Form 3160-3 (June 2015)	_				APPROVE 0. 1004-012 nuary 31, 2	37
UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA	NTERIOR	- -		5. Lease Serial No. NMNM038636		
APPLICATION FOR PERMIT TO D	RILL OR	REENTER		6. If Indian, Allotee	or Tribe N	ame
1a. Type of work: 🖌 DRILL 🗌 RI	EENTER			7. If Unit or CA Agr	eement, N	ame and No.
	ther	_		8. Lease Name and V	Well No.	
1c. Type of Completion: Hydraulic Fracturing ✓ Sin	ngle Zone	Multiple Zone		WTG FED COM		
				233H		
2. Name of Operator TAP ROCK OPERATING LLC				9. API Well No.		
3a. Address 602 Park Point Drive Suite 200, Golden, CO 80401	3b. Phone N (720) 460-3	o. <i>(include area code</i> 316	e)	10. Field and Pool, of PURPLE SAGE W	-	-
4. Location of Well (Report location clearly and in accordance w	-	1 /		11. Sec., T. R. M. or SEC 27/T26S/R29		Survey or Area
At surface NWNE / 376 FNL / 1984 FEL / LAT 32.0192 At proposed prod. zone LOT 11 / 30 FSL / 2010 FEL / LA			04375	SEC 27/1203/1291		
14. Distance in miles and direction from nearest town or post offi 15 miles			04070	12. County or Parish EDDY		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 ac 441.5	res in lease	ing Unit dedicated to this well			
 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 25 feet 	· · · · · · · · · · · · · · · · · · ·			/BIA Bond No. in file 1B001443		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2885 feet	22. Approxi 12/01/2020	mate date work will	start*	23. Estimated duration 90 days	on	
	24. Attac	hments				
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil	and Gas Order No. 1	, and the H	Iydraulic Fracturing ru	ule per 43	CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover th Item 20 above).		as unless covered by an	existing b	ond on file (see
3. A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office	· · · ·	 Operator certific Such other site sp BLM. 		rmation and/or plans as	may be rec	quested by the
25. Signature (Electronic Submission)		<i>(Printed/Typed)</i> NWOOD / Ph: (72	0) 460-33	16	Date 05/12/20	20
Title President						
Approved by (Signature) (Electronic Submission)		<i>(Printed/Typed)</i> Layton / Ph: (575)	234-5959		Date 09/15/20	20
Title Assistant Field Manager Lands & Minerals	Office Carlsb	ad Field Office				
Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds legal o	or equitable title to th	nose rights	in the subject lease wh	hich would	l entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of					ny departr	nent or agency



.

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

Phone: (575) 748-1283 Fax: (575) 748-9720

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

811 S. First St., Artesia, NM 88210

District I

District II

District III

District IV

Page 2 of 36

FORM C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT ¹API Number ²Pool Code ³Pool Name 30-015 98220 PURPLE SAGE; WOLFCAMP ⁴Property Code ⁵Property Name Well Number WTG FED COM 233H ⁸Operator Name ⁷OGRID No. ⁹Elevation TAP ROCK OPERATING, LLC. #372043 2885 ¹⁰Surface Location UL or lot no. Feet from the North/South line Feet from the East/West line County Section Township Range Lot Idn 29-E 376' NORTH 1984' 27 26-S EAST EDDY B ¹¹Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County Range 2010' 30' 11 3426-S 29-E SOUTH EAST EDDY ¹²Dedicated Acres ³Joint or Infill ⁴Consolidation Code ⁵Order No. 441.71

State of New Mexico

Energy, Minerals & Natural Resources

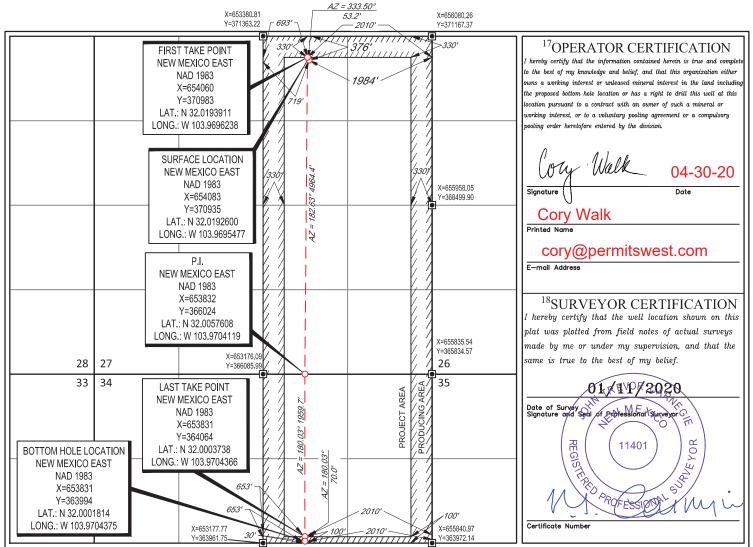
Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

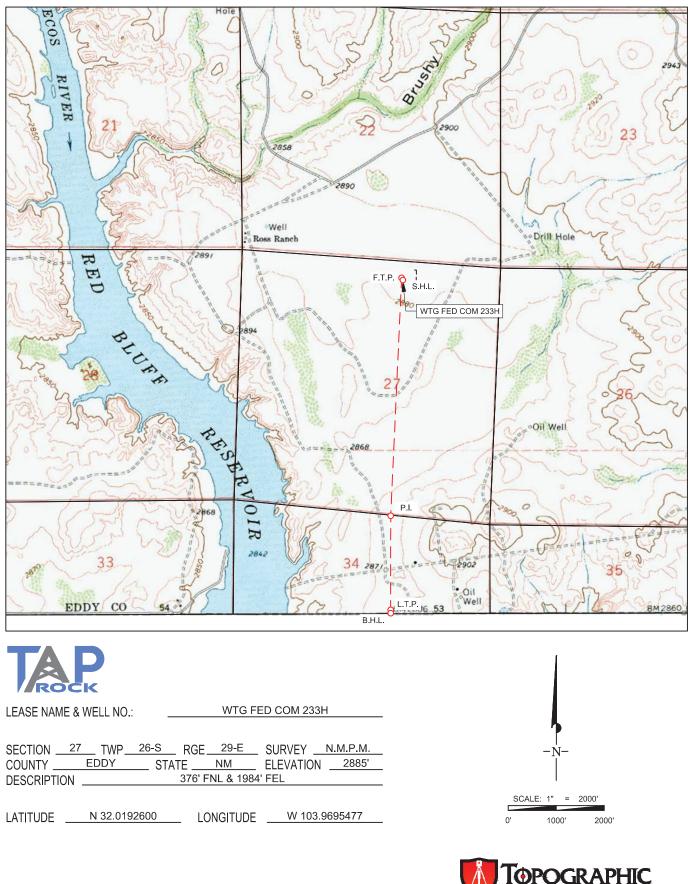
Santa Fe, NM 87505

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.



S:\SURVEY\TAPROCK\WELCOME_TO_GOLDEN_UNIT\FINAL_PRODUCTS\LO_WTG_FED COM_233H.DWG 1/14/2020 10:11:04 AM rcla

LOCATION & ELEVATION VERIFICATION MAP



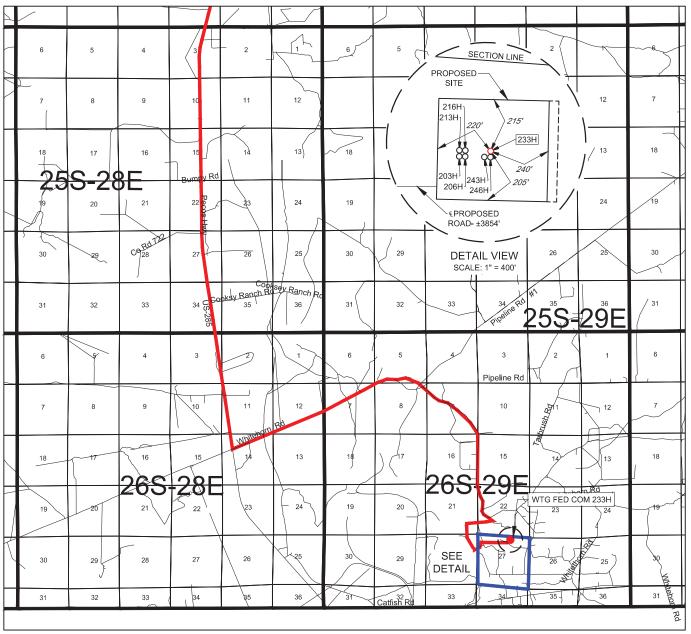
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF 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, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET.

LOYALTY

INNOVATION

1400 EVERMAN PARRWAY, Ste. 146 • FT. WORTH, TEXAS 76140 <u>TELEPHONE:</u> (817) 744-7512 • FAX (817) 744-7554 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705 TELEPHONE: (432) 682-1653 OR (800) 767-1655 • FAX (432) 682-1743 WWW.TOPOGRAPHIC.COM





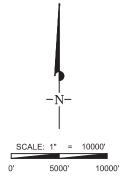
LEASE NAME &	WELL NO .:		WTG FED COM 233H					
SECTION 27	TWP26-S	RGE	29-E	SURVEY N.M.P.M.				
COUNTY	EDDY		STATE	NM				
DESCRIPTION		STATE NM 376' FNL & 1984' FEL						

DISTANCE & DIRECTION

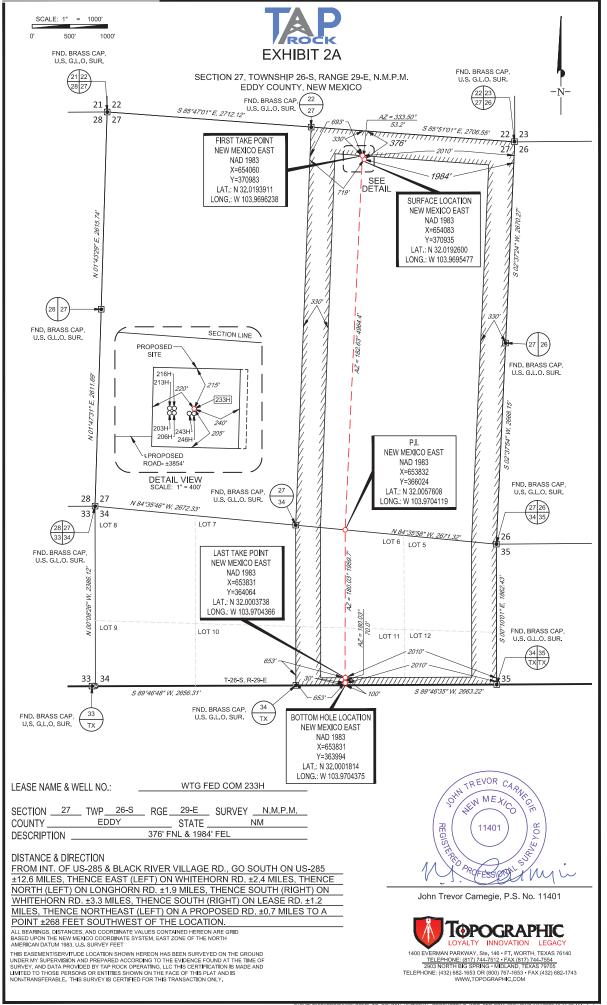
FROM INT. OF US-285 & BLACK RIVER VILLAGE RD., GO SOUTH ON US-285 ±12.6 MILES, THENCE EAST (LEFT) ON WHITEHORN RD. ±2.4 MILES, THENCE NORTH (LEFT) ON LONGHORN RD. ±1.9 MILES, THENCE SOUTH (RIGHT) ON WHITEHORN RD. ±3.3 MILES, THENCE SOUTH (RIGHT) ON LEASE RD. ±1.2 MILES, THENCE NORTHEAST (LEFT) ON A PROPOSED RD. ±0.7 MILES TO A POINT ±268 FEET SOUTHWEST OF THE LOCATION.

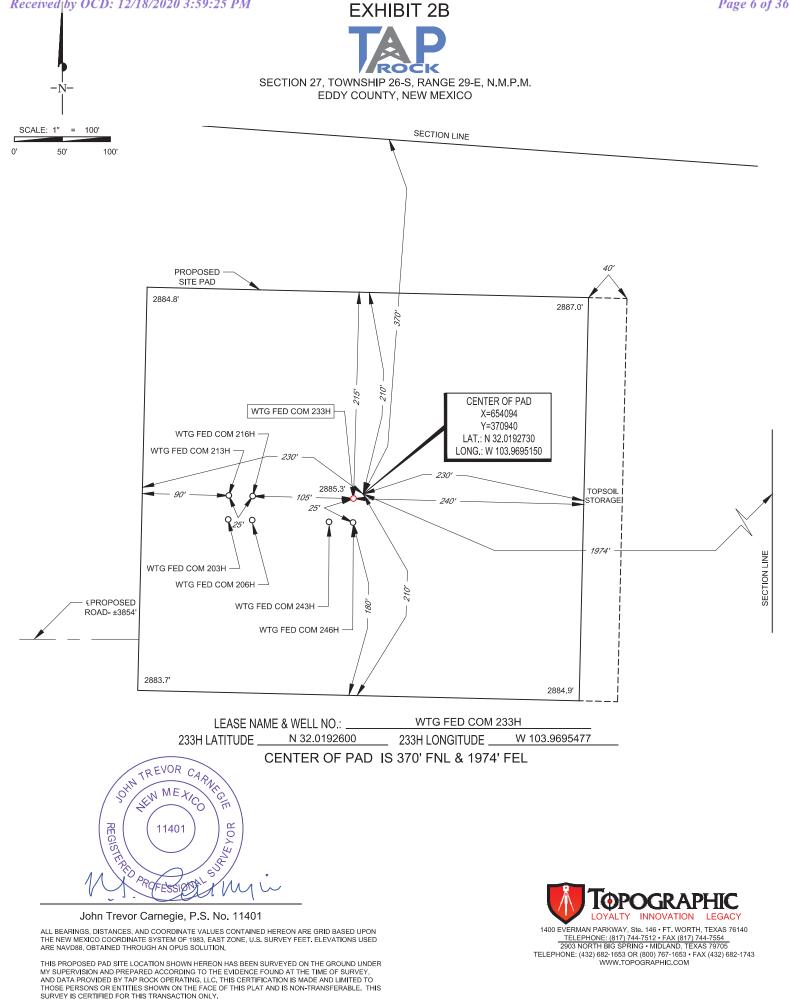
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF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

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









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

GAS CAPTURE PLAN

Date: 4/1/20

 \boxtimes 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 N	ame		API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
WTG 233H	Fed	Com		UL B Sec 27 T26S R29E	376' FNL 1984' FEL	+/- 3,750	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 Salt Creek Midstream and will be connected to Salt Creek Midstream low/high pressure gathering system located in Eddy County, New Mexico. It will require ~5000' of pipeline to connect the facility to low/high pressure gathering system. Tap Rock Operating, LLC provides (periodically) to Gas Transporter 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 Salt Creek Midstream have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Salt Creek Midstream Processing Plant located in Pecos, 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
- Compressed Natural Gas On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines

Received by OCD: 12/18/2020 3:59:25 PM • NGL Removal – On lease

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• Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

•

Elevation above Sea Level: 2885'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler Anhydrite	705	705		Salt
Salado	1205	1205	Salt	Salt
Base Salt	2750	2755		Salt
Lamar	2930	2936	Limestone	None
Bell Canyon	2995	3001	Sandstone	Hydrocarbons
Cherry Canyon	3895	3905	Sandstone	Hydrocarbons
Brushy Canyon	5105	5119	Sandstone	Hydrocarbons
Bone Spring	6715	6730	Limestone	Hydrocarbons
1st Bone Spring	7625	7640	Sandstone	Hydrocarbons
2nd Bone Spring	7895	7910	Sandstone	Hydrocarbons
3rd Bone Spring	8875	8890	Sandstone	Hydrocarbons
КОР	10357	10372	Shale	Hydrocarbons
Wolfcamp	9825	9840	Shale	Hydrocarbons
TD	10879	18006	Shale	Hydrocarbons

2. Notable Zones

Wolfcamp 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.

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

4. Casing & Cement

All Casing will be new.

Name	Hole Size	Casing Size	Standard	Tapered	Top MD	Bottom MD	Top TVD	Btm TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	13 3/8	API	No	0	775	0	775	J-55	54.5	BUTT	1.13	1.15	1.6
1st Intermediate	12 1/4	9 5/8	API	No	0	2986	0	2980	J-55	40	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	API	No	0	2686	0	2680	P-110	29.7	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	NON API	Yes	2686	10272	2680	10257	P-110	29.7	W-513	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	No	0	10072	0	10057	P-110	20	ТХР	1.13	1.15	1.6
Production	6 3/4	5	NON API	Yes	10072	18006	10057	10879	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	797	1.35	1077	14.8	100%	С	5% NCI + LCM
1st Intermediate	Lead	0	566	2.18	1234	12.7	65%	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
1st intermediate	Tail	2389	232	1.33	309	14.8	65%	С	5% NaCl + LCM
2nd Intermediate	Lead	2686	402	2.22	893	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM
	Tail	9272	99	1.37	136	13.2	35%	Н	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	9572	993	1.19	1182	15.8	25%	Н	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Name	Тор	Bottom	Туре	Mud Weight	Visc	Fluid Loss
Surface	0	775	FW Spud Mud	8.30	28	NC
Intermediate	775	2986	Brine Water	10.00	30-32	NC
Intermediate 2	2986	10272	FW/Cut Brine	9.00	30-32	NC
Production	10272	18006	Oil Base Mud	11.50	15-20	<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 6,536 psi. Expected bottom hole temperature is \approx 170° F.

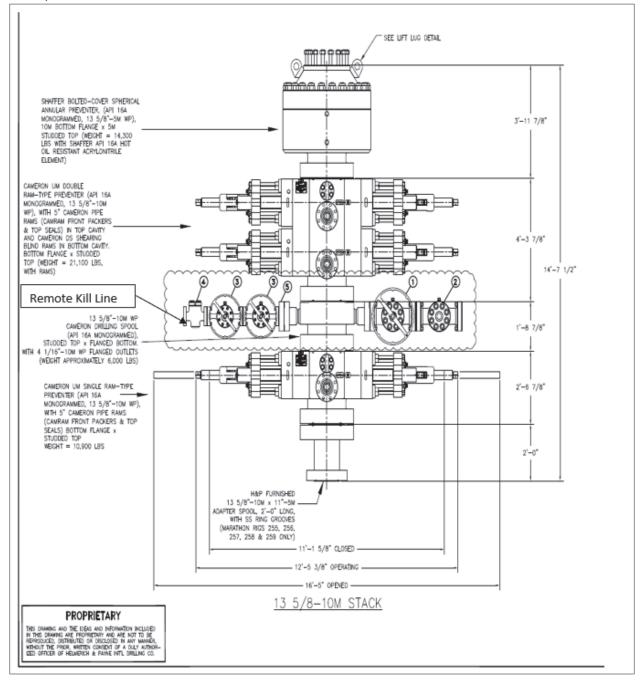
Tap Rock does not anticipate that there will be enough H2S from the surface to the Wolfcamp formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H2S safety package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

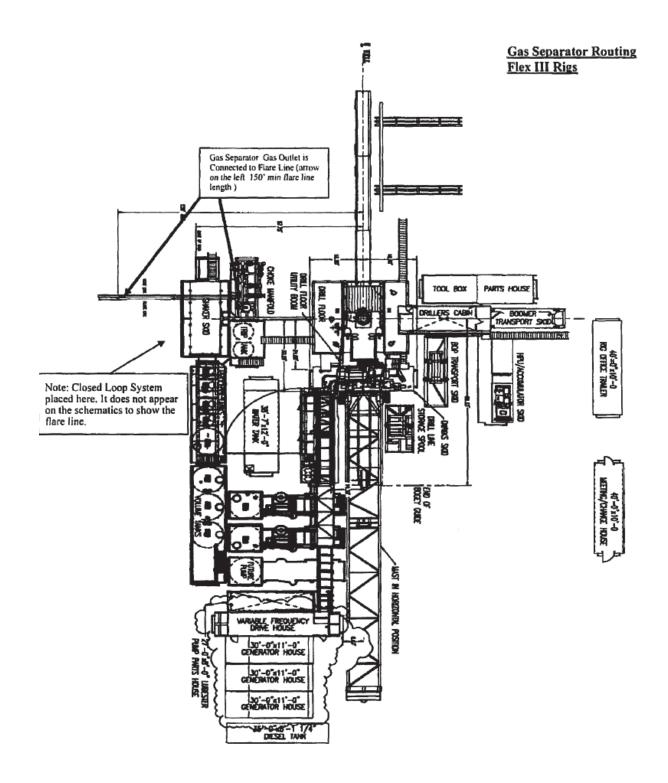
Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.



5,000 psi BOP Stack

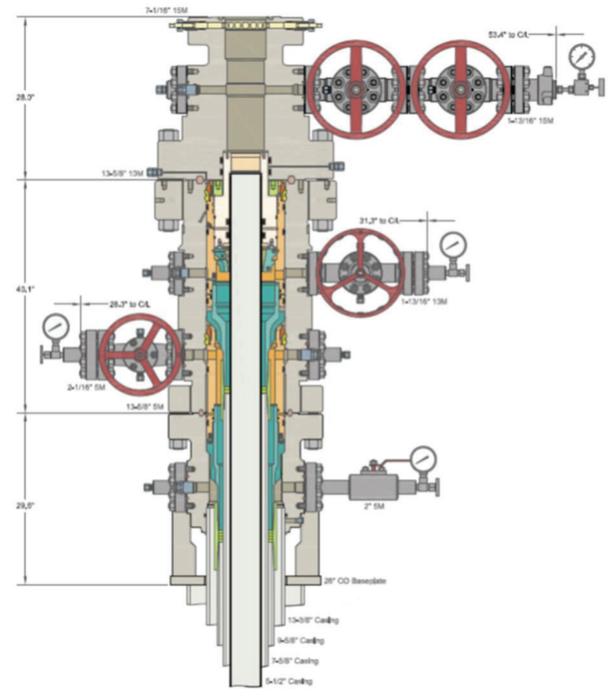




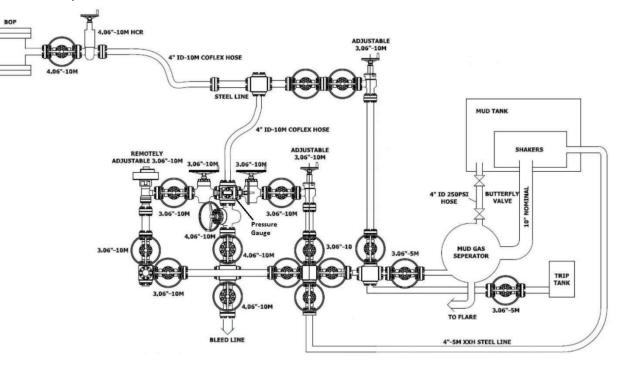




Multi-bowl Wellhead



10M Choke Layout



Tap Rock Operating, LLC.

Eddy County, NM (NAD83) WTG Fed Com 233H

OH

Plan: Plan #1

Standard Planning Report

31 March, 2020

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Project	Eddy County	, NM (NAD83)						1 uge 10
Map System: Geo Datum: Map Zone:	US State Plane North Americar New Mexico Ea	e 1983 n Datum 1983	System Datum:		:		Mean Sea Level	
Site	WTG Fed Co	m						
Site Position: From: Position Uncertainty:	Lat/Long	2.0 usft	Northing: Easting: Slot Radius:	653,952	3.55 usft 2.90 usft 3-3/16 "	Latitude: Longitud Grid Con		32° 1' 9.123 N 103° 58' 11.889 W 0.19 °
Well	233H							
Well Position Position Uncertainty	+N/-S +E/-W	21.9 usft 130.6 usft 2.0 usft	Northing: Easting: Wellhead Ele		370,935.4 354,083.4		Latitude: Longitude: Ground Level:	32° 1' 9.336 N 103° 58' 10.372 W 2,885.0 usft
Wellbore	ОН							
Magnetics	Model Na	ame	Sample Date	Declination (°)	ı	I	Dip Angle (°)	Field Strength (nT)
	IG	RF2015	3/30/2020		6.82		59.78	47,493.21001493
Design	Plan #1							
Audit Notes:								
Version:			Phase:	PLAN	Ti	e On Depth	1:	0.0
Vertical Section:			rom (TVD) Isft)	+N/-S (usft)		E/-W usft)		ction (°)
).0	0.0		0.0		0.03
Plan Survey Tool Pro	ogram	Date 3/31/2	2020					
Depth From (usft)	Depth To (usft)	Survey (Wellbo		Tool Name		Remar	ks	
1 0.0	18,006.6	Plan #1 (OH)		MWD MWD - Standard				

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
• •	()	()	. ,	. ,	()	. ,	. ,	. ,	()	Ū.
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,333.3	5.00	358.50	1,332.9	14.5	-0.4	1.50	1.50	0.00	358.50	
5,133.3	5.00	358.50	5,118.5	345.6	-9.1	0.00	0.00	0.00	0.00	
5,466.7	0.00	0.00	5,451.4	360.1	-9.4	1.50	-1.50	0.00	180.00	
10,372.4	0.00	0.00	10,357.1	360.1	-9.4	0.00	0.00	0.00	0.00	
11,276.7	90.43	182.63	10,930.0	-216.5	-35.9	10.00	10.00	-19.61	182.63	
15,976.8	90.43	182.63	10,894.8	-4,911.5	-251.3	0.00	0.00	0.00	0.00	27/34 Sect Cross_23
16,111.2	90.43	179.94	10,893.8	-5,045.9	-254.4	2.00	0.00	-2.00	-89.92	
17,936.6	90.43	179.94	10,880.0	-6,871.2	-252.4	0.00	0.00	0.00	0.00	LTP_WTG.233H
18,006.6	90.43	179.94	10,879.5	-6,941.2	-252.4	0.00	0.00	0.00	0.00	PBHL WTG.233H

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
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
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
705.0	0.00	0.00	705.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler Anhy									
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1	.50								
1,100.0	1.50	358.50	1,100.0	1.3	0.0	-1.3	1.50	1.50	0.00
1,200.0	3.00	358.50	1,199.9	5.2	-0.1	-5.2	1.50	1.50	0.00
1,205.1	3.08	358.50	1,205.0	5.5	-0.1	-5.5	1.50	1.50	0.00
Top Salt	0.00	200.00	.,20010	0.0	0.1	0.0			0.00
TOP Sait									
1,300.0	4.50	358.50	1,299.7	11.8	-0.3	-11.8	1.50	1.50	0.00
1,333.3	5.00	358.50	1,332.9	14.5	-0.4	-14.5	1.50	1.50	0.00
Start 3800.0	hold at 1333.3 N	1D							
1.400.0	5.00	358.50	1,399.3	20.3	-0.5	-20.3	0.00	0.00	0.00
1,500.0	5.00	358.50	1,498.9	20.0	-0.8	-29.1	0.00	0.00	0.00
1,600.0	5.00	358.50	1,598.6	37.8	-1.0	-37.8	0.00	0.00	0.00
1,700.0	5.00	358.50	1,698.2	46.5	-1.2	-46.5	0.00	0.00	0.00
1,800.0	5.00	358.50	1,797.8	55.2	-1.4	-55.2	0.00	0.00	0.00
1,900.0	5.00	358.50	1,897.4	63.9	-1.7	-63.9	0.00	0.00	0.00
2,000.0	5.00	358.50	1,997.0	72.6	-1.9	-72.6	0.00	0.00	0.00
2,100.0	5.00	358.50	2,096.7	81.3	-2.1	-81.3	0.00	0.00	0.00
2,200.0	5.00	358.50	2,196.3	90.0	-2.4	-90.0	0.00	0.00	0.00
2,200.0	5.00	358.50	2,196.3	90.0 98.8	-2.4	-90.0 -98.8	0.00	0.00	0.00
			,						
2,400.0	5.00	358.50	2,395.5	107.5	-2.8	-107.5	0.00	0.00	0.00
2,500.0	5.00	358.50	2,495.1	116.2	-3.0	-116.2	0.00	0.00	0.00
2,600.0	5.00	358.50	2,594.8	124.9	-3.3	-124.9	0.00	0.00	0.00
2,700.0	5.00	358.50	2,694.4	133.6	-3.5	-133.6	0.00	0.00	0.00
2,755.8	5.00	358.50	2,750.0	138.5	-3.6	-138.5	0.00	0.00	0.00
Base Salt									
2,800.0	5.00	358.50	2,794.0	142.3	-3.7	-142.3	0.00	0.00	0.00
2,900.0	5.00	358.50	2,893.6	151.0	-4.0	-151.0	0.00	0.00	0.00
2,936.5	5.00	358.50	2,930.0	154.2	-4.0	-154.2	0.00	0.00	0.00
	5.00	556.50	2,930.0	104.2	-4.0	-104.2	0.00	0.00	0.00
Lamar									
2,961.6	5.00	358.50	2,955.0	156.4	-4.1	-156.4	0.00	0.00	0.00
Delaware Mo	untain Gp								
3,000.0	5.00	358.50	2,993.2	159.7	-4.2	-159.7	0.00	0.00	0.00
3,001.8	5.00	358.50	2,995.0	159.9	-4.2	-159.9	0.00	0.00	0.00
	0.00	000.00	2,000.0				5.00	5.00	0.00
Bell Canyon	5.00	250 50	2 040 0	404.0	4.0	404.0	0.00	0.00	0.00
3,016.8	5.00	358.50	3,010.0	161.2	-4.2	-161.2	0.00	0.00	0.00
Ramsey San									
3,100.0	5.00	358.50	3,092.9	168.5	-4.4	-168.5	0.00	0.00	0.00
3,200.0	5.00	358.50	3,192.5	177.2	-4.6	-177.2	0.00	0.00	0.00
3,300.0	5.00	358.50	3,192.5	185.9	-4.0	-177.2	0.00	0.00	0.00
3,400.0	5.00	358.50	3,391.7	194.6	-4.9	-194.6	0.00	0.00	0.00
3,500.0	5.00	358.50	3,491.3	203.3	-5.3	-203.3	0.00	0.00	0.00
3,600.0	5.00	358.50	3,591.0	203.3	-5.6	-203.3	0.00	0.00	0.00
5,000.0	5.00	556.50	5,591.0		-0.0	-212.0		0.00	
3,700.0	5.00	358.50	3,690.6	220.7	-5.8	-220.7	0.00	0.00	0.00
3,800.0	5.00	358.50	3,790.2	229.4	-6.0	-229.4	0.00	0.00	0.00
3,900.0	5.00	358.50	3,889.8	238.2	-6.2	-238.1	0.00	0.00	0.00
3,905.2	5.00	358.50	3,895.0	238.6	-6.2	-238.6	0.00	0.00	0.00
Cherry Cany			,						
4,000.0	5.00	358.50	3,989.4	246.9	-6.5	-246.9	0.00	0.00	0.00
4,000.0	5.00	300.00	3,909.4	240.9	-0.0-	-240.9	0.00	0.00	0.00
4,100.0	5.00	358.50	4,089.0	255.6	-6.7	-255.6	0.00	0.00	0.00
4,200.0	5.00	358.50	4,188.7	264.3	-6.9	-264.3	0.00	0.00	0.00
	5.00	358.50	4,288.3	273.0	-7.1	-273.0	0.00	0.00	0.00
4,300.0									
4,300.0 4,400.0	5.00	358.50	4,387.9	281.7	-7.4	-281.7	0.00	0.00	0.00

Received by OCD: 12/18/2020 3:59:25 PM____

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.0	5.00	358.50	4,587.1	299.1	-7.8	-299.1	0.00	0.00	0.00
4,700.0	5.00	358.50	4,686.8	307.9	-8.1	-307.8	0.00	0.00	0.00
4,800.0	5.00	358.50	4,786.4	316.6	-8.3	-316.6	0.00	0.00	0.00
4,900.0	5.00	358.50	4,886.0	325.3	-8.5	-325.3	0.00	0.00	0.00
5,000.0	5.00	358.50	4,985.6	334.0	-8.7	-334.0	0.00	0.00	0.00
5,100.0 5,119.8	5.00 5.00	358.50 358.50	5,085.2 5,105.0	342.7 344.4	-9.0 -9.0	-342.7 -344.4	0.00 0.00	0.00 0.00	0.00 0.00
Brushy Cany									
5,133.3 Start Drop -1	5.00	358.50	5,118.5	345.6	-9.1	-345.6	0.00	0.00	0.00
5,200.0	4.00	358.50	5,184.9	350.8	-9.2	-350.8	1.50	-1.50	0.00
5,300.0	2.50	358.50	5,284.7	356.5	-9.3	-356.5	1.50	-1.50	0.00
5,400.0	1.00	358.50	5,384.7	359.6	-9.4	-359.6	1.50	-1.50	0.00 0.00
5,466.7 Start 4905.7	0.00 nold at 5466.7 N	0.00	5,451.4	360.1	-9.4	-360.1	1.50	-1.50	0.00
5,500.0	0.00	0.00	5,484.7	360.1	-9.4	-360.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,584.7	360.1	-9.4	-360.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,684.7	360.1	-9.4	-360.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,784.7	360.1	-9.4	-360.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,884.7	360.1	-9.4	-360.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,984.7	360.1	-9.4	-360.1	0.00	0.00	0.00
6,100.0	0.00	0.00	6,084.7	360.1	-9.4	-360.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,184.7	360.1	-9.4	-360.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,284.7	360.1	-9.4	-360.1	0.00	0.00	0.00
6,400.0 6,500.0	0.00	0.00 0.00	6,384.7 6,484.7	360.1 360.1	-9.4	-360.1 -360.1	0.00 0.00	0.00 0.00	0.00 0.00
6,600.0	0.00 0.00	0.00	6,464.7 6,584.7	360.1	-9.4 -9.4	-360.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,684.7	360.1	-9.4	-360.1	0.00	0.00	0.00
6,730.3	0.00	0.00	6,715.0	360.1	-9.4	-360.1	0.00	0.00	0.00
Bone Spring			-,						
6,800.0	0.00	0.00	6,784.7	360.1	-9.4	-360.1	0.00	0.00	0.00
6,825.3	0.00	0.00	6,810.0	360.1	-9.4	-360.1	0.00	0.00	0.00
Upper Avalor		0.00	6 994 7	260.1	-9.4	260.4	0.00	0.00	0.00
6,900.0 7,000.0	0.00 0.00	0.00	6,884.7 6,984.7	360.1 360.1	-9.4	-360.1 -360.1	0.00 0.00	0.00 0.00	0.00 0.00
7,100.0 7,200.0	0.00 0.00	0.00 0.00	7,084.7 7,184.7	360.1 360.1	-9.4 -9.4	-360.1 -360.1	0.00 0.00	0.00 0.00	0.00 0.00
7,200.0	0.00	0.00	7,185.0	360.1	-9.4	-360.1	0.00	0.00	0.00
Middle Avalo		0.00	1,10010	00011	011	00011	0.00	0.00	0.00
7,300.0	0.00	0.00	7,284.7	360.1	-9.4	-360.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,384.7	360.1	-9.4	-360.1	0.00	0.00	0.00
7,430.3	0.00	0.00	7,415.0	360.1	-9.4	-360.1	0.00	0.00	0.00
Lower Avalor		0.00	7 40 4 7	000.4	0.4	000.4	0.00	0.00	0.00
7,500.0 7,600.0	0.00 0.00	0.00 0.00	7,484.7 7,584.7	360.1 360.1	-9.4 -9.4	-360.1 -360.1	0.00 0.00	0.00 0.00	0.00 0.00
7,640.3	0.00	0.00	7,625.0	360.1	-9.4	-360.1	0.00	0.00	0.00
1st Bone Spr	-								
7,700.0	0.00	0.00	7,684.7	360.1	-9.4	-360.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,784.7	360.1	-9.4	-360.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,884.7	360.1	-9.4	-360.1	0.00	0.00	0.00
7,910.3	0.00	0.00	7,895.0	360.1	-9.4	-360.1	0.00	0.00	0.00
2nd Bone Sp 8,000.0	ring Carb 0.00	0.00	7,984.7	360.1	-9.4	-360.1	0.00	0.00	0.00
8,000.0 8,100.0	0.00	0.00	7,984.7 8,084.7	360.1	-9.4 -9.4	-360.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,184.7	360.1	-9.4	-360.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,284.7	360.1	-9.4	-360.1	0.00	0.00	0.00
8,335.3	0.00	0.00	8,320.0	360.1	-9.4	-360.1	0.00	0.00	0.00
2nd Bone Sp	-								
8,400.0	0.00	0.00	8,384.7	360.1	-9.4	-360.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,484.7	360.1	-9.4	-360.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,584.7	360.1	-9.4	-360.1	0.00	0.00	0.00
8,700.0 8,800.0	0.00 0.00	0.00 0.00	8,684.7 8,784.7	360.1 360.1	-9.4 -9.4	-360.1 -360.1	0.00 0.00	0.00 0.00	0.00 0.00
8,890.3	0.00	0.00	8,875.0	360.1	-9.4 -9.4	-360.1	0.00	0.00	0.00
3rd Bone Spi			-						
8,900.0	0.00	0.00	8,884.7	360.1	-9.4	-360.1	0.00	0.00	0.00

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COMPASS 5000.15 Build 90

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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)
9,000.0	0.00	0.00	8.984.7	360.1	-9.4	-360.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,084.7	360.1	-9.4	-360.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,184.7	360.1	-9.4	-360.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,284.7	360.1	-9.4	-360.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,384.7	360.1	-9.4	-360.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,304.7	300.1	-9.4	-300.1	0.00	0.00	0.00
9,490.3	0.00	0.00	9,475.0	360.1	-9.4	-360.1	0.00	0.00	0.00
3rd Bone Sp	ring Sand								
9,500.0	0.00	0.00	9,484.7	360.1	-9.4	-360.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,584.7	360.1	-9.4	-360.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,684.7	360.1	-9.4	-360.1	0.00	0.00	0.00
9,745.3	0.00	0.00	9,730.0	360.1	-9.4	-360.1	0.00	0.00	0.00
		0.00	5,700.0	000.1	-0.4	-000.1	0.00	0.00	0.00
3rd BS W Sa	na								
9,800.0	0.00	0.00	9,784.7	360.1	-9.4	-360.1	0.00	0.00	0.00
9,840.3	0.00	0.00	9,825.0	360.1	-9.4	-360.1	0.00	0.00	0.00
Wolfcamp A									
9,900.0	0.00	0.00	9,884.7	360.1	-9.4	-360.1	0.00	0.00	0.00
9,935.3	0.00	0.00	9,920.0	360.1	-9.4 -9.4	-360.1	0.00	0.00	0.00
		0.00	5,520.0	300.1	-9.4	-300.1	0.00	0.00	0.00
Wolfcamp A		0.00	0.001.7	000 1	<u>^</u>	000 1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,984.7	360.1	-9.4	-360.1	0.00	0.00	0.00
10,040.3	0.00	0.00	10,025.0	360.1	-9.4	-360.1	0.00	0.00	0.00
Wolfcamp A									
10,100.0	0.00	0.00	10,084.7	360.1	-9.4	-360.1	0.00	0.00	0.00
10,200.0	0.00	0.00	10,184.7	360.1	-9.4	-360.1	0.00	0.00	0.00
10,250.3	0.00	0.00	10,235.0	360.1	-9.4	-360.1	0.00	0.00	0.00
	0.00	0.00	10,200.0	500.1	-3.4	-300.1	0.00	0.00	0.00
Wolfcamp B	0.00	0.00	40.004.7	000.4	0.4	000.4	0.00	0.00	0.00
10,300.0	0.00	0.00	10,284.7	360.1	-9.4	-360.1	0.00	0.00	0.00
10,372.4	0.00	0.00	10,357.1	360.1	-9.4	-360.1	0.00	0.00	0.00
Start DLS 10	.00 TFO 182.63								
10,400.0	2.76	182.63	10,384.7	359.5	-9.5	-359.5	10.00	10.00	0.00
10,450.0	7.76	182.63	10,434.5	354.9	-9.7	-354.9	10.00	10.00	0.00
10,500.0	12.76	182.63	10,483.6	346.0	-10.1	-346.0	10.00	10.00	0.00
10,550.0	17.76	182.63	10,531.9	332.9	-10.7	-332.9	10.00	10.00	0.00
10,585.2	21.28	182.63	10,565.0	321.1	-11.2	-321.1	10.00	10.00	0.00
Wolfcamp B ²	1								
10,600.0	22.76	182.63	10,578.8	315.6	-11.5	-315.6	10.00	10.00	0.00
10,650.0	27.76	182.63	10,624.0	294.3	-12.5	-294.3	10.00	10.00	0.00
10,700.0	32.76	182.63	10,667.1	269.1	-13.6	-269.1	10.00	10.00	0.00
10,750.0	37.76	182.63	10,707.9	240.3	-14.9	-240.3	10.00	10.00	0.00
10.800.0	42.76	182.63	10,746.1	208.0	-16.4	-208.0	10.00	10.00	0.00
10,050,0	47.70	100.00	10 701 0	170 5	-18.0	170 5	10.00	10.00	0.00
10,850.0 10,900.0	47.76 52.76	182.63 182.63	10,781.3 10,813.2	172.5 134.2	-19.8	-172.5 -134.1	10.00 10.00	10.00	0.00
10,950.0	57.76	182.63	10,841.7	93.1	-19.0	-134.1	10.00	10.00	0.00
10,950.0	60.34	182.63	10,855.0	71.0	-21.7	-93.1	10.00	10.00	0.00
	00.34	102.03	10,655.0	71.0	-22.1	-71.0	10.00	10.00	0.00
Wolfcamp C									
11,000.0	62.76	182.63	10,866.5	49.8	-23.7	-49.8	10.00	10.00	0.00
11,028.5	65.61	182.63	10,878.9	24.1	-24.9	-24.1	10.00	10.00	0.00
FTP_WTG.23	3H								
11,050.0	67.76	182.63	10,887.4	4.4	-25.8	-4.4	10.00	10.00	0.00
11,100.0	72.76	182.63	10,904.3	-42.6	-27.9	42.6	10.00	10.00	0.00
11,150.0	77.76	182.63	10,917.0	-90.9	-30.1	90.9	10.00	10.00	0.00
11,200.0	82.76	182.63	10,925.5	-140.1	-32.4	140.1	10.00	10.00	0.00
11,250.0	87.76	182.63	10,929.6	-189.8	-34.7	189.9	10.00	10.00	0.00
11,276.7	90.43	182.63	10,930.0	-216.5	-35.9	216.5	10.00	10.00	0.00
	MD, 10930 TVD								
11,300.0	90.43	182.63	10,929.9	-239.8	-37.0	239.8	0.00	0.00	0.00
11,400.0	90.43	182.63	10,929.1	-339.7	-41.5	339.7	0.00	0.00	0.00
11,500.0	90.43	182.63	10,928.4	-439.6	-46.1	439.6	0.00	0.00	0.00
11,600.0	90.43	182.63	10,927.6	-539.5	-40.1	539.5	0.00	0.00	0.00
11,700.0	90.43	182.63	10,926.9	-639.3	-55.3	639.4	0.00	0.00	0.00
11,800.0	90.43	182.63	10,926.1	-739.2	-59.9	739.3	0.00	0.00	0.00
11,900.0	90.43	182.63	10,925.4	-839.1	-64.5	839.2	0.00	0.00	0.00
12,000.0	90.43	182.63	10,924.6	-939.0	-69.0	939.1	0.00	0.00	0.00
12,100.0	90.43	182.63	10,923.9	-1,038.9	-73.6	1,039.0	0.00	0.00	0.00
12,200.0	90.43	182.63	10,923.1	-1,138.8	-78.2	1,138.9	0.00	0.00	0.00
12,300.0	90.43	182.63	10,922.4	-1,238.7	-82.8	1,238.7	0.00	0.00	0.00

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Planned Survey

124000 90.43 192.53 10.321.6 -1.336.6 -97.4 1.336.5 0.00 0.00 0.00 125000 90.43 192.63 10.305.1 -1.438.4 -96.0 1.438.4 0.00 0.00 0.00 127000 90.43 192.63 10.914.6 -1.738.2 -1005.7 1.738.2 0.00 0.00 0.00 12.800.0 90.43 182.63 10.917.7 -1.937.4 -110.3 1.883.1 0.00 0.00 0.00 13.000.0 90.43 182.63 10.917.7 -1.937.9 -114.9 1.388.1 0.00 </th <th>Measured Depth (usft)</th> <th>Inclination (°)</th> <th>Azimuth (°)</th> <th>Vertical Depth (usft)</th> <th>+N/-S (usft)</th> <th>+E/-W (usft)</th> <th>Vertical Section (usft)</th> <th>Dogleg Rate (°/100usft)</th> <th>Build Rate (°/100usft)</th> <th>Turn Rate (°/100usft)</th>	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)
12.200.0 0.43 182.83 10.201.1 -1.38.4 -0.66 1.38.4 0.00 0.00 0.00 12.200.0 0.43 182.63 10.918.6 -1.738.2 -101.1 1.388.1 0.00 0.00 0.00 13.000.0 90.43 182.63 10.917.7 -1.38.7 -111.3 1.588.4 0.00 0.00 0.00 13.000.0 90.43 182.63 10.917.7 -1.424.1 2.137.8 0.00 0.00 0.00 13.000.0 90.43 182.63 10.914.4 -2.237.5 -133.2 2.337.6 0.00 0.00 0.00 13.000.0 90.43 182.63 10.914.1 -2.237.5 -133.2 2.337.6 0.00 0.00 0.00 13.000.0 90.43 182.63 10.914.4 -2.237.7 -147.6 2.337.4 0.00	12,400.0	90.43	182.63	10,921.6	-1,338.6	-87.4	1,338.6	0.00	0.00	0.00
12,000,0 90.43 122,823 1012,201 -1,583.4 -0.66 1,583.4 0.00 0.00 0.00 12,000,0 90.43 152.63 10191.6 -1,738.2 -101.7 1,738.2 0.00 0.00 0.00 13,000,0 90.43 152.63 10191.7 -1,738.2 -101.7 1,138.1 0.00 0.00 0.00 13,000,0 90.43 152.63 10191.6 -2,137.7 -174.1 2,137.8 0.00 0.00 0.00 13,000,0 90.43 152.63 10191.6 -2,137.7 -124.1 2,137.8 0.00 0.00 0.00 13,000,0 90.43 152.63 10191.4 -2,237.5 -133.2 2,337.5 0.00 0.00 0.00 13,000,0 90.43 152.63 10191.4 -2,237.3 -147.42 2,237.5 0.00 </td <td>12,500.0</td> <td>90.43</td> <td>182.63</td> <td>10.920.9</td> <td>-1.438.5</td> <td>-92.0</td> <td>1.438.5</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	12,500.0	90.43	182.63	10.920.9	-1.438.5	-92.0	1.438.5	0.00	0.00	0.00
12.700.0 90.43 182.63 10.914.4 -1.788.3 -101.1 1.688.3 0.00 0.00 0.00 12.900.0 90.43 182.63 10.917.9 -1.888.1 -101.3 1.788.1 0.00 0.00 0.00 13.000.0 90.43 182.63 10.917.4 -1.937.8 -110.5 1.888.1 0.00 0.00 0.00 0.00 13.000.0 90.43 182.63 10.914.4 -2.937.8 -110.5 2.337.6 0.00 0.00 0.00 0.00 13.000.0 90.43 182.63 10.914.4 -2.437.7 -133.2 2.437.5 0.00 0.00 0.00 0.00 13.000.0 90.43 182.63 10.914.4 -2.437.1 -161.6 2.237.7 0.00 0.00 0.00 0.00 13.000.0 90.43 182.63 10.914.4 -2.437.1 -161.6 2.237.1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0										
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13,000.0 90.43 122.63 10,910.4 -2,837.0 -166.7 2,837.1 0.00 0.00 0.00 14,000.0 90.43 182.63 10,908.6 -2,936.9 -166.7 2,837.0 0.00 0.00 0.00 14,200.0 90.43 182.63 10,908.4 -3,136.7 -168.3 3,136.7 0.00 0.00 0.00 14,400.0 90.43 182.63 10,905.4 -3,286.5 -174.5 3,336.4 0.00 0.00 0.00 14,600.0 90.43 182.63 10,905.4 -3,536.2 -188.2 3,336.4 0.00 0.00 0.00 14,600.0 90.43 182.63 10,902.4 -3,536.2 -188.2 3,536.3 0.00 0.00 0.00 14,800.0 90.43 182.63 10,902.4 -3,835.9 -202.0 3,336.0 0.00 0.00 0.00 1.00 15,000.9 90.43 182.63 10,902.4 -3,935.8 -206.6 3,935.9 0.00 0.00 0.00 15,000.9 90.43 182.63 10,994.4	13,700.0	90.43	182.63	10,911.9	-2,637.2	-147.0	2,637.3	0.00	0.00	0.00
14.000 90.43 182.83 10.906 2.938.9 -160.7 2.937.0 0.00 0.00 0.00 14.100.1 90.43 182.83 10.908.8 -3.066.8 -165.3 3.036.8 0.00 0.00 0.00 14.200.1 90.43 182.83 10.907.4 -3.286.5 -174.5 3.236.6 0.00 0.00 0.00 14.400.0 90.43 182.83 10.905.9 -3.436.3 -183.7 3.436.4 0.00 0.00 0.00 14.600.0 90.43 182.63 10.905.1 -3.566.2 -182.2 3.538.3 0.00 0.00 0.00 14.900.0 90.43 182.63 10.902.4 -3.636.1 -192.8 3.538.1 0.00 0.00 0.00 15.000.0 90.43 182.63 10.902.4 -3.835.9 -202.0 3.336.0 0.00 0.00 0.00 15.000.0 90.43 182.63 10.999.4 -4.235.6 -220.3 3.336.0 0.00 0.00 0.00 15.000.0 90.43 182.63 10.899.4 -4.235.6	13,800.0	90.43	182.63	10,911.1	-2,737.1	-151.6	2,737.2	0.00	0.00	0.00
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14,100.0 90.43 182.83 10,908.9 -3,086.8 -165.3 3,036.8 0.00 0.00 14,200.0 90.43 182.83 10,907.4 -3,236.5 -174.5 3,236.6 0.00 0.00 0.00 14,400.0 90.43 182.63 10,906.6 -3,336.4 -178.1 3,336.5 0.00 0.00 0.00 14,600.0 90.43 182.63 10,905.6 -3,436.3 -188.7 3,436.4 0.00 0.00 0.00 14,600.0 90.43 182.63 10,905.6 -3,736.0 -192.4 3,736.1 0.00 0.00 0.00 14,900.0 90.43 182.63 10,902.1 -3,935.8 -206.6 3,935.9 0.00 0.00 0.00 15,000.0 90.43 182.63 10,902.1 -3,935.8 -206.6 3,935.9 0.00 0.00 0.00 15,000.0 90.43 182.63 10,989.1 -4,355.6 -211.2 4,355.5 0.00 0.00 0.00	14,000.0	90.43	182.63	10,909.6	-2,936.9	-160.7	2,937.0	0.00	0.00	0.00
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17,100.0 90.43 179.94 10,886.3 -6,034.7 -253.3 6,034.8 0.00 0.00 0.00 17,200.0 90.43 179.94 10,885.6 -6,134.7 -253.2 6,134.8 0.00 0.00 0.00 17,300.0 90.43 179.94 10,884.8 -6,234.6 -253.1 6,234.8 0.00 0.00 0.00 17,400.0 90.43 179.94 10,884.1 -6,334.6 -253.0 6,334.8 0.00 0.00 0.00 17,500.0 90.43 179.94 10,883.3 -6,434.6 -252.9 6,434.8 0.00 0.00 0.00 17,600.0 90.43 179.94 10,882.5 -6,534.6 -252.8 6,534.8 0.00 0.00 0.00 17,600.0 90.43 179.94 10,881.8 -6,634.6 -252.7 6,634.8 0.00 0.00 0.00 17,800.0 90.43 179.94 10,881.0 -6,734.6 -252.6 6,734.8 0.00 0.00 0.00 17,900.0 90.43 179.94 10,880.3 -6,834.6 <td>17,000.0</td> <td>90.43</td> <td>179.94</td> <td>10,887.1</td> <td>-5,934.7</td> <td>-253.4</td> <td>5,934.8</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	17,000.0	90.43	179.94	10,887.1	-5,934.7	-253.4	5,934.8	0.00	0.00	0.00
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17,500.0 90.43 179.94 10,883.3 -6,434.6 -252.9 6,434.8 0.00 0.00 0.00 17,600.0 90.43 179.94 10,882.5 -6,534.6 -252.8 6,534.8 0.00 0.00 0.00 17,700.0 90.43 179.94 10,881.8 -6,634.6 -252.7 6,634.8 0.00 0.00 0.00 17,800.0 90.43 179.94 10,881.0 -6,734.6 -252.6 6,734.8 0.00 0.00 0.00 17,900.0 90.43 179.94 10,880.3 -6,834.6 -252.5 6,834.8 0.00 0.00 0.00 17,900.0 90.43 179.94 10,880.3 -6,834.6 -252.5 6,834.8 0.00 0.00 0.00 17,936.6 90.43 179.94 10,880.0 -6,871.2 -252.4 6,871.3 0.00 0.00 0.00 17,936.6 90.43 179.94 10,880.0 -6,871.2 -252.4 6,871.3 0.00 0.00 0.00 Start 70.0 hold at 17936.6 MD - LTP_WTG.233H L L L										
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Start 70.0 hold at 17936.6 MD - LTP_WTG.233H	,									
	17 936 6	50.45			5,071.2	-202.7	0,071.0	0.00	0.00	0.00
		d at 17936.6 MI	J-LIP WIG 23	oo⊓						

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_WTG.233H - plan misses target - Point	0.00 t center by 0.1u	0.00 Isft at 18006	10,879.5 .6usft MD (1	-6,941.2 0879.5 TVD, -(-252.5 6941.2 N, -252	363,994.30 2.4 E)	653,830.99	32° 0' 0.653 N	103° 58' 13.575 W
LTP_WTG.233H - plan hits target ce - Point	0.00 nter	0.01	10,880.0	-6,871.2	-252.4	364,064.29	653,831.04	32° 0' 1.346 N	103° 58' 13.572 W
27/34 Sect Cross_233H - plan hits target ce - Point		0.00	10,894.8	-4,911.5	-251.3	366,023.96	653,832.12	32° 0' 20.739 N	103° 58' 13.483 W
FTP_WTG.233H - plan misses target - Point	0.00 t center by 56.2	0.00 2usft at 1102	10,930.0 8.5usft MD (47.6 10878.9 TVD,	-23.7 24.1 N, -24.9	370,983.10 E)	654,059.72	32° 1' 9.808 N	103° 58' 10.646 W

Fo	rm	ati	on	IS	

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
705.0	705.0	Rustler Anhydrite			
1,205.1	1,205.0	Top Salt			
2,755.8	2,750.0	Base Salt			
2,936.5	2,930.0	Lamar			
2,961.6	2,955.0	Delaware Mountain Gp			
3,001.8	2,995.0	Bell Canyon			
3,016.8	3,010.0	Ramsey Sand			
3,905.2	3,895.0	Cherry Canyon			
5,119.8	5,105.0	Brushy Canyon			
6,730.3	6,715.0	Bone Spring Lime			
6,825.3	6,810.0	Upper Avalon			
7,200.3	7,185.0	Middle Avalon			
7,430.3	7,415.0	Lower Avalon			
7,640.3	7,625.0	1st Bone Spring Sand			
7,910.3	7,895.0	2nd Bone Spring Carb			
8,335.3	8,320.0	2nd Bone Spring Sand			
8,890.3	8,875.0	3rd Bone Spring Carb			
9,490.3	9,475.0	3rd Bone Spring Sand			
9,745.3	9,730.0	3rd BS W Sand			
9,840.3	9,825.0	Wolfcamp A X Sand			
9,935.3	9,920.0	Wolfcamp A Y Sand			
10,040.3	10,025.0	Wolfcamp A Lower			
10,250.3	10,235.0	Wolfcamp B			
10,585.2	10,565.0	Wolfcamp B1			
10,975.8	10,855.0	Wolfcamp C			

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	Comment
1,000.0	1,000.0	0.0	0.0	Start Build 1.50
1,333.3	1,332.9	14.5	-0.4	Start 3800.0 hold at 1333.3 MD
5,133.3	5,118.5	345.6	-9.1	Start Drop -1.50
5,466.7	5,451.4	360.1	-9.4	Start 4905.7 hold at 5466.7 MD
10,372.4	10,357.1	360.1	-9.4	Start DLS 10.00 TFO 182.63
11,276.7	10,930.0	-216.5	-35.9	EOC 11276.7 MD, 10930 TVD
15,976.8	10,894.8	-4,911.5	-251.3	Start DLS 2.00 TFO -89.92
16,111.2	10,893.8	-5,045.9	-254.4	Start 1825.4 hold at 16111.2 MD
17,936.6	10,880.0	-6,871.2	-252.4	Start 70.0 hold at 17936.6 MD
18,006.6	10,879.5	-6,941.2	-252.4	TD at 18006.6

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	TAP ROCK OPERATING LLC
LEASE NO.:	NMNM
WELL NAME & NO.:	WTG FED COM / 233H
SURFACE HOLE FOOTAGE:	284'/N & 2025'/E
BOTTOM HOLE FOOTAGE	30'/S & 2486'/E
LOCATION:	Section 27, T.26 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

H2S	C Yes	• No	
Potash	None	© Secretary	© R-111-P
Cave/Karst Potential	C Low	C Medium	• High
Cave/Karst Potential	Critical		
Variance	© None	Flex Hose	© Other
Wellhead	Conventional	Multibowl	© Both
Other	□4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	U 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 620 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 $\underline{8}$

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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.
 - In <u>High Cave/Karst 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 to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - In <u>High Cave/Karst 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.
- 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.

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- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

Eddy County

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

🔀 Lea County

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

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- 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24</u> <u>hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 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 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 <u>Well Control Equipment:</u>

• 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						

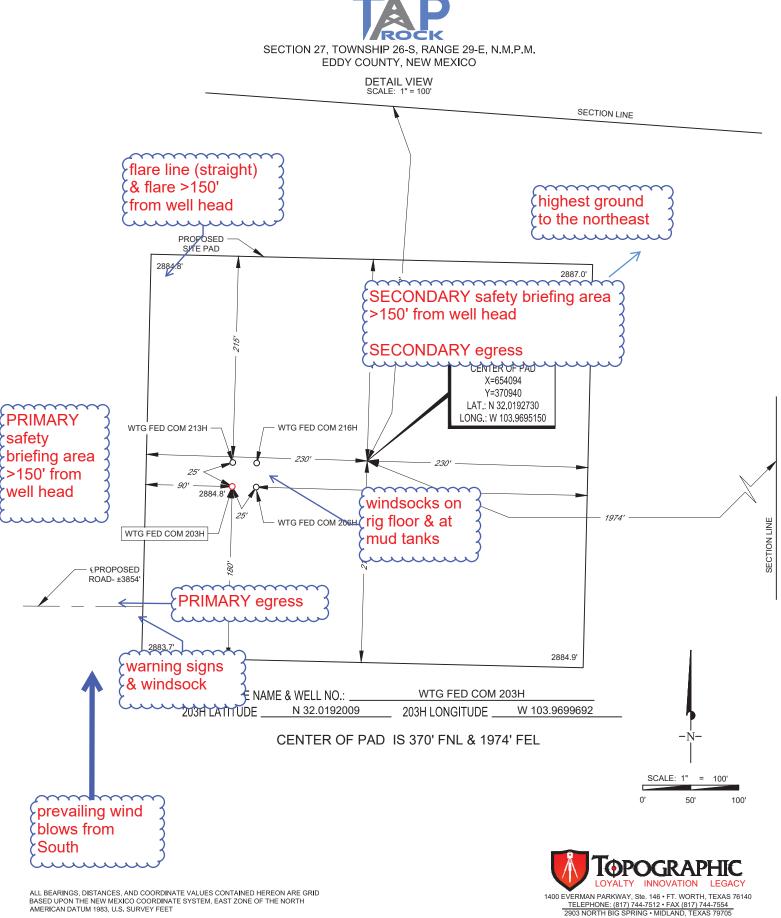
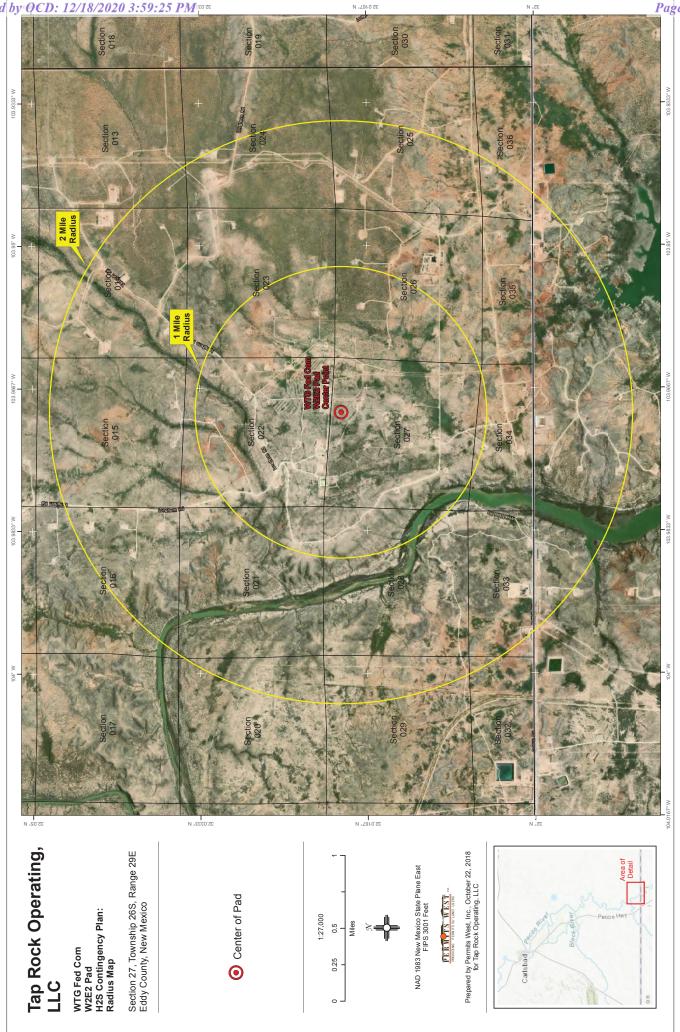


EXHIBIT 2B

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

TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743 WWW.TOPOGRAPHIC.COM





COMMENTS

Action 12370

.

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

Operator: TAP ROCK OPERATING, LLC Suite 200 Golden, CO80401	523 Park Point Drive	OGRID: 372043	Action Numb	er: 2370	Action Type: FORM 3160-3	
Created By Comment Co				ment Date		
kpickford	KP GEO Review 12/18/2020		12/1	12/18/2020		

CONDITIONS

Action 12370

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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

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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

CONDITIONS OF APPROVAL

Operator: Suite 200	TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO80401	OGRID: 372043	Action Number: 12370	Action Type: FORM 3160-3			
		•	•	•			
OCD Reviewer	Condition						
kpickford	ford Will require a directional survey with the C-104						
kpickford	ord Will require a administrative order for non-standard location prior to placing the well on production						
kpickford	ford 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 contained in a steel closed loop system	from the oil or diesel. This incl	udes synthetic oils. Oil base	d mud, drilling fluids and solids must be			