Form 3160-3 (June 2015) UNITED STATES	,			FORM A OMB No Expires: Jar	. 1004-0	137
DEPARTMENT OF THE IN BUREAU OF LAND MANA	NTERIOR			5. Lease Serial No. NMNM038636		
APPLICATION FOR PERMIT TO DI	RILL OR	REENTER		6. If Indian, Allotee of	or Tribe	Name
1a. Type of work: Image: Constraint of the second seco	EENTER			7. If Unit or CA Agre	eement, 1	Name and No.
	her ngle Zone	Multiple Zone		8. Lease Name and V WTG FED COM	Well No.	
2. Name of Operator TAP ROCK OPERATING LLC				242H 9. API Well No. 30	015 481	85
3a. Address602 PARK POINT DRIVE SUITE 200, GOLDEN, CO 8040		No. (include area cod 3316	e)	10. Field and Pool, o PURPLE SAGE WO	1	2
 4. Location of Well (<i>Report location clearly and in accordance w</i> At surface NENW / 264 FNL / 1920 FWL / LAT 32.0198 At proposed prod. zone LOT 10 / 30 FSL / 2010 FWL / LA 	3838 / LON	G -103.9743808	746299	11. Sec., T. R. M. or SEC 27/T26S/R29E		Survey or Area
14. Distance in miles and direction from nearest town or post office 15 miles	ce*			12. County or Parish EDDY		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of a	cres in lease	17. Spacin 461.86	ng Unit dedicated to th	is well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 25 feet	19. Propose 10954 feet	ed Depth t / 18164 feet		/BIA Bond No. in file 1B001443		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2887 feet	22. Approx 12/01/2020	imate date work will	start*	23. Estimated duration 90 days	on	
	24. Atta	chments				
The following, completed in accordance with the requirements of (as applicable)	Onshore Oi	l and Gas Order No. 1	, and the H	Iydraulic Fracturing ru	ile per 43	3 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office) 		Item 20 above). 5. Operator certific	ation.	is unless covered by an mation and/or plans as i		×
25. Signature (Electronic Submission)		e (Printed/Typed) N WOOD / Ph: (72	0) 460-33		Date 05/11/2	2020
Title President						
Approved by (Signature) (Electronic Submission)		e (Printed/Typed) Layton / Ph: (575)	234-5959		Date 02/28/2	2021
Title Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.		bad Field Office	nose rights	in the subject lease wh	nich wou	ld 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 depar	tment or agency
	1000					



(Continued on page 2)

Approval Date: 02/28/2021

*(Instructions on page 2)

 District I

 1625 N. French Dr., Hobbs, NM 88240

 Phone: (575) 393-6161 Fax: (575) 393-0720

 District II

 811 S. First St., Artesia, NM 88210

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

 District III

 1000 Rio Brazos Road, Aztec, NM 87410

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

 District IV

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

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

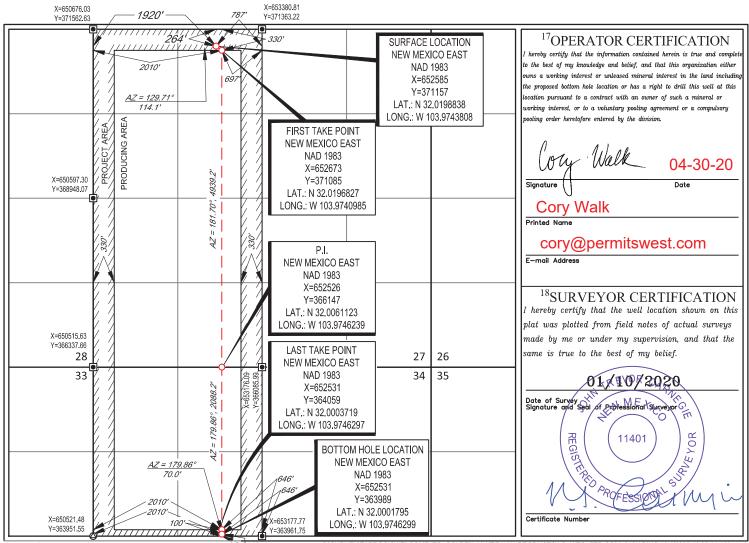
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 FORM C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	API Number			² Pool Code			³ Pool Na	ame		
30-	-015 <mark>4</mark>	8185		98220		PUR	PLE SAGE	; WOLF	CAMF	
⁴ Property C					⁵ Property N	lame			61	Well Number
326330					WTG FED	COM				242H
⁷ OGRID N	lo.				⁸ Operator N	lame				⁹ Elevation
#3720	43			TAP	ROCK OPEH	RATING, LLC.				2887'
	¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Ea	st/West line	County
C	27	26-S	29-E	-	264'	NORTH	1920'	WE	ST	EDDY
			11	Bottom Ho	le Location If D	Different From Su	rface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Ea	st/West line	County
10	34	26-S	-S $29-E$ $ 30'$ SOUTH $2010'$ WEST EDDY							
¹² Dedicated Acres	¹³ Joint or 1	Infill ¹⁴ Co	nsolidation Co	de ¹⁵ Ord	er No.					
461.86										
1										

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.



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S:\SURVEY\TAPROCK\WELCOME_TO_GOLDEN_UNIT\FINAL_PRODUCTS\LO_WTG_FED_COM_242H.DWG 1/14/2020 10:03:11 AM relark

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 242H	Fed	Com		UL C Sec 27 T26S R29E	264' FNL 1920' FWL	+/- 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 *Released to Imaging: 4/21/2021 3:37:14 PM*

Received by OCD: 4/20/2021 10:17:42 AM • NGL Removal – On lease

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

.



Elevation above Sea Level: 2887'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler Anhydrite	685	685		Salt
Salado	1180	1180	Salt	Salt
Base Salt	2730	2731		Salt
Lamar	2905	2907	Limestone	None
Bell Canyon	2970	2972	Sandstone	Hydrocarbons
Cherry Canyon	3870	3873	Sandstone	Hydrocarbons
Brushy Canyon	5085	5090	Sandstone	Hydrocarbons
Bone Spring	6695	6701	Limestone	Hydrocarbons
1st Bone Spring	7600	7606	Sandstone	Hydrocarbons
2nd Bone Spring	7875	7881	Sandstone	Hydrocarbons
3rd Bone Spring	8850	8856	Sandstone	Hydrocarbons
КОР	10429	10435	Shale	Hydrocarbons
Wolfcamp	9800	9806	Shale	Hydrocarbons
TD	10954	18164	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.

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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	755	0	755	J-55	54.5	BUTT	1.13	1.15	1.6
1st Intermediate	12 1/4	9 5/8	API	No	0	2957	0	2955	J-55	40	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	API	No	0	2657	0	2655	P-110	29.7	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	NON API	Yes	2657	10335	2655	10329	P-110	29.7	W-513	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	No	0	10135	0	10129	P-110	20	TXP	1.13	1.15	1.6
Production	6 3/4	5	NON API	Yes	10135	18164	10129	10954	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	777	1.35	1049	14.8	100%	С	5% NCI + LCM
1 at Intermediate	Lead	0	561	2.18	1222	12.7	65%	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
1st Intermediate	Tail	2366	230	1.33	306	14.8	65%	С	5% NaCl + LCM
2nd Intermediate	Lead	2657	408	2.22	906	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM
2nd intermediate	Tail	9335	99	1.37	136	13.2	35%	Н	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	9635	1005	1.19	1196	15.8	25%	Н	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Name	Тор	Bottom	Туре	Mud Weight	Visc	Fluid Loss
Surface	0	755	FW Spud Mud	8.30	28	NC
Intermediate	755	2957	Brine Water	10.00	30-32	NC
Intermediate 2	2957	10335	FW/Cut Brine	9.00	30-32	NC
Production	10335	18164	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 6,579 psi. Expected bottom hole temperature is \approx 170° F.

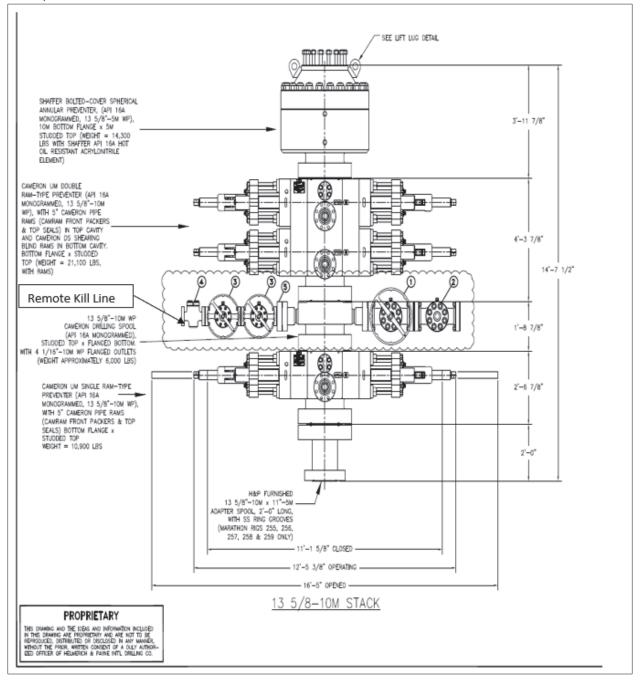
Tap Rock does not anticipate that there will be enough H2S from the surface to the Wolfcamp formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H2S safety package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

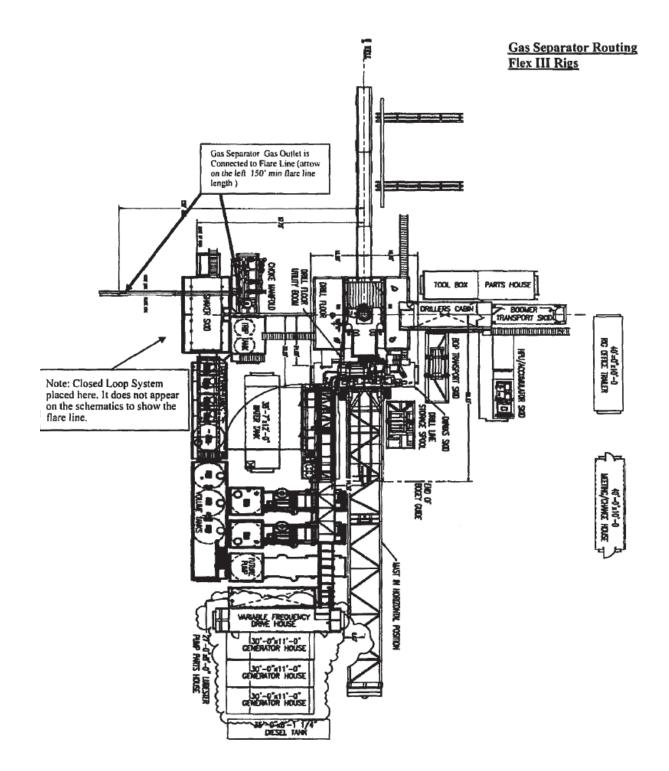
Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.



5,000 psi BOP Stack

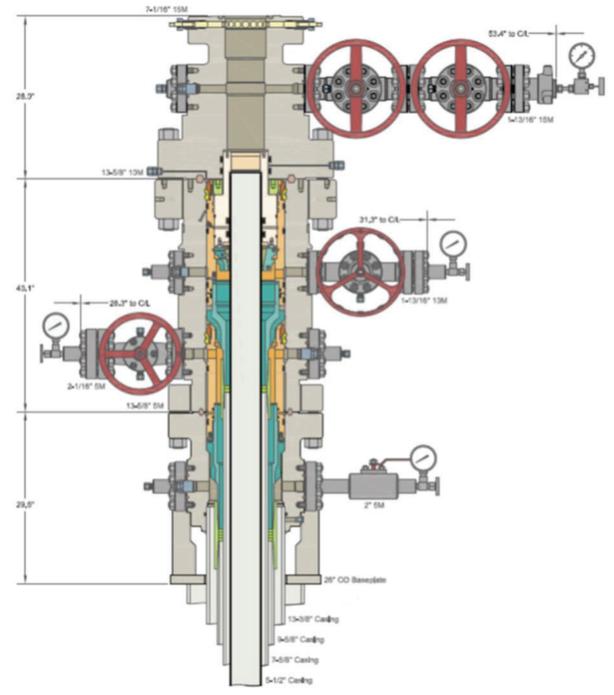




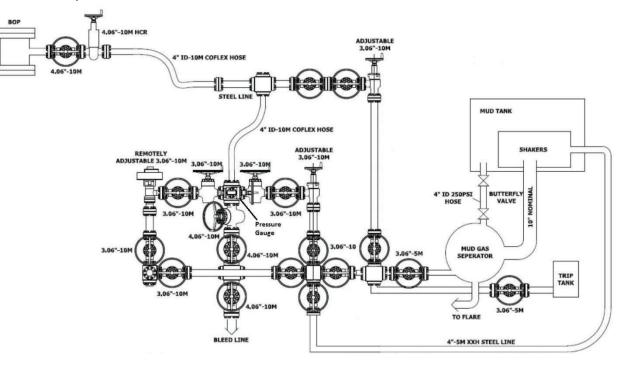




Multi-bowl Wellhead



10M Choke Layout



Tap Rock Operating, LLC.

Eddy County, NM (NAD83) WTG Fed Com 242H

OH

Plan: Plan #1

Standard Planning Report

31 March, 2020

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Project	Eddy County,	NM (NAD83)							
Map System: Geo Datum: Map Zone:	US State Plane North American New Mexico Ea	Datum 1983		System Datur	n:		Mean Sea L	evel	
Site	WTG Fed Cor	n							
Site Position: From: Position Uncertainty:	Lat/Long	2.0 usft	Northing: Easting: Slot Radius:	653,95	3.55 usft 52.90 usft 13-3/16 "	Latitud Longitu Grid Co			32° 1' 9.123 103° 58' 11.889 0.19
Well	242H								
Well Position Position Uncertainty	+N/-S +E/-W	243.9 usft -1,368.1 usft 2.0 usft	Northing: Easting: Wellhead Elev	ration:	371,157.4 652,584.8		Latitude: Longitude: Ground Leve	l:	32° 1' 11.582 103° 58' 27.771 v 2,887.0 us
Wellbore	ОН								
Magnetics	Model Na	me	Sample Date	Declinatio (°)	n		Dip Angle (°)		Field Strength (nT)
	IGF	RF2015	3/31/2020		6.82		59	.78	47,492.77527426
Design	Plan #1								
Audit Notes:									
Version:			Phase:	PLAN	Ti	e On Dep	th:	0.0	
Vertical Section:		(u	rom (TVD) Isft) D.0	+N/-S (usft) 0.0	(1	E/-W usft) 0.0		Direction (°) 179.86	
Plan Survey Tool Pro	ogram	Date 3/31/2	2020						
Depth From (usft)	Depth To (usft)	Survey (Wellb		Tool Name		Rema	arks		
1 0.0	18,164.9	Plan #1 (OH)		MWD MWD - Standard					
Plan Sections									
Measured		Vertio	al		Dogleg	Bui	ld Turn		

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,400.0	3.00	22.70	1,399.9	4.8	2.0	1.50	1.50	0.00	22.70	
6,000.0	3.00	22.70	5,993.6	226.9	94.9	0.00	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,193.5	231.8	96.9	1.50	-1.50	0.00	180.00	
10,435.5	0.00	0.00	10,429.0	231.8	96.9	0.00	0.00	0.00	0.00	
11,339.5	90.40	181.70	11,001.9	-344.9	79.8	10.00	10.00	-19.72	181.70	
16,006.6	90.40	181.70	10,969.5	-5,009.9	-58.7	0.00	0.00	0.00	0.00	27/34 Sect Cross_24
16,100.9	90.40	179.82	10,968.8	-5,104.1	-60.0	2.00	0.00	-2.00	-90.01	
18,094.9	90.40	179.82	10,955.0	-7,098.1	-53.6	0.00	0.00	0.00	0.00	LTP_WTG.242H
18,164.9	90.40	179.82	10,954.5	-7,168.1	-53.4	0.00	0.00	0.00	0.00	PBHL WTG.242H

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Planned Survey

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		600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
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900 0.00 900 0.00 0											
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3,500.0 3.00 22.70 3,497.0 106.2 44.4 -106.1 0.00 0.00 0.00 3,600.0 3.00 22.70 3,596.9 111.0 46.5 -110.9 0.00 0.00 0.00 3,700.0 3.00 22.70 3,696.8 115.9 48.5 -115.8 0.00 0.00 0.00 3,800.0 3.00 22.70 3,796.6 120.7 50.5 -120.6 0.00 0.00 0.00 3,873.5 3.00 22.70 3,890.0 124.3 52.0 -124.1 0.00 0.00 0.00 4,000.0 3.00 22.70 3,896.5 125.5 52.5 -125.4 0.00 0.00 0.00 4,000.0 3.00 22.70 3,996.3 130.4 54.5 -130.2 0.00 0.00 0.00 4,100.0 3.00 22.70 4,096.2 135.2 56.6 -135.1 0.00 0.00 0.00 4,200.0 3.00 </td <td></td> <td></td> <td>3.00</td> <td>22.70</td> <td></td> <td>96.6</td> <td>40.4</td> <td>-96.5</td> <td></td> <td>0.00</td> <td></td>			3.00	22.70		96.6	40.4	-96.5		0.00	
3,600.0 3.00 22.70 3,596.9 111.0 46.5 -110.9 0.00 0.00 0.00 3,700.0 3.00 22.70 3,696.8 115.9 48.5 -115.8 0.00 0.00 0.00 3,800.0 3.00 22.70 3,796.6 120.7 50.5 -120.6 0.00 0.00 0.00 3,873.5 3.00 22.70 3,870.0 124.3 52.0 -124.1 0.00 0.00 0.00 Cherry Canyon 3,900.0 3.00 22.70 3,896.5 125.5 52.5 -125.4 0.00 0.00 0.00 4,000.0 3.00 22.70 3,996.3 130.4 54.5 -130.2 0.00 0.00 0.00 4,100.0 3.00 22.70 4,096.2 135.2 56.6 -135.1 0.00 0.00 0.00 4,200.0 3.00 22.70 4,196.1 140.0 58.6 -139.9 0.00 0.00 0.00 4,300.0 3.00 22.70 4,295.9 144.8 60.6											
3,700.0 3.00 22.70 3,696.8 115.9 48.5 -115.8 0.00 0.00 0.00 3,800.0 3.00 22.70 3,796.6 120.7 50.5 -120.6 0.00 0.00 0.00 3,873.5 3.00 22.70 3,870.0 124.3 52.0 -124.1 0.00 0.00 0.00 Cherry Canyon 3,900.0 3.00 22.70 3,896.5 125.5 52.5 -125.4 0.00 0.00 0.00 4,000.0 3.00 22.70 3,996.3 130.4 54.5 -130.2 0.00 0.00 0.00 4,100.0 3.00 22.70 4,096.2 135.2 56.6 -135.1 0.00 0.00 0.00 4,200.0 3.00 22.70 4,196.1 140.0 58.6 -139.9 0.00 0.00 0.00 4,300.0 3.00 22.70 4,295.9 144.8 60.6 -144.7 0.00 0.00 0.00 4,400.0 3.00 22.70 4,395.8 149.7 62.6											
3,800.0 3.00 22.70 3,796.6 120.7 50.5 -120.6 0.00 0.00 0.00 3,873.5 3.00 22.70 3,870.0 124.3 52.0 -124.1 0.00 0.00 0.00 0.00 Cherry Canyon 3,900.0 3.00 22.70 3,896.5 125.5 52.5 -125.4 0.00 0.00 0.00 0.00 4,000.0 3.00 22.70 3,996.3 130.4 54.5 -130.2 0.00 0.00 0.00 4,100.0 3.00 22.70 4,096.2 135.2 56.6 -135.1 0.00 0.00 0.00 4,200.0 3.00 22.70 4,196.1 140.0 58.6 -139.9 0.00 0.00 0.00 4,200.0 3.00 22.70 4,196.1 140.0 58.6 -139.9 0.00 0.00 0.00 4,300.0 3.00 22.70 4,295.9 144.8 60.6 -144.7 0.00											
3,873.5 3.00 22.70 3,870.0 124.3 52.0 -124.1 0.00 0.00 0.00 Cherry Canyon 3,900.0 3.00 22.70 3,896.5 125.5 52.5 -125.4 0.00 0.00 0.00 4,000.0 3.00 22.70 3,996.3 130.4 54.5 -130.2 0.00 0.00 0.00 4,100.0 3.00 22.70 4,096.2 135.2 56.6 -135.1 0.00 0.00 0.00 4,200.0 3.00 22.70 4,196.1 140.0 58.6 -139.9 0.00 0.00 0.00 4,300.0 3.00 22.70 4,295.9 144.8 60.6 -144.7 0.00 0.00 0.00 4,400.0 3.00 22.70 4,395.8 149.7 62.6 -149.5 0.00 0.00 0.00 4,400.0 3.00 22.70 4,495.7 154.5 64.6 -154.3 0.00 0.00 0.00		3,700.0	3.00	22.70	3,696.8	115.9	48.5	-115.8	0.00	0.00	0.00
3,873.5 3.00 22.70 3,870.0 124.3 52.0 -124.1 0.00 0.00 0.00 Cherry Canyon 3,900.0 3.00 22.70 3,896.5 125.5 52.5 -125.4 0.00 0.00 0.00 4,000.0 3.00 22.70 3,996.3 130.4 54.5 -130.2 0.00 0.00 0.00 4,100.0 3.00 22.70 4,096.2 135.2 56.6 -135.1 0.00 0.00 0.00 4,200.0 3.00 22.70 4,196.1 140.0 58.6 -139.9 0.00 0.00 0.00 4,300.0 3.00 22.70 4,295.9 144.8 60.6 -144.7 0.00 0.00 0.00 4,400.0 3.00 22.70 4,395.8 149.7 62.6 -149.5 0.00 0.00 0.00 4,400.0 3.00 22.70 4,395.8 149.7 62.6 -149.5 0.00 0.00 0.00			3.00	22.70	3,796.6		50.5	-120.6			
3,900.0 3.00 22.70 3,896.5 125.5 52.5 -125.4 0.00 0.00 0.00 4,000.0 3.00 22.70 3,996.3 130.4 54.5 -130.2 0.00 0.00 0.00 4,100.0 3.00 22.70 4,096.2 135.2 56.6 -135.1 0.00 0.00 0.00 4,200.0 3.00 22.70 4,196.1 140.0 58.6 -139.9 0.00 0.00 0.00 4,300.0 3.00 22.70 4,295.9 144.8 60.6 -144.7 0.00 0.00 0.00 4,400.0 3.00 22.70 4,395.8 149.7 62.6 -149.5 0.00 0.00 0.00 4,500.0 3.00 22.70 4,495.7 154.5 64.6 -154.3 0.00 0.00 0.00		3,873.5	3.00	22.70	3,870.0		52.0	-124.1	0.00	0.00	0.00
4,000.0 3.00 22.70 3,996.3 130.4 54.5 -130.2 0.00 0.00 0.00 4,100.0 3.00 22.70 4,096.2 135.2 56.6 -135.1 0.00 0.00 0.00 4,200.0 3.00 22.70 4,196.1 140.0 58.6 -139.9 0.00 0.00 0.00 4,300.0 3.00 22.70 4,295.9 144.8 60.6 -144.7 0.00 0.00 0.00 4,400.0 3.00 22.70 4,395.8 149.7 62.6 -149.5 0.00 0.00 0.00 4,500.0 3.00 22.70 4,495.7 154.5 64.6 -154.3 0.00 0.00 0.00		Cherry Cany	von								
4,100.0 3.00 22.70 4,096.2 135.2 56.6 -135.1 0.00 0.00 0.00 4,200.0 3.00 22.70 4,196.1 140.0 58.6 -139.9 0.00 0.00 0.00 4,300.0 3.00 22.70 4,295.9 144.8 60.6 -144.7 0.00 0.00 0.00 4,400.0 3.00 22.70 4,395.8 149.7 62.6 -149.5 0.00 0.00 0.00 4,500.0 3.00 22.70 4,495.7 154.5 64.6 -154.3 0.00 0.00 0.00		,									
4,200.03.0022.704,196.1140.058.6-139.90.000.000.004,300.03.0022.704,295.9144.860.6-144.70.000.000.004,400.03.0022.704,395.8149.762.6-149.50.000.000.004,500.03.0022.704,495.7154.564.6-154.30.000.000.00											
4,300.0 3.00 22.70 4,295.9 144.8 60.6 -144.7 0.00 0.00 0.00 4,400.0 3.00 22.70 4,395.8 149.7 62.6 -149.5 0.00 0.00 0.00 4,500.0 3.00 22.70 4,495.7 154.5 64.6 -154.3 0.00 0.00 0.00		4,100.0	3.00	22.70	4,096.2	135.2	56.6	-135.1	0.00	0.00	0.00
4,300.0 3.00 22.70 4,295.9 144.8 60.6 -144.7 0.00 0.00 0.00 4,400.0 3.00 22.70 4,395.8 149.7 62.6 -149.5 0.00 0.00 0.00 4,500.0 3.00 22.70 4,495.7 154.5 64.6 -154.3 0.00 0.00 0.00		4,200.0	3.00	22.70	4,196.1	140.0	58.6	-139.9	0.00	0.00	0.00
4,500.0 3.00 22.70 4,495.7 154.5 64.6 -154.3 0.00 0.00 0.00											
4,600.0 3.00 22.70 4,595.5 159.3 66.6 -159.2 0.00 0.00 0.00		4,600.0	3.00	22.70	4,595.5	159.3	66.6	-159.2	0.00	0.00	0.00

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)
4,700.0	3.00	22.70	4,695.4	164.2	68.7	-164.0	0.00	0.00	0.00
4,800.0 4,900.0	3.00 3.00	22.70 22.70	4,795.2 4,895.1	169.0 173.8	70.7 72.7	-168.8 -173.6	0.00 0.00	0.00 0.00	0.00 0.00
5,000.0	3.00	22.70	4,995.0	178.6	74.7	-178.5	0.00	0.00	0.00
5,090.1	3.00	22.70	5,085.0	183.0	76.5	-182.8	0.00	0.00	0.00
Brushy Can	yon								
5,100.0	3.00	22.70	5,094.8	183.5	76.7	-183.3	0.00	0.00	0.00
5,200.0	3.00	22.70	5,194.7	188.3	78.8	-188.1	0.00	0.00	0.00
5,300.0 5,400.0	3.00 3.00	22.70 22.70	5,294.6 5,394.4	193.1 198.0	80.8 82.8	-192.9 -197.8	0.00 0.00	0.00 0.00	0.00 0.00
5,500.0	3.00	22.70	5,494.3	202.8	84.8	-202.6	0.00	0.00	0.00
5,600.0	3.00	22.70	5,594.2	207.6	86.8	-207.4	0.00	0.00	0.00
5,700.0	3.00	22.70	5,694.0	212.4	88.9	-212.2	0.00	0.00	0.00
5,800.0	3.00	22.70	5,793.9	217.3	90.9	-217.0	0.00	0.00	0.00
5,900.0	3.00	22.70	5,893.7	222.1	92.9	-221.9	0.00	0.00	0.00
6,000.0 Start Drop -	3.00	22.70	5,993.6	226.9	94.9	-226.7	0.00	0.00	0.00
		22 20	6 002 5	220 E	06.4	220.2	1 50	1 50	0.00
6,100.0 6,200.0	1.50 0.00	22.70 0.00	6,093.5 6,193.5	230.5 231.8	96.4 96.9	-230.3 -231.5	1.50 1.50	-1.50 -1.50	0.00 0.00
	hold at 6200.0 M		.,						
6,300.0	0.00	0.00	6,293.5	231.8	96.9	-231.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,393.5	231.8	96.9	-231.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,493.5	231.8	96.9	-231.5	0.00	0.00	0.00
6,600.0 6 700 0	0.00	0.00	6,593.5 6 693 5	231.8 231.8	96.9 96.9	-231.5 -231.5	0.00	0.00	0.00 0.00
6,700.0 6,701.5	0.00 0.00	0.00 0.00	6,693.5 6,695.0	231.8 231.8	96.9 96.9	-231.5 -231.5	0.00 0.00	0.00 0.00	0.00
Bone Sprin			-,						
6,791.5	0.00	0.00	6,785.0	231.8	96.9	-231.5	0.00	0.00	0.00
Upper Avalo		0.00	0 700 5	004.0		004 5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,793.5	231.8	96.9	-231.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,893.5	231.8	96.9	-231.5	0.00	0.00	0.00
7,000.0 7,100.0	0.00 0.00	0.00 0.00	6,993.5 7,093.5	231.8 231.8	96.9 96.9	-231.5 -231.5	0.00 0.00	0.00 0.00	0.00 0.00
7,171.5	0.00	0.00	7,165.0	231.8	96.9	-231.5	0.00	0.00	0.00
Middle Aval									
7,200.0	0.00	0.00	7,193.5	231.8	96.9	-231.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,293.5	231.8	96.9	-231.5	0.00	0.00	0.00
7,396.5 Lower Aval	0.00	0.00	7,390.0	231.8	96.9	-231.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,393.5	231.8	96.9	-231.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,493.5	231.8	96.9	-231.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,593.5	231.8	96.9	-231.5	0.00	0.00	0.00
7,606.5	0.00	0.00	7,600.0	231.8	96.9	-231.5	0.00	0.00	0.00
1st Bone Sp	•	0.00	7 000 5	004.0	00.0	001 5	0.00	0.00	0.00
7,700.0 7,800.0	0.00 0.00	0.00 0.00	7,693.5 7,793.5	231.8 231.8	96.9 96.9	-231.5 -231.5	0.00 0.00	0.00 0.00	0.00 0.00
7,881.5	0.00	0.00	7,875.0	231.8	96.9	-231.5	0.00	0.00	0.00
2nd Bone S									
7,900.0	0.00	0.00	7,893.5	231.8	96.9	-231.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,993.5	231.8	96.9	-231.5	0.00	0.00	0.00
8,100.0 8,200.0	0.00 0.00	0.00 0.00	8,093.5 8,193.5	231.8 231.8	96.9 96.9	-231.5 -231.5	0.00 0.00	0.00 0.00	0.00 0.00
8,300.0	0.00	0.00	8,293.5	231.8	90.9 96.9	-231.5	0.00	0.00	0.00
8,301.5	0.00	0.00	8,295.0	231.8	96.9	-231.5	0.00	0.00	0.00
2nd Bone S	pring Sand								
8,400.0	0.00	0.00	8,393.5	231.8	96.9	-231.5	0.00	0.00	0.00
8,500.0	0.00	0.00	8,493.5	231.8	96.9	-231.5	0.00	0.00	0.00
8,600.0 8,700.0	0.00 0.00	0.00 0.00	8,593.5 8,693.5	231.8 231.8	96.9 96.9	-231.5 -231.5	0.00 0.00	0.00 0.00	0.00 0.00
8,800.0	0.00	0.00	8,793.5	231.8	96.9	-231.5	0.00	0.00	0.00
8,856.5	0.00	0.00	8,850.0	231.8	96.9	-231.5	0.00	0.00	0.00
3rd Bone S			-,0.0		2010		2.00	5.00	
8,900.0	0.00	0.00	8,893.5	231.8	96.9	-231.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,993.5	231.8	96.9 06 0	-231.5	0.00	0.00	0.00
9,100.0 9,200.0	0.00 0.00	0.00 0.00	9,093.5 9,193.5	231.8 231.8	96.9 96.9	-231.5 -231.5	0.00 0.00	0.00 0.00	0.00 0.00
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3/31/2020 6:07:10AM

COMPASS 5000.15 Build 90

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Received by OCD: 4/20/2021 10:17:42 AM_

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
9,300.0 9,400.0 9,456.5	0.00 0.00 0.00	0.00 0.00 0.00	9,293.5 9,393.5 9,450.0	231.8 231.8 231.8	96.9 96.9 96.9	-231.5 -231.5 -231.5	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
3rd Bone Sp 9,500.0	ring Sand 0.00	0.00	9,493.5	231.8	96.9	-231.5	0.00	0.00	0.00
9,600.0	0.00	0.00	9,593.5	231.8	96.9	-231.5	0.00	0.00	0.00
9,700.0 9,711.5 3rd BS W Sa	0.00 0.00	0.00 0.00	9,693.5 9,705.0	231.8 231.8	96.9 96.9	-231.5 -231.5	0.00 0.00	0.00 0.00	0.00 0.00
9,800.0 9,806.5	0.00 0.00	0.00 0.00	9,793.5 9,800.0	231.8 231.8	96.9 96.9	-231.5 -231.5	0.00 0.00	0.00 0.00	0.00 0.00
Wolfcamp A 9,900.0	X Sand 0.00	0.00	9,893.5	231.8	96.9	-231.5	0.00	0.00	0.00
9,901.5	0.00	0.00	9,895.0	231.8	96.9	-231.5	0.00	0.00	0.00
Wolfcamp A 10,000.0 10,006.5	9 Sand 0.00 0.00	0.00 0.00	9,993.5 10,000.0	231.8 231.8	96.9 96.9	-231.5 -231.5	0.00 0.00	0.00 0.00	0.00 0.00
Wolfcamp A 10,100.0	Lower 0.00	0.00	10,093.5	231.8	96.9	-231.5	0.00	0.00	0.00
10,200.0	0.00	0.00	10,193.5	231.8	96.9	-231.5	0.00	0.00	0.00
10,221.5 Wolfcamp B		0.00	10,215.0	231.8	96.9	-231.5	0.00	0.00	0.00
10,300.0 10,400.0 10,435.5	0.00 0.00 0.00	0.00 0.00 0.00	10,293.5 10,393.5 10,429.0	231.8 231.8 231.8	96.9 96.9 96.9	-231.5 -231.5 -231.5	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Start DLS 10 10,450.0	0.00 TFO 181.70 1.45	181.70	10,443.5	231.6	96.9	-231.3	10.00	10.00	0.00
10,500.0 10,550.0 10,552.3	6.45 11.45 11.68	181.70 181.70 181.70	10,493.4 10,542.8 10,545.0	228.1 220.4 219.9	96.8 96.6 96.6	-227.9 -220.1 -219.7	10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
Wolfcamp B		101.70	10,545.0	219.9	90.0	-219.7	10.00	10.00	0.00
10,600.0 10,650.0	16.45 21.45	181.70 181.70	10,591.3 10,638.5	208.3 192.1	96.2 95.8	-208.1 -191.8	10.00 10.00	10.00 10.00	0.00 0.00
10,700.0 10,750.0 10,800.0 10,850.0	26.45 31.45 36.45 41.45	181.70 181.70 181.70 181.70	10,684.2 10,728.0 10,769.4 10,808.3	171.8 147.6 119.7 88.3	95.2 94.4 93.6 92.7	-171.6 -147.4 -119.5 -88.1	10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00
10,830.0 10,879.7 Wolfcamp C	44.42	181.70	10,830.0	68.1	92.1	-67.9	10.00	10.00	0.00
10,900.0	46.45	181.70	10,844.3	53.6	91.7	-53.4	10.00	10.00	0.00
10,950.0 11,000.0 11,050.0	51.45 56.45 61.45	181.70 181.70 181.70	10,877.1 10,906.5 10,932.3	15.9 -24.4 -67.3	90.5 89.3 88.1	-15.7 24.7 67.5	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
11,087.0 FTP_WTG.24	65.15 42H	181.70	10,948.9	-100.3	87.1	100.5	10.00	10.00	0.00
11,100.0 11,150.0 11,200.0 11,250.0 11,300.0	66.45 71.45 76.45 81.45 86.45	181.70 181.70 181.70 181.70 181.70 181.70	10,954.2 10,972.2 10,986.0 10,995.6 11,000.9	-112.1 -158.8 -206.8 -255.8 -305.5	86.7 85.3 83.9 82.5 81.0	112.3 159.0 207.0 256.0 305.7	10.00 10.00 10.00 10.00 10.00	10.00 10.00 10.00 10.00 10.00	0.00 0.00 0.00 0.00 0.00
11,339.5	90.40	181.70	11,001.9	-344.9	79.8	345.1	10.00	10.00	0.00
EOC 11339.5 11,400.0	5 MD, 10429 TVD 90.40	181.70	11,001.5	-405.4	78.0	405.6	0.00	0.00	0.00
11,500.0 11,600.0 11,700.0	90.40 90.40 90.40	181.70 181.70 181.70	11,000.8 11,000.1 10,999.4	-505.4 -605.3 -705.3	75.1 72.1 69.1	505.6 605.5 705.5	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
11,800.0 11,900.0 12,000.0 12,100.0	90.40 90.40 90.40 90.40	181.70 181.70 181.70 181.70	10,998.7 10,998.0 10,997.4 10,996.7	-805.2 -905.2 -1,005.2 -1,105.1	66.1 63.2 60.2 57.2	805.4 905.4 1,005.3 1,105.2	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
12,200.0	90.40	181.70	10,996.0	-1,205.1	54.3	1,205.2	0.00	0.00	0.00
12,300.0 12,400.0 12,500.0 12,600.0	90.40 90.40 90.40 90.40	181.70 181.70 181.70 181.70	10,995.3 10,994.6 10,993.9 10,993.2	-1,305.0 -1,405.0 -1,504.9 -1,604.9	51.3 48.3 45.4 42.4	1,305.1 1,405.1 1,505.0 1,605.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00

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COMPASS 5000.15 Build 90

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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)
12,700.0	90.40	181.70	10,992.5	-1,704.8	39.4	1,704.9	0.00	0.00	0.00
12,800.0	90.40	181.70	10,991.8	-1,804.8	36.5	1,804.9	0.00	0.00	0.00
12,900.0	90.40	181.70	10,991.1	-1,904.7	33.5	1,904.8	0.00	0.00	0.00
13,000.0	90.40	181.70	10,990.4	-2,004.7	30.5	2,004.8	0.00	0.00	0.00
13,100.0	90.40	181.70	10,989.7	-2,104.6	27.6	2,104.7	0.00	0.00	0.00
13,200.0	90.40	181.70	10,989.0	-2,204.6	24.6	2,204.6	0.00	0.00	0.00
13,300.0	90.40	181.70	10,988.3	-2,304.5	21.6	2,304.6	0.00	0.00	0.00
13,400.0	90.40	181.70	10,987.6	-2,404.5	18.7	2,404.5	0.00	0.00	0.00
13,500.0	90.40	181.70	10,986.9	-2,504.5	15.7	2,504.5	0.00	0.00	0.00
13,600.0	90.40	181.70	10,986.2	-2,604.4	12.7	2,604.4	0.00	0.00	0.00
13,700.0	90.40	181.70	10,985.5	-2,704.4	9.8	2,704.4	0.00	0.00	0.00
13,800.0	90.40	181.70	10,984.8	-2,804.3	6.8	2,804.3	0.00	0.00	0.00
13,900.0	90.40	181.70	10,984.1	-2,904.3	3.8	2,904.3	0.00	0.00	0.00
14,000.0	90.40	181.70	10,983.4	-3,004.2	0.8	3,004.2	0.00	0.00	0.00
14,100.0	90.40	181.70	10,982.8	-3,104.2	-2.1	3,104.2	0.00	0.00	0.00
14,200.0	90.40	181.70	10,982.1	-3,204.1	-5.1	3,204.1	0.00	0.00	0.00
14,300.0 14,400.0	90.40	181.70 181.70	10,981.4 10,980.7	-3,304.1	-8.1 -11.0	3,304.1 3,404.0	0.00	0.00 0.00	0.00
14,400.0	90.40	181.70	10,980.7	-3,404.0	-11.0	3,404.0	0.00		0.00
14,500.0	90.40	181.70	10,980.0	-3,504.0	-14.0	3,503.9	0.00	0.00	0.00
14,600.0	90.40	181.70	10,979.3	-3,603.9	-17.0	3,603.9	0.00	0.00	0.00
14,700.0	90.40	181.70	10,978.6	-3,703.9	-19.9	3,703.8	0.00	0.00	0.00
14,800.0	90.40	181.70	10,977.9	-3,803.9	-22.9	3,803.8	0.00	0.00	0.00
14,900.0	90.40	181.70	10,977.2	-3,903.8	-25.9	3,903.7	0.00	0.00	0.00
15,000.0	90.40	181.70	10,976.5	-4,003.8	-28.8	4,003.7	0.00	0.00	0.00
15,100.0	90.40	181.70	10,975.8	-4,103.7	-31.8	4,103.6	0.00	0.00	0.00
15,200.0	90.40	181.70	10,975.1	-4,203.7	-34.8	4,203.6	0.00	0.00	0.00
15,300.0	90.40	181.70	10,974.4	-4,303.6	-37.7	4,303.5	0.00	0.00	0.00
15,400.0	90.40	181.70	10,973.7	-4,403.6	-40.7	4,403.5	0.00	0.00	0.00
15,500.0	90.40	181.70	10,973.0	-4,503.5	-43.7	4,503.4	0.00	0.00	0.00
15,600.0	90.40	181.70	10,972.3	-4,603.5	-46.6	4,603.4	0.00	0.00	0.00
15,700.0	90.40	181.70	10,971.6	-4,703.4	-49.6	4,703.3	0.00	0.00	0.00
15 900 0	90.40	181.70	10,970.9	-4,803.4	-52.6	4,803.2	0.00	0.00	0.00
15,800.0			,						
15,900.0 16,006.6	90.40 90.40	181.70 181.70	10,970.2 10,969.5	-4,903.3 -5,009.9	-55.6 -58.7	4,903.2 5,009.8	0.00 0.00	0.00 0.00	0.00 0.00
,	00.40 00 TFO -90.01 - 2			-0,009.9	-50.7	5,005.0	0.00	0.00	0.00
16,100.9	90.40	179.82	10,968.8	-5,104.1	-60.0	5,104.0	2.00	0.00	-2.00
,	hold at 16100.9		,	-,		-,			
16,200.0	90.40	179.82	10,968.2	-5,203.3	-59.6	5,203.1	0.00	0.00	0.00
	90.40		10,967.5	-5,303.3	-59.3		0.00	0.00	0.00
16,300.0 16,400.0		179.82	,	,		5,303.1			
16,400.0	90.40	179.82	10,966.8	-5,403.3	-59.0	5,403.1	0.00	0.00	0.00
16,500.0	90.40	179.82	10,966.1	-5,503.3	-58.7	5,503.1	0.00	0.00	0.00
16,600.0	90.40	179.82	10,965.4	-5,603.3	-58.4	5,603.1	0.00	0.00	0.00
16,700.0	90.40	179.82	10,964.7	-5,703.3	-58.0	5,703.1	0.00	0.00	0.00
16,800.0	90.40	179.82	10,964.0	-5,803.3	-57.7	5,803.1	0.00	0.00	0.00
16,900.0	90.40	179.82	10,963.3	-5,903.3	-57.4	5,903.1	0.00	0.00	0.00
17,000.0	90.40	179.82	10,962.6	-6,003.3	-57.1	6,003.1	0.00	0.00	0.00
17,100.0	90.40	179.82	10,961.9	-6,103.2	-56.8	6,103.1	0.00	0.00	0.00
17,200.0	90.40	179.82	10,961.2	-6,203.2	-56.4	6,203.1	0.00	0.00	0.00
17,300.0	90.40	179.82	10,960.5	-6,303.2	-56.1	6,303.1	0.00	0.00	0.00
17,400.0	90.40	179.82	10,959.8	-6,403.2	-55.8	6,403.1	0.00	0.00	0.00
17,500.0	90.40	179.82	10,959.1	-6,503.2	-55.5	6,503.1	0.00	0.00	0.00
17,600.0	90.40	179.82	10,958.4	-6,603.2	-55.2	6,603.1	0.00	0.00	0.00
17,700.0	90.40	179.82	10,957.7	-6,703.2	-54.8	6,703.1	0.00	0.00	0.00
17,800.0	90.40	179.82	10,957.0	-6,803.2	-54.5	6,803.1	0.00	0.00	0.00
17,900.0	90.40	179.82	10,956.4	-6,903.2	-54.2	6,903.1	0.00	0.00	0.00
18,000.0	90.40	179.82	10,955.7	-7,003.2	-53.9	7,003.1	0.00	0.00	0.00
18,094.9	90.40	179.82	10,955.0	-7,098.1	-53.6	7,098.0	0.00	0.00	0.00
	Id at 18094.9 ME			7 400 0	50.0	7 400 4	0.00	0.05	0.00
18,100.0	90.40	179.82	10,955.0	-7,103.2	-53.6	7,103.1	0.00	0.00	0.00
10 10 10	90.40	179.82	10,954.5	-7,168.1	-53.4	7,168.0	0.00	0.00	0.00
18,164.9							· · · •		

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 27/34 Sect Closs_242H
 0.00
 10,969.5
 -5,009.9
 -36.7
 366,147.47
 652,526.09
 32
 0.22.004 N

 - plan hits target center by 62.4usft at 11087.0usft MD (10948.9 TVD, -100.3 N, 87.1 E)
 - Point
 - Point

Formations Measured Vertical Dip Depth Depth Direction Dip (usft) (usft) (°) Name Lithology (°) 685.0 685.0 Rustler Anhydrite 1,180.0 1,180.0 Top Salt 2,730.0 Base Salt 2,731.9 2,907.2 2,905.0 Lamar 2,937.2 2,935.0 Delaware Mountain Gp 2,972.2 2,970.0 Bell Canyon 2.987.3 2,985.0 Ramsey Sand 3,873.5 3,870.0 Cherry Canyon 5,090.1 5,085.0 Brushy Canyon 6,701.5 6,695.0 Bone Spring Lime 6,785.0 Upper Avalon 6,791.5 7,171.5 7,165.0 Middle Avalon 7,396.5 7,390.0 Lower Avalon 7,600.0 1st Bone Spring Sand 7,606.5 7.881.5 7,875.0 2nd Bone Spring Carb 8,301.5 8,295.0 2nd Bone Spring Sand 8,856.5 8,850.0 3rd Bone Spring Carb 9,456.5 9,450.0 3rd Bone Spring Sand 9,711.5 9,705.0 3rd BS W Sand 9,800.0 Wolfcamp A X Sand 9.806.5 9,901.5 9,895.0 Wolfcamp A Y Sand 10,006.5 10,000.0 Wolfcamp A Lower 10,215.0 Wolfcamp B 10,221.5 10,552.3 10.545.0 Wolfcamp B1 10.879.7 10,830.0 Wolfcamp C

Plan Annotations Local Coordinates Vertical Measured Depth Depth +N/-S +E/-W (usft) (usft) (usft) (usft) Comment 1,200.0 1,200.0 0.0 0.0 Start Build 1.50 1,400.0 1,399.9 4.8 2.0 Start 4600.0 hold at 1400.0 MD 6,000.0 5,993.6 226.9 94.9 Start Drop -1.50 Start 4235.5 hold at 6200.0 MD 6,200.0 6,193.5 231.8 96.9 10,435.5 10,429.0 231.8 96.9 Start DLS 10.00 TFO 181.70 11,339.5 11,001.9 -344.9 79.8 EOC 11339.5 MD, 10429 TVD -5,009.9 Start DLS 2.00 TFO -90.01 16.006.6 10.969.5 -58.7 16,100.9 10,968.8 -5,104.1 -60.0 Start 1994.1 hold at 16100.9 MD 18,094.9 10,955.0 -7,098.1 -53.6 Start 70.0 hold at 18094.9 MD 10,954.5 -7,168.1 -53.4 TD at 18164.9 18,164.9

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103° 58' 26.755 W

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

	Tap Rock Operating LLC Lease No. NMNM038636 Eddy
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Wells:

Pad 1 WTG Fed Com 231H

Surface Hole Location: 380' FNL & 568' FWL, Section 27, T. 26 S., R. 29 E. Bottom Hole Location: 30' FSL & 750' FWL, Section 34, T. 26 S, R 29 E.

WTG Fed Com 241H Surface Hole Location: 381' FNL & 543' FWL, Section 27, T. 26 S., R. 29 E. Bottom Hole Location: 30' FSL & 331' FWL, Section 34, T. 26 S, R 29 E.

WTG Fed Com 245H Surface Hole Location: 379' FNL & 593' FWL, Section 27, T. 26 S., R. 29 E. Bottom Hole Location: 30' FSL & 1170' FWL, Section 34, T. 26 S, R 29 E.

<u>Pad 2</u>

WTG Fed Com 232H

Surface Hole Location: 289' FNL & 1920' FWL, Section 27, T. 26 S., R. 29 E. Bottom Hole Location: 30' FSL & 2430' FWL, Section 34, T. 26 S, R 29 E.

WTG Fed Com 235H Surface Hole Location: 265' FNL & 1895' FWL, Section 27, T. 26 S., R. 29 E. Bottom Hole Location: 30' FSL & 1590' FWL, Section 34, T. 26 S, R 29 E.

WTG Fed Com 242H Surface Hole Location: 264' FNL & 1920' FWL, Section 27, T. 26 S., R. 29 E. Bottom Hole Location: 30' FSL & 2010' FWL, Section 34, T. 26 S, R 29 E.

Pad 3

WTG Fed Com 233H Surface Hole Location: 376' FNL & 1984' FEL, Section 27, T. 26 S., R. 29 E. Bottom Hole Location: 30' FSL & 2010' FEL, Section 34, T. 26 S, R 29 E.

WTG Fed Com 243H Surface Hole Location: 402' FNL & 2009' FEL, Section 27, T. 26 S., R. 29 E. Bottom Hole Location: 30' FSL & 2340' FEL, Section 34, T. 26 S, R 29 E.

WTG Fed Com 246H Surface Hole Location: 401' FNL & 1984' FEL, Section 27, T. 26 S., R. 29 E. Bottom Hole Location: 30' FSL & 1590' FEL, Section 34, T. 26 S, R 29 E.

Pad 4

WTG Fed Com 236H Surface Hole Location: 295' FNL & 1045' FEL, Section 27, T. 26 S., R. 29 E. Bottom Hole Location: 30' FSL & 1170' FEL, Section 34, T. 26 S, R 29 E.

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

General Provisions Permit Expiration Archaeology, Paleontology, and Historical Sites Noxious Weeds Special Requirements Watershed Cave/Karst Texas Hornhell Mussel Construction Notification Topsoil Closed Loop System Federal Mineral Material Pits Well Pads Roads Road Section Diagram Production (Post Drilling) Well Structures & Facilities Pipelines Interim Reclamation Final Abandonment & Reclamation

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I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See information below discussing NAGPRA.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

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Approval Date: 02/28/2021

Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

SPECIAL REQUIREMENT(S)

Watershed:

TANK BATTERY:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

BURIED/SURFACE LINE(S):

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

Cave/Karst:

Construction Mitigation

In order to mitigate the impacts from construction activities on cave and karst resources, the following Conditions of Approval will apply to this APD or project:

General Construction:

No blasting

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction, and no additional construction shall occur until clearance has been issued by the Authorized Officer.
- All linear surface disturbance activities will avoid sinkholes and other karst features to lessen the possibility of encountering near surface voids during construction, minimize changes to runoff, and prevent untimely leaks and spills from entering the karst drainage system.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

Pad Construction:

- The pad will be constructed and leveled by adding the necessary fill and caliche no blasting.
- The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.
- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g., caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised (i.e. an access road crossing the berm cannot be lower than the berm height).
- Following a rain event, all fluids will vacuumed off of the pad and hauled off-site and disposed at a proper disposal facility.

Road Construction:

- Turnout ditches and drainage leadoffs will not be constructed in such a manner as to alter the natural flow of water into or out of cave or karst features.
- Special restoration stipulations or realignment may be required if subsurface features are discovered during construction.

Buried Pipeline/Cable Construction:

• Rerouting of the buried line(s) may be required if a subsurface void is encountered during construction to minimize the potential subsidence/collapse of the feature(s) as well as the possibility of leaks/spills entering the karst drainage system.

Drilling Mitigation

Federal regulations and standard Conditions of Approval applied to all APDs require that adequate measures are taken to prevent contamination to the environment. Due to the extreme sensitivity of the cave and karst resources in this project area, the following additional Conditions of Approval will be added to this APD.

To prevent cave and karst resource contamination the following will be required:

- Closed loop system using steel tanks all fluids and cuttings will be hauled off-site and disposed of properly at an authorized site
- Rotary drilling with fresh water where cave or karst features are expected to prevent contamination of freshwater aquifers.

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- Directional drilling is only allowed at depths greater than 100 feet below the cave occurrence zone to prevent additional impacts resulting from directional drilling.
- Lost circulation zones will be logged and reported in the drilling report so BLM can assess the situation and work with the operator on corrective actions.
- Additional drilling, casing, and cementing procedures to protect cave zones and fresh water aquifers. See drilling COAs.

Production Mitigation

In order to mitigate the impacts from production activities and due to the nature of karst terrane, the following Conditions of Approval will apply to this APD:

- Tank battery locations and facilities will be bermed and lined with a 20 mil thick permanent liner that has a 4 oz. felt backing, or equivalent, to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.
- Development and implementation of a leak detection system to provide an early alert to operators when a leak has occurred.
- Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Residual and Cumulative Mitigation

The operator will perform annual pressure monitoring on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be taken to correct the problem to the BLM's approval.

Plugging and Abandonment Mitigation

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Texas Hornshell Mussel:

Oil and Gas Zone D - CCA Boundary requirements.

- Implement erosion control measures in accordance with the Reasonable and Prudent Practices for Stabilization ("RAPPS")
- Comply with SPCC requirements in accordance with 40 CFR Part 112;
- Comply with the United States Army Corp of Engineers (USACE) Nationwide 12 General Permit, where applicable;

• Utilize technologies (like underground borings for pipelines), where feasible; Educate personnel, agents, contractors, and subcontractors about the requirements of conservation measures, COAs, Stips and provide direction in accordance with the Permit

V. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

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B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

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

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

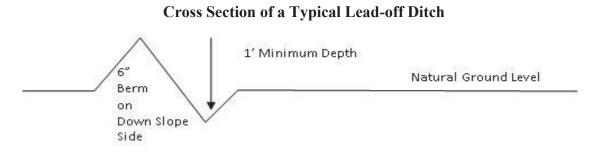
Turnouts

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

Drainage

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

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



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

Formula for Spacing Interval of Lead-off Ditches

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

400 foot road with 4% road slope: 400' + 100' = 200' lead-off ditch interval 4%

Cattle guards

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

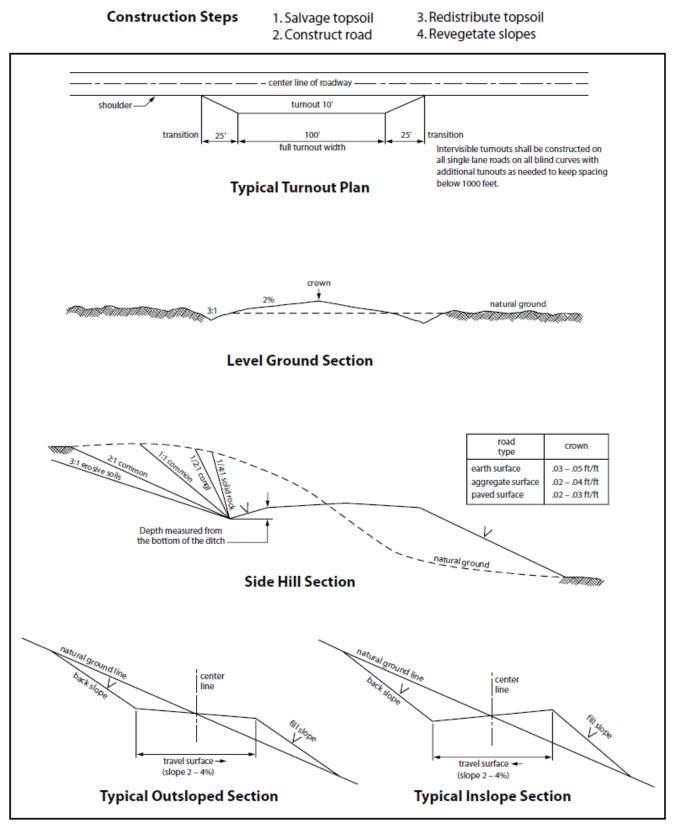
Fence Requirement

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

Public Access

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

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VI. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

BURIED PIPELINE STIPULATIONS

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

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq.</u> (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, <u>et seq</u>.) on the

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Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of <u>36</u> inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately <u>6</u> inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

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10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	(X) seed mixture 3
() seed mixture 2	() seed mixture 4
() seed mixture 2/LPC	() Aplomado Falcon Mixture

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 17 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

17. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

18. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer.

19. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

20. <u>Escape Ramps</u> - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.

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- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.
- 21. Special Stipulations:

Karst:

- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the trench at that point until clearance has been issued by the Authorized Officer.
- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

VII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

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Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

VIII. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 3, for Shallow Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	<u>lb/acre</u>
Plains Bristlegrass (Setaria macrostachya)	1.0
Green Sprangletop (Leptochloa dubia)	2.0
Sideoats Grama (Bouteloua curtipendula)	5.0

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

Approval Date: 02/28/2021

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	TAP ROCK OPERATING LLC
LEASE NO.:	NMNM138607
WELL NAME & NO.:	WTG FED COM / 242H
LOCATION:	Section 27, T.26 S., R.29 E., NMPM
COUNTY:	Eddy County, New Mexico

COA

H2S	© Yes	🖲 No	
Potash	None	© Secretary	[©] R-111-Р
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	□ 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 <u>8</u>
 <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

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- 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.
 - 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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

- Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

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- 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 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:

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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. 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).

Approval Date: 02/28/2021

- 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.

Approval Date: 02/28/2021



Hydrogen Sulfide Drilling

Operations Plan

Tap Rock Resources

1 H2S safety instructions to the following:

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

2 H2S Detection and Alarm Systems:

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

3 Windsocks and / Wind Streamers:

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

4 Condition Flags and Signs:

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

5 <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				

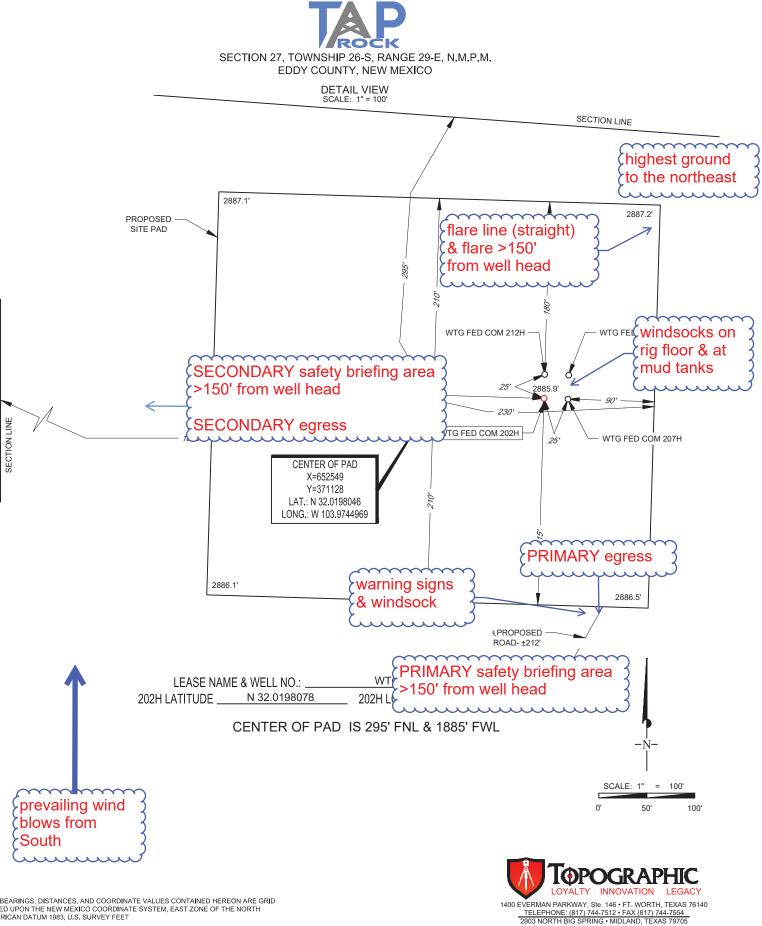


EXHIBIT 2B

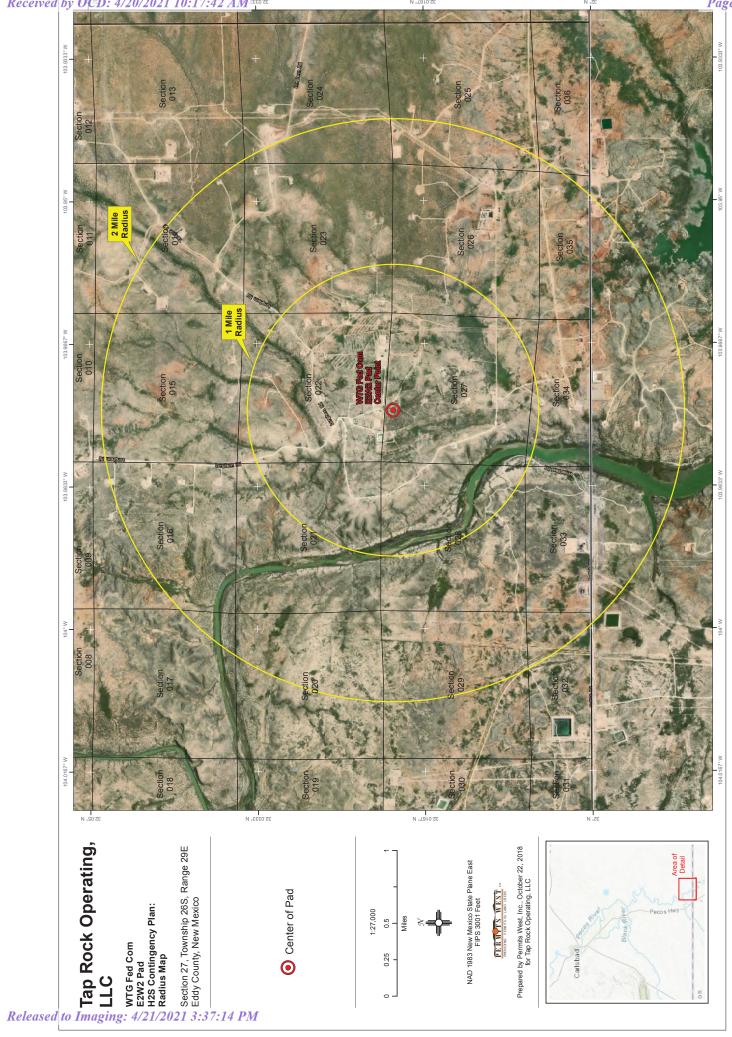
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET

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



32.0167° N



COMMENTS

Action 24770

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 Number: 24770	Action Type: FORM 3160-3
Created By	eated By Comment Comment Date			
kpickford KP GEO Review 4/21/2021			04/21/2021	

CONDITIONS

Action 24770

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

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

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
	TAP ROCK OPERATING, LLC	523 Park Point Drive	372043	24770	FORM 3160-3
Suite 200	Golden, CO80401				
OCD	Condition				
Reviewer					
kpickford	Will require a administrative order for non-standard location prior to placing the well on production				
kpickford	d Notify OCD 24 hours prior to casing & cement				
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104				
kpickford	oickford 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	d Cement is required to circulate on both surface and intermediate1 strings of casing				
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.				