

Form 3160-3
(June 2015)

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

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

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-015-49023
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)		
Name (Printed/Typed)		Date
Title		Office

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

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



(Continued on page 2)

*(Instructions on page 2)

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

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

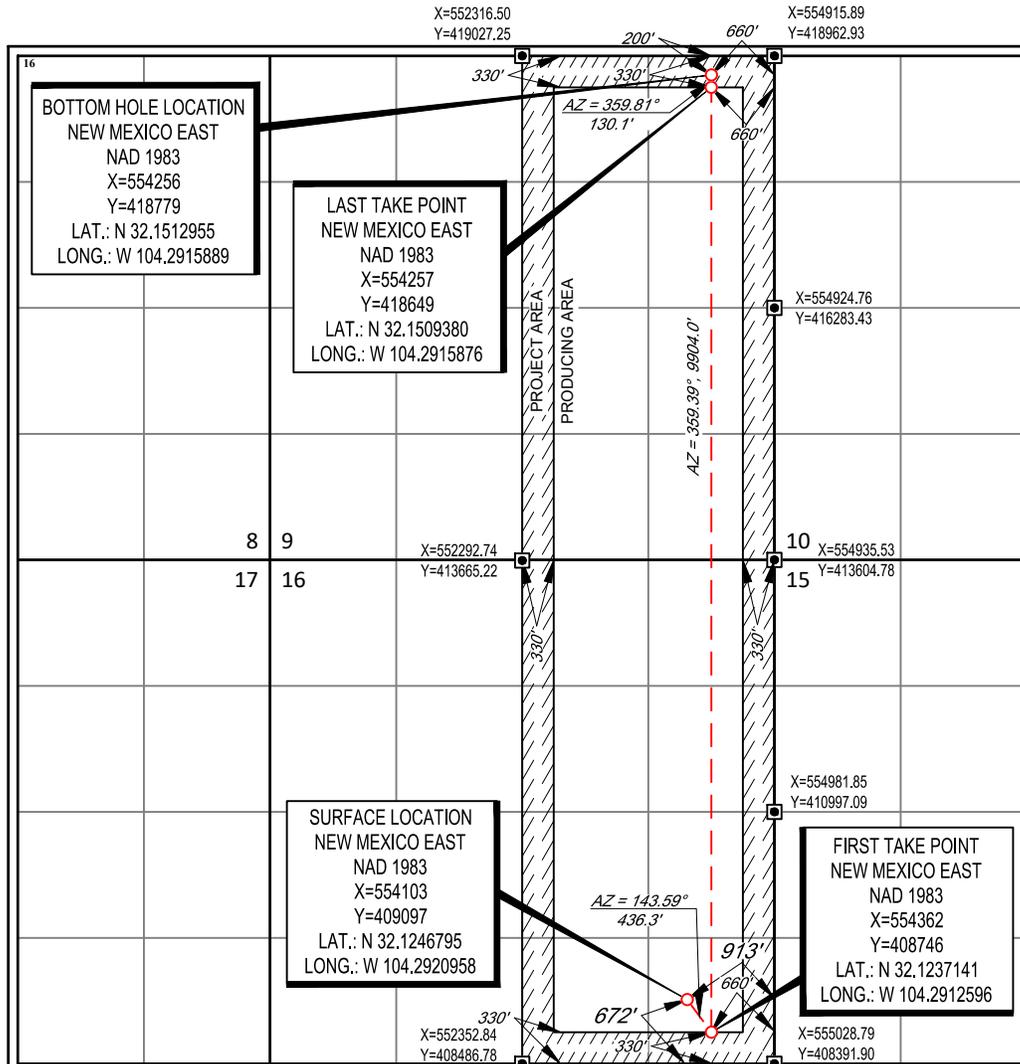
¹ API Number 30-015-49023	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 329796	⁵ Property Name SCHLITZ FED COM	
⁷ OGRID No. 372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁶ Well Number 204H
		⁹ Elevation 3393'

¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	16	25-S	26-E	-	672'	SOUTH	913'	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	9	25-S	26-E	-	200'	NORTH	660'	EAST	EDDY

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷OPERATOR CERTIFICATION

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

Cory Walk **11-09-2020**
Signature Date

Cory Walk
Printed Name

cory@permitswest.com
E-mail Address

¹⁸SURVEYOR CERTIFICATION

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

09/26/2020
Date of Survey

[Signature]
Signature and Seal of Professional Surveyor

ANGELA BAENA
25116
PROFESSIONAL SURVEYOR

Certificate Number

State of New Mexico
 Energy, Minerals and Natural Resources Department

Submit Electronically
 Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: _____ Tap Rock Operating LLC _____ **OGRID:** _____ 372043 _____ **Date:** _10/21/2021_

II. Type: Original Amendment due to 19.15.27.9.D(6)(a) NMAC 19.15.27.9.D(6)(b) NMAC Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water
Schlitz Fed Com #204H		Sec 16, T25S R 26E	672 FSL, 913 FEL	1295	2714	3302

IV. Central Delivery Point Name: ___ Schlitz Fed CDP ___ [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Schlitz Fed Com #204H		4/25/22	5/4/22	7/18/22	8/25/22	8/25/22

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: Attach a complete description of Operator’s best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system will will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator does does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

Attach Operator’s plan to manage production in response to the increased line pressure.

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Jeff Trlica
Title: Regulatory Analyst
E-mail Address: jtrlica@taprk.com
Date: 10/21/2021
Phone: 720-772-5910
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture:

Each surface facility design includes the following process equipment: 3-phase separators (1 separator per well), a sales gas scrubber, one or two 3-phase heater treaters, a vapor recovery tower (VRT), a VRU compressor, multiple water and oil tanks, as well as flare knockouts (HP & LP), and flares (HP & LP). All process vessels will be sized to separate oil, water, gas based upon typical/historical & predicted well performance. Each process vessel will be fitted with an appropriately sized PSV as per ASME code requirements to mitigate vessel rupture and loss of containment. Additionally, the process vessels will be fitted with pressure transmitters tied to the facility control system which will allow operations to monitor pressures and when necessary, shut-in the facility to avoid vessel over-pressure and the potential vent of natural gas. Natural gas will preferentially be sold to pipeline, and only during upset/emergency conditions will gas be directed to the HP flare system. Flash gas from both the 3-phase heater treater and the VRT will be recompressed using a VRU compressor and this gas will also preferentially be directed to the gas sales pipeline. Oil tanks & water tanks will be fitted with 16 oz thief hatches as well as PVRVs to protect the tanks from rupture/collapse. Additionally, the tank vapor outlets and tank vapor capture system will be sized to keep tank pressures below 12 oz. The tank vapor capture system will include a tank vapor blower & knockout as well as a low-pressure flare and knockout. Tank vapors will preferentially be directed to the VRU and the sales gas pipeline. Only during process upsets/emergency conditions will tank vapors be directed to the LP flare system.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. ← See attached reg for requirements.

- During drilling operations- Gas meters will be installed at the shakers and Volume Totalizers will be installed on the pits. In the event that elevated gas levels, or a pit gain are observed, returns will be diverted to a gas buster. Gas coming off the gas buster will be combusted at the flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During completions operations, including stimulation and frac plug drill out operations, hydrocarbon production to surface is minimized. When gas production does occur, gas will be combusted at a flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During production operations, all process vessels (separators, heater treaters, VRTs, Tanks) will recompress (where necessary) and route gas outlets into the natural gas gathering pipeline. Gas will preferentially be routed to natural gas gathering pipeline and the flare system will be used only during emergency, malfunction, or if the gas does not meet pipeline specifications. In the event of flaring off-specification gas, operations will pull gas samples twice a week and will also route gas back to pipeline as soon as the gas meets specification. Exceptions to this will include only those qualified exceptions per the regulation 19.15.27.8 Subsection D.

- To comply with state performance standards, separation and storage equipment will be designed to handle the maximum anticipated throughput and pressure to minimize waste and reduce the likelihood of venting gas to atmosphere. Additionally, each storage atmospheric tank (Oil & Water) will be fitted with a level transmitter to facilitate gauging of the tank without opening of the thief hatch. Any gas collected through the tank vent system is expected to be recompressed and routed to sales. However, in the event of an emergency, the tank vapor capture system will be designed to combust the gas using a flare stack fitted with a continuous or automatic ignitor. The flare stack will be properly anchored and will be located a minimum of 100 feet from the well and storage tanks. Operators will conduct weekly AVO inspections. These AVO inspection records will be stored for the required 5-year period and will be made available upon Division request.

VIII. **Best Management Practices:** Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- When performing routine or preventive maintenance on a vessel or tank, initially all inlet valves are closed, and the vessel or tank is allowed to depressurize through the normal outlet connections to gas sales and/or liquid tanks. Once the vessel or tank is depressurized to lowest acceptable sales outlet pressure, usually around 20 psig, a temporary low-pressure flowline is connected from the vessel or tank to the Vapor Recovery Unit (VRU) for further pressure reduction. Once depressurized to less than 1-2 psig, the remaining natural gas in the vessel or tank is vented to atmosphere through a controlled pressure relief valve. Once the vessel or tank is depressurized to atmospheric pressure, the vessel or tank can be safely opened, and maintenance performed.



Drilling Operations Plan
 Schlitz Fed Com #204H
 Tap Rock Operating, LLC
 SHL 672' FSL & 913' FEL, Sec. 16
 BHL 200' FNL & 660' FEL, Sec. 9
 T. 25S., R. 26E., Eddy County, NM

Elevation above Sea Level: 3393'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler Anhydrite	540	540		Salt
Salado	980	980	Salt	Salt
Base Salt	1715	1715		Salt
Lamar	1925	1925	Limestone	None
Bell Canyon	1975	1975	Sandstone	Hydrocarbons
Cherry Canyon	2935	2935	Sandstone	Hydrocarbons
Brushy Canyon	3845	3850	Sandstone	Hydrocarbons
Bone Spring	5490	5515	Limestone	Hydrocarbons
1st Bone Spring	6420	6456	Sandstone	Hydrocarbons
2nd Bone Spring	6710	6750	Sandstone	Hydrocarbons
3rd Bone Spring	7265	7312	Sandstone	Hydrocarbons
KOP	8097	8148	Sandstone	Hydrocarbons
Wolfcamp A Y Sand	8620	8807	Shale	Hydrocarbons
TD	8670	18789	Shale	Hydrocarbons

2. Notable Zones

Wolfcamp A 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.



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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.

Variance Requests:

Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate 1, Intermediate 2, 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 a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, after drilling surface, 1st intermediate, and 2nd intermediate hole sections and cementing 2nd intermediate casing, a 10M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test. Tap Rock requests a variance to run 7-5/8" BTC casing inside 9-5/8" BTC casing will be less than the 0.422" stand off regulation. Through conversations with BLM representatives, Tap Rock has received approval for this design as long as the 7-5/8" flush casing was run throughout the entire 300' cement tie back section between 9-5/8" and 7-5/8" casing.

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.



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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	615	0	615	J-55	54.5	BUTT	1.13	1.15	1.6
1st Intermediate	12 1/4	9 5/8	API	No	0	1945	0	1945	J-55	40	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	API	No	0	1645	0	1645	P-110	29.7	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	NON API	Yes	1645	8048	1645	7997	P-110	29.7	W-513	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	No	0	7848	0	7797	P-110	20	TXP	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	Yes	7848	18789	7797	8670	P-110	20	W-441	1.13	1.15	1.6

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Tail	0	633	1.35	854	14.8	100%	C	5% NCI + LCM
1st Intermediate	Lead	0	462	1.74	804	13.5	65%	C	Bentonite + 1% CaCL ₂ + 8% NaCl + LCM
	Tail	1556	151	1.33	201	14.8	65%	C	5% NaCl + LCM
2nd Intermediate	Lead	1645	330	2.22	733	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM
	Tail	7048	99	1.37	136	13.2	35%	H	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	7348	1048	1.14	1194	14.5	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.

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	615	FW Spud Mud	8.30	28	NC
Intermediate	615	1945	Brine Water	10.00	30-32	NC
Intermediate 2	1945	8048	FW/Cut Brine	9.00	30-32	NC
Production	8048	18789	Oil Base Mud	11.50	50-70	<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.



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7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is $\approx 5,184$ psi. Expected bottom hole temperature is $\approx 160^{\circ}$ F.

Tap Rock does not anticipate that there will be enough H₂S from the surface to the Wolfcamp formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H₂S safety package on all wells and an "H₂S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be safely flared. All personnel will be familiar with all aspects of safe operation of equipment being used.

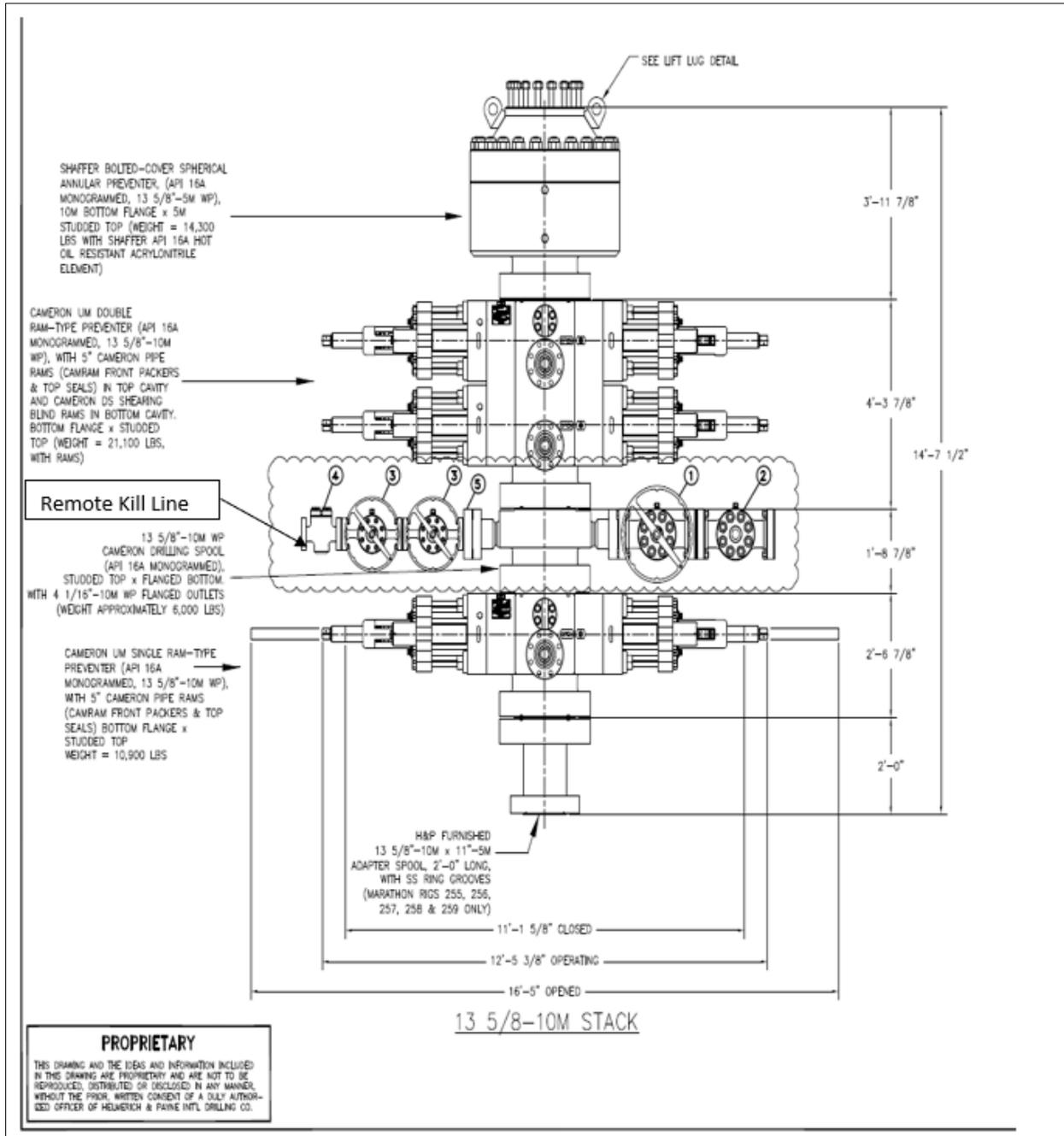
8. Other Information

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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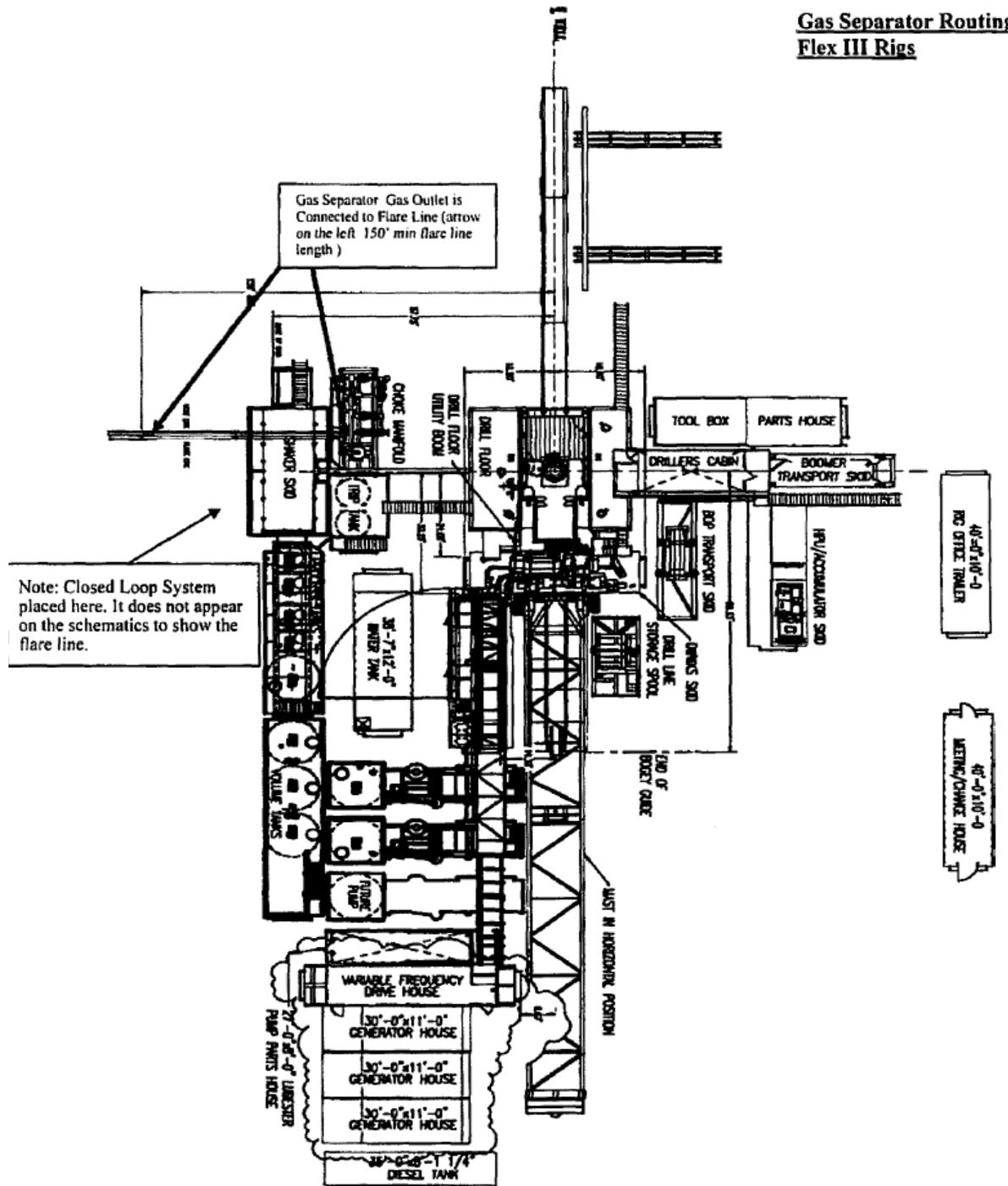
5,000 psi BOP Stack





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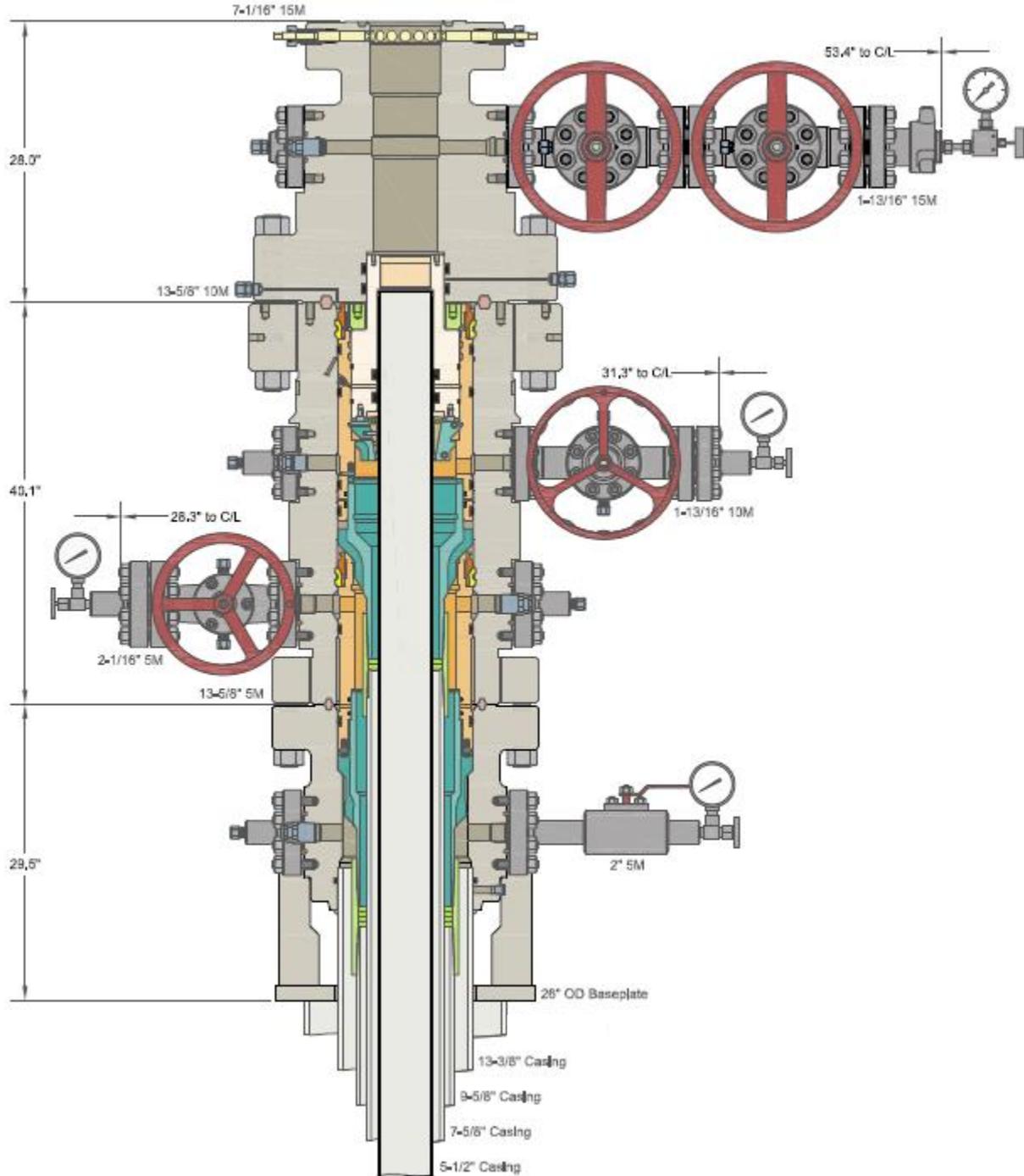
**Gas Separator Routing
 Flex III Rigs**





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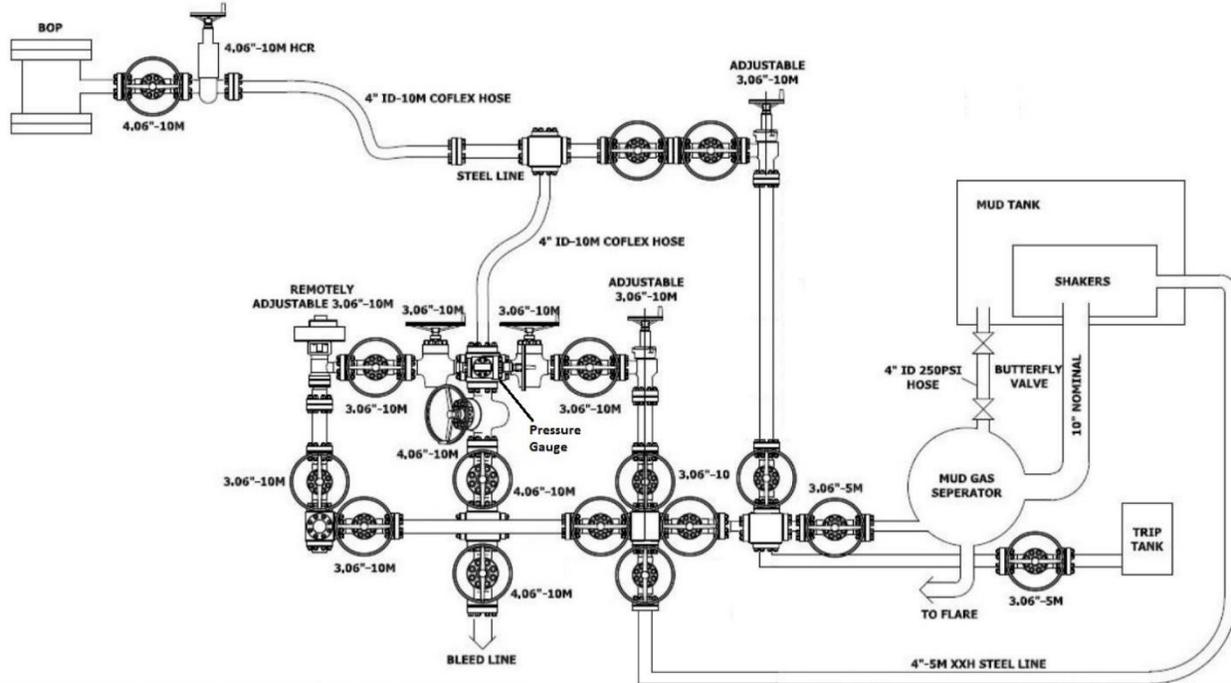
Multi-bowl Wellhead





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10M Choke Layout



TAP ROCK RESOURCES

EDDY COUNTY

SEC 16-T25S-R26E

SCHLITZ FED COM 204H

ORIGINAL WELLBORE

Plan: PROPOSAL 1

Standard Planning Report

13 October, 2020



Project: EDDY COUNTY
Site: SEC 16-T25S-R26E
Well: SCHLITZ FED COM 204H
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL 1

PROJECT DETAILS: EDDY COUNTY

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level



Azimuths to Grid North
 True North: -0.02°
 Magnetic North: 6.93°
 Magnetic Field
 Strength: 47430.7nT
 Dip Angle: 59.72°
 Date: 10/8/2020
 Model: IGRF2020

WELL DETAILS: SCHLITZ FED COM 204H

N/S	+E/-W	Northing	Easting	3393.00	Latitude	Longitude	Slot
0.00	0.00	409096.84	554103.32		32.1246795°N	104.2920958°W	

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	
3589.85	8.85	154.93	3587.51	-41.17	19.26	1.50	154.93	-40.80	
7528.70	8.85	154.93	7479.49	-589.92	275.99	0.00	0.00	-584.59	
8118.55	0.00	0.00	8067.00	-631.09	295.25	1.50	180.00	-625.39	
8148.55	0.00	0.00	8097.00	-631.09	295.25	0.00	0.00	-625.39	
9048.65	90.00	359.38	8670.00	-58.09	289.00	10.00	359.38	-52.61	
18789.64	90.00	359.38	8670.00	9682.32	183.17	0.00	144.48	9684.06	SCHLITZ FED 204H PBHL

FORMATION TOP DETAILS

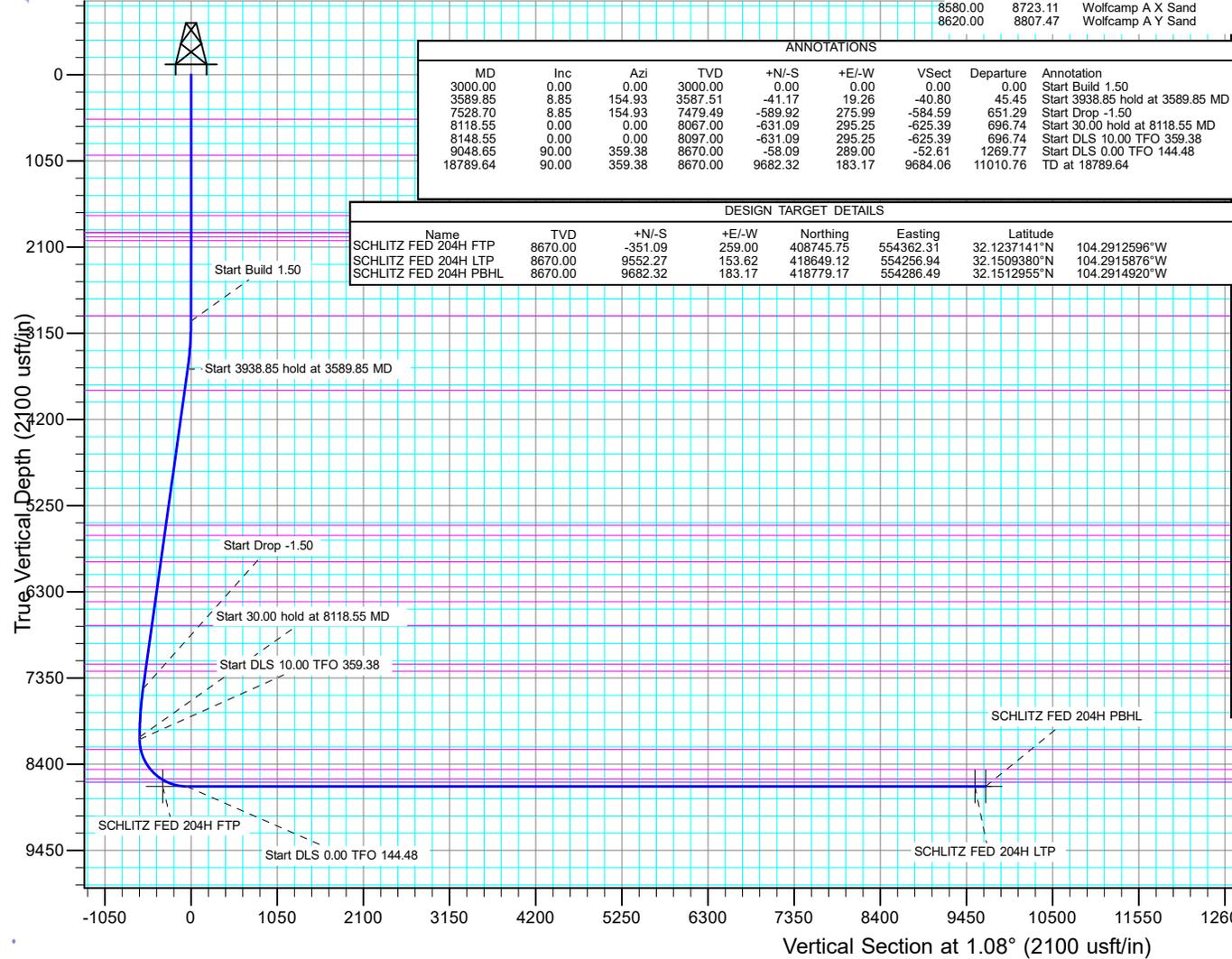
TVDPath	MDPath	Formation
540.00	540.00	Rustler Anhydrite
980.00	980.00	Top Salt
1715.00	1715.00	Base Salt
1920.00	1920.00	Delaware Mountain Gp
1925.00	1925.00	Lamar
1975.00	1975.00	Bell Canyon
2020.00	2020.00	Ramsey Sand
2935.00	2935.00	Cherry Canyon
3845.00	3850.44	Brushy Canyon
5490.00	5515.25	Bone Spring Lime
5610.00	5636.70	Upper Avalon
5935.00	5965.61	Middle Avalon
6240.00	6274.29	Lower Avalon
6420.00	6456.45	1st Bone Spring Sand
6710.00	6749.95	2nd Bone Spring Carb
7180.00	7225.61	2nd Bone Spring Sand
7265.00	7311.63	3rd Bone Spring Carb
8220.00	8272.52	3rd Bone Spring Sand
8465.00	8548.17	3rd BS W Sand
8580.00	8723.11	Wolfcamp A X Sand
8620.00	8807.47	Wolfcamp A Y Sand

ANNOTATIONS

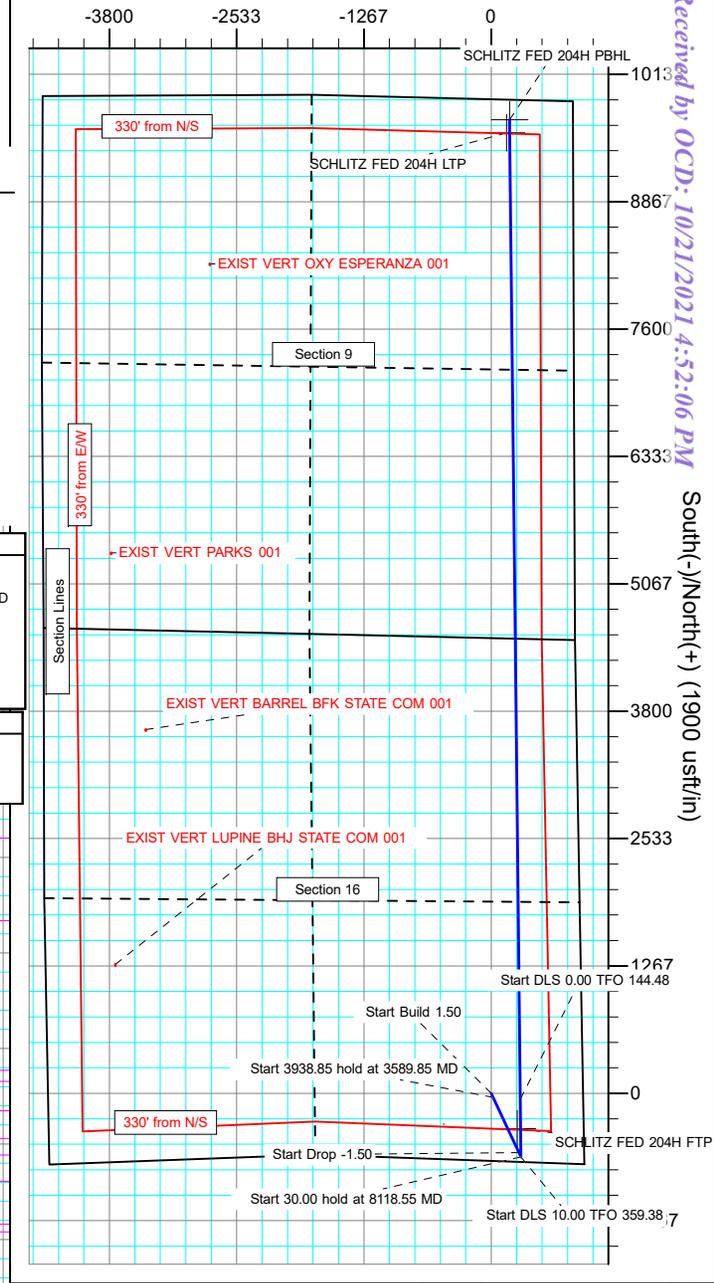
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	Start Build 1.50
3589.85	8.85	154.93	3587.51	-41.17	19.26	-40.80	45.45	Start 3938.85 hold at 3589.85 MD
7528.70	8.85	154.93	7479.49	-589.92	275.99	-584.59	651.29	Start Drop -1.50
8118.55	0.00	0.00	8067.00	-631.09	295.25	-625.39	696.74	Start 30.00 hold at 8118.55 MD
8148.55	0.00	0.00	8097.00	-631.09	295.25	-625.39	696.74	Start DLS 10.00 TFO 359.38
9048.65	90.00	359.38	8670.00	-58.09	289.00	-52.61	1269.77	Start DLS 0.00 TFO 144.48
18789.64	90.00	359.38	8670.00	9682.32	183.17	9684.06	11010.76	TD at 18789.64

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SCHLITZ FED 204H FTP	8670.00	-351.09	259.00	408745.75	554362.31	32.1237141°N	104.2912596°W
SCHLITZ FED 204H LTP	8670.00	9552.27	153.62	418649.12	554256.94	32.1509380°N	104.2915876°W
SCHLITZ FED 204H PBHL	8670.00	9682.32	183.17	418779.17	554286.49	32.1512955°N	104.2914920°W



West(-)/East(+) (1900 usft/in)



Released to Imaging: 11/1/2021 8:10:35 AM

Received by OCD: 10/21/2021 4:52:06 PM South(-)/North(+) (1900 usft/in)

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Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SCHLITZ FED COM 204H
Company:	TAP ROCK RESOURCES	TVD Reference:	KB 25.5 @ 3418.50usft
Project:	EDDY COUNTY	MD Reference:	KB 25.5 @ 3418.50usft
Site:	SEC 16-T25S-R26E	North Reference:	Grid
Well:	SCHLITZ FED COM 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Project	EDDY COUNTY		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	SEC 16-T25S-R26E				
Site Position:		Northing:	408,486.78 usft	Latitude:	32.1230042°N
From:	Map	Easting:	552,352.84 usft	Longitude:	104.2977510°W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in		

Well	SCHLITZ FED COM 204H					
Well Position	+N/-S	0.00 usft	Northing:	409,096.84 usft	Latitude:	32.1246795°N
	+E/-W	0.00 usft	Easting:	554,103.32 usft	Longitude:	104.2920958°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,393.00 usft
Grid Convergence:		0.02 °				

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/8/2020	6.95	59.72	47,430.72478229

Design	PROPOSAL 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	1.08

Plan Survey Tool Program	Date	10/13/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,789.54	PROPOSAL 1 (ORIGINAL WELL	MWD
				OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,589.85	8.85	154.93	3,587.51	-41.17	19.26	1.50	1.50	0.00	154.93	
7,528.70	8.85	154.93	7,479.49	-589.92	275.99	0.00	0.00	0.00	0.00	
8,118.55	0.00	0.00	8,067.00	-631.09	295.25	1.50	-1.50	0.00	180.00	
8,148.55	0.00	0.00	8,097.00	-631.09	295.25	0.00	0.00	0.00	0.00	
9,048.65	90.00	359.38	8,670.00	-58.09	289.00	10.00	10.00	-0.07	359.38	
18,789.64	90.00	359.38	8,670.00	9,682.32	183.17	0.00	0.00	0.00	144.48	SCHLITZ FED 204H I

Planning Report

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Company:	TAP ROCK RESOURCES	TVD Reference:	KB 25.5 @ 3418.50usft
Project:	EDDY COUNTY	MD Reference:	KB 25.5 @ 3418.50usft
Site:	SEC 16-T25S-R26E	North Reference:	Grid
Well:	SCHLITZ FED COM 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
540.00	0.00	0.00	540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler Anhydrite										
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
980.00	0.00	0.00	980.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt										
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,715.00	0.00	0.00	1,715.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt										
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,920.00	0.00	0.00	1,920.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware Mountain Gp										
1,925.00	0.00	0.00	1,925.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar										
1,975.00	0.00	0.00	1,975.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon										
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,020.00	0.00	0.00	2,020.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ramsey Sand										
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,935.00	0.00	0.00	2,935.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cherry Canyon										
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50										
3,100.00	1.50	154.93	3,099.99	-1.19	0.55	-1.17	1.50	1.50	0.00	0.00
3,200.00	3.00	154.93	3,199.91	-4.74	2.22	-4.70	1.50	1.50	0.00	0.00
3,300.00	4.50	154.93	3,299.69	-10.67	4.99	-10.57	1.50	1.50	0.00	0.00
3,400.00	6.00	154.93	3,399.27	-18.95	8.87	-18.78	1.50	1.50	0.00	0.00
3,500.00	7.50	154.93	3,498.57	-29.60	13.85	-29.33	1.50	1.50	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SCHLITZ FED COM 204H
Company:	TAP ROCK RESOURCES	TVD Reference:	KB 25.5 @ 3418.50usft
Project:	EDDY COUNTY	MD Reference:	KB 25.5 @ 3418.50usft
Site:	SEC 16-T25S-R26E	North Reference:	Grid
Well:	SCHLITZ FED COM 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,589.85	8.85	154.93	3,587.51	-41.17	19.26	-40.80	1.50	1.50	0.00	
Start 3938.85 hold at 3589.85 MD										
3,600.00	8.85	154.93	3,597.54	-42.58	19.92	-42.20	0.00	0.00	0.00	
3,700.00	8.85	154.93	3,696.35	-56.52	26.44	-56.01	0.00	0.00	0.00	
3,800.00	8.85	154.93	3,795.16	-70.45	32.96	-69.81	0.00	0.00	0.00	
3,850.44	8.85	154.93	3,845.00	-77.47	36.25	-76.78	0.00	0.00	0.00	
Brushy Canyon										
3,900.00	8.85	154.93	3,893.97	-84.38	39.48	-83.62	0.00	0.00	0.00	
4,000.00	8.85	154.93	3,992.78	-98.31	45.99	-97.42	0.00	0.00	0.00	
4,100.00	8.85	154.93	4,091.59	-112.24	52.51	-111.23	0.00	0.00	0.00	
4,200.00	8.85	154.93	4,190.40	-126.17	59.03	-125.04	0.00	0.00	0.00	
4,300.00	8.85	154.93	4,289.21	-140.11	65.55	-138.84	0.00	0.00	0.00	
4,400.00	8.85	154.93	4,388.02	-154.04	72.07	-152.65	0.00	0.00	0.00	
4,500.00	8.85	154.93	4,486.83	-167.97	78.58	-166.45	0.00	0.00	0.00	
4,600.00	8.85	154.93	4,585.64	-181.90	85.10	-180.26	0.00	0.00	0.00	
4,700.00	8.85	154.93	4,684.45	-195.83	91.62	-194.07	0.00	0.00	0.00	
4,800.00	8.85	154.93	4,783.26	-209.76	98.14	-207.87	0.00	0.00	0.00	
4,900.00	8.85	154.93	4,882.07	-223.70	104.65	-221.68	0.00	0.00	0.00	
5,000.00	8.85	154.93	4,980.88	-237.63	111.17	-235.48	0.00	0.00	0.00	
5,100.00	8.85	154.93	5,079.69	-251.56	117.69	-249.29	0.00	0.00	0.00	
5,200.00	8.85	154.93	5,178.50	-265.49	124.21	-263.09	0.00	0.00	0.00	
5,300.00	8.85	154.93	5,277.31	-279.42	130.73	-276.90	0.00	0.00	0.00	
5,400.00	8.85	154.93	5,376.12	-293.36	137.24	-290.71	0.00	0.00	0.00	
5,500.00	8.85	154.93	5,474.93	-307.29	143.76	-304.51	0.00	0.00	0.00	
5,515.25	8.85	154.93	5,490.00	-309.41	144.76	-306.62	0.00	0.00	0.00	
Bone Spring Lime										
5,600.00	8.85	154.93	5,573.74	-321.22	150.28	-318.32	0.00	0.00	0.00	
5,636.70	8.85	154.93	5,610.00	-326.33	152.67	-323.39	0.00	0.00	0.00	
Upper Avalon										
5,700.00	8.85	154.93	5,672.55	-335.15	156.80	-332.12	0.00	0.00	0.00	
5,800.00	8.85	154.93	5,771.36	-349.08	163.31	-345.93	0.00	0.00	0.00	
5,900.00	8.85	154.93	5,870.17	-363.01	169.83	-359.74	0.00	0.00	0.00	
5,965.61	8.85	154.93	5,935.00	-372.15	174.11	-368.79	0.00	0.00	0.00	
Middle Avalon										
6,000.00	8.85	154.93	5,968.98	-376.95	176.35	-373.54	0.00	0.00	0.00	
6,100.00	8.85	154.93	6,067.79	-390.88	182.87	-387.35	0.00	0.00	0.00	
6,200.00	8.85	154.93	6,166.60	-404.81	189.39	-401.15	0.00	0.00	0.00	
6,274.29	8.85	154.93	6,240.00	-415.16	194.23	-411.41	0.00	0.00	0.00	
Lower Avalon										
6,300.00	8.85	154.93	6,265.41	-418.74	195.90	-414.96	0.00	0.00	0.00	
6,400.00	8.85	154.93	6,364.22	-432.67	202.42	-428.77	0.00	0.00	0.00	
6,456.45	8.85	154.93	6,420.00	-440.54	206.10	-436.56	0.00	0.00	0.00	
1st Bone Spring Sand										
6,500.00	8.85	154.93	6,463.03	-446.60	208.94	-442.57	0.00	0.00	0.00	
6,600.00	8.85	154.93	6,561.84	-460.54	215.46	-456.38	0.00	0.00	0.00	
6,700.00	8.85	154.93	6,660.65	-474.47	221.98	-470.18	0.00	0.00	0.00	
6,749.95	8.85	154.93	6,710.00	-481.43	225.23	-477.08	0.00	0.00	0.00	
2nd Bone Spring Carb										
6,800.00	8.85	154.93	6,759.46	-488.40	228.49	-483.99	0.00	0.00	0.00	
6,900.00	8.85	154.93	6,858.27	-502.33	235.01	-497.80	0.00	0.00	0.00	
7,000.00	8.85	154.93	6,957.08	-516.26	241.53	-511.60	0.00	0.00	0.00	
7,100.00	8.85	154.93	7,055.89	-530.19	248.05	-525.41	0.00	0.00	0.00	
7,200.00	8.85	154.93	7,154.70	-544.13	254.56	-539.21	0.00	0.00	0.00	

Planning Report

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Company:	TAP ROCK RESOURCES	TVD Reference:	KB 25.5 @ 3418.50usft
Project:	EDDY COUNTY	MD Reference:	KB 25.5 @ 3418.50usft
Site:	SEC 16-T25S-R26E	North Reference:	Grid
Well:	SCHLITZ FED COM 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
7,225.61	8.85	154.93	7,180.00	-547.69	256.23	-542.75	0.00	0.00	0.00	
2nd Bone Spring Sand										
7,300.00	8.85	154.93	7,253.51	-558.06	261.08	-553.02	0.00	0.00	0.00	
7,311.63	8.85	154.93	7,265.00	-559.68	261.84	-554.63	0.00	0.00	0.00	
3rd Bone Spring Carb										
7,400.00	8.85	154.93	7,352.32	-571.99	267.60	-566.83	0.00	0.00	0.00	
7,500.00	8.85	154.93	7,451.13	-585.92	274.12	-580.63	0.00	0.00	0.00	
7,528.70	8.85	154.93	7,479.49	-589.92	275.99	-584.59	0.00	0.00	0.00	
Start Drop -1.50										
7,600.00	7.78	154.93	7,550.04	-599.26	280.36	-593.85	1.50	-1.50	0.00	
7,700.00	6.28	154.93	7,649.28	-610.34	285.54	-604.83	1.50	-1.50	0.00	
7,800.00	4.78	154.93	7,748.82	-619.07	289.62	-613.48	1.50	-1.50	0.00	
7,900.00	3.28	154.93	7,848.57	-625.43	292.60	-619.78	1.50	-1.50	0.00	
8,000.00	1.78	154.93	7,948.47	-629.42	294.47	-623.74	1.50	-1.50	0.00	
8,100.00	0.28	154.93	8,048.45	-631.05	295.23	-625.35	1.50	-1.50	0.00	
8,118.55	0.00	0.00	8,067.00	-631.09	295.25	-625.39	1.50	-1.50	-835.03	
Start 30.00 hold at 8118.55 MD										
8,148.55	0.00	0.00	8,097.00	-631.09	295.25	-625.39	0.00	0.00	0.00	
Start DLS 10.00 TFO 359.38										
8,150.00	0.14	359.38	8,098.45	-631.09	295.25	-625.39	10.00	10.00	0.00	
8,200.00	5.14	359.38	8,148.38	-628.78	295.22	-623.09	10.00	10.00	0.00	
8,250.00	10.14	359.38	8,197.92	-622.13	295.15	-616.44	10.00	10.00	0.00	
8,272.52	12.40	359.38	8,220.00	-617.73	295.10	-612.04	10.00	10.00	0.00	
3rd Bone Spring Sand										
8,300.00	15.14	359.38	8,246.69	-611.19	295.03	-605.50	10.00	10.00	0.00	
8,350.00	20.14	359.38	8,294.32	-596.04	294.87	-590.36	10.00	10.00	0.00	
8,400.00	25.14	359.38	8,340.45	-576.80	294.66	-571.13	10.00	10.00	0.00	
8,450.00	30.14	359.38	8,384.73	-553.61	294.40	-547.95	10.00	10.00	0.00	
8,500.00	35.14	359.38	8,426.82	-526.65	294.11	-521.00	10.00	10.00	0.00	
8,548.17	39.96	359.38	8,465.00	-497.31	293.79	-491.66	10.00	10.00	0.00	
3rd BS W Sand										
8,550.00	40.14	359.38	8,466.40	-496.13	293.78	-490.48	10.00	10.00	0.00	
8,600.00	45.14	359.38	8,503.17	-462.27	293.41	-456.64	10.00	10.00	0.00	
8,650.00	50.14	359.38	8,536.85	-425.34	293.01	-419.72	10.00	10.00	0.00	
8,700.00	55.14	359.38	8,567.18	-385.61	292.57	-380.01	10.00	10.00	0.00	
8,723.11	57.45	359.38	8,580.00	-366.39	292.36	-360.80	10.00	10.00	0.00	
Wolfcamp A X Sand										
8,750.00	60.14	359.38	8,593.93	-343.39	292.11	-337.81	10.00	10.00	0.00	
8,800.00	65.14	359.38	8,616.90	-299.00	291.63	-293.43	10.00	10.00	0.00	
8,807.47	65.89	359.38	8,620.00	-292.20	291.55	-286.64	10.00	10.00	0.00	
Wolfcamp A Y Sand										
8,850.00	70.14	359.38	8,635.92	-252.78	291.12	-247.23	10.00	10.00	0.00	
8,900.00	75.14	359.38	8,650.83	-205.07	290.60	-199.54	10.00	10.00	0.00	
8,950.00	80.14	359.38	8,661.53	-156.25	290.07	-150.74	10.00	10.00	0.00	
9,000.00	85.14	359.38	8,667.94	-106.68	289.53	-101.19	10.00	10.00	0.00	
9,048.65	90.00	359.38	8,670.00	-58.09	289.00	-52.61	10.00	10.00	0.00	
Start DLS 0.00 TFO 144.48										
9,100.00	90.00	359.38	8,670.00	-6.75	288.44	-1.29	0.00	0.00	0.00	
9,200.00	90.00	359.38	8,669.99	93.25	287.35	98.67	0.00	0.00	0.00	
9,300.00	90.00	359.38	8,669.99	193.24	286.26	198.62	0.00	0.00	0.00	
9,400.00	90.00	359.38	8,669.98	293.24	285.17	298.58	0.00	0.00	0.00	
9,500.00	90.00	359.38	8,669.97	393.23	284.08	398.53	0.00	0.00	0.00	

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SCHLITZ FED COM 204H
Company:	TAP ROCK RESOURCES	TVD Reference:	KB 25.5 @ 3418.50usft
Project:	EDDY COUNTY	MD Reference:	KB 25.5 @ 3418.50usft
Site:	SEC 16-T25S-R26E	North Reference:	Grid
Well:	SCHLITZ FED COM 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,600.00	90.00	359.38	8,669.97	493.22	282.99	498.49	0.00	0.00	0.00
9,700.00	90.00	359.38	8,669.96	593.22	281.90	598.44	0.00	0.00	0.00
9,800.00	90.00	359.38	8,669.96	693.21	280.81	698.40	0.00	0.00	0.00
9,900.00	90.00	359.38	8,669.95	793.21	279.72	798.35	0.00	0.00	0.00
10,000.00	90.00	359.38	8,669.95	893.20	278.63	898.31	0.00	0.00	0.00
10,100.00	90.00	359.38	8,669.94	993.19	277.54	998.27	0.00	0.00	0.00
10,200.00	90.00	359.38	8,669.94	1,093.19	276.45	1,098.22	0.00	0.00	0.00
10,300.00	90.00	359.38	8,669.94	1,193.18	275.36	1,198.18	0.00	0.00	0.00
10,400.00	90.00	359.38	8,669.93	1,293.18	274.27	1,298.13	0.00	0.00	0.00
10,500.00	90.00	359.38	8,669.93	1,393.17	273.18	1,398.09	0.00	0.00	0.00
10,600.00	90.00	359.38	8,669.92	1,493.16	272.09	1,498.04	0.00	0.00	0.00
10,700.00	90.00	359.38	8,669.92	1,593.16	271.00	1,598.00	0.00	0.00	0.00
10,800.00	90.00	359.38	8,669.91	1,693.15	269.91	1,697.95	0.00	0.00	0.00
10,900.00	90.00	359.38	8,669.91	1,793.15	268.82	1,797.91	0.00	0.00	0.00
11,000.00	90.00	359.38	8,669.91	1,893.14	267.73	1,897.87	0.00	0.00	0.00
11,100.00	90.00	359.38	8,669.90	1,993.13	266.64	1,997.82	0.00	0.00	0.00
11,200.00	90.00	359.38	8,669.90	2,093.13	265.56	2,097.78	0.00	0.00	0.00
11,300.00	90.00	359.38	8,669.90	2,193.12	264.47	2,197.73	0.00	0.00	0.00
11,400.00	90.00	359.38	8,669.89	2,293.12	263.38	2,297.69	0.00	0.00	0.00
11,500.00	90.00	359.38	8,669.89	2,393.11	262.29	2,397.64	0.00	0.00	0.00
11,600.00	90.00	359.38	8,669.89	2,493.10	261.20	2,497.60	0.00	0.00	0.00
11,700.00	90.00	359.38	8,669.89	2,593.10	260.11	2,597.55	0.00	0.00	0.00
11,800.00	90.00	359.38	8,669.88	2,693.09	259.02	2,697.51	0.00	0.00	0.00
11,900.00	90.00	359.38	8,669.88	2,793.09	257.94	2,797.47	0.00	0.00	0.00
12,000.00	90.00	359.38	8,669.88	2,893.08	256.85	2,897.42	0.00	0.00	0.00
12,100.00	90.00	359.38	8,669.88	2,993.08	255.76	2,997.38	0.00	0.00	0.00
12,200.00	90.00	359.38	8,669.87	3,093.07	254.67	3,097.33	0.00	0.00	0.00
12,300.00	90.00	359.38	8,669.87	3,193.06	253.58	3,197.29	0.00	0.00	0.00
12,400.00	90.00	359.38	8,669.87	3,293.06	252.50	3,297.24	0.00	0.00	0.00
12,500.00	90.00	359.38	8,669.87	3,393.05	251.41	3,397.20	0.00	0.00	0.00
12,600.00	90.00	359.38	8,669.87	3,493.05	250.32	3,497.15	0.00	0.00	0.00
12,700.00	90.00	359.38	8,669.86	3,593.04	249.23	3,597.11	0.00	0.00	0.00
12,800.00	90.00	359.38	8,669.86	3,693.03	248.15	3,697.07	0.00	0.00	0.00
12,900.00	90.00	359.38	8,669.86	3,793.03	247.06	3,797.02	0.00	0.00	0.00
13,000.00	90.00	359.38	8,669.86	3,893.02	245.97	3,896.98	0.00	0.00	0.00
13,100.00	90.00	359.38	8,669.86	3,993.02	244.88	3,996.93	0.00	0.00	0.00
13,200.00	90.00	359.38	8,669.86	4,093.01	243.80	4,096.89	0.00	0.00	0.00
13,300.00	90.00	359.38	8,669.86	4,193.00	242.71	4,196.84	0.00	0.00	0.00
13,400.00	90.00	359.38	8,669.86	4,293.00	241.62	4,296.80	0.00	0.00	0.00
13,500.00	90.00	359.38	8,669.86	4,392.99	240.54	4,396.76	0.00	0.00	0.00
13,600.00	90.00	359.38	8,669.86	4,492.99	239.45	4,496.71	0.00	0.00	0.00
13,700.00	90.00	359.38	8,669.86	4,592.98	238.36	4,596.67	0.00	0.00	0.00
13,800.00	90.00	359.38	8,669.86	4,692.97	237.28	4,696.62	0.00	0.00	0.00
13,900.00	90.00	359.38	8,669.86	4,792.97	236.19	4,796.58	0.00	0.00	0.00
14,000.00	90.00	359.38	8,669.86	4,892.96	235.10	4,896.53	0.00	0.00	0.00
14,100.00	90.00	359.38	8,669.86	4,992.96	234.02	4,996.49	0.00	0.00	0.00
14,200.00	90.00	359.38	8,669.86	5,092.95	232.93	5,096.45	0.00	0.00	0.00
14,300.00	90.00	359.38	8,669.86	5,192.95	231.84	5,196.40	0.00	0.00	0.00
14,400.00	90.00	359.38	8,669.86	5,292.94	230.76	5,296.36	0.00	0.00	0.00
14,500.00	90.00	359.38	8,669.86	5,392.93	229.67	5,396.31	0.00	0.00	0.00
14,600.00	90.00	359.38	8,669.86	5,492.93	228.59	5,496.27	0.00	0.00	0.00
14,700.00	90.00	359.38	8,669.86	5,592.92	227.50	5,596.22	0.00	0.00	0.00
14,800.00	90.00	359.38	8,669.86	5,692.92	226.42	5,696.18	0.00	0.00	0.00
14,900.00	90.00	359.38	8,669.86	5,792.91	225.33	5,796.14	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SCHLITZ FED COM 204H
Company:	TAP ROCK RESOURCES	TVD Reference:	KB 25.5 @ 3418.50usft
Project:	EDDY COUNTY	MD Reference:	KB 25.5 @ 3418.50usft
Site:	SEC 16-T25S-R26E	North Reference:	Grid
Well:	SCHLITZ FED COM 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,000.00	90.00	359.38	8,669.86	5,892.90	224.24	5,896.09	0.00	0.00	0.00
15,100.00	90.00	359.38	8,669.86	5,992.90	223.16	5,996.05	0.00	0.00	0.00
15,200.00	90.00	359.38	8,669.87	6,092.89	222.07	6,096.00	0.00	0.00	0.00
15,300.00	90.00	359.38	8,669.87	6,192.89	220.99	6,195.96	0.00	0.00	0.00
15,400.00	90.00	359.38	8,669.87	6,292.88	219.90	6,295.91	0.00	0.00	0.00
15,500.00	90.00	359.38	8,669.87	6,392.87	218.82	6,395.87	0.00	0.00	0.00
15,600.00	90.00	359.38	8,669.87	6,492.87	217.73	6,495.83	0.00	0.00	0.00
15,700.00	90.00	359.38	8,669.87	6,592.86	216.65	6,595.78	0.00	0.00	0.00
15,800.00	90.00	359.38	8,669.88	6,692.86	215.56	6,695.74	0.00	0.00	0.00
15,900.00	90.00	359.38	8,669.88	6,792.85	214.48	6,795.69	0.00	0.00	0.00
16,000.00	90.00	359.38	8,669.88	6,892.84	213.39	6,895.65	0.00	0.00	0.00
16,100.00	90.00	359.38	8,669.88	6,992.84	212.31	6,995.60	0.00	0.00	0.00
16,200.00	90.00	359.38	8,669.89	7,092.83	211.22	7,095.56	0.00	0.00	0.00
16,300.00	90.00	359.38	8,669.89	7,192.83	210.14	7,195.52	0.00	0.00	0.00
16,400.00	90.00	359.38	8,669.89	7,292.82	209.06	7,295.47	0.00	0.00	0.00
16,500.00	90.00	359.38	8,669.90	7,392.82	207.97	7,395.43	0.00	0.00	0.00
16,600.00	90.00	359.38	8,669.90	7,492.81	206.89	7,495.38	0.00	0.00	0.00
16,700.00	90.00	359.38	8,669.90	7,592.80	205.80	7,595.34	0.00	0.00	0.00
16,800.00	90.00	359.38	8,669.91	7,692.80	204.72	7,695.29	0.00	0.00	0.00
16,900.00	90.00	359.38	8,669.91	7,792.79	203.64	7,795.25	0.00	0.00	0.00
17,000.00	90.00	359.38	8,669.91	7,892.79	202.55	7,895.21	0.00	0.00	0.00
17,100.00	90.00	359.38	8,669.92	7,992.78	201.47	7,995.16	0.00	0.00	0.00
17,200.00	90.00	359.38	8,669.92	8,092.77	200.38	8,095.12	0.00	0.00	0.00
17,300.00	90.00	359.38	8,669.93	8,192.77	199.30	8,195.07	0.00	0.00	0.00
17,400.00	90.00	359.38	8,669.93	8,292.76	198.22	8,295.03	0.00	0.00	0.00
17,500.00	90.00	359.38	8,669.93	8,392.76	197.13	8,394.98	0.00	0.00	0.00
17,600.00	90.00	359.38	8,669.94	8,492.75	196.05	8,494.94	0.00	0.00	0.00
17,700.00	90.00	359.38	8,669.94	8,592.75	194.97	8,594.90	0.00	0.00	0.00
17,800.00	90.00	359.38	8,669.95	8,692.74	193.88	8,694.85	0.00	0.00	0.00
17,900.00	90.00	359.38	8,669.95	8,792.73	192.80	8,794.81	0.00	0.00	0.00
18,000.00	90.00	359.38	8,669.96	8,892.73	191.72	8,894.76	0.00	0.00	0.00
18,100.00	90.00	359.38	8,669.96	8,992.72	190.64	8,994.72	0.00	0.00	0.00
18,200.00	90.00	359.38	8,669.97	9,092.72	189.55	9,094.67	0.00	0.00	0.00
18,300.00	90.00	359.38	8,669.97	9,192.71	188.47	9,194.63	0.00	0.00	0.00
18,400.00	90.00	359.38	8,669.98	9,292.70	187.39	9,294.59	0.00	0.00	0.00
18,500.00	90.00	359.38	8,669.98	9,392.70	186.30	9,394.54	0.00	0.00	0.00
18,600.00	90.00	359.38	8,669.99	9,492.69	185.22	9,494.50	0.00	0.00	0.00
18,700.00	90.00	359.38	8,669.99	9,592.69	184.14	9,594.45	0.00	0.00	0.00
18,789.64	90.00	359.38	8,670.00	9,682.32	183.17	9,684.06	0.00	0.00	0.00
TD at 18789.64									

Planning Report

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SCHLITZ FED COM 204H
Company:	TAP ROCK RESOURCES	TVD Reference:	KB 25.5 @ 3418.50usft
Project:	EDDY COUNTY	MD Reference:	KB 25.5 @ 3418.50usft
Site:	SEC 16-T25S-R26E	North Reference:	Grid
Well:	SCHLITZ FED COM 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
SCHLITZ FED 204H FTI - plan misses target center by 77.83usft at 8778.45usft MD (8607.48 TVD, -318.38 N, 291.84 E) - Point	0.00	0.00	8,670.00	-351.09	259.00	408,745.75	554,362.32	32.1237141°N	104.2912596°W
SCHLITZ FED 204H PB - plan hits target center - Point	0.00	0.00	8,670.00	9,682.32	183.17	418,779.16	554,286.49	32.1512955°N	104.2914919°W
SCHLITZ FED 204H LTF - plan misses target center by 30.96usft at 18659.92usft MD (8669.99 TVD, 9552.61 N, 184.57 E) - Point	0.00	0.00	8,670.00	9,552.27	153.62	418,649.11	554,256.94	32.1509380°N	104.2915876°W

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
540.00	540.00	Rustler Anhydrite				
980.00	980.00	Top Salt				
1,715.00	1,715.00	Base Salt				
1,920.00	1,920.00	Delaware Mountain Gp				
1,925.00	1,925.00	Lamar				
1,975.00	1,975.00	Bell Canyon				
2,020.00	2,020.00	Ramsey Sand				
2,935.00	2,935.00	Cherry Canyon				
3,850.44	3,845.00	Brushy Canyon				
5,515.25	5,490.00	Bone Spring Lime				
5,636.70	5,610.00	Upper Avalon				
5,965.61	5,935.00	Middle Avalon				
6,274.29	6,240.00	Lower Avalon				
6,456.45	6,420.00	1st Bone Spring Sand				
6,749.95	6,710.00	2nd Bone Spring Carb				
7,225.61	7,180.00	2nd Bone Spring Sand				
7,311.63	7,265.00	3rd Bone Spring Carb				
8,272.52	8,220.00	3rd Bone Spring Sand				
8,548.17	8,465.00	3rd BS W Sand				
8,723.11	8,580.00	Wolfcamp A X Sand				
8,807.47	8,620.00	Wolfcamp A Y Sand				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(usft)	(usft)	+N/-S	+E/-W		
		(usft)	(usft)		
3,000.00	3,000.00	0.00	0.00	Start Build 1.50	
3,589.85	3,587.51	-41.17	19.26	Start 3938.85 hold at 3589.85 MD	
7,528.70	7,479.49	-589.92	275.99	Start Drop -1.50	
8,118.55	8,067.00	-631.09	295.25	Start 30.00 hold at 8118.55 MD	
8,148.55	8,097.00	-631.09	295.25	Start DLS 10.00 TFO 359.38	
9,048.65	8,670.00	-58.09	289.00	Start DLS 0.00 TFO 144.48	
18,789.64	8,670.00	9,682.32	183.17	TD at 18789.64	

Company and Well Name: Schlitz Federal Com 202H, 204H, 211H, 213H, 231H, 232H, 233H, and 234H

Reference Number: NMNM 100324

ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

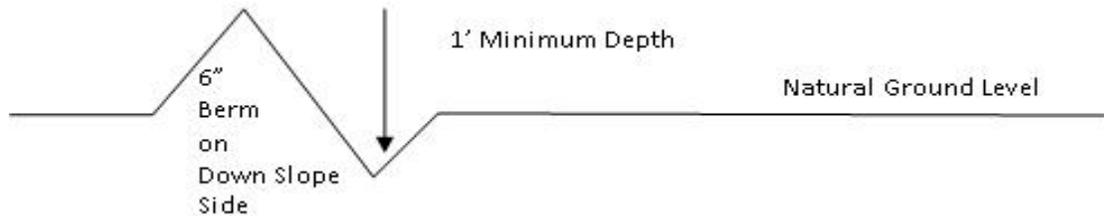
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

Cattleguards

An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

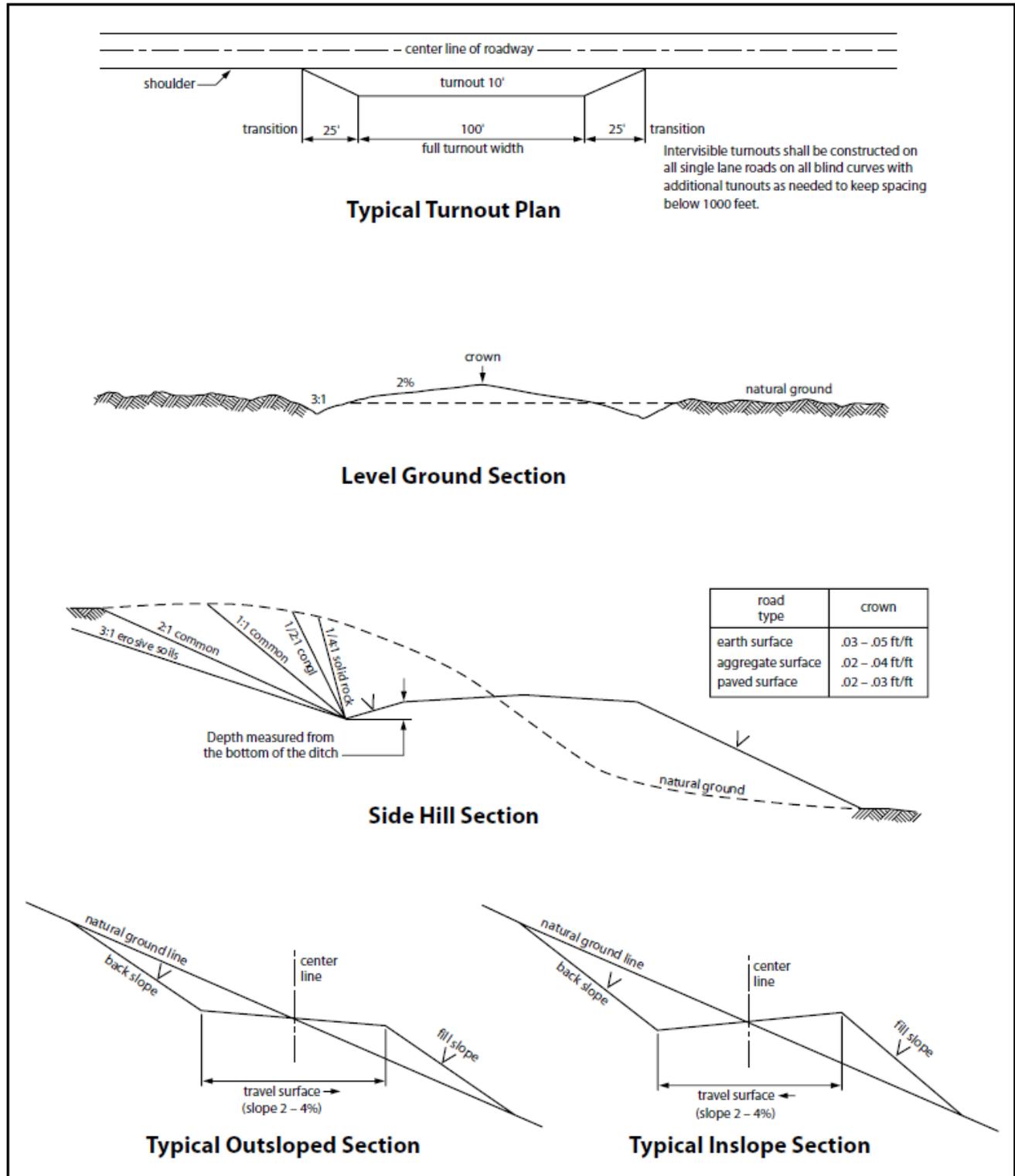


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

STANDARD STIPULATIONS FOR OIL AND GAS RELATED SITES

A copy of the application (Grant/Sundry Notice) and attachments, including stipulations and map, will be on location during construction. BLM personnel may request to view a copy of your permit during construction to ensure compliance with all stipulations.

The holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer, BLM.

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant and for all response costs, penalties, damages, claims, and other costs arising from the provisions of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Chap. 82, Section 6901 et. seq., from the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. Chap. 109, Section 9601 et. seq., and from other applicable environmental statutes.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et. seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et. seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et. seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. If, during any phase of the construction, operation, maintenance, or termination of the site or related pipeline(s), any oil or other pollutant should be discharged from site facilities, the pipeline(s) or from containers or vehicles impacting Federal lands, the control and total removal, disposal, and cleanup of such oil or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Tap Rock Operating LLC
WELL NAME & NO.:	Schlitz Fed Com 232H
LOCATION:	Sec 16 / 25S /26E / NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input type="radio"/> Medium	<input checked="" type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input 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

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware and Bone Spring** formations. 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 575 feet (a minimum of 70 feet (Eddy 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.
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.**
 3. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
 - ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
 4. 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. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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

A. CASING

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

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

B. PRESSURE CONTROL

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



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 Windssocks and / Wind Streamers:

- Windssocks at mud pit area should be high enough to be visible
- Windssock 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 H2S has on tubulars good and other mechanical equipment

9 If H2S 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 H2S scavengers if necessary

11 Emergency Contacts

Emergency Contacts		
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 Resources	720.772.5090	

Access Road



Condition Warning Sign

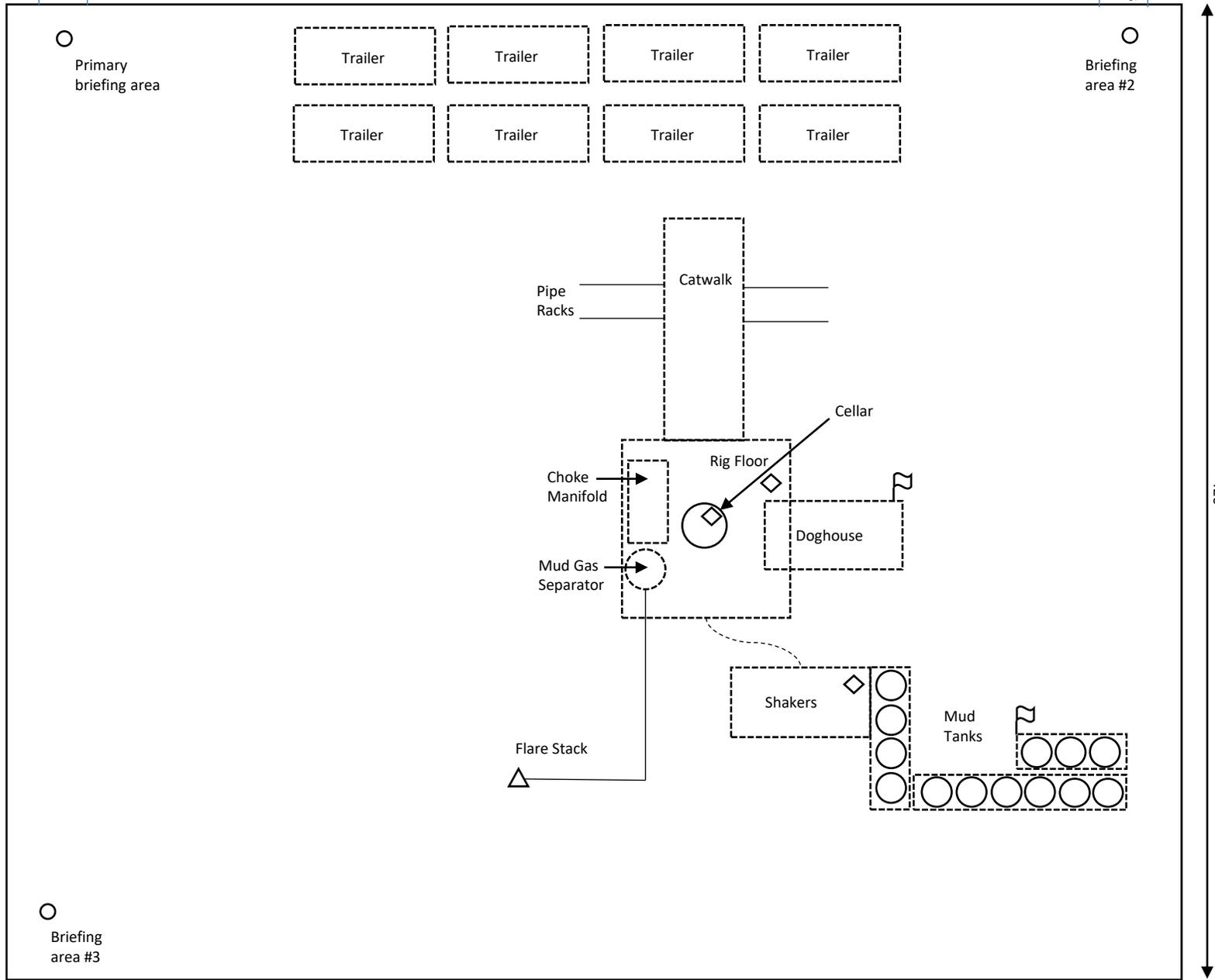
Condition Warning Sign



Access Road

Rig Diagram
Schlitz Fed Com E2 Pad
Tap Rock Operating, LLC
16-25S-26E
Eddy County, NM

- N
- Briefing Area
- Current Well
- Flare Stack
- H2S Monitor
- Wind Indicator
- Mud Gas Separator

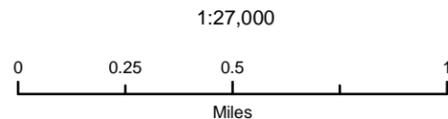


Tap Rock Operating LLC

Schlitz Fed Com E2 Pad
H2S Contingency Plan:
2 Mile Radius Map

Sec. 16, Township 25S, Range 26E
Eddy County, New Mexico

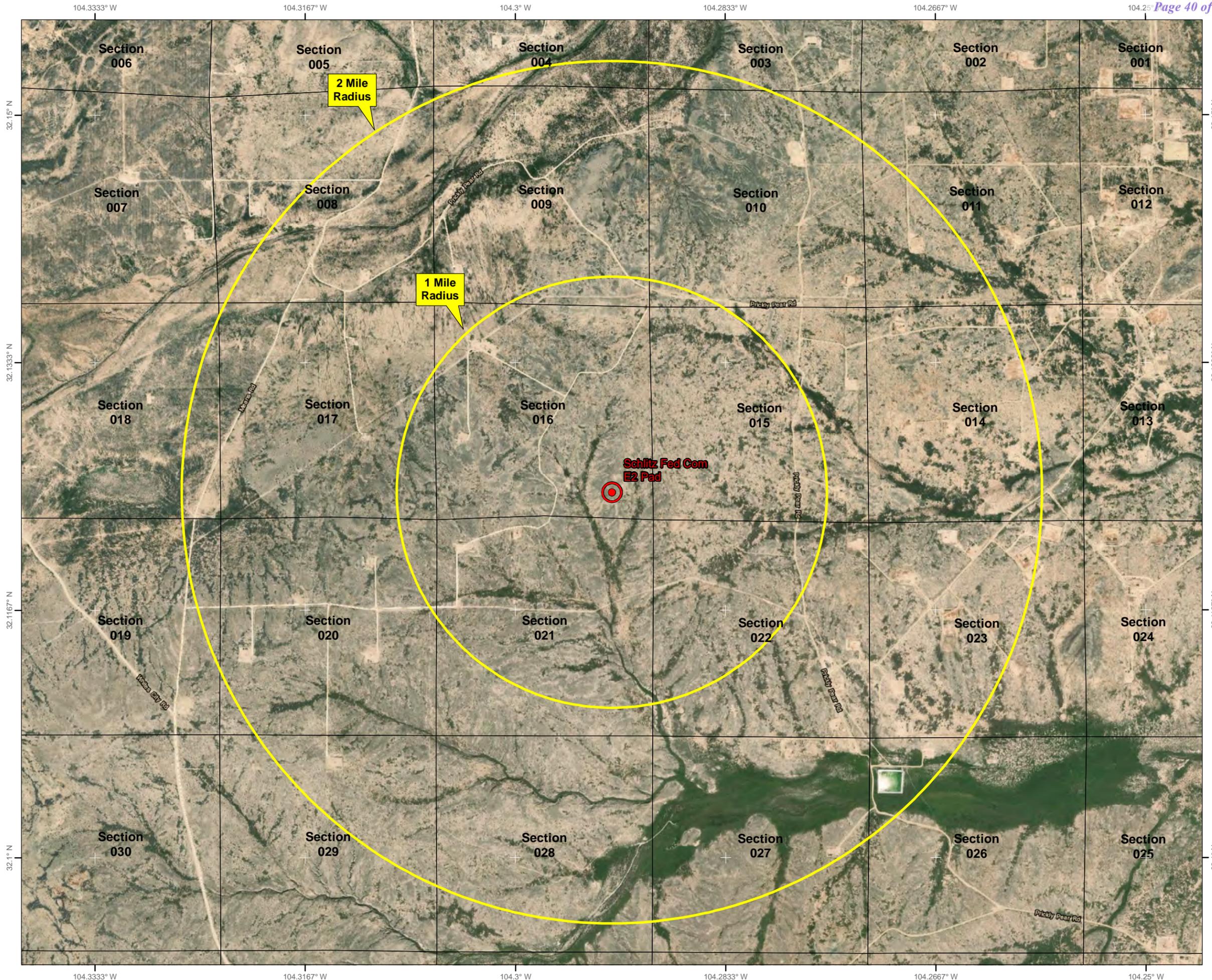
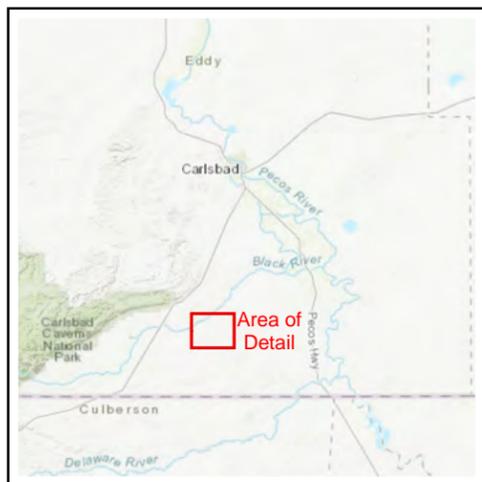
 Well Pad Location



NAD 1983 New Mexico State Plane East
FIPS 3001 Feet



Prepared by Permits West, Inc., November 3, 2020
for Tap Rock Operating, LLC



District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS

Action 57425

COMMENTS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 57425
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 10/22/2021	10/22/2021

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

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 Phone:(505) 334-6178 Fax:(505) 334-6170

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 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS
 Action 57425

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 57425
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	10/22/2021
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	10/22/2021
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	10/22/2021
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	10/22/2021
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	10/22/2021
kpickford	Operator is out of compliance due to bonding on 30-025-38873. Operator must be in compliance with 5.9 before any C-104s will be approved.	10/27/2021