

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

Sundry Print Report

Well Name: CYPRESS 33 FED COM Well Location: T23S / R29E / SEC 33 / County or Parish/State: EDDY /

NWNE / 32.2685653 / -103.9858642 NM

Well Number: 213H Type of Well: CONVENTIONAL GAS Allottee or Tribe Name:

WELL

Lease Number: NMNM086024 Unit or CA Name: Unit or CA Number:

US Well Number: 3001547860 Well Status: Approved Application for Permit to Drill OPERATING LLC

### **Notice of Intent**

**Sundry ID:** 2640587

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 10/19/2021 Time Sundry Submitted: 10:42

Date proposed operation will begin: 10/19/2021

**Procedure Description:** Tap Rock would like to alter the casing plan for the Cypress 33 Fed Com #213H. Tap Rock is requesting permission to run one of the two options listed in the attached drill plan - A three or four string design. Tap Rock would also like to have the option of running a DV tool during cementing operations. If no DV tool is ran, we would like to cement the intermediate section in a single stage.

## **Surface Disturbance**

Is any additional surface disturbance proposed?: No

## **NOI Attachments**

# **Procedure Description**

Cypress\_33\_Federal\_213H\_Sundry\_10.13.21\_20211019104224.pdf

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(eceived by OCD: 11/8/2021 1:14:06 PM Well Name: CYPRESS 33 FED COM Well Location: T23S / R29E / SEC 33 /

NWNE / 32.2685653 / -103.9858642

County or Parish/State: EDDY /

NM

Well Number: 213H

Type of Well: CONVENTIONAL GAS

Well Status: Approved Application for

**WELL** 

Lease Number: NMNM086024 Unit or CA Name:

Allottee or Tribe Name:

Permit to Drill

Operator: TAP ROCK

**Unit or CA Number:** 

OPERATING LLC

# **Operator Certification**

**US Well Number: 3001547860** 

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: BILL RAMSEY Signed on: OCT 19, 2021 10:42 AM

Name: TAP ROCK OPERATING LLC

Title: Regulatory Analyst

Street Address: 523 PARK POINT DRIVE SUITE 200

City: GOLDEN State: CO

Phone: (720) 360-4028

Email address: BRAMSEY@TAPRK.COM

## Field Representative

**Representative Name:** 

**Street Address:** 

City: State: Zip:

Phone:

**Email address:** 

## **BLM Point of Contact**

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 BLM POC Email Address: cwalls@blm.gov

**Disposition:** Approved **Disposition Date:** 11/05/2021

Signature: Chris Walls

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Elevation above Sea Level: 3,001'

#### **DRILLING PROGRAM**

#### 1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler Anhydrite	235	235		Salt
Salado	650	650	Salt	Salt
Base Salt	2835	2854		Salt
Lamar	3035	3057	Limestone	None
Bell Canyon	3045	3067	Sandstone	Hydrocarbons
Cherry Canyon	3915	3950	Sandstone	Hydrocarbons
Brushy Canyon	5090	5143	Sandstone	Hydrocarbons
Bone Spring	6740	6812	Limestone	Hydrocarbons
1st Bone Spring	7695	7767	Sandstone	Hydrocarbons
2nd Bone Spring	7970	8042	Sandstone	Hydrocarbons
3rd Bone Spring	8815	8887	Sandstone	Hydrocarbons
КОР	9754	9826	Sandstone	Hydrocarbons
Wolfcamp	9955	10031	Shale	Hydrocarbons
TD	10317	15400	Shale	Hydrocarbons

#### 2. Notable Zones

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

#### 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, 1<sup>st</sup> intermediate, and 2<sup>nd</sup> intermediate hole sections and cementing 2<sup>nd</sup> 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. Due to the Potash, Tap Rock will cement the 7-5/8" string to surface.

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.

If a DV tool is ran, the depth will be adjusted depending on current hole conditions. Cement volumes will be adjusted proportionally. The DV tool will be set a minimum of 50' below the previous casing shoe and at least 200' above the current casing shoe. If cement is not circulated to surface on the 1st cement job, the 2nd stage will be pumped as planned. If cement does not return to surface on the 2nd stage the BLM will be notified immediately.



#### 4. Casing & Cement

All Casing will be new.

Name	Hole Size	Casing Size	Standard	Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17.5	13.375	API	0	350	0	350	J-55	54.5	BUTT	1.13	1.15	1.6
1st Intermediate	12.25	9.625	API	0	3107	0	3085	J-55	40	BUTT	1.13	1.15	1.6
2nd Intermediate	8.75	7.625	NON API	0	9726	0	9654	P-110	29.7	W441	1.13	1.15	1.6
Production	6.75	5.5	NON API	0	9526	0	9454	P-110	20	TXP	1.13	1.15	1.6
Production	6.75	5.5	NON API	9526	15400	9454	10317	P-110	20	W441	1.13	1.15	1.6

Section	Dr	illed Interv	al	Casing	Standard		Casing Set Depths			Casing Details					
Section	<b>Hole Size</b>	Тор	Btm	Size	Standard	Top MD	<b>Bottom MD</b>	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17.5	0	360	13.375	API	0	350	0	350	J-55	54.5	BUTT	1.13	1.15	1.6
Intermediate	9.875 360 7500 7.625 API	API	0	7200	0	7188	P-110	29.7	BUTT	1.13	1.15	1.6			
intermediate	8.75	7500	9736	7.625	NON API	7200	9726	7188	9654	P-110	29.7	W441	1.13	1.15	1.6
Production	6.75	9736	15400	5.5	NON API	0	9526	0	9454	P-110	20	TXP	1.13	1.15	1.6
Production	6.75		15400	5.5	NON API	9526	15400	9454	10317	P-110	20	W441	1.13	1.15	1.6

#### \*OPTION TO RUN 3 STRING OR 4 STRING DESIGN

Name	Туре	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives	
Surface	Tail	0	360	1.35	486	14.8	100%	С	5% NCI + LCM	
1st Intermediate	Lead	0	552	2.18	1204	12.7	65%	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM	
1st intermediate	Tail	2330	302	1.33	401	14.8	65%	С	5% NaCl + LCM	
2nd Intermediate	Lead	0	493	2.4	1184	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM	
Ziiu iiiteriiieulate	Tail	8726	87	1.56	136	13.2	35%	Н	Fluid Loss + Dispersant + Retarder + LCM	
Production	Tail	9226	377	1.71	644	14.2	25%	Н	Fluid Loss + Dispersant + Retarder + LCM	

Nam	е	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surfac	ce	Tail	0	360	1.35	486	14.8	100%	С	5% NCI + LCM
	Stage 1	Lead	0	1192	2.4	2861	11.5	65%	С	Fluid Loss + Dispersant + Retarder + LCM
Intermediate	Stage 1	Tail	8726	106	1.56	166	13.2	65%	С	Fluid Loss + Dispersant + Retarder + LCM
intermediate	Stage 2	Primary	0	690	2.4	1655	11.5	65%	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	DVT	3257								
Produc	tion	Primary	9226	377	1.71	644	14.2	25%	Н	Fluid Loss + Dispersant + Retarder + LCM

#### \*OPTION TO RUN DV TOOL IF NECESSARY

#### 5. Mud Program

Name	Тор	Bottom	Туре	Mud Weight	Visc	Fluid Loss
Surface	0	350	FW Spud Mud	8.30	28	NC
Intermediate	350	3107	Brine Water	10.00	30-32	NC
Intermediate 2	3107	9726	FW/Cut Brine	9.00	30-32	NC
Production	9726	15400	Oil Base Mud	11.50	50-70	<10

Name	Тор	Bottom	Туре	Mud Weight	Visc	Fluid Loss
Surface	0	350	FW Gel	8.30	28	NC
Intermediate	350	9736	DBE/Cut Brine	9.00	30-32	NC
Production	9736	15400	Oil Base Mud	11.50	55-75	<10

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.



#### 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.

#### 7. **Down Hole Conditions**

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is  $\approx 6,170$  psi. Expected bottom hole temperature is  $\approx 170^{\circ}$  F.

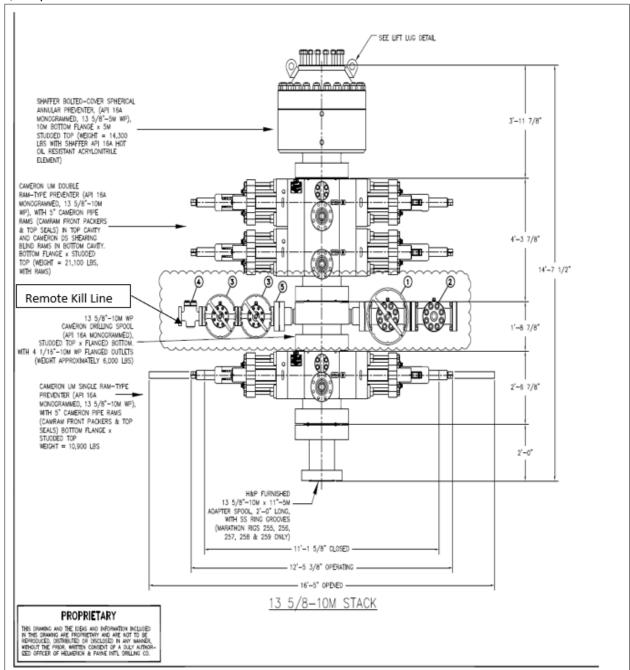
Tap Rock does not anticipate that there will be enough H2S from the surface to the Wolfcamp formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H2S safety package 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

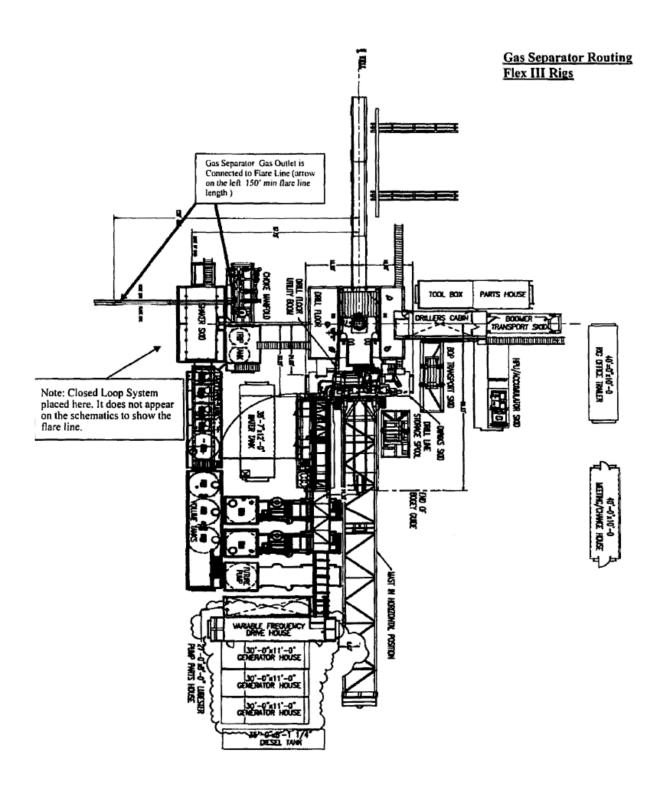
Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.



#### 5,000 psi BOP Stack





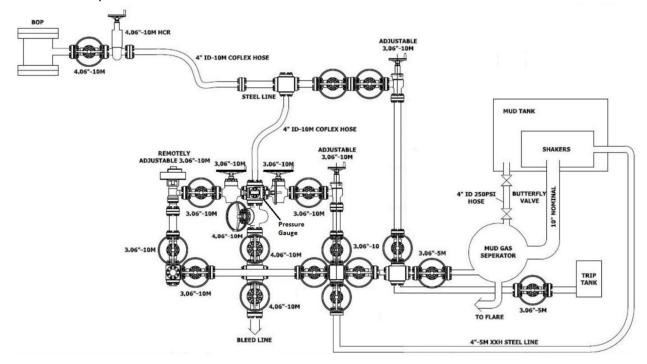




# Multi-bowl Wellhead 53.4" to C/L-28.0" 13-5/8" 10M 31.3° to C/L 40,1" 13-5/8" 5M 29.5" 2" 5M 26" OD Baseplate 20" Conductor



#### 10M Choke Layout



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

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 60821

#### **COMMENTS**

Oper	rator:	OGRID:
	TAP ROCK OPERATING, LLC	372043
	523 Park Point Drive	Action Number:
	Golden, CO 80401	60821
		Action Type:
		[C-103] NOI Change of Plans (C-103A)

#### COMMENTS

Created By	Comment	Comment Date
jagarcia	Approved, John Garcia, Petroleum Engineer	11/17/2021

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1625 N. French Dr., Hobbs, NM 88240
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**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 60821

#### **CONDITIONS**

Ope	erator:	OGRID:
	TAP ROCK OPERATING, LLC	372043
	523 Park Point Drive	Action Number:
	Golden, CO 80401	60821
		Action Type:
		[C-103] NOI Change of Plans (C-103A)

#### CONDITIONS

Created By	Condition	Condition Date
jagarcia	Adhere to all previous COAs	11/17/2021