Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5 Lease Serial No. NMNM086024 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well ✓ Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing ✓ Single Zone Multiple Zone CYPRESS 33 FED COM 241H 2. Name of Operator 9. API Well No. TAP ROCK OPERATING LLC 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 602 Park Point Drive Suite 200, Golden, CO 80401 (720) 460-3316 PURPLE SAGE; WOLFCAMP 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 33/T2XS/R29E/NMP At surface NWNW / 220 FNL / 341 FWL / LAT 32.2679725 / LONG -103.9972968 23S At proposed prod. zone SWSW / 30 FSL / 331 FWL / LAT 32.2541124 / LONG -103.9970267 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13 State **EDDY** NM 6 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 341 feet location to nearest property or lease line, ft. 1440 320.0 (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 25 feet 10907 feet / 15922 feet FED: NMB001443 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3017 feet 11/01/2020 90 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date (Electronic Submission) BRIAN WOOD / Ph: (720) 460-3316 04/10/2020 Title President Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) Cody Layton / Ph: (575) 234-5959 11/16/2020 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field 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.



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

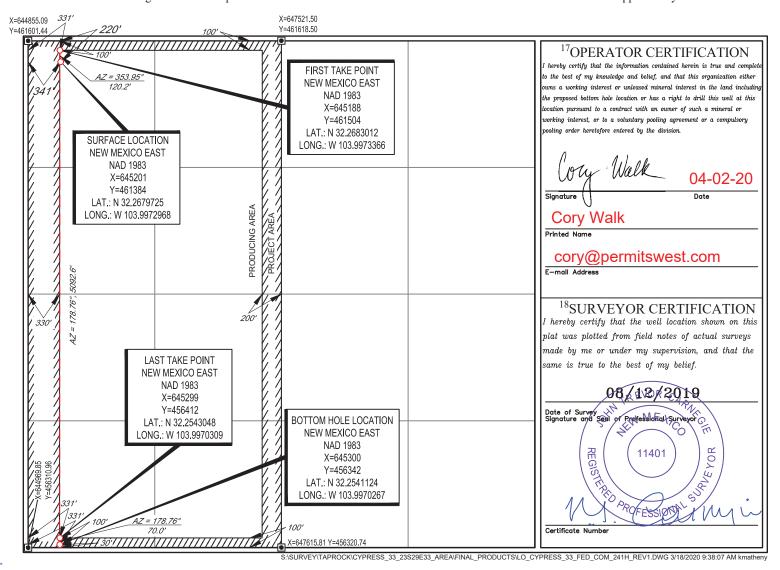
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numbe	¹ API Number ² Pool Code		³ Pool Name					
30-015-			98220 PURPLE SAGE; WOL					
⁴ Property Code		⁵ Pr	Property Name ⁶ Well Number					
		CYPRESS	33 FED COM	241H				
⁷ OGRID No.		⁸ O _I	perator Name	⁹ Elevation				
372043		TAP ROCK	OPERATING, LLC.	3017'				

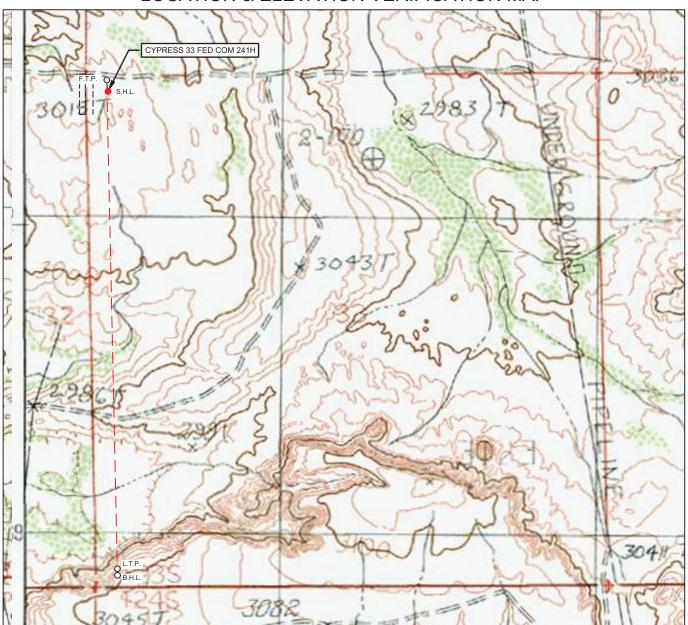
¹⁰Surface Location

D UL or lot no.	Section 33	Township 23-S	29-E	Lot Idn	Feet from the 220'	NORTH	341'	WEST	EDDY
		•	11]	Bottom Ho	le Location If I	Different From Su	rface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	33	23-S	29-E	_	30'	SOUTH	331'	WEST	EDDY
12Dedicated Acres	¹³ Joint or l	Infill 14Co	onsolidation Co	de ¹⁵ Ord	er No.				
320									

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.



LOCATION & ELEVATION VERIFICATION MAP





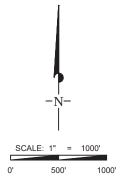
LEASE NAME & WELL NO.:

CYPRESS 33 FED COM 241H

SECTION 33 TWP 23-S RGE 29-E SURVEY N.M.P.M. EDDY STATE_ COUNTY . NM _ ELEVATION _ DESCRIPTION _ 220' FNL & 341' FWL

LATITUDE ____ N 32.2679725 ___ LONGITUDE ___

W 103.9972968



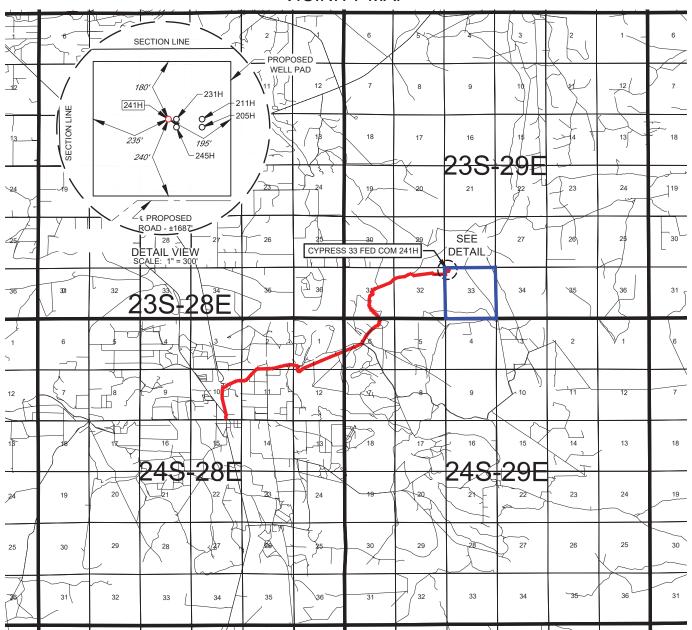
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF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

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



1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743 WWW.TOPOGRAPHIC.COM

EXHIBIT 2 VICINITY MAP





LEASE NAME & WELL NO.:

CYPRESS 33 FED COM 241H

 SECTION
 33
 TWP
 23-S
 RGE
 29-E
 SURVEY
 N.M.P.M.

 COUNTY
 EDDY
 STATE
 NM

 DESCRIPTION
 220' FNL & 341' FWL

DISTANCE & DIRECTION

FROM INT. OF US-285, & NM-720, HEAD NORTH ON US-285 E ±295 FEET, THENCE NORTH (RIGHT) ON ONSUREZ RD. ±0.6 MILES, THENCE EAST (RIGHT) ON BRAMBLE RD. ±1.1 MILES, THENCE CONTINUING ON HARROUN RD. ± 2.0 MILES, THENCE NORTH (LEFT) ON A LEASE RD. ±2.9 MILES, THENCE SOUTH (RIGHT) ON A LEASE RD. ±200 FEET, THENCE EAST (LEFT) ON PROPOSED RD. ±1687 FEET, A POINT ±331 FEET SOUTHWEST OF THE LOCATION.

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

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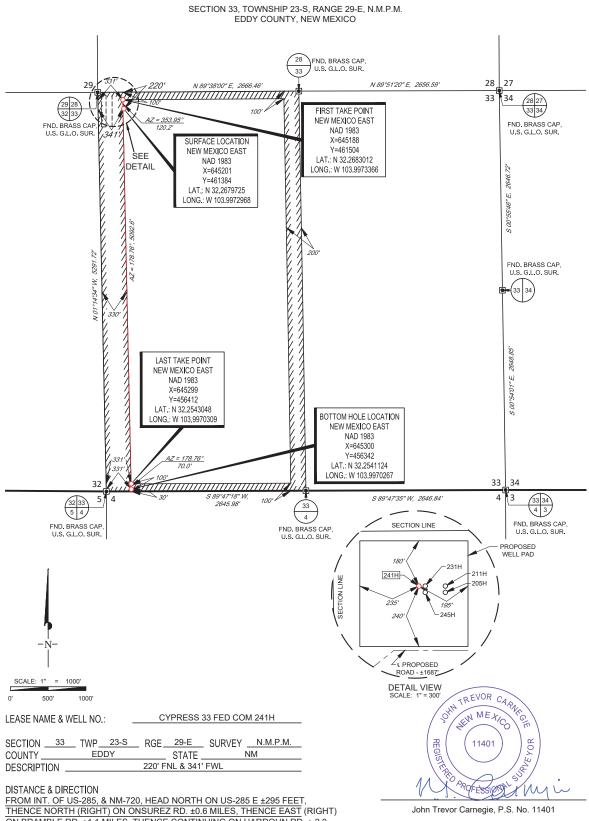
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FROM INT. OF US-285, & NM-720, HEAD NORTH ON US-285 E ±295 FEET,
THENCE NORTH (RIGHT) ON ONSUREZ RD. ±0.6 MILES, THENCE EAST (RIGHT)
ON BRAMBLE RD. ±1.1 MILES, THENCE CONTINUING ON HARROUN RD. ±2.0
MILES, THENCE NORTH (LEFT) ON A LEASE RD. ±2.9 MILES, THENCE SOUTH
DICHTON ON A LEASE RD. ±200 FEET. THENCE SET (LEFT) ON A DROPOSED RD. (RIGHT) ON A LEASE RD. ±200 FEET, THENCE EAST (LEFT) ON PROPOSED RD. ±1687 FEET, A POINT ±331 FEET SOUTHWEST OF THE LOCATION.

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

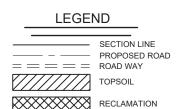
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP FOCK OPERATING, LLC THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR BUTTIES SHOWN ON THE FACE OF THIS FLAT AND NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

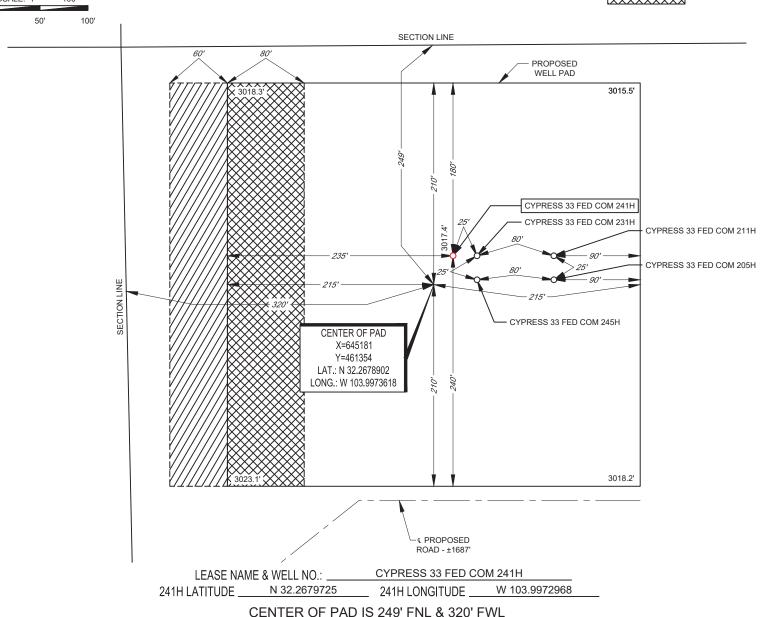


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SECTION 33, TOWNSHIP 23-S, RANGE 29-E, N.M.P.M. EDDY COUNTY, NEW MEXICO

DETAIL VIEW SCALE: 1" = 100'







John Trevor Carnegie, P.S. No. 11401

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



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1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

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

		DT	IIDE	DI	A TAT
GAS	LA		UKL	\mathbf{r}	A

Date: 12/13/2019		
⊠ Original	Operator & OGRID No.:	372043
☐ Amended - Reason for Amendment:	-	

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Cypress 33 Fed Com 241H		Unit D Sec 33 T23S R29E	220' FNL 341' FWL	+/- 3,200	21 days	Gas will be flared for ~21 days on flowback before turning into TB. Time est depends on sales connect and well cleanup.

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to ARM Midstream Management Energy Group, LLC and will be connected to ARM Midstream Management Energy Group, LLC high pressure gathering system located in Eddy County, New Mexico. It will require ~1,000' of pipeline to connect the facility to low/high pressure gathering system. Tap Rock Operating, LLC provides (periodically) to ARM Midstream Management Energy Group, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Tap Rock Operating, LLC and ARM Midstream Management Energy Group, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at ARM Midstream Management Energy Group, LLC's Salt Creek Pecos Processing Plant located in Reeves County, Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on the midstream side at that time. Based on current information, it is Tap Rock's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared

- - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines



Elevation above Sea Level: 3017'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler Anhydrite	350	355		Salt
Salado	645	645	Salt	Salt
Base Salt	2695	2695		Salt
Lamar	2950	2950	Limestone	None
Bell Canyon	2960	2960	Sandstone	Hydrocarbons
Cherry Canyon	3850	3852	Sandstone	Hydrocarbons
Brushy Canyon	5030	5033	Sandstone	Hydrocarbons
Bone Spring	6640	6645	Limestone	Hydrocarbons
1st Bone Spring	7665	7670	Sandstone	Hydrocarbons
2nd Bone Spring	7940	7945	Sandstone	Hydrocarbons
3rd Bone Spring	8785	8790	Sandstone	Hydrocarbons
КОР	10343	10348	Sandstone	Hydrocarbons
Wolfcamp	9925	9930	Shale	Hydrocarbons
TD	10907	15922	Shale	Hydrocarbons

2. Notable Zones

Wolfcamp C 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, 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. 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.



4. Casing & Cement

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	425	0	420	J-55	54.5	BUTT	1.13	1.15	1.6
1st Intermediate	12 1/4	9 5/8	API	No	0	3000	0	3000	J-55	40	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	NON API	No	0	10248	0	10243	P-110	29.7	W-513	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	No	0	9748	0	9748	P-110	20	TXP	1.13	1.15	1.6
Production	6 3/4	5	NON API	Yes	9748	15922	9748	10907	P-110	18	W-521	1.13	1.15	1.6

Name	Туре	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Tail	0	437	1.35	590	14.8	100%	С	5% NCI + LCM
1st Intermediate	Lead	0	533	2.18	1163	12.7	65%	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
1st intermediate	Tail	2250	291	1.33	388	14.8	65%	С	5% NaCl + LCM
2nd Intermediate	Lead	0	565	2.22	1254	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM
Ziiu iiiteriiieulate	Tail	9248	99	1.37	136	13.2	35%	Н	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	9748	727	1.19	865	15.8	25%	Н	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	Тор	Bottom	Туре	Mud Weight	Visc	Fluid Loss
Surface	0	420	FW Spud Mud	8.30	28	NC
Intermediate	420	3000	Brine Water	10.00	30-32	NC
Intermediate 2	3000	10243	FW/Cut Brine	9.00	30-32	NC
Production	10243	15922	Oil Base Mud	13.00	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.



7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is $\approx 7,373$ 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.

Tap Rock Operating, LLC.

Eddy County, NM (NAD83) Cypress 33 Fed Com 241H

OH

Plan: Plan #1

Standard Planning Report

11 December, 2019

15,852.0

15,922.0

90.11

90.11

178.76

178.76

10,907.0

10,906.9

-4,971.9

-5,041.8

Project Eddy County, NM (NAD83)

Map System: US State Plane 1983 System Datum: Mean Sea Level

Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

Site Cypress 33 Fed Com Site Position: Northing: 461,635.94 usft Latitude: 32° 16' 7.082 N 103° 59' 9.110 W From: Lat/Long Easting: 648,733.91 usft Longitude: **Position Uncertainty:** 2.0 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.19°

Well 241H **Well Position** +N/-S -251.9 usft 461,384.04 usft 32° 16' 4.701 N Northing: Latitude: -3,532.9 usft 645,200.98 usft 103° 59' 50.268 W +E/-W Easting: Longitude: **Position Uncertainty** 2.0 usft Wellhead Elevation: **Ground Level:** 3,017.0 usft

ОН Wellbore Field Strength **Model Name** Sample Date Declination Dip Angle Magnetics (°) (°) (nT) IGRF2015 12/11/2019 6.89 60.00 47,666.88785645

Design Plan #1 Audit Notes: Version: Phase: **PLAN** Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 178.76

 Plan Survey Tool Program
 Date
 12/11/2019

 Depth From (usft)
 Depth To (usft)
 Survey (Wellbore)
 Tool Name
 Remarks

 1
 0.0
 15,921.8
 Plan #1 (OH)
 MWD

 MWD - Standard

Plan Sections Measured Vertical Dogleg Build Turn +N/-S Depth Inclination Azimuth Depth +E/-W Rate Rate Rate TFO (usft) (°/100usft) (°/100usft) (usft) (usft) (°/100usft) (usft) (°) (°) (°) **Target** 0.00 0.00 0.0 0.00 0.00 0.0 0.0 0.0 0.00 0.00 2,550.0 0.00 0.00 2,550.0 0.0 0.0 0.00 0.00 0.00 0.00 2,750.0 3.00 356.00 2,749.9 5.2 -0.4 1.50 1.50 0.00 356.00 6,450.0 3.00 356.00 6,444.8 198.4 -13.9 0.00 0.00 0.00 0.00 6,650.0 0.00 0.00 6,644.7 203.6 -14.2 1.50 -1.50 0.00 180.00 10,348.3 0.00 0.00 10,343.0 203.6 -14.2 0.00 0.00 0.00 0.00 11,249.4 90.11 178.76 10,916.0 -370.3 -1.8 10.00 10.00 19.84 178.76

97.8

99.3

0.00

0.00

0.00

0.00

0.00

0.00

0.00 LTP_C33.241H

0.00 PBHL_C33.241H

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0	0.00	0.00	350.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler Anhy	drite								
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
645.0	0.00	0.00	645.0	0.0	0.0	0.0	0.00	0.00	0.00
Top Salt 700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0 1,000.0	0.00 0.00	0.00 0.00	900.0 1,000.0	0.0 0.0	0.0	0.0	0.00 0.00	0.00 0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0 0.0	0.0 0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0 1,400.0	0.00 0.00	0.00 0.00	1,300.0 1,400.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,550.0	0.00	0.00	2,550.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.									
2,600.0	0.75	356.00	2,600.0	0.3	0.0	-0.3	1.50	1.50	0.00
2,695.0	2.18	356.00	2,695.0	2.7	-0.2	-2.7	1.50	1.50	0.00
Base Salt									
2,700.0	2.25	356.00	2,700.0	2.9	-0.2	-2.9	1.50	1.50	0.00
2,750.0	3.00 nold at 2750.0 M	356.00	2,749.9	5.2	-0.4	-5.2	1.50	1.50	0.00
2.800.0	3.00	356.00	2,799.8	7.8	-0.5	-7.8	0.00	0.00	0.00
2,900.0	3.00	356.00	2,899.7	13.1	-0.9	-13.1	0.00	0.00	0.00
2,935.3	3.00	356.00	2,935.0	14.9	-1.0	-14.9	0.00	0.00	0.00
Delaware Mo		330.00	2,935.0	14.9	-1.0	-14.9	0.00	0.00	0.00
2,950.4	3.00	356.00	2,950.0	15.7	-1.1	-15.7	0.00	0.00	0.00
Lamar	,,,,,		,. ,						
2,960.4	3.00	356.00	2,960.0	16.2	-1.1	-16.2	0.00	0.00	0.00
Bell Canyon									
2,975.4	3.00	356.00	2,975.0	17.0	-1.2	-17.0	0.00	0.00	0.00
Ramsey Sand				4 = =					
3,000.0	3.00	356.00	2,999.6	18.3	-1.3	-18.3	0.00	0.00	0.00
3,100.0	3.00	356.00	3,099.4	23.5	-1.6	-23.5	0.00	0.00	0.00
3,200.0	3.00	356.00	3,199.3	28.7	-2.0	-28.8	0.00	0.00	0.00
3,300.0	3.00	356.00	3,299.2	33.9	-2.4	-34.0	0.00	0.00	0.00
3,400.0	3.00	356.00	3,399.0	39.2	-2.7	-39.2	0.00	0.00	0.00
3,500.0	3.00	356.00	3,498.9	44.4	-3.1	-44.4	0.00	0.00	0.00
3,600.0	3.00	356.00	3,598.7	49.6	-3.5	-49.7	0.00	0.00	0.00
3,700.0	3.00	356.00	3,698.6	54.8	-3.8	-54.9	0.00	0.00	0.00
3,800.0	3.00	356.00	3,798.5	60.0	-4.2	-60.1	0.00	0.00	0.00
3,851.6	3.00	356.00	3,850.0	62.7	-4.4	-62.8	0.00	0.00	0.00
Cherry Canyo 3,900.0	on 3.00	356.00	3,898.3	65.3	-4.6	-65.3	0.00	0.00	0.00
4,000.0	3.00	356.00	3,998.2	70.5	-4.9	-70.6	0.00	0.00	0.00
4,100.0	3.00	356.00	4,098.1	75.7	-5.3	-75.8	0.00	0.00	0.00
4,200.0	3.00	356.00	4,197.9	80.9	-5.7	-81.0	0.00	0.00	0.00
4,300.0	3.00	356.00	4,297.8	86.1	-6.0	-86.3	0.00	0.00	0.00

nned Sur	vey									
	sured			Vertical			Vertical	Dogleg	Build	Turn
	epth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(u	usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	4,500.0	3.00	356.00	4,497.5	96.6	-6.8	-96.7	0.00	0.00	0.00
	4,600.0	3.00	356.00	4,597.4	101.8	-7.1	-101.9	0.00	0.00	0.00
	4,700.0	3.00	356.00	4,697.2	107.0	-7.5	-107.2	0.00	0.00	0.00
	4,800.0	3.00	356.00	4,797.1	112.2	-7.8	-112.4	0.00	0.00	0.00
	4,900.0	3.00	356.00	4,897.0	117.5	-8.2	-117.6	0.00	0.00	0.00
	5,000.0	3.00	356.00	4,996.8	122.7	-8.6	-122.8	0.00	0.00	0.00
	5,033.2	3.00	356.00	5,030.0	124.4	-8.7	-124.6	0.00	0.00	0.00
Bru	ushy Cany	on								
	5,100.0	3.00	356.00	5,096.7	127.9	-8.9	-128.1	0.00	0.00	0.00
	5,200.0	3.00	356.00	5,196.6	133.1	-9.3	-133.3	0.00	0.00	0.00
	5,300.0	3.00	356.00	5,296.4	138.4	-9.7	-138.5	0.00	0.00	0.00
	5,400.0	3.00	356.00	5,396.3	143.6	-10.0	-143.8	0.00	0.00	0.00
	5,500.0	3.00	356.00	5,496.1	148.8	-10.4	-149.0	0.00	0.00	0.00
	5,600.0	3.00	356.00	5,596.0	154.0	-10.8	-154.2	0.00	0.00	0.00
	5,700.0	3.00	356.00	5,695.9	159.2	-11.1	-159.4	0.00	0.00	0.00
	5,800.0	3.00	356.00	5,795.7	164.5	-11.5	-164.7	0.00	0.00	0.00
	5,900.0	3.00	356.00	5,895.6	169.7	-11.9	-169.9	0.00	0.00	0.00
	6,000.0	3.00	356.00	5,995.5	174.9	-12.2	-175.1	0.00	0.00	0.00
	6,100.0	3.00	356.00	6,095.3	180.1	-12.6	-180.4	0.00	0.00	0.00
	6,200.0	3.00	356.00	6,195.2	185.3	-13.0	-185.6	0.00	0.00	0.00
	6,300.0	3.00	356.00	6,295.0	190.6	-13.3	-190.8	0.00	0.00	0.00
	6,400.0	3.00	356.00	6,394.9	195.8	-13.7	-196.0	0.00	0.00	0.00
	6,450.0	3.00	356.00	6,444.8	198.4	-13.9	-198.6	0.00	0.00	0.00
	art Drop -1.									
	6,500.0	2.25	356.00	6,494.8	200.7	-14.0	-200.9	1.50	-1.50	0.00
	6,600.0	0.75	356.00	6,594.7	203.3	-14.2	-203.5	1.50	-1.50	0.00
	6,645.3	0.07	356.00	6,640.0	203.6	-14.2	-203.9	1.50	-1.50	0.00
Bo	ne Spring	Lime								
	6,650.0	0.00	0.00	6,644.7	203.6	-14.2	-203.9	1.50	-1.50	0.00
Sta	art 3698.3 h	nold at 6650.0 M	ID							
	6,700.0	0.00	0.00	6,694.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	6,705.3	0.00	0.00	6,700.0	203.6	-14.2	-203.9	0.00	0.00	0.00
	per Avalon									
	6,800.0	0.00	0.00	6,794.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	6,900.0	0.00	0.00	6,894.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	7,000.0	0.00	0.00	6,994.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	7,080.3	0.00	0.00	7,075.0	203.6	-14.2	-203.9	0.00	0.00	0.00
	ddle Avalor									
	7,100.0	0.00	0.00	7,094.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	7,200.0	0.00	0.00	7,194.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	7,300.0	0.00	0.00	7,294.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	7,400.0	0.00	0.00	7,394.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	7,465.3	0.00	0.00	7,460.0	203.6	-14.2	-203.9	0.00	0.00	0.00
	wer Avalor									
	7,500.0	0.00	0.00	7,494.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	7,600.0 7,670.3	0.00 0.00	0.00 0.00	7,594.7 7,665.0	203.6 203.6	-14.2 -14.2	-203.9 -203.9	0.00 0.00	0.00 0.00	0.00 0.00
			0.00	7,000.0	203.0	-14.2	-203.9	0.00	0.00	0.00
	Bone Spri	•								
	7,700.0	0.00	0.00	7,694.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	7,800.0	0.00	0.00	7,794.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	7,900.0	0.00	0.00	7,894.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	7,945.3	0.00	0.00	7,940.0	203.6	-14.2	-203.9	0.00	0.00	0.00
	d Bone Spi 8,000.0	ring Carb 0.00	0.00	7,994.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	8,100.0	0.00	0.00	8,094.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	8,200.0	0.00	0.00	8,194.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	8,265.3	0.00	0.00	8,260.0	203.6	-14.2	-203.9	0.00	0.00	0.00
	d Bone Spi	_	0.00	0.004.7	202.2	440	000.0	0.00	0.00	0.00
	8,300.0 8,400.0	0.00	0.00	8,294.7	203.6	-14.2	-203.9	0.00	0.00 0.00	0.00
		0.00	0.00	8,394.7	203.6	-14.2	-203.9	0.00		0.00
	8,500.0	0.00	0.00	8,494.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	8,600.0	0.00	0.00	8,594.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	8,700.0 8,790.3	0.00	0.00	8,694.7 8,785.0	203.6	-14.2 -14.2	-203.9	0.00	0.00	0.00
		0.00	0.00	8,785.0	203.6	-14.2	-203.9	0.00	0.00	0.00
0	BODA SOF	ing Carb				-14.2	-203.9	0.00	0.00	

lanned	Survey									
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	8,900.0	0.00	0.00	8,894.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	9,000.0	0.00	0.00	8,994.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	9,100.0	0.00	0.00	9,094.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	9,200.0	0.00	0.00	9,194.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	9,300.0	0.00	0.00	9,294.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	9,400.0	0.00	0.00	9,394.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	9,500.0	0.00	0.00	9,494.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	9,600.0	0.00	0.00	9,594.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	9,605.3	0.00	0.00	9,600.0	203.6	-14.2	-203.9	0.00	0.00	0.00
	3rd Bone Spi	ring Sand								
	9,700.0	0.00	0.00	9,694.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	0.000.0	0.00	0.00	0.704.7	202.0	44.0	202.0	0.00	0.00	0.00
	9,800.0	0.00	0.00 0.00	9,794.7 9,870.0	203.6 203.6	-14.2 -14.2	-203.9 -203.9	0.00 0.00	0.00	0.00 0.00
	9,875.3	0.00	0.00	9,070.0	203.0	-14.2	-203.9	0.00	0.00	0.00
	3rd BS W Sai		0.00	0.004.7	200.0	44.0	000.0	0.00	0.00	0.00
	9,900.0	0.00	0.00	9,894.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	9,930.3	0.00	0.00	9,925.0	203.6	-14.2	-203.9	0.00	0.00	0.00
	Wolfcamp A				***					A 6 -
	10,000.0	0.00	0.00	9,994.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	10,040.3	0.00	0.00	10,035.0	203.6	-14.2	-203.9	0.00	0.00	0.00
	Wolfcamp A									
	10,100.0	0.00	0.00	10,094.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	10,150.3	0.00	0.00	10,145.0	203.6	-14.2	-203.9	0.00	0.00	0.00
	Wolfcamp A			-,						
	10,200.0	0.00	0.00	10,194.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	10,275.3	0.00	0.00	10,270.0	203.6	-14.2	-203.9	0.00	0.00	0.00
	Wolfcamp B	0.00	0.00	10,210.0	200.0	11.2	200.0	0.00	0.00	0.00
	Wollcamp B									
	10,300.0	0.00	0.00	10,294.7	203.6	-14.2	-203.9	0.00	0.00	0.00
	10,348.3	0.00	0.00	10,343.0	203.6	-14.2	-203.9	0.00	0.00	0.00
	Start DLS 10.	.00 TFO 178.76								
	10,350.0	0.17	178.76	10,344.7	203.6	-14.2	-203.9	10.00	10.00	0.00
	10,400.0	5.17	178.76	10,394.7	201.3	-14.2	-201.5	10.00	10.00	0.00
	10,450.0	10.17	178.76	10,444.2	194.6	-14.0	-194.9	10.00	10.00	0.00
	10,500.0	15.17	178.76	10.493.0	183.6	-13.8	-183.9	10.00	10.00	0.00
	10,550.0	20.17	178.76	10,540.6	168.5	-13.5	-168.7	10.00	10.00	0.00
	10,600.0	25.17	178.76	10,586.7	149.2	-13.1	-149.5	10.00	10.00	0.00
	10,600.0	26.09	178.76	10,586.7	145.2	-13.1	-149.5	10.00	10.00	0.00
			170.70	10,595.0	143.2	-13.0	-145.5	10.00	10.00	0.00
	Wolfcamp B1		470.70	40.004.0	400.0	40.0	400.0	40.00	40.00	0.00
	10,650.0	30.17	178.76	10,631.0	126.0	-12.6	-126.2	10.00	10.00	0.00
	10,700.0	35.17	178.76	10,673.1	99.0	-12.0	-99.3	10.00	10.00	0.00
	10,750.0	40.17	178.76	10,712.6	68.5	-11.3	-68.7	10.00	10.00	0.00
	10,800.0	45.17	178.76	10,749.4	34.6	-10.6	-34.8	10.00	10.00	0.00
	10,850.0	50.17	178.76	10,783.0	-2.3	-9.8	2.1	10.00	10.00	0.00
	10,885.7	53.74	178.76	10,805.0	-30.4	-9.2	30.2	10.00	10.00	0.00
	Wolfcamp C									
	•	FF 47	470.70	40.040.0	40.4	2.0	44.0	40.00	40.00	0.00
	10,900.0	55.17	178.76	10,813.3	-42.1	-8.9	41.9	10.00	10.00	0.00
	10,950.0	60.17	178.76	10,840.1	-84.3	-8.0	84.1	10.00	10.00	0.00
	11,000.0	65.17	178.76	10,863.0	-128.7	-7.0	128.5	10.00	10.00	0.00
	11,050.0	70.17	178.76	10,882.0	-174.9	-6.0	174.8	10.00	10.00	0.00
	11,100.0	75.17	178.76	10,896.9	-222.6	-5.0	222.5	10.00	10.00	0.00
	11,150.0	80.17	178.76	10,907.6	-271.5	-4.0	271.3	10.00	10.00	0.00
	11,200.0	85.17	178.76	10,913.9	-321.0	-2.9	320.9	10.00	10.00	0.00
	11,249.4	90.11	178.76	10,916.0	-370.3	-1.8	370.2	10.00	10.00	0.00
	Start 4602.6 I	hold at 11249.4 I	MD							
	11,300.0	90.11	178.76	10,915.9	-420.9	-0.7	420.8	0.00	0.00	0.00
	11,400.0	90.11	178.76	10,915.7	-520.9	1.4	520.8	0.00	0.00	0.00
	11,500.0	90.11	178.76	10,915.5	-620.9	3.6	620.8	0.00	0.00	0.00
	11,600.0	90.11	178.76	10,915.5	-620.9 -720.9	5.8	620.8 720.8	0.00	0.00	0.00
	11,700.0	90.11	178.76	10,915.3	-820.8	7.9	820.8	0.00	0.00	0.00
	11,700.0	90.11	178.76	10,913.1	-920.8	10.1	920.8	0.00	0.00	0.00
	11,900.0	90.11	178.76	10,914.9	-1,020.8	12.3	1,020.8	0.00	0.00	0.00
	12,000.0	90.11	178.76	10,914.5	-1,120.8	14.4	1,120.8	0.00	0.00	0.00
	12,100.0	90.11	178.76	10,914.3	-1,220.8	16.6	1,220.8	0.00	0.00	0.00
									0.00	0.00
	12,200.0	90.11	178.76	10,914.1	-1,320.7	18.8	1,320.8	0.00	0.00	0.00
		90.11 90.11 90.11	178.76 178.76 178.76	10,914.1 10,913.9 10,913.7	-1,320.7 -1,420.7 -1,520.7	18.8 20.9 23.1	1,320.8 1,420.8 1,520.8	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00

Measured Dopth Inclination Azimuth Cyricial Dopth (usft) (u	anned Survey									
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13,600.0 90.11 178.76 10,911.2 -2,820.4 51.2 2,820.8 0.00 0.00 0.00 0.00 13,700.0 90.11 178.76 10,911.2 -2,820.4 51.2 2,820.8 0.00 0.00 0.00 0.00 13,800.0 90.11 178.76 10,911.0 -2,920.4 53.4 2,920.8 0.00 0.00 0.00 0.00 13,800.0 90.11 178.76 10,910.8 -3,020.3 55.5 3,020.8 0.00 0.00 0.00 0.00 14,000.0 90.11 178.76 10,910.6 -3,120.3 55.5 3,020.8 0.00 0.00 0.00 0.00 14,000.0 90.11 178.76 10,910.6 -3,120.3 55.9 3,220.8 0.00 0.00 0.00 0.00 14,200.0 90.11 178.76 10,910.2 -3,320.3 59.9 3,220.8 0.00 0.00 0.00 0.00 14,200.0 90.11 178.76 10,910.2 -3,320.3 62.0 3,320.8 0.00 0.00 0.00 0.00 14,300.0 90.11 178.76 10,910.0 -3,420.2 66.2 3,420.8 0.00 0.00 0.00 0.00 14,300.0 90.11 178.76 10,909.6 -3,620.2 66.3 3,520.8 0.00 0.00 0.00 0.00 14,600.0 90.11 178.76 10,909.6 -3,620.2 68.5 3,620.8 0.00 0.00 0.00 0.00 14,600.0 90.11 178.76 10,909.4 -3,720.2 70.7 3,720.8 0.00 0.00 0.00 14,600.0 90.11 178.76 10,909.0 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.9 -4,020.1 77.2 4,020.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.9 -4,020.1 77.2 4,020.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.3 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.3 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,907.7 -4,620.0 90.1 4,620.8 0.00 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,907.5 -4,719.9 92.3 4,720.8 0.00 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10,907.5 -4,719.9 94.5 4,420.8 0.00 0.00 0.00 0.	13,500.0	90.11	178.76	10,911.6	-2,620.4	46.9	2,620.8	0.00	0.00	0.00
13,700.0 90.11 178.76 10.911.2 -2.820.4 51.2 2.820.8 0.00 0.00 0.00 13,800.0 90.11 178.76 10.911.0 -2.920.4 53.4 2.920.8 0.00 0.00 0.00 0.00 13,900.0 90.11 178.76 10.910.8 -3.020.3 55.5 3.020.8 0.00 0.00 0.00 0.00 14,000.0 90.11 178.76 10.910.8 -3.120.3 57.7 3,120.8 0.00 0.00 0.00 0.00 14,100.0 90.11 178.76 10.910.4 -3.220.3 59.9 3.220.8 0.00 0.00 0.00 0.00 14,200.0 90.11 178.76 10.910.0 -3.420.2 64.2 3,420.8 0.00 0.00 0.00 0.00 14,300.0 90.11 178.76 10.910.0 -3.420.2 64.2 3,420.8 0.00 0.00 0.00 0.00 14,400.0 90.11 178.76 10.909.8 -3.520.2 66.3 3,520.8 0.00 0.00 0.00 0.00 14,400.0 90.11 178.76 10.909.6 -3.620.2 68.5 3,620.8 0.00 0.00 0.00 0.00 14,500.0 90.11 178.76 10.909.6 -3.620.2 68.5 3,620.8 0.00 0.00 0.00 0.00 14,700.0 90.11 178.76 10.909.4 -3.720.2 70.7 3,720.8 0.00 0.00 0.00 0.00 14,700.0 90.11 178.76 10.909.4 -3.720.2 70.7 3,720.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10.909.4 -3.920.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10.909.4 -3.920.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10.908.9 -4.020.1 77.2 4,020.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10.908.9 -4.020.1 77.2 4,020.8 0.00 0.00 0.00 0.00 15,100.0 90.11 178.76 10.908.9 -4.020.1 77.2 4,020.8 0.00 0.00 0.00 0.00 15,200.0 90.11 178.76 10.908.9 -4.220.0 81.5 4,220.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10.908.3 -4.220.0 81.5 4,220.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10.908.3 -4.320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10.908.3 -4.320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10.907.9 -4.520.0 88.0 4,520.8 0.00 0.00 0.00 0.00 0.00 15,600.0 90.11 178.76 10.907.5 -4.719.9 92.3 4,720.8 0.00 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10.907.1 -4.919.9 96.6 4,920.8 0.00 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10.907.1 -4.919.9 96.6 4,920.8 0.00 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10.907.0 -4.971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10.907.0 -4.971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10.906.9 -5.041.8 99.3 5,042	13,600.0	90.11	178.76	10,911.4	-2,720.4	49.0	2,720.8		0.00	
13,800.0 90.11 178.76 10,910.8 -3,020.3 55.5 3,020.8 0.00 0.00 0.00 0.00 13,900.0 90.11 178.76 10,910.8 -3,020.3 55.5 3,020.8 0.00 0.00 0.00 0.00 14,000.0 90.11 178.76 10,910.6 -3,120.3 57.7 3,120.8 0.00 0.00 0.00 0.00 14,100.0 90.11 178.76 10,910.4 -3,220.3 59.9 3,220.8 0.00 0.00 0.00 0.00 14,200.0 90.11 178.76 10,910.0 -3,420.2 64.2 3,420.8 0.00 0.00 0.00 0.00 14,400.0 90.11 178.76 10,910.0 -3,420.2 64.2 3,420.8 0.00 0.00 0.00 0.00 14,400.0 90.11 178.76 10,909.8 -3,520.2 66.3 3,520.8 0.00 0.00 0.00 0.00 0.00 14,600.0 90.11 178.76 10,909.4 -3,720.2 70.7 3,720.8 0.00 0.00 0.00 0.00 14,600.0 90.11 178.76 10,909.4 -3,720.2 70.7 3,720.8 0.00 0.00 0.00 0.00 14,700.0 90.11 178.76 10,909.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,900.0 90.11 178.76 10,909.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,900.0 90.11 178.76 10,909.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,900.0 90.11 178.76 10,909.9 -4,020.1 77.2 4,020.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.9 -4,020.1 77.2 4,020.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.5 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 0.00 15,100.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,600.0 90.11 178.76 10,907.7 -4,620.0 88.0 4,520.8 0.00 0.00 0.00 0.00 15,600.0 90.11 178.76 10,907.5 -4,719.9 92.3 4,720.8 0.00 0.00 0.00 0.00 15,600.0 90.11 178.76 10,907.5 -4,719.9 92.3 4,720.8 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10,907.5 -4,719.9 92.3 4,720.8 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10,907.5 -4,719.9 92.3 4,720.8 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10,907.5 -4,719.9 92.3 4,720.8 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10,907.5 -4,719.9 92.3 4,720.8 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10,907.9 -4,520.0 97.8 4,972.8 0.00 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10,907.5 -4,719.9 94.5 4,820.8 0.00 0.00 0.	13,700.0	90.11	178.76	10,911.2	-2,820.4	51.2	2,820.8		0.00	0.00
13,900.0 90.11 178.76 10,910.8 -3,020.3 55.5 3,020.8 0.00 0.00 0.00 14,000.0 90.11 178.76 10,910.6 -3,120.3 57.7 3,120.8 0.00 0.00 0.00 14,200.0 90.11 178.76 10,910.2 -3,320.3 62.0 3,320.8 0.00 0.00 0.00 14,300.0 90.11 178.76 10,910.0 -3,420.2 64.2 3,420.8 0.00 0.00 0.00 14,400.0 90.11 178.76 10,990.8 -3,520.2 66.3 3,520.8 0.00 0.00 0.00 14,500.0 90.11 178.76 10,999.8 -3,520.2 68.5 3,620.8 0.00 0.00 0.00 14,500.0 90.11 178.76 10,999.4 -3,720.2 70.7 3,720.8 0.00 0.00 0.00 14,700.0 90.11 178.76 10,999.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 <td>13,800.0</td> <td>90.11</td> <td>178.76</td> <td>10,911.0</td> <td>-2,920.4</td> <td>53.4</td> <td>2,920.8</td> <td></td> <td>0.00</td> <td></td>	13,800.0	90.11	178.76	10,911.0	-2,920.4	53.4	2,920.8		0.00	
14,100.0 90.11 178.76 10,910.4 -3,220.3 59.9 3,220.8 0.00 0.00 0.00 14,200.0 90.11 178.76 10,910.2 -3,320.3 62.0 3,320.8 0.00 0.00 0.00 0.00 14,300.0 90.11 178.76 10,910.0 -3,420.2 64.2 3,420.8 0.00 0.00 0.00 0.00 14,400.0 90.11 178.76 10,909.8 -3,520.2 66.3 3,520.8 0.00 0.00 0.00 0.00 14,400.0 90.11 178.76 10,909.6 -3,620.2 66.5 3,620.8 0.00 0.00 0.00 0.00 14,600.0 90.11 178.76 10,909.6 -3,620.2 70.7 3,720.8 0.00 0.00 0.00 0.00 14,600.0 90.11 178.76 10,909.4 -3,720.2 70.7 3,720.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.0 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.0 -3,920.1 75.0 3,920.8 0.00 0.00 0.00 0.00 14,900.0 90.11 178.76 10,909.0 -3,920.1 77.2 4,020.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.9 -4,020.1 77.2 4,020.8 0.00 0.00 0.00 0.00 15,100.0 90.11 178.76 10,908.5 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 0.00 15,200.0 90.11 178.76 10,908.5 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 0.00 15,300.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10,908.1 -4,420.0 85.8 4,420.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10,907.9 -4,520.0 88.0 4,520.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.3 -4,620.0 90.1 4,620.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.3 -4,620.0 90.1 4,620.8 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.3 -4,819.9 94.5 4,820.8 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.3 -4,819.9 94.5 4,820.8 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.0 -4,919.9 96.6 4,920.8 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.0 -4,919.9 97.8 4,972.8 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.0 -4,919.9 97.8 4,972.8 0.00 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.0 -4,919.9 97.8 4,972.8 0.00 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.0 -4,919.9 97.8 4,972.8 0.00 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.0 -4,919.9 97.8 4,972.8 0.00 0.00 0.00 0.00 0.00 15,920.0 90.11 178.76 10,906.9 -5,041.8 99.3 5,042.8 0.00 0.	13,900.0	90.11	178.76	10,910.8	-3,020.3	55.5	3,020.8		0.00	0.00
14,100.0 90.11 178.76 10,910.4 -3,220.3 59.9 3,220.8 0.00 0.00 0.00 14,200.0 90.11 178.76 10,910.2 -3,320.3 62.0 3,320.8 0.00 0.00 0.00 0.00 14,300.0 90.11 178.76 10,910.0 -3,420.2 64.2 3,420.8 0.00 0.00 0.00 0.00 14,400.0 90.11 178.76 10,909.8 -3,520.2 66.3 3,520.8 0.00 0.00 0.00 0.00 14,400.0 90.11 178.76 10,909.6 -3,620.2 66.5 3,620.8 0.00 0.00 0.00 0.00 14,600.0 90.11 178.76 10,909.6 -3,620.2 70.7 3,720.8 0.00 0.00 0.00 0.00 14,600.0 90.11 178.76 10,909.4 -3,720.2 70.7 3,720.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.0 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.0 -3,920.1 75.0 3,920.8 0.00 0.00 0.00 0.00 14,900.0 90.11 178.76 10,909.0 -3,920.1 77.2 4,020.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.9 -4,020.1 77.2 4,020.8 0.00 0.00 0.00 0.00 15,100.0 90.11 178.76 10,908.5 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 0.00 15,200.0 90.11 178.76 10,908.5 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 0.00 15,300.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10,908.1 -4,420.0 85.8 4,420.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10,907.9 -4,520.0 88.0 4,520.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.3 -4,620.0 90.1 4,620.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.3 -4,620.0 90.1 4,620.8 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.3 -4,819.9 94.5 4,820.8 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.3 -4,819.9 94.5 4,820.8 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.0 -4,919.9 96.6 4,920.8 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.0 -4,919.9 97.8 4,972.8 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.0 -4,919.9 97.8 4,972.8 0.00 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.0 -4,919.9 97.8 4,972.8 0.00 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.0 -4,919.9 97.8 4,972.8 0.00 0.00 0.00 0.00 0.00 15,850.0 90.11 178.76 10,907.0 -4,919.9 97.8 4,972.8 0.00 0.00 0.00 0.00 0.00 15,920.0 90.11 178.76 10,906.9 -5,041.8 99.3 5,042.8 0.00 0.	14,000.0	90.11	178.76	10,910.6	-3,120.3	57.7	3,120.8	0.00	0.00	0.00
14,200.0 90.11 178.76 10,910.2 -3,320.3 62.0 3,320.8 0.00 0.00 0.00 14,300.0 90.11 178.76 10,910.0 -3,420.2 64.2 3,420.8 0.00 0.00 0.00 0.00 14,400.0 90.11 178.76 10,909.8 -3,520.2 66.3 3,520.8 0.00 0.00 0.00 0.00 14,400.0 90.11 178.76 10,909.6 -3,620.2 68.5 3,620.8 0.00 0.00 0.00 0.00 14,500.0 90.11 178.76 10,909.4 -3,720.2 70.7 3,720.8 0.00 0.00 0.00 0.00 14,700.0 90.11 178.76 10,909.4 -3,720.2 70.7 3,720.8 0.00 0.00 0.00 0.00 14,700.0 90.11 178.76 10,909.0 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.0 -3,920.1 75.0 3,920.8 0.00 0.00 0.00 0.00 14,900.0 90.11 178.76 10,908.9 -4,020.1 77.2 4,020.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.7 -4,120.1 79.3 4,120.8 0.00 0.00 0.00 0.00 15,200.0 90.11 178.76 10,908.5 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 0.00 15,300.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 0.00 15,300.0 90.11 178.76 10,908.1 -4,420.0 85.8 4,420.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10,907.9 -4,520.0 88.0 4,520.8 0.00 0.00 0.00 0.00 15,600.0 90.11 178.76 10,907.9 -4,520.0 88.0 4,520.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.7 -4,620.0 90.1 4,620.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.7 -4,620.0 90.1 4,620.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.7 -4,620.0 90.1 4,620.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.7 -4,620.0 90.1 4,620.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.7 -4,620.0 90.1 4,620.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.1 -4,919.9 96.6 4,920.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.1 -4,919.9 96.6 4,920.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.1 -4,919.9 96.6 4,920.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.1 -4,919.9 96.6 4,920.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.0 -4,971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.1 -4,919.9 96.6 4,920.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.0 -4,971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.0 -4,971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 0.	14,100.0	90.11		10,910.4	-3,220.3	59.9	3,220.8			
14,400.0 90.11 178.76 10,909.8 -3,520.2 66.3 3,520.8 0.00 0.00 0.00 14,500.0 90.11 178.76 10,909.6 -3,620.2 68.5 3,620.8 0.00 0.00 0.00 14,600.0 90.11 178.76 10,909.4 -3,720.2 70.7 3,720.8 0.00 0.00 0.00 14,700.0 90.11 178.76 10,909.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.0 -3,920.1 75.0 3,920.8 0.00 0.00 0.00 14,900.0 90.11 178.76 10,908.9 -4,020.1 77.2 4,020.8 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.7 -4,120.1 79.3 4,120.8 0.00 0.00 0.00 15,200.0 90.11 178.76 10,908.5 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 15,300.0 90.11 178.76 10,908.3 -4,320.0 83.7		90.11	178.76			62.0				
14,500.0 90.11 178.76 10,909.6 -3,620.2 68.5 3,620.8 0.00 0.00 0.00 0.00 14,600.0 90.11 178.76 10,909.4 -3,720.2 70.7 3,720.8 0.00 0.00 0.00 0.00 14,700.0 90.11 178.76 10,909.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.0 -3,920.1 75.0 3,920.8 0.00 0.00 0.00 0.00 14,900.0 90.11 178.76 10,908.9 -4,020.1 77.2 4,020.8 0.00 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.7 -4,120.1 79.3 4,120.8 0.00 0.00 0.00 0.00 15,100.0 90.11 178.76 10,908.5 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 0.00 15,200.0 90.11 178.76 10,908.5 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 0.00 15,200.0 90.11 178.76 10,908.1 -4,420.0 85.8 4,420.8 0.00 0.00 0.00 0.00 15,400.0 90.11 178.76 10,907.9 -4,520.0 88.0 4,520.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.9 -4,520.0 88.0 4,520.8 0.00 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.5 -4,719.9 92.3 4,720.8 0.00 0.00 0.00 0.00 15,700.0 90.11 178.76 10,907.5 -4,719.9 92.3 4,720.8 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10,907.3 -4,819.9 94.5 4,820.8 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10,907.3 -4,819.9 94.5 4,820.8 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10,907.1 -4,919.9 96.6 4,920.8 0.00 0.00 0.00 0.00 15,852.0 90.11 178.76 10,907.0 -4,971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 15,852.0 90.11 178.76 10,907.0 -4,971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 15,852.0 90.11 178.76 10,907.0 -4,971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10,907.0 -4,971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 15,852.0 90.11 178.76 10,907.0 -4,971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 15,800.0 90.11 178.76 10,907.0 -4,971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 15,802.0 90.11 178.76 10,907.0 -4,971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 15,802.0 90.11 178.76 10,907.0 -4,971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 15,802.0 90.11 178.76 10,907.0 -4,971.9 97.8 4,972.8 0.00 0.00 0.00 0.00 15,802.0 90.11 178.76 10,907.0 -5,019.9 97.8 4,972.8 0.00 0.00 0.00 0.00 0.00 15,802.0 90.11 178.76 10,906.9 -5,041.8 99.3 5,042.8 0.00 0.00 0.00 0.00 0.00	14,300.0	90.11		10,910.0	-3,420.2	64.2				
14,600.0 90.11 178.76 10,909.4 -3,720.2 70.7 3,720.8 0.00 0.00 0.00 14,700.0 90.11 178.76 10,909.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.0 -3,920.1 75.0 3,920.8 0.00 0.00 0.00 14,900.0 90.11 178.76 10,908.9 -4,020.1 77.2 4,020.8 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.7 -4,120.1 79.3 4,120.8 0.00 0.00 0.00 15,100.0 90.11 178.76 10,908.5 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 15,200.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 15,200.0 90.11 178.76 10,908.1 -4,420.0 85.8 4,420.8 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.7 -4,620.0 90.1	14,400.0	90.11	178.76	10,909.8	-3,520.2	66.3	3,520.8	0.00	0.00	0.00
14,600.0 90.11 178.76 10,909.4 -3,720.2 70.7 3,720.8 0.00 0.00 0.00 14,700.0 90.11 178.76 10,909.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.0 -3,920.1 75.0 3,920.8 0.00 0.00 0.00 14,900.0 90.11 178.76 10,908.9 -4,020.1 77.2 4,020.8 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.7 -4,120.1 79.3 4,120.8 0.00 0.00 0.00 15,100.0 90.11 178.76 10,908.5 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 15,200.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 15,200.0 90.11 178.76 10,908.1 -4,420.0 85.8 4,420.8 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.7 -4,620.0 90.1	14,500.0	90.11	178.76	10,909.6	-3,620.2	68.5	3,620.8	0.00	0.00	0.00
14,700.0 90.11 178.76 10,909.2 -3,820.1 72.8 3,820.8 0.00 0.00 0.00 14,800.0 90.11 178.76 10,909.0 -3,920.1 75.0 3,920.8 0.00 0.00 0.00 14,900.0 90.11 178.76 10,908.9 -4,020.1 77.2 4,020.8 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.7 -4,120.1 79.3 4,120.8 0.00 0.00 0.00 15,100.0 90.11 178.76 10,908.5 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 15,200.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 15,300.0 90.11 178.76 10,908.3 -4,220.0 85.8 4,420.8 0.00 0.00 0.00 15,400.0 90.11 178.76 10,907.9 -4,520.0 88.0 4,520.8 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.9 -4,620.0 90.1	14,600.0	90.11	178.76	10,909.4		70.7			0.00	
14,800.0 90.11 178.76 10,909.0 -3,920.1 75.0 3,920.8 0.00 0.00 0.00 14,900.0 90.11 178.76 10,908.9 -4,020.1 77.2 4,020.8 0.00 0.00 0.00 15,000.0 90.11 178.76 10,908.7 -4,120.1 79.3 4,120.8 0.00 0.00 0.00 15,100.0 90.11 178.76 10,908.5 -4,220.0 81.5 4,220.8 0.00 0.00 0.00 15,200.0 90.11 178.76 10,908.3 -4,320.0 83.7 4,320.8 0.00 0.00 0.00 15,300.0 90.11 178.76 10,908.1 -4,420.0 85.8 4,420.8 0.00 0.00 0.00 15,400.0 90.11 178.76 10,907.9 -4,520.0 88.0 4,520.8 0.00 0.00 0.00 15,500.0 90.11 178.76 10,907.7 -4,620.0 90.1 4,620.8 0.00 0.00 0.00 15,600.0 90.11 178.76 10,907.3 -4,819.9 94.5		90.11	178.76	10,909.2		72.8				
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ID at 15922.0			1/8./6	10,906.9	-5,041.8	99.3	5,042.8	0.00	0.00	0.00
	ID at 15922	2.0								

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_C33.241H - plan hits target cent - Point	0.00 ter	0.00	10,906.9	-5,041.8	99.3	456,342.20	645,300.26	32° 15′ 14.805 N	103° 59' 49.296 W
LTP_C33.241H - plan hits target cent - Point	0.00 ter	0.00	10,907.0	-4,971.9	97.8	456,412.19	645,298.74	32° 15′ 15.497 N	103° 59' 49.311 W
FTP_C33.241H - plan misses target of Point	0.00 center by 180	0.00 .4usft at 108	10,916.0 49.4usft MD	119.5 (10782.6 TVD	-12.7), -1.9 N, -9.8 I	461,503.58 ≣)	645,188.30	32° 16' 5.884 N	103° 59' 50.412 W

ations	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	350.0	350.0	Rustler Anhydrite	e.egy	()		
	645.0	645.0	Top Salt				
	2,695.0	2,695.0	Base Salt				
	2,935.3	2,935.0	Delaware Mountain Gp				
	2,950.4	2,950.0	Lamar				
	2,960.4	2,960.0	Bell Canyon				
	2,975.4	2,975.0	Ramsey Sand				
	3,851.6	3,850.0	Cherry Canyon				
	5,033.2	5,030.0	Brushy Canyon				
	6,645.3	6,640.0	Bone Spring Lime				
	6,705.3	6,700.0	Upper Avalon				
	7,080.3	7,075.0	Middle Avalon				
	7,465.3	7,460.0	Lower Avalon				
	7,670.3	7,665.0	1st Bone Spring Sand				
	7,945.3	7,940.0	2nd Bone Spring Carb				
	8,265.3	8,260.0	2nd Bone Spring Sand				
	8,790.3	8,785.0	3rd Bone Spring Carb				
	9,605.3	9,600.0	3rd Bone Spring Sand				
	9,875.3	9,870.0	3rd BS W Sand				
	9,930.3	9,925.0	Wolfcamp A X Sand				
	10,040.3	10,035.0	Wolfcamp A Y Sand				
	10,150.3	10,145.0	Wolfcamp A Lower				
	10,275.3	10,270.0	Wolfcamp B				
	10,609.2	10,595.0	Wolfcamp B1				
	10,885.7	10,805.0	Wolfcamp C				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coord +N/-S (usft)	dinates +E/-W (usft)	Comment
2,550.0	2,550.0	0.0	0.0	Start Build 1.50
2,750.0	2,749.9	5.2	-0.4	Start 3700.0 hold at 2750.0 MD
6,450.0	6,444.8	198.4	-13.9	Start Drop -1.50
6,650.0	6,644.7	203.6	-14.2	Start 3698.3 hold at 6650.0 MD
10,348.3	10,343.0	203.6	-14.2	Start DLS 10.00 TFO 178.76
11,249.4	10,916.0	-370.3	-1.8	Start 4602.6 hold at 11249.4 MD
15,852.0	10,907.0	-4,971.9	97.8	Start 70.0 hold at 15852.0 MD
15,922.0	10,906.9	-5,041.8	99.3	TD at 15922.0

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Tap Rock Operating LLC
WELL NAME & NO.: Cypress 33. Federal 241H
LOCATION: Section 34, T.23 S., R.29 E., NMP
COUNTY: Eddy County, New Mexico

COA

H2S	© Yes	⊙ No	
Potash	O None	Secretary	○ R-111-P
Cave/Karst Potential	○ Low	• Medium	○ High
Cave/Karst Potential	Critical		
Variance	O None	Flex Hose	Other Other
Wellhead	Conventional	© Multibowl	Both
Other	✓ 4 String Area	☐ Capitan Reef	□WIPP
Other	Fluid Filled	☐ Cement Squeeze	□ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	□ Unit

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 350 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 **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

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Approval Date: 11/16/2020

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

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - ❖ In Medium 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.
 - ❖ In <u>Secretary Potash Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement should tie-back at least 500 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.
- 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.

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- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. 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)

Well Logs

Ensure GR and CNL logs or comparable logs are run to surface for future development. One per well pad with no more than 250' distance.

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 CountyCall 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.

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

A. CASING

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

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- 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.

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- 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.

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- 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 Windsocks and / Wind Streamers:

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

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
 - o 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:

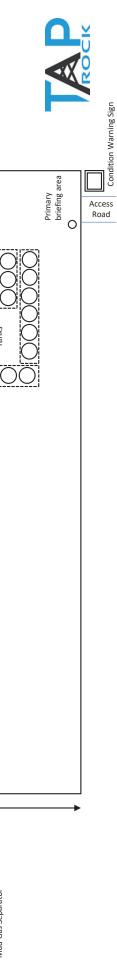
• No DST cores are planned at this time

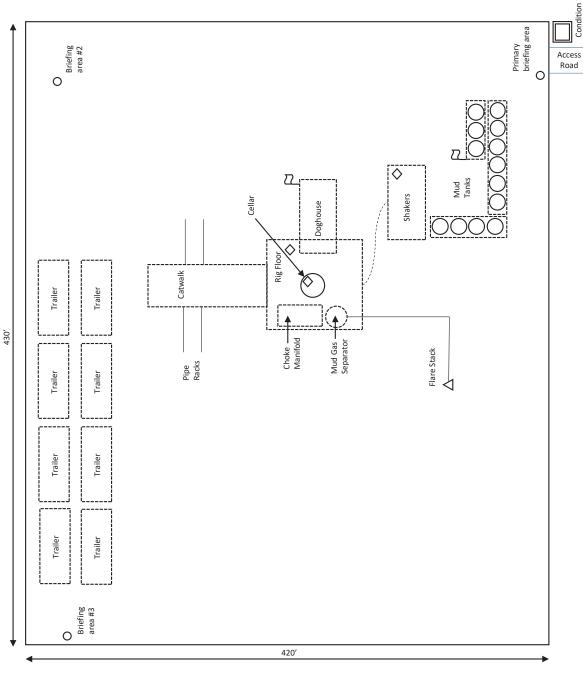
8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

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 Conta	acts	
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	





Tap Rock Operating, LLC H2S Diagram Cypress 33 W2W2 Pad Eddy County, NM 33-23S-29E

Mud Gas Separator Wind Indicator **Briefing Area** Current Well H2S Monitor Flare Stack **∠**← 0 ◁ \Diamond

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

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 12375

COMMENTS

Operator:	00	GRID:	Action Number:	Action Type:
TAP ROCK OPERATING, LLC 523	Park Point Drive	372043	12375	FORM 3160-3
Suite 200 Golden, CO80401				

Created By	Comment	Comment Date
kpickford	KP GEO Review 12/18/2020	12/18/2020

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CONDITIONS

Action 12375

CONDITIONS OF APPROVAL

Operator:		OGRID:	Action Number:	Action Type:
TAP ROCK OPERATING, LLC 5	523 Park Point Drive	372043	12375	FORM 3160-3
Suite 200 Golden, CO80401				

OCD	Condition
Reviewer	
kpickford	Will require a directional survey with the C-104
kpickford	Will require a administrative order for non-standard location prior to placing the well on production
	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
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