175.5	70.0	-176.1	0.00	0.00	0.00	
<b>Upper Avalon</b>										
9,100.0	0.00	0.00	9,095.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,195.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,295.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
9,393.6	0.00	0.00	9,389.0	-175.5	70.0	-176.1	0.00	0.00	0.00	
<b>Middle Avalon</b>										
9,400.0	0.00	0.00	9,395.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,495.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,595.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,695.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,795.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
9,864.6	0.00	0.00	9,860.0	-175.5	70.0	-176.1	0.00	0.00	0.00	
<b>Lower Avalon</b>										
9,900.0	0.00	0.00	9,895.4	-175.5	70.0	-176.1	0.00	0.00	0.00	
9,941.7	0.00	0.00	9,937.1	-175.5	70.0	-176.1	0.00	0.00	0.00	
<b>KOP - Build 10.00</b>										
9,950.0	0.83	352.90	9,945.4	-175.4	70.0	-176.1	10.00	10.00	0.00	
10,000.0	5.83	352.90	9,995.3	-172.5	69.6	-173.2	10.00	10.00	0.00	
10,050.0	10.83	352.90	10,044.8	-165.3	68.7	-166.0	10.00	10.00	0.00	
10,100.0	15.83	352.90	10,093.4	-153.9	67.3	-154.5	10.00	10.00	0.00	
10,150.0	20.83	352.90	10,140.9	-138.3	65.4	-138.9	10.00	10.00	0.00	
10,200.0	25.83	352.90	10,186.8	-118.7	62.9	-119.3	10.00	10.00	0.00	
10,250.0	30.83	352.90	10,230.8	-95.1	60.0	-95.7	10.00	10.00	0.00	
10,300.0	35.83	352.90	10,272.5	-67.9	56.6	-68.4	10.00	10.00	0.00	
10,350.0	40.83	352.90	10,311.7	-37.1	52.8	-37.6	10.00	10.00	0.00	
10,366.4	42.47	352.90	10,324.0	-26.3	51.4	-26.8	10.00	10.00	0.00	
<b>1st Bone Spring Sand</b>										
10,400.0	45.83	352.90	10,348.1	-3.1	48.5	-3.5	10.00	10.00	0.00	
10,450.0	50.83	352.90	10,381.3	34.0	43.9	33.6	10.00	10.00	0.00	
10,500.0	55.83	352.90	10,411.2	73.8	39.0	73.4	10.00	10.00	0.00	
10,550.0	60.83	352.90	10,437.4	116.0	33.7	115.7	10.00	10.00	0.00	
10,600.0	65.83	352.90	10,459.8	160.3	28.2	160.0	10.00	10.00	0.00	
10,650.0	70.83	352.90	10,478.3	206.4	22.4	206.2	10.00	10.00	0.00	
10,700.0	75.83	352.90	10,492.6	253.9	16.5	253.8	10.00	10.00	0.00	
10,750.0	80.83	352.90	10,502.7	302.5	10.5	302.4	10.00	10.00	0.00	
10,800.0	85.83	352.90	10,508.5	351.8	4.3	351.7	10.00	10.00	0.00	
10,848.9	90.72	352.90	10,510.0	400.2	-1.7	400.2	10.00	10.00	0.00	
<b>EOC/TRN - DLS 2.00 TFO 89.94</b>										
10,900.0	90.72	353.92	10,509.4	451.0	-7.6	451.1	2.00	0.00	2.00	
11,000.0	90.72	355.92	10,508.1	550.6	-16.4	550.8	2.00	0.00	2.00	
11,100.0	90.72	357.92	10,506.8	650.5	-21.8	650.6	2.00	0.00	2.00	
11,176.5	90.72	359.45	10,505.9	726.9	-23.5	727.1	2.00	0.00	2.00	



**Intrepid**  
Planning Report



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<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3309.0usft
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<b>Site:</b>	(Gipple) Sec-33_T-24-S_R-35-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Gipple Fed Com #114H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	Plan #1		

**Planned Survey**

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>Start 9589.3 hold at 11176.5 MD</b>									
11,200.0	90.72	359.45	10,505.6	750.4	-23.8	750.6	0.00	0.00	0.00
11,300.0	90.72	359.45	10,504.3	850.4	-24.7	850.6	0.00	0.00	0.00
11,400.0	90.72	359.45	10,503.1	950.4	-25.7	950.6	0.00	0.00	0.00
11,500.0	90.72	359.45	10,501.8	1,050.4	-26.6	1,050.6	0.00	0.00	0.00
11,600.0	90.72	359.45	10,500.5	1,150.4	-27.6	1,150.6	0.00	0.00	0.00
11,700.0	90.72	359.45	10,499.3	1,250.4	-28.5	1,250.6	0.00	0.00	0.00
11,800.0	90.72	359.45	10,498.0	1,350.4	-29.5	1,350.6	0.00	0.00	0.00
11,900.0	90.72	359.45	10,496.8	1,450.3	-30.4	1,450.6	0.00	0.00	0.00
12,000.0	90.72	359.45	10,495.5	1,550.3	-31.4	1,550.6	0.00	0.00	0.00
12,100.0	90.72	359.45	10,494.2	1,650.3	-32.3	1,650.6	0.00	0.00	0.00
12,200.0	90.72	359.45	10,493.0	1,750.3	-33.3	1,750.5	0.00	0.00	0.00
12,300.0	90.72	359.45	10,491.7	1,850.3	-34.3	1,850.5	0.00	0.00	0.00
12,400.0	90.72	359.45	10,490.5	1,950.3	-35.2	1,950.5	0.00	0.00	0.00
12,500.0	90.72	359.45	10,489.2	2,050.3	-36.2	2,050.5	0.00	0.00	0.00
12,600.0	90.72	359.45	10,487.9	2,150.3	-37.1	2,150.5	0.00	0.00	0.00
12,700.0	90.72	359.45	10,486.7	2,250.2	-38.1	2,250.5	0.00	0.00	0.00
12,800.0	90.72	359.45	10,485.4	2,350.2	-39.0	2,350.5	0.00	0.00	0.00
12,900.0	90.72	359.45	10,484.2	2,450.2	-40.0	2,450.5	0.00	0.00	0.00
13,000.0	90.72	359.45	10,482.9	2,550.2	-40.9	2,550.5	0.00	0.00	0.00
13,100.0	90.72	359.45	10,481.6	2,650.2	-41.9	2,650.5	0.00	0.00	0.00
13,200.0	90.72	359.45	10,480.4	2,750.2	-42.8	2,750.5	0.00	0.00	0.00
13,300.0	90.72	359.45	10,479.1	2,850.2	-43.8	2,850.5	0.00	0.00	0.00
13,400.0	90.72	359.45	10,477.9	2,950.2	-44.7	2,950.4	0.00	0.00	0.00
13,500.0	90.72	359.45	10,476.6	3,050.1	-45.7	3,050.4	0.00	0.00	0.00
13,600.0	90.72	359.45	10,475.3	3,150.1	-46.7	3,150.4	0.00	0.00	0.00
13,700.0	90.72	359.45	10,474.1	3,250.1	-47.6	3,250.4	0.00	0.00	0.00
13,800.0	90.72	359.45	10,472.8	3,350.1	-48.6	3,350.4	0.00	0.00	0.00
13,900.0	90.72	359.45	10,471.6	3,450.1	-49.5	3,450.4	0.00	0.00	0.00
14,000.0	90.72	359.45	10,470.3	3,550.1	-50.5	3,550.4	0.00	0.00	0.00
14,100.0	90.72	359.45	10,469.0	3,650.1	-51.4	3,650.4	0.00	0.00	0.00
14,200.0	90.72	359.45	10,467.8	3,750.1	-52.4	3,750.4	0.00	0.00	0.00
14,300.0	90.72	359.45	10,466.5	3,850.0	-53.3	3,850.4	0.00	0.00	0.00
14,400.0	90.72	359.45	10,465.2	3,950.0	-54.3	3,950.4	0.00	0.00	0.00
14,500.0	90.72	359.45	10,464.0	4,050.0	-55.2	4,050.4	0.00	0.00	0.00
14,600.0	90.72	359.45	10,462.7	4,150.0	-56.2	4,150.4	0.00	0.00	0.00
14,700.0	90.72	359.45	10,461.5	4,250.0	-57.1	4,250.3	0.00	0.00	0.00
14,800.0	90.72	359.45	10,460.2	4,350.0	-58.1	4,350.3	0.00	0.00	0.00
14,900.0	90.72	359.45	10,458.9	4,450.0	-59.1	4,450.3	0.00	0.00	0.00
15,000.0	90.72	359.45	10,457.7	4,550.0	-60.0	4,550.3	0.00	0.00	0.00
15,100.0	90.72	359.45	10,456.4	4,649.9	-61.0	4,650.3	0.00	0.00	0.00
15,200.0	90.72	359.45	10,455.2	4,749.9	-61.9	4,750.3	0.00	0.00	0.00
15,300.0	90.72	359.45	10,453.9	4,849.9	-62.9	4,850.3	0.00	0.00	0.00
15,400.0	90.72	359.45	10,452.6	4,949.9	-63.8	4,950.3	0.00	0.00	0.00
15,500.0	90.72	359.45	10,451.4	5,049.9	-64.8	5,050.3	0.00	0.00	0.00
15,600.0	90.72	359.45	10,450.1	5,149.9	-65.7	5,150.3	0.00	0.00	0.00
15,700.0	90.72	359.45	10,448.9	5,249.9	-66.7	5,250.3	0.00	0.00	0.00
15,800.0	90.72	359.45	10,447.6	5,349.9	-67.6	5,350.3	0.00	0.00	0.00
15,900.0	90.72	359.45	10,446.3	5,449.8	-68.6	5,450.3	0.00	0.00	0.00
16,000.0	90.72	359.45	10,445.1	5,549.8	-69.5	5,550.2	0.00	0.00	0.00
16,100.0	90.72	359.45	10,443.8	5,649.8	-70.5	5,650.2	0.00	0.00	0.00
16,200.0	90.72	359.45	10,442.6	5,749.8	-71.5	5,750.2	0.00	0.00	0.00
16,300.0	90.72	359.45	10,441.3	5,849.8	-72.4	5,850.2	0.00	0.00	0.00



Intrepid  
Planning Report



<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Site (Gipple) Sec-33_T-24-S_R-35-E
<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3309.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3309.0usft
<b>Site:</b>	(Gipple) Sec-33_T-24-S_R-35-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Gipple Fed Com #114H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,400.0	90.72	359.45	10,440.0	5,949.8	-73.4	5,950.2	0.00	0.00	0.00
16,500.0	90.72	359.45	10,438.8	6,049.8	-74.3	6,050.2	0.00	0.00	0.00
16,600.0	90.72	359.45	10,437.5	6,149.8	-75.3	6,150.2	0.00	0.00	0.00
16,700.0	90.72	359.45	10,436.3	6,249.7	-76.2	6,250.2	0.00	0.00	0.00
16,800.0	90.72	359.45	10,435.0	6,349.7	-77.2	6,350.2	0.00	0.00	0.00
16,900.0	90.72	359.45	10,433.7	6,449.7	-78.1	6,450.2	0.00	0.00	0.00
17,000.0	90.72	359.45	10,432.5	6,549.7	-79.1	6,550.2	0.00	0.00	0.00
17,100.0	90.72	359.45	10,431.2	6,649.7	-80.0	6,650.2	0.00	0.00	0.00
17,200.0	90.72	359.45	10,430.0	6,749.7	-81.0	6,750.1	0.00	0.00	0.00
17,300.0	90.72	359.45	10,428.7	6,849.7	-81.9	6,850.1	0.00	0.00	0.00
17,400.0	90.72	359.45	10,427.4	6,949.7	-82.9	6,950.1	0.00	0.00	0.00
17,500.0	90.72	359.45	10,426.2	7,049.6	-83.9	7,050.1	0.00	0.00	0.00
17,600.0	90.72	359.45	10,424.9	7,149.6	-84.8	7,150.1	0.00	0.00	0.00
17,700.0	90.72	359.45	10,423.6	7,249.6	-85.8	7,250.1	0.00	0.00	0.00
17,800.0	90.72	359.45	10,422.4	7,349.6	-86.7	7,350.1	0.00	0.00	0.00
17,900.0	90.72	359.45	10,421.1	7,449.6	-87.7	7,450.1	0.00	0.00	0.00
18,000.0	90.72	359.45	10,419.9	7,549.6	-88.6	7,550.1	0.00	0.00	0.00
18,100.0	90.72	359.45	10,418.6	7,649.6	-89.6	7,650.1	0.00	0.00	0.00
18,200.0	90.72	359.45	10,417.3	7,749.6	-90.5	7,750.1	0.00	0.00	0.00
18,300.0	90.72	359.45	10,416.1	7,849.5	-91.5	7,850.1	0.00	0.00	0.00
18,400.0	90.72	359.45	10,414.8	7,949.5	-92.4	7,950.1	0.00	0.00	0.00
18,500.0	90.72	359.45	10,413.6	8,049.5	-93.4	8,050.0	0.00	0.00	0.00
18,600.0	90.72	359.45	10,412.3	8,149.5	-94.3	8,150.0	0.00	0.00	0.00
18,700.0	90.72	359.45	10,411.0	8,249.5	-95.3	8,250.0	0.00	0.00	0.00
18,800.0	90.72	359.45	10,409.8	8,349.5	-96.3	8,350.0	0.00	0.00	0.00
18,900.0	90.72	359.45	10,408.5	8,449.5	-97.2	8,450.0	0.00	0.00	0.00
19,000.0	90.72	359.45	10,407.3	8,549.5	-98.2	8,550.0	0.00	0.00	0.00
19,100.0	90.72	359.45	10,406.0	8,649.4	-99.1	8,650.0	0.00	0.00	0.00
19,200.0	90.72	359.45	10,404.7	8,749.4	-100.1	8,750.0	0.00	0.00	0.00
19,300.0	90.72	359.45	10,403.5	8,849.4	-101.0	8,850.0	0.00	0.00	0.00
19,400.0	90.72	359.45	10,402.2	8,949.4	-102.0	8,950.0	0.00	0.00	0.00
19,500.0	90.72	359.45	10,401.0	9,049.4	-102.9	9,050.0	0.00	0.00	0.00
19,600.0	90.72	359.45	10,399.7	9,149.4	-103.9	9,150.0	0.00	0.00	0.00
19,700.0	90.72	359.45	10,398.4	9,249.4	-104.8	9,249.9	0.00	0.00	0.00
19,800.0	90.72	359.45	10,397.2	9,349.4	-105.8	9,349.9	0.00	0.00	0.00
19,900.0	90.72	359.45	10,395.9	9,449.3	-106.7	9,449.9	0.00	0.00	0.00
20,000.0	90.72	359.45	10,394.7	9,549.3	-107.7	9,549.9	0.00	0.00	0.00
20,100.0	90.72	359.45	10,393.4	9,649.3	-108.7	9,649.9	0.00	0.00	0.00
20,200.0	90.72	359.45	10,392.1	9,749.3	-109.6	9,749.9	0.00	0.00	0.00
20,300.0	90.72	359.45	10,390.9	9,849.3	-110.6	9,849.9	0.00	0.00	0.00
20,400.0	90.72	359.45	10,389.6	9,949.3	-111.5	9,949.9	0.00	0.00	0.00
20,500.0	90.72	359.45	10,388.4	10,049.3	-112.5	10,049.9	0.00	0.00	0.00
20,600.0	90.72	359.45	10,387.1	10,149.3	-113.4	10,149.9	0.00	0.00	0.00
20,700.0	90.72	359.45	10,385.8	10,249.2	-114.4	10,249.9	0.00	0.00	0.00
20,765.8	90.72	359.45	10,385.0	10,315.0	-115.0	10,315.6	0.00	0.00	0.00

TD at 20765.8



**Intrepid**  
Planning Report



<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Site (Gipple) Sec-33_T-24-S_R-35-E
<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3309.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3309.0usft
<b>Site:</b>	(Gipple) Sec-33_T-24-S_R-35-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Gipple Fed Com #114H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	Plan #1		

**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	Longitude
LTP (Gipple Fed Com - plan misses target center by 1.0usft at 20685.8usft MD (10386.0 TVD, 10235.0 N, -114.2 E) - Point	0.00	0.00	10,385.0	10,235.0	-114.0	436,196.00	840,548.00	32° 11' 43.730 N	103° 21' 57.827 W
PBHL (Gipple Fed Co - plan hits target center - Rectangle (sides W100.0 H10,441.0 D30.0)	-0.72	359.45	10,385.0	10,315.0	-115.0	436,276.00	840,547.00	32° 11' 44.522 N	103° 21' 57.831 W
FTP (Gipple Fed Com - plan misses target center by 210.4usft at 10423.0usft MD (10363.8 TVD, 13.6 N, 46.4 E) - Point	0.00	0.00	10,510.0	-125.0	-14.0	425,836.00	840,648.00	32° 10' 1.212 N	103° 21' 57.748 W

**Formations**

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
469.0	469.0	Rustler Anhydrite			
894.0	894.0	Top Salt			
4,812.3	4,809.0	Base Salt			
5,272.8	5,269.0	Delaware Mountain Gp			
5,277.8	5,274.0	Lamar			
5,302.8	5,299.0	Bell Canyon			
5,327.9	5,324.0	Ramsey Sand			
6,268.6	6,264.0	Cherry Canyon			
7,748.6	7,744.0	Brushy Canyon			
9,048.6	9,044.0	Bone Spring Lime			
9,068.6	9,064.0	Upper Avalon			
9,393.6	9,389.0	Middle Avalon			
9,864.6	9,860.0	Lower Avalon			
10,366.4	10,324.0	1st Bone Spring Sand			

**Plan Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.0	2,000.0	0.0	0.0	NUDGE - Build 2.00
2,140.1	2,140.1	-3.2	1.3	HOLD - 3724.3 at 2140.1 MD
5,864.5	5,859.9	-172.3	68.7	DROP - -2.00
6,004.6	6,000.0	-175.5	70.0	HOLD - 3937.1 at 6004.6 MD
9,941.7	9,937.1	-175.5	70.0	KOP - Build 10.00
10,848.9	10,510.0	400.2	-1.7	EOC/TRN - DLS 2.00 TFO 89.94
11,176.5	10,505.9	726.9	-23.5	Start 9589.3 hold at 11176.5 MD
20,765.8	10,385.0	10,315.0	-115.0	TD at 20765.8



Drilling Operations Plan  
Gipple Fed Com #114H  
Tap Rock Operating, LLC  
SHL 225' FSL & 645' FEL, Sec. 33  
BHL 20' FNL & 660' FEL, Sec. 28  
T. 24S., R. 35E Lea County, NM

Elevation above Sea Level: 3283'

## **DRILLING PROGRAM**

### **1. Estimated Tops**

<b>Formation</b>	<b>TVD</b>	<b>MD</b>	<b>Lithologies</b>	<b>Bearing</b>
Quaternary Deposits	0	0	Surface	None
Rustler Anhydrite	469	469		Salt
Salado	894	894	Salt	Salt
Base Salt	4809	4812		Salt
Lamar	5274	5283	Limestone	None
Bell Canyon	5299	5302	Sandstone	Hydrocarbons
Cherry Canyon	6264	6269	Sandstone	Hydrocarbons
Brushy Canyon	7744	7749	Sandstone	Hydrocarbons
Bone Spring	9044	9048	Limestone	Hydrocarbons
KOP	9937	9941	Sandstone	Hydrocarbons
1st Bone Spring	10324	10366	Sandstone	Hydrocarbons
TD	10385	20765	Shale	Hydrocarbons

### **2. Notable Zones**

1<sup>st</sup> Bone Spring Sand is the target formation.

### **3. Pressure Control**

Pressure Control Equipment (See Schematics):

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

BOP Test procedure will be as follows:

After surface casing is set and the BOP is nipped up, the BOP pressure tests will be made with a third party tester to 250 psi low, 5000 psi high, and the annular preventer will be tested to 2,500 psi. The BOP will be tested in this manner after nipple-up if any break of the stack occurs.



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**Variance Requests:**

Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate 1, and Production Strings. Tap Rock requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used.

Tap Rock requests approval to possibly utilize a spudder rig to drill and set casing for the surface interval on this well. The spudder rig will be possibly utilized in order to reduce cost and save time. The wellhead will be installed and tested as soon as the surface casing is cut off per the existing COAs. A blind flange with the same pressure rating as the wellhead will be installed on the well. Once the spudder rig is removed, Tap Rock will secure the wellhead area by placing a guard rail around the cellar. Pressure will be monitored and a means for intervention will be maintained while the drilling rig is not over the well. Spudder rig operations are expected to take 2-3 days per well. Three wells on the pad will have surface casing set by the spudder rig as a part of this operation. The BLM will be notified 24 hours prior to commencing spudder rig operations. Within 90 days of the departure of the spudder rig, drilling operations will recommence on these wells. This rig will have a BOP stack equal or greater to the pressure rating required in the COAs. The BLM will be notified 24 hours before the larger rig moves on the pre-set wells. Tap Rock will have supervision on the spudder rig to ensure compliance with all BLM and NMOCD regulations.

**4. Casing & Cement**

All Casing will be new.

Name	Hole Size	Casing Size	Standard	Tapered	Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	13 3/8	API	No	0	550	0	550	J-55	54.5	BUTT	1.13	1.15	1.6
1st Intermediate	12 1/4	9 5/8	API	No	0	5293	0	5284	J-55	40	BUTT	1.13	1.15	1.6
Production	8 3/4	5 1/2	NON API	No	0	20765	0	10385	P-110	20	TXP	1.13	1.15	1.6

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Tail	0	566	1.35	764	14.8	100%	C	5% NCI + LCM
1st Intermediate	Lead	0	1004	2.18	2188	12.7	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	4293	411	1.33	547	14.8	65%	C	5% NaCl + LCM
Production	Tail	4793	2952	1.71	5048	14.2	25%	H	Fluid Loss + Dispersant + Retarder + LCM

**5. Mud Program**

Electronic Pason mud monitor system complying with Onshore Order 1 will be used. All necessary mud products (e. g., barite, cedar bark) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions. A closed loop system will be used.



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Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	550	FW Spud Mud	8.30	28	NC
Intermediate	550	5330	Brine Water	10.00	30-32	NC
Production	5330	20765	Cut Brine	9.00	15-20	<10

#### 6. Cores, Tests, & Logs

- Electric Logging Program: No open-hole logs are planned at this time for the pilot hole.
- GR will be collected while drilling through the MWD tools from 9.625" casing shoe to TD.
- A 2-person mud logging program will be used from 9.625" casing shoe to TD.
- No DSTs or cores are planned at this time.
- CBL w/ CCL from as far as gravity will let it fall to TOC.
- Surface casing will be set in the Rustler.
- Intermediate 1 will be set in the Lamar.
- Production will be set in the 1st Bone Spring Sand

#### 7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is  $\approx 4,860$  psi. Expected bottom hole temperature is  $\approx 170^\circ$  F.

Tap Rock does not anticipate that there will be enough H<sub>2</sub>S from the surface to the Wolfcamp formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H<sub>2</sub>S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H<sub>2</sub>S safety package on all wells and an "H<sub>2</sub>S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be safely flared. All personnel will be familiar with all aspects of safe operation of equipment being used.

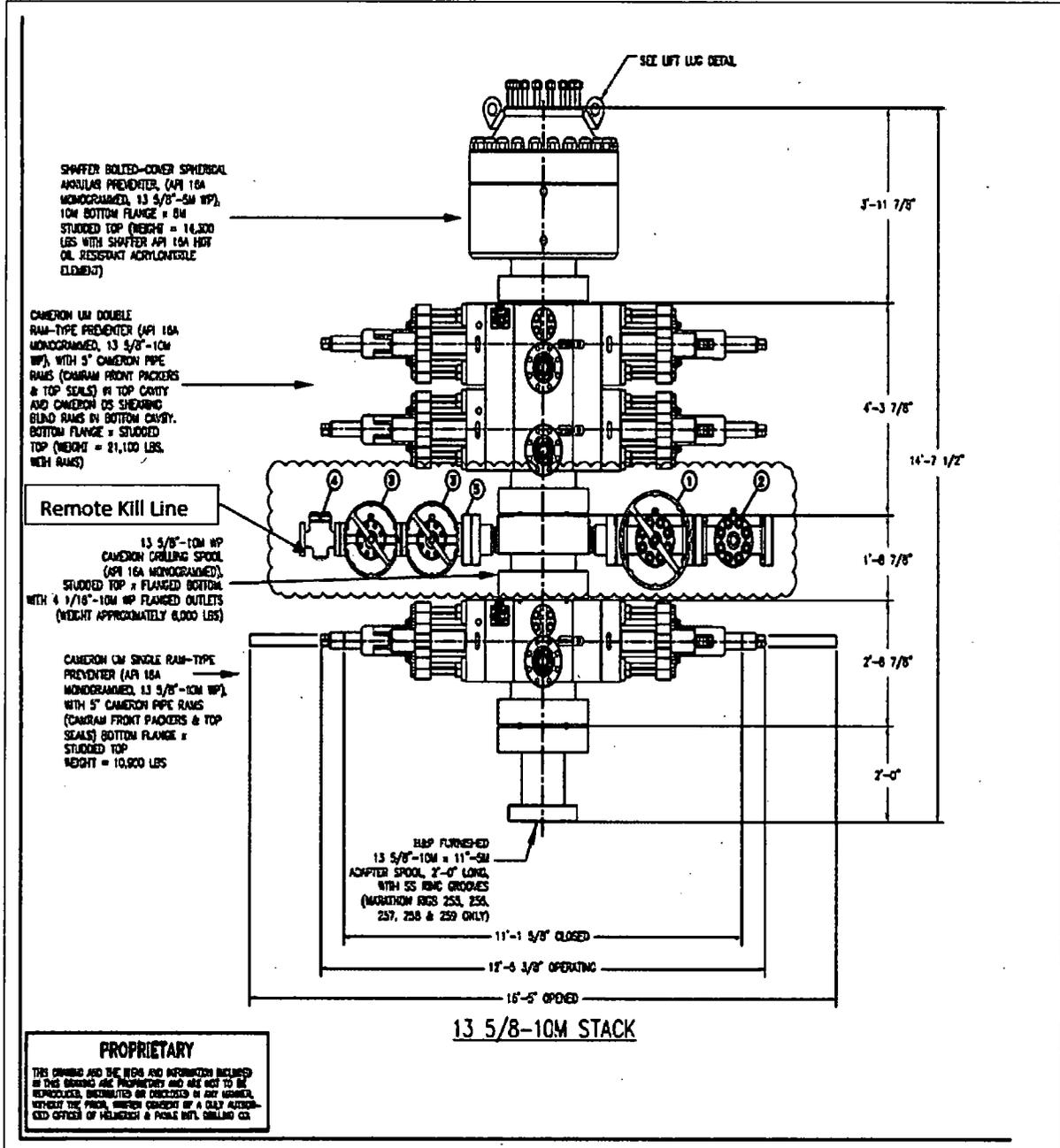
#### 8. Other Conditions

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.



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5,000 psi BOP Stack

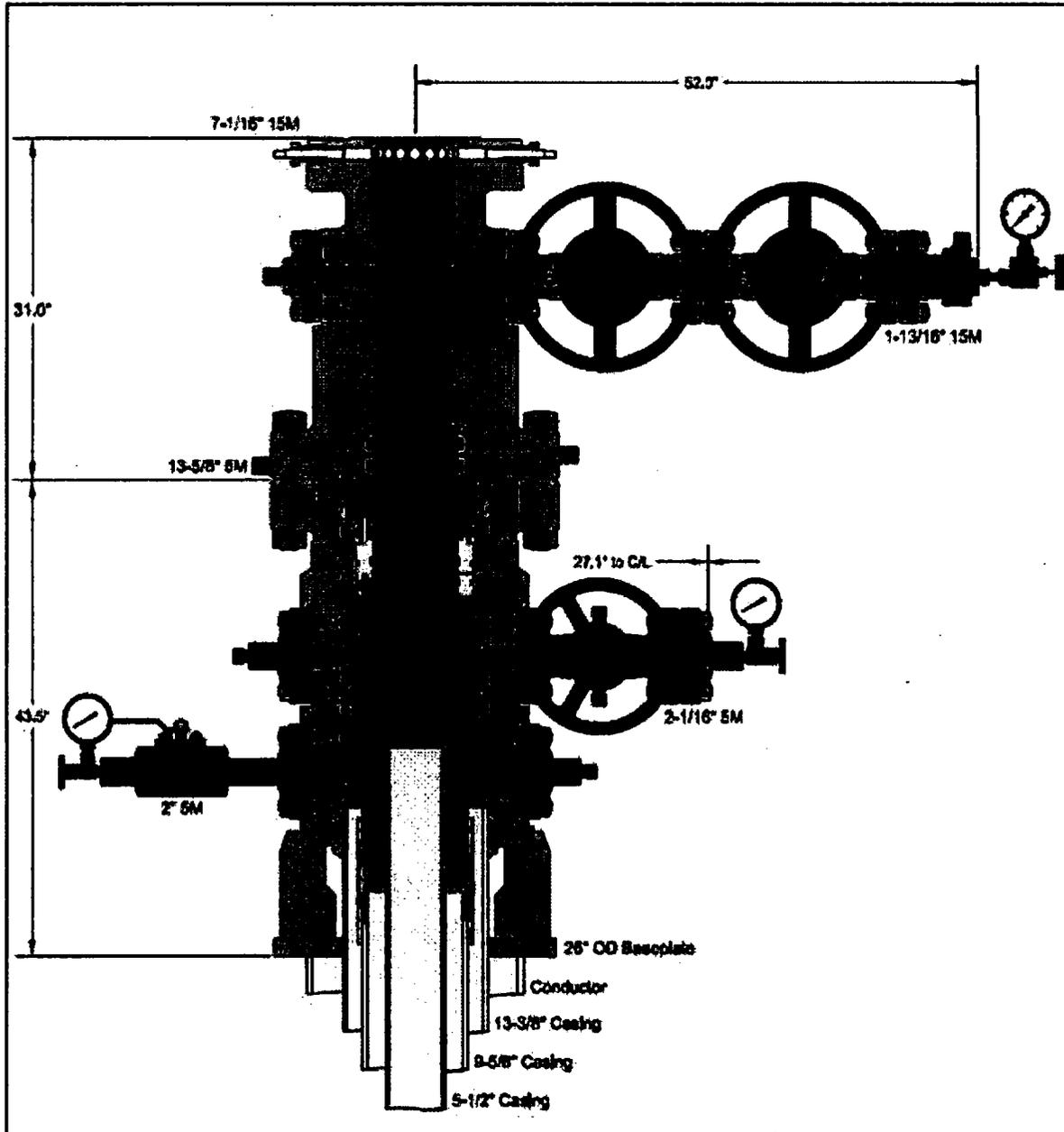






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Multi-bowl Wellhead







APD ID: 10400046402

Submission Date: 08/27/2019

Highlighted data  
reflects the most  
recent changes

Operator Name: TAP ROCK OPERATING LLC

Well Name: GIPPLE FED COM

Well Number: 114H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Gipple\_Existing\_Roads\_Map\_v1\_081319\_20191219094611.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Gipple\_New\_Access\_Roads\_Map\_Plats\_20191219094643.pdf

New road type: RESOURCE

Length: 2032.21

Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 24

New road access erosion control: Crowned and ditched

New road access plan or profile prepared? N

New road access plan attachment:

Access road engineering design? N

Access road engineering design attachment:

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** GIPPLE FED COM

**Well Number:** 114H

**Turnout?** N

**Access surfacing type:** OTHER

**Access topsoil source:** ONSITE

**Access surfacing type description:** Caliche

**Access onsite topsoil source depth:** 6

**Offsite topsoil source description:**

**Onsite topsoil removal process:** Grader

**Access other construction information:**

**Access miscellaneous information:**

**Number of access turnouts:**

**Access turnout map:**

### **Drainage Control**

**New road drainage crossing:** OTHER

**Drainage Control comments:** Crowned and ditched

**Road Drainage Control Structures (DCS) description:** None

**Road Drainage Control Structures (DCS) attachment:**

### **Access Additional Attachments**

#### **Section 3 - Location of Existing Wells**

**Existing Wells Map?** YES

**Attach Well map:**

Gipple\_114H\_1mi\_well\_Map\_v1\_020619\_20191219094824.pdf

#### **Section 4 - Location of Existing and/or Proposed Production Facilities**

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:**

**Production Facilities map:**

Gipple\_Facilities\_Map\_Plats\_20191219094844.pdf

#### **Section 5 - Location and Types of Water Supply**

##### **Water Source Table**

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** GIPPLE FED COM

**Well Number:** 114H

**Water source type:** OTHER

**Describe type:** Fee Fee Fed - SUPO not required

**Water source use type:** OTHER

**Describe use type:** Fee Fee Fed - SUPO not required

**Source latitude:**

**Source longitude:**

**Source datum:**

**Water source permit type:** OTHER

**Water source transport method:** TRUCKING

**Source land ownership:** OTHER

**Describe land ownership:** Fee Fee Fed - SUPO not r

**Source transportation land ownership:** OTHER

**Describe transportation land ownership:** Fee Fee Fe

**Water source volume (barrels):** 1

**Source volume (acre-feet):** 0.00012889

**Source volume (gal):** 42

**Water source and transportation map:**

Gipple\_Water\_Caliche\_Map\_v1\_091619\_20191219094922.pdf

**Water source comments:**

**New water well?** N

### New Water Well Info

**Well latitude:**

**Well Longitude:**

**Well datum:**

**Well target aquifer:**

**Est. depth to top of aquifer(ft):**

**Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):**

**Well casing type:**

**Well casing outside diameter (in.):**

**Well casing inside diameter (in.):**

**New water well casing?**

**Used casing source:**

**Drilling method:**

**Drill material:**

**Grout material:**

**Grout depth:**

**Casing length (ft.):**

**Casing top depth (ft.):**

**Well Production type:**

**Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** GIPPLE FED COM

**Well Number:** 114H

**Additional information attachment:**

### **Section 6 - Construction Materials**

**Using any construction materials:** YES

**Construction Materials description:** Caliche pit

**Construction Materials source location attachment:**

Gipple\_Water\_Caliche\_Map\_v1\_091619\_20191219095210.pdf

### **Section 7 - Methods for Handling Waste**

**Waste type:** DRILLING

**Waste content description:** Fee Fee Fed - SUPO not required

**Amount of waste:** 1000 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** Fee Fee Fed - SUPO not required

**Safe containmant attachment:**

**Waste disposal type:** OTHER

**Disposal location ownership:** OTHER

**Disposal type description:** Fee Fee Fed - SUPO not required

**Disposal location description:** Fee Fee Fed - SUPO not required

### **Reserve Pit**

**Reserve Pit being used?** N

**Temporary disposal of produced water into reserve pit?** NO

**Reserve pit length (ft.)**                      **Reserve pit width (ft.)**

**Reserve pit depth (ft.)**    **Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

### **Cuttings Area**

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** N

**Description of cuttings location**

**Cuttings area length (ft.)**    **Cuttings area width (ft.)**

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** GIPPLE FED COM

**Well Number:** 114H

**Cuttings area depth (ft.)**

**Cuttings area volume (cu. yd.)**

**Is at least 50% of the cuttings area in cut?**

**WCuttings area liner**

**Cuttings area liner specifications and installation description**

### Section 8 - Ancillary Facilities

**Are you requesting any Ancillary Facilities?:** N

**Ancillary Facilities attachment:**

**Comments:**

### Section 9 - Well Site Layout

**Well Site Layout Diagram:**

Gipple\_114H\_Well\_Site\_Layout\_v2\_100919\_20191020124706.pdf

**Comments:**

### Section 10 - Plans for Surface Reclamation

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:** Gipple Fed Com

**Multiple Well Pad Number:** 134H

**Recontouring attachment:**

Gipple\_Well\_Pad\_Recontour\_Plats\_20191219095352.pdf

Gipple\_Interim\_Rec\_091619\_20191219095403.pdf

**Drainage/Erosion control construction:** Crowned and ditched

**Drainage/Erosion control reclamation:** Harrowed on the contour

**Well pad proposed disturbance (acres):** 4.44

**Road proposed disturbance (acres):** 1.4

**Powerline proposed disturbance (acres):** 0

**Pipeline proposed disturbance (acres):** 0.06

**Other proposed disturbance (acres):** 3.67

**Total proposed disturbance:** 9.57

**Well pad interim reclamation (acres):** 1.89

**Road interim reclamation (acres):** 0

**Powerline interim reclamation (acres):** 0

**Pipeline interim reclamation (acres):** 0.06

**Other interim reclamation (acres):** 0

**Total interim reclamation:** 1.95

**Well pad long term disturbance (acres):** 2.55

**Road long term disturbance (acres):** 1.4

**Powerline long term disturbance (acres):** 0

**Pipeline long term disturbance (acres):** 0

**Other long term disturbance (acres):** 3.67

**Total long term disturbance:** 7.619999999999999

Operator Name: TAP ROCK OPERATING LLC

Well Name: GIPPLE FED COM

Well Number: 114H

**Disturbance Comments:**

**Reconstruction method:** See submitted Environmental Assessment

**Topsoil redistribution:** See submitted Environmental Assessment

**Soil treatment:** None

**Existing Vegetation at the well pad:** Mesquite and/or Creosote bush

**Existing Vegetation at the well pad attachment:**

**Existing Vegetation Community at the road:** Mesquite and/or Creosote bush

**Existing Vegetation Community at the road attachment:**

**Existing Vegetation Community at the pipeline:** Mesquite and/or Creosote bush

**Existing Vegetation Community at the pipeline attachment:**

**Existing Vegetation Community at other disturbances:** Mesquite and/or Creosote bush

**Existing Vegetation Community at other disturbances attachment:**

**Non native seed used?** N

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** N

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** N

**Seed harvest description:**

**Seed harvest description attachment:**

**Seed Management**

**Seed Table**

**Seed Summary**

Seed Type	Pounds/Acre
-----------	-------------

**Total pounds/Acre:**

**Seed reclamation attachment:**

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** GIPPLE FED COM

**Well Number:** 114H

**Operator Contact/Responsible Official Contact Info**

**First Name:**

**Last Name:**

**Phone:**

**Email:**

**Seedbed prep:**

**Seed BMP:**

**Seed method:**

**Existing invasive species?** N

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Weed treatment plan description:** To BLM standards

**Weed treatment plan attachment:**

**Monitoring plan description:** To BLM standards

**Monitoring plan attachment:**

**Success standards:** To BLM satisfaction

**Pit closure description:** No pit

**Pit closure attachment:**

**Section 11 - Surface Ownership**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** PRIVATE OWNERSHIP

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** GIPPLE FED COM

**Well Number:** 114H

**Fee Owner:** Dean Moor

**Fee Owner Address:** New Mexico Ten LLLP

**Phone:** (214)316-0771

**Email:**

**Surface use plan certification:** NO

**Surface use plan certification document:**

**Surface access agreement or bond:** AGREEMENT

**Surface Access Agreement Need description:** Fee Fee Fed - SUPO not required

**Surface Access Bond BLM or Forest Service:**

**BLM Surface Access Bond number:**

**USFS Surface access bond number:**

### Section 12 - Other Information

**Right of Way needed?** N

**Use APD as ROW?**

**ROW Type(s):**

### ROW Applications

**SUPO Additional Information:**

**Use a previously conducted onsite?** N

**Previous Onsite information:**

### Other SUPO Attachment

Gipple\_surf\_own\_agreement\_20191219095852.pdf



APD ID: 10400046402

Submission Date: 08/27/2019

Operator Name: TAP ROCK OPERATING LLC

Well Name: GIPPLE FED COM

Well Number: 114H

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? N

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:** TAP ROCK OPERATING LLC

**Well Name:** GIPPLE FED COM

**Well Number:** 114H

**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?** N

**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: TAP ROCK OPERATING LLC

Well Name: GIPPLE FED COM

Well Number: 114H

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? N

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? N

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? N

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** GIPPLE FED COM

**Well Number:** 114H

**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

12/31/2019

APD ID: 10400046402

Submission Date: 08/27/2019

Highlighted data  
reflects the most  
recent changes

Operator Name: TAP ROCK OPERATING LLC

Well Name: GIPPLE FED COM

Well Number: 114H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001443

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: