Form 3160-3 (June 2015) UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA APPLICATION FOR PERMIT TO D	S NTERIOR ACENIN RILL OR	RECI MAR RD-O REENT	0 4 20 CDA	D 20 RTES	FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No. MNM138850 6. If Indian, Allotee or Tribe Name					
1a. Type of work: ✓ DRILL RI 1b. Type of Well: Oil Well Oas Well On 1c. Type of Completion: Hydraulic Fracturing Si	EENTER ther ngle Zone [Multip	le Zone	, ,	7. If Unit or CA Agr 8. Lease Name and NAILED IT FED C 213H 327.	Well No OM	Name and No.			
 Name of Operator TAP ROCK OPERATING LLC Address 602 Park Point Drive Suite 200, Golden, CO 80401 Location of Well (<i>Report location clearly and in accordance w</i> At surface LOT 2 / 676 FSL / 2225 FEL / LAT 32.00201 At proposed prod. zone NWSE / 2465 FSL / 2486 FEL / 1 	3b. Phone N (720) 460-3 <i>with any State</i> 162 / LONG _AT 32.0128	lo. (includ 3316 requireme -103.833 3269 / LO	e area coa ents.*) 299 NG -103.	<i>le)</i> 834153	9. API Well No. 30-0/5-46828 10. Field and Pool, or Exploratory PURPLE SAGE WOLFCAMP/null 11. Sec., T. R. M. or Blk. and Survey or Area SEC 36/T26S/R30E/NMP					
14. Distance in miles and direction from nearest town or post offi 20 miles	ce*				12. County or Parish GRANT	1	13. State NM			
15. Distance from proposed* location to nearest property or lease line, ft. (Also to pearest drig, unit line, if any)	16. No of ac 320	eres in leas	se	17. Spacin 288.4	ng Unit dedicated to the	his well				
 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 25 feet 	19. Propose 11221 feet	d Depth / 15511 f	eet '	20. BLM FED: NN	/BIA Bond No. in file /B001443					
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3028 feet	22. Approxi 01/01/2020	mate date	work will	start*	23. Estimated durati 30 days	on				
	24. Attac	hments								
 The following, completed in accordance with the requirements of (as applicable) Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office) 	Onshore Oil n Lands, the).	and Gas C 4. Bond Item 2 5. Opera 6. Such BLM	to cover th 20 above). ator certific other site sp	I, and the F e operation cation. becific infor	 Hydraulic Fracturing r . unless covered by ar mation and/or plans as 	ule per 4 n existing may be n	3 CFR 3162.3-3 ; bond on file (see requested by the			
25. Signature (Electronic Submission)	Name Brian	(Printed/ Wood / F	<i>Typed)</i> Ph: (720)	460-3316		Date 08/30/2	2019			
Title President			-							
Approved by (Signature) (Electronic Submission) Title	Name Cody Office	(Printed/) Layton / I	Typed) h: (575)	234-5959		Date 02/24/2	2020			
Assistant Field Manager Lands & Minerals Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds legal of	or equitabl	e title to th	nose rights	in the subject lease wh	hich 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	ake it a crime or representati	ons as to	erson knov any matter	wingly and within its j	willfully to make to a jurisdiction.	iny depa	rtment or agency			

	States and a state of the state
AV	METANS
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APPKOVED "	
Approval Date: 02/24/2	2020

Rw 3-12-20 *(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

1

Additional Operator Remarks

Location of Well

0. SHL: LOT 2 / 676 FSL / 2225 FEL / TWSP: 26S / RANGE: 30E / SECTION: 36 / LAT: 32 0020162 / LONG: -103.833299 (TVD: 0 feet, MD: 0 feet) PPP: NWNE / 820 FSL / 2486 FEL / TWSP: 26S / RANGE: 30E / SECTION: 36 / LAT: 32.00241 / LONG: -103.834134 (TVD: 11205 feet, MD: 11721 feet) PPP: LOT 2 / 115 FSL / 2486 FEL / TWSP: 26S / RANGE: 30E / SECTION: 36 / LAT: 32.004801 / LONG: -103.8341312 (TVD: 10769 feet, MD: 10813 feet) BHL: NWSE / 2465 FSL / 2486 FEL / TWSP: 26S / RANGE: 30E / SECTION: 25 / LAT: 32 0128269 / LONG: -103.834153 (TVD: 11221 feet, MD: 15511 feet)

BLM Point of Contact

Name: Priscilla Perez Title: Legal Instruments Examiner Phone: (575) 234-5934 Email: pperez@blm.gov

C

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Tap Rock Operating	LLC
LEASE NO.:	NMNM138850	
COUNTY:	Lea	

The following conditions of approval are only applicable to the portion of road residing in the SWSW quarter of Section 25, T26S, R30E.

See page two for the applicable wells and their legal descriptions.

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 Cave/Karst
 Construction Notification Federal Mineral Material Pits Roads
 Road Section Diagram

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			· ·	SHL				BHL			
	Well Name	ULSTR	Foo	tage	Coord	inates	ULSTR	Foo	tage	Coord	linates
	Nailed It Fed Com 201H	L4 36-26S-30E	330 FSL	279 FWL	32.0010601	-103.8424129	NWSW 25-26S-30E	2464 FSL	638 FWL	32.0128419	-103.8412680
	Nailed It Fed Com 205H	L4 36-26S-30E	330 FSL	330 FSL 304 FWL 32,0010602 -103.842		-103.8423323	NWSW 25-26S-30E	2464 FSL	1254 FWL	32.0128378	-103.8392806
	Nailed It Fed Com 211H	L4 36-26S-30E	305 FSL	279 FWL	32.0009914	-103.8424129	NWSW 25-26S-30E	2464 FSL	331 FWL	32.0128440	-103.8422585
W2W2	Nailed It Fed Com 215H	L4 36-26S-30E	305 FSL	304 FWL	32.0009915	-103.8423323	NWSW 25-265-30E	2464 FSL	946 FWL	32.0128399	-103.8402743
Pad	Nailed It Fed Com 221H	L4 36-26S-30E	330 FSL	384 FWL	32.0010603	-103.8420742	NWSW 25-26S-30E	2464 FSL	331 FWL	32.0128440	-103.8422585
(Slot 1)	Nailed It Fed Com 225H	L4 36-26S-30E	330 FSL	434 FWL	32.0010604	-103.8419129	NWSW 25-26S-30E	2464 FSL	1170 FWL	32.0128384	-103.8395516
	Nailed It Fed Com 231H	L4 36-26S-30E	330 FSL	409 FWL	32.0010604	-103.8419936	NWSW 25-26S-30E	2464 FSL	750 FWL	32.0128412	-103.8409067
	Nailed It Fed Com 241H	L4 36-26S-30E	305 FSL	384 FWL	32.0009916	-103,8420742	NWSW 25-26S-30E	2464 FSL	331 FWL	32.0128440	-103.8422585
	Nailed It Fed Com 245H	L4 36-26S-30E	305 FSL	434 FWL	32.0009917	-103.8419129	NWSW 25-26S-30E	2464 FSL	1170 FWL	32.0128384	-103.8395516
	Nailed It Fed Com 202H	L3 36-26S-30E	230 FSL	1840 FWL	32.0007876	-103.8373781	NESW 25-26S-30E	2465 FSL	1870 FWL	32.0128336	-103.8372932
	Nailed It Fed Com 207H	L3 36-26S-30E	230 FSL	1865 FWL	32.0007876	-103.8372974	NESW 25-26S-30E	2465 FSL	2486 FWL	32.0128294	-103.8353058
EDIALD	Nailed It Fed Com 212H	L3 36-26S-30E	205 FSL	1840 FWL	32.0007189	-103.8373780	NESW 25-26S-30E	2464 FSL	1562 FWL	32.0128357	-103.8382869
Dod	Nailed It Fed Com 217H	L3 36-26S-30E	205 FSL	1865 FWL	32.0007189	-103.8372974	NESW 25-26S-30E	2465 FSL	2178 FWL	32.0128315	-103.8362995
(Slot 2)	Nailed It Fed Com 222H	L3 36-26S-30E	230 FSL	1970 FWL	32.0007878	-103.8369587	NESW 25-26S-30E	2465 FSL	2010 FWL	32.0128327	-103.8368415
	Nailed It Fed Com 232H	L3 36-26S-30E	205 FSL	1970 FWL	32.0007190	-103.8369587	NESW 25-26S-30E	2465 FSL	2430 FWL	32.0128298	-103.8354865
	Nailed It Fed Com 235H	L3 36-26S-30E	230 FSL	1945 FWL	32.0007877	-103.8370394	NESW 25-26S-30E	2464 FSL 1590 FW		32.0128355	-103.8381966
· .	Nailed It Fed Com 242H	L3 36-26S-30E	205 FSL	1945 FWL	32.0007190	-103.8370393	NESW 25-26S-30E	2465 FSL	2010 FWL	32.0128327	-103.8368415
	Nailed It Fed Com 203H	L2 36-26S-30E	701 FSL	2225 FEL	32.0020849	-103.8332991	NWSE 25-26S-30E	2465 FSL	2178 FEL	32.0128248	-103.8331593
	Nailed It Fed-Com 206H-	L2 36 -265-30E	701 FSL	-2200 FEL-	32.0020849	103.8332184-	2465_FSL1562_FEL32.0128206_			-103.8311720	
2	Nailed It Fed Com 213H	L2 36-26S-30E	676 FSL	2225 FEL	32.0020162	-103.8332990	-NWSE 25-26S-30E	2465 FSL	2486 FEL	32.0128269	-103.8341530
W2E2	Nailed It Fed Com 216H	L2 36-26S-30E	676 FSL	2200 FEL	32.0020162	-103.8332184	NWSE 25-26S-30E	2465 FSL	1870 FEL	32.0128227	-103.8321657
Pad	Nailed It Fed Com 223H	L2 36-26S-30E	701 FSL	2120 FEL	32.0020850	-103.8329603	NWSE 25-26S-30E	2465 FSL	2430 FEL	32.0128266	-103.8339724
(Slot 3)	Nailed It Fed Com 226H	L2 36-26S-30E	701 FSL	2070 FEL	32.0020851	-103.8327990	NWSE 25-26S-30E	2465 FSL	1590 FEL	32.0128207	-103.8312623
	Nailed It Fed Com 233H	L2 36-26S-30E	701 FSL	2095 FEL	32.0020851	-103.8328797	NWSE 25-26S-30E	2465 FSL	2010 FEL	32.0128237	-103.8326173
1	Nailed It Fed Com 243H	L2 36-26S-30E	676 FSL	2120 FEL	32.0020163	-103.8329603	NWSE 25-26S-30E	2465 FSL	2430 FEL	32.0128266	-103.8339724
	Nailed It Fed Com 246H	L2 36-26S-30E	676 FSL	2070 FEL	32.0020164	-103.8327990	NWSE 25-26S-30E	2465 FSL	1590 FEL	32.0128207	-103.8312623
1. A. A. A.	Nailed It Fed Com 204H	L1 36-26S-30E	766 FSL	588 FEL	32.0022660	-103.8280170	NESE 25-26S-30E	2466 FSL	946 FEL	32.0128162	-103.8291846
	Nailed It Fed Com 208H	L1 36-26S-30E	766 FSL	563 FEL	32.0022660	-103.8279364	NESE 25-26S-30E	2466 FSL	331 FEL	32.0128119	-103.8272004
5252	Nailed It Fed Com 214H	L1 36-26S-30E	741 FSL	588 FEL	32.0021972	-103.8280170	NESE 25-26S-30E	2465 FSL	1254 FEL	32.0128184	-103.8301783
Pad	Nailed It Fed Com 218H	L1 36-265-30E	741 FSL	563 FEL	32.0021973	-103.8279363	NESE 25-26S-30E	2466 FSL	638 FEL	-32.0128141	-103.8281909
(Slot(4))	Nailed It Fed Com 224H	L1 36-26S-30E	766 FSL	668 FEL	32.0022659	-103.8282751	NESE 25-26S-30E	2466 FSL	750 FEL	32.0128149	-103.8285522
	Nailed It Fed Com 234H	L1 36-26S-30E	741 FSL	668 FEL	32.0021971	-103.8282750	NESE 25-26S-30E	2466 FSL 331 FEL		32.0128119	-103.8272004
	Nailed It Fed Com 236H	L1 36-26S-30E	766 FSL	693 FEL	32.0022658	-103.8283557	NESE 25-26S-30E	2465 FSL	1170 FEL	32.0128178	-103.8299072
	Nailed It Fed Com 244H	L1 36-26S-30E	741 FSL	693 FEL	32.0021971	-103.8283557	NESE 25-26S-30E	2466 FSL	750 FEL	32.0128149	-103.8285522

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Approval Date: 02/24/2020

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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 made by the Authorized Officer atter 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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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)

Cave/Karst:

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.

CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road. 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.

B. 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.

C. 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

1

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.

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

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

Crowning

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

Ditching

Ditching shall be required on both sides of the road.

Turnouts

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

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill 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.

Cross Section of a Typical Lead-off Ditch 1 Minimum Depth Natural Ground Level Berm (on) Down Slope. Side?

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 %);

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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

Cattle guards

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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Seed Mixture 2, for Sandy 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

	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristiegrass (Setaria macrostachya)	2.0

*Pounds of pure live seed:

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

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PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Tap Rock Operating LLC
WELL NAME & NO.:	Nailed It Fed Com 213H
SURFACE HOLE FOOTAGE:	230 FSL / 1840 FWL
BOTTOM HOLE FOOTAGE	2465 FSL / 1870 FWL
LOCATION:	Sec 36 / 26S / 30E / NMP
COUNTY:	Eddy County, New Mexico



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 920 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of $\underline{8}$ hours or 500 pounds compressive strength, whichever is greater. (This is to

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include the lead cement)

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

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

- 2. The minimum required fill of cement behind the 9+5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - In <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 $7\frac{5}{8}$ 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.

Page 2 of 7

- 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 an 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</u> on the sign.

GENERAL REQUIREMENTS

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

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

Eddy County

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

Lea County

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

Page 3 of 7

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 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.

Page 4 of 7

- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <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.

Page 5 of 7

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for

Page 6 of 7

the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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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.

Page 7 of 7



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Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

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NAME: Brian Wood	•	Signed on: 08/30/2019	
Title: President	,	· · · ·	
Street Address: 37 Vera	no Looop		
City: Santa Fe	State: NM	Zip: 87508	
Phone: (505)466-8120			
Email address: afmss@p	permitswest.com		
Field Represe	ntative		
Representative Name:		,	
Street Address:			
City:	State:	Zip:	
Phone:			
Email address:			·
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U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

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Application Data Report

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APD ID: 10400046800	Submiss	ion Date: 08/30/2019	Highlighted data
Operator Name: TAP ROCK OPERATING	LLC		reflects the most recent changes
Well Name: NAILED IT FED COM	Well Nun	n ber: 213H	Show Final Text
Well Type: CONVENTIONAL GAS WELL	Well Wor	k Type: Drill	J
Section 1 - General	······································		
APD ID: 10400046800	 Tie to previous NOS?	N Subm	ission Date: 08/30/2019
BLM Office: CARLSBAD	User: Brian Wood	Title: Preside	ent
Federal/Indian APD: FED	Is the first lease penet	rated for production Fede	ral or Indian? FED
Lease number: NMNM138850	Lease Acres: 320		
Surface access agreement in place?	Allotted?	Reservation:	
Agreement in place? NO	Federal or Indian agre	ement:	
Agreement number:			
Agreement name:			
Keep application confidential? N			
Permitting Agent? YES	APD Operator: TAP R	OCK OPERATING LLC	
Operator letter of designation:			
		4	
Operator Info			
Operator Organization Name: TAP ROCH	COPERATING LLC		
Operator Address: 602 Park Point Drive S	Suite 200		
Operator PO Box:		Zip: 80401	
Operator City: Golden Stat	e: CO		
Operator Phone: (720)460-3316			
Operator Internet Address:	, service and the service of the ser		
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Operator Name: TAP ROCK OPERATING LLC Well Name: NAILED IT FED COM

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Well Number: 213H

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	Is the proposed well in an area containing other mine	eral resources? OTHER,NATURAL GAS,OIL
	Describe other minerals: Salt	
	Is the proposed well in a Helium production area? N	Use Existing Well Pad? N New surface disturbance?
	Type of Well Pad: MULTIPLE WELL	Multiple Well Pad Name: Nailed Number: Slot 3
	Well Class: HORIZONTAL	Number of Legs: 1
	Well Work Type: Drill	
	Well Type: CONVENTIONAL GAS WELL	
	Describe Well Type:	
	Well sub-Type: INFILL	
	Describe sub-type:	
	Distance to town: 20 Miles Distance to no	earest well: 25 FT Distance to lease line: 676 FT
	Reservoir well spacing assigned acres Measurement	t: 288.4 Acres
	Well plat: Nailed_213H_C102_GCP_201908301026	512.pdf
	Well work start Date: 01/01/2020	Duration: 30 DAYS
	Section 3 - Well Location Table	
	Survey Type: RECTANGULAR	
	Describe Survey Type:	
	Datum: NAD83	Vertical Datum: NAVD88
	Survey number: 11401	Reference Datum: GROUND LEVEL
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Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 213H

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Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	County State		Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
PPP	820	FSL	248	FEL	26S	30E	36	Aliquot	32.00241	-	EDI	D	NEŴ	NEW	s	STATE	-	117	112	Y
Leg			6					NWNE		103.8341	Y		MEXI	MEXI			817	21	05	
#1-2										34			co	co			7			
EXIT	246	FSL	248	FEL	26S	30E	25	Aliquot	32.01282	-	EDI	D	NEW	NEW	F	NMNM	-	155	112	Y
Leg	5		6					NWSE.	69	103.8341	Y		MEXI	MEXI		138850	819	11	21	
#1										53			со	co			3			
BHL	246	FSL	248	FEL	26S	30E	25	Aliquot	32.01282	-	EDI	D	NEW	NEW	F	NMNM	-	155	112	Y
Leg	5		6					NWSE	69	103.8341	Y		MEXI	MEXI		138850	819	11	21	
#1										53			со	со			3			

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LOCATION & ELEVATION VERIFICATION MAP







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



Drilling Plan Data Report

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02/25/2020

APD ID: 10400046800

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Type: CONVENTIONAL GAS WELL

Submission Date: 08/30/2019

Highlighted data reflects the most recent changes

Well Number: 213H

Show Final Text

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			· · · ·	Producing
ID	Formation Name	Elevation	Depth	Depth		Lithologies	Mineral Resources	Formation
527706	QUATERNARY	3028	Ö	Ö		OTHER : None	NONE	N
527707	RUSTLER	2185	843	843		ANHYDRITE	OTHER : Salt	N
527708	SALADO	1633	1395	1395		SALT	OTHER : Salt	N
527709	BASE OF SALT	-406	3434	3445		SALT	OTHER : Salt	N
527710	LAMAR	-618	3646	3652		LIMESTONE	NONE	N
527711	BELL CANYON	-631	3659	3665		SANDSTONE	NATURAL GAS, OIL	N
527712	CHERRY CANYON	-1801	4829	4854		SANDSTONE	NATURAL GAS, OIL	N .
527713	BRUSHY CANYON	-2754	5782	5816	,	SANDSTONE	NATURAL GAS, OIL	N
527714	BONE SPRING	-4503	. 7531	7574		LIMESTONE	NATURAL GAS, OIL	N
527715	BONE SPRING 1ST	-5448	8476	8519		SANDSTONE	NATURAL GAS, OIL	N
527716	BONE SPRING 2ND	-5798	8826	8869		SANDSTONE	NATURAL GAS, OIL	N
527717	BONE SPRING 3RD	-6682	9710	9753		SANDSTONE	NATURAL GAS, OIL	N
527718	WOLFCAMP	-7741	10769	10813		OTHER : Shale	NATURAL GAS, OIL	Ý

Section 2 - Blowout Prevention

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 213H

Pressure Rating (PSI): 5M

Rating Depth: 15000

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Equipment: 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. **Requesting Variance?** YES

Variance request: Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate 1. Intermediate 2, and Production Strings. Tap Rock requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Tap Rock requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, after drilling surface, 1st intermediate, and 2nd intermediate hole sections and cementing 2nd intermediate casing, a 10M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test. Tap Rock requests a variance to run 7-5/8" BTC casing inside 9-5/8" BTC casing will be less than the 0.422" stand off regulation. Through conversations with BLM representatives, Tap Rock has received approval for this design as long as the 7-5/8" flush casing was run throughout the entire 300' cement tie back section between 9-5/8" and 7-5/8" casing. Tap Rock requests approval to possibly utilize a spudder rig to drill and set casing for the surface interval on this well. The spudder rig will be possibly utilized in order to reduce cost and save time. The wellhead will be installed and tested as soon as the surface casing is cut off per the existing COAs. A blind flange with the same pressure rating as the wellhead will be installed on the well. Once the spudder rig is removed, Tap Rock will secure the wellhead area by placing a guard rail around the cellar. Pressure will be monitored and a means for intervention will be maintained while the drilling rig is not over the well. Spudder rig operations are expected to take 2-3 days per well. Three wells on the pad will have surface casing set by the spudder rig as a part of this operation. The BLM will be notified 24 hours prior to commencing spudder rig operations. Within 90 days of the departure of the spudder rig, drilling operations will recommence on these wells. This rig will have a BOP stack equal or greater to the pressure rating required in the COAs. The BLM will be notified 24 hours before the larger rig moves on the pre-set wells. Tap Rock will have supervision on the spudder rig to ensure compliance with all BLM and NMOCD regulations.

Testing Procedure: 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.

Choke Diagram Attachment:

Nailed_Choke_032918_20190830104239.pdf

BOP Diagram Attachment:

5M_BOP_Stack_20200201090146.pdf

Section 3 - Casing

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Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing tength MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF

Operator Name: TAP ROCK OPERATING LLC Well Name: NAILED IT FED COM

Well Number: 213H

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Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	920	0	920	3028	2108	920	J-55	54.5	BUTT	1.13	1.15	DRY	1.6	DRY	1.6
2	INTERMED IATE	8.75	7.625	NEW	API	N	0	3420	0	3406	3009	-378	3420	P- 110	29.7	BUTT	1.13	1.15	DRY	1.6	DRY	1.6
3	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3720	0	3706	3009	-678	3720	J-55	40	BUTT	1.13	1.15	DRY	1.6	DRY	1.6
4	PRODUCTI ON	6.75	5.5	NEW	API	N	0	10350	0	10307	3009	-7279	10350	P- 110	20	OTHER - TXP	1.13	1.15	DRY	1.6	DRY	1.6
5	INTERMED IATE	8.75	7.625	NEW	API	Y	3420	10550	3406	10507	-378	-7479	7130	Р- 110	29.7	OTHER - W- 513	1.13	1.15	DRY	1.6	DRY	1.6
6	PRODUCTI ON	6.75	5.0	NEW	API	Y	10350	15510	10307	11221	-7279	-8193	5160	P- 110	18	OTHER - W- 521	1.13	1.13	DRY	1.6	DRY	1.6

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

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Nailed_Casing_Design_Assumptions_20190830104312.pdf

perator Name: TAP ROCK OPERATING LLC	
Vell Name: NAILED IT FED COM Well Nur	nber: 213H
<u> </u>)
asing Attachments	
Casing ID: 2 String Type: INTERMEDIATE	
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Nailed_Casing_Design_Assumptions_20190830104359.pdf	
Casing ID: 3 String Type:INTERMEDIATE	
Inspection Document:	
Spec Document:	
Taparad String Space	
Tapered Sumy Spec.	· · · · ·
Casing Design Assumptions and Worksheet(s):	
Nailed_Casing_Design_Assumptions_20190830104329.pdf	
Casing ID: 4 String Type: PRODUCTION	
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Nailed_Casing_Design_Assumptions_20190830104502.pdf	
Nailed_5.5in_TXP_Casing_Spec_20190830104508.PDF	
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Operator Name: TAP ROCK OPERATING LL	С
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Well Name: NAILED IT FED COM

Well Number: 213H

Casing Attachments

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Casing ID: 5 String Type: INTERMEDIATE	r
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Nailed_7.625in_W513_Casing_Spec_20190830104436.pdf	
Casing Design Assumptions and Worksheet(s):	
Nailed_Casing_Design_Assumptions_20190830104442.pdf	
Casing ID: 6 String Type: PRODUCTION	
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Nailed_5in_W521_Casing_Spec_20190830104535.pdf	
Casing Design Assumptions and Worksheet(s):	
Nailed_Casing_Design_Assumptions_20190830104542.pdf	(

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead	-	0	0.	0	0	0	0	0	None	0
PRODUCTION	Tail		9850	1551 0	464	1.71	14.2	793	25	Class H	Fluid Loss + Dispersant + Retarder + LCM
INTERMEDIATE	Lead		0	0	0	0	0	0 ′	0	None	None

PRODUCTION	Lead	0	0	0	0	0	0	0	None	None	
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Operator Name: TAP ROCK OPERATING LLC Well Name: NAILED IT FED COM

Well Number: 213H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	598	462	1.8	13.5	831	100	Class C	None
SURFACE	Tail		598	920	331	1.35	14.8	447	100	Class C	5% NCI + LCM
INTERMEDIATE	Lead		0	2976	705	2.18	12.7	1538	65	Class C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
INTERMEDIATE	Tail		2976	3720	289	1.33	14.8	384	65	Class C	5ồNaCl + LCM
INTERMEDIATE	Lead		3420	9550	290	2.87	11.5	831	35	ТХІ	Fluid Loss + Dispersant + Retarder + LCM
INTERMEDIATE	Tail		9550	1055 0	107	1.27	15	136	35	Class H	Fluid Loss + Dispersant + Retarder + LCM

Section 5 - Circulating Medium

Circulating Medium Table

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: 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.

Describe the mud monitoring system utilized: Electronic Pason mud monitor system complying with Onshore Order 1 will be used.

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	;	Additional Characteristics
0	920	OTHER : Fresh water spud mud	8.3	8.3								
920	3720	OTHER : Brine Water	10	10								
3720	1055 0	OTHER : Fresh water/cut brine	9	9								

Operator Name: TAP ROCK OPERATING LLC Well Name: NAILED IT FED COM

Well Number: 213H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1055 0	1551 0	OIL-BASED MUD	11.5	11.5							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

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.

CBL w/ CCL from as far as gravity will let it fall to TOC. List of open and cased hole logs run in the well:

Coring operation description for the well:

No DSTs or cores are planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6700

Anticipated Surface Pressure: 4231

Anticipated Bottom Hole Temperature(F): 160

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES Hydrogen sulfide drilling operations plan:

Nailed_Slot3_H2S_Plan_20190830104922.pdf

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 213H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Nailed_213H_Horizontal_Plan_20190830104939.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

CoFlex_Certs_20190830105008.pdf

Nailed_213H_Anticollision_Report_20190830105047.pdf Nailed_213H_Drill_Plan_v2_013120_20200201090245.pdf Wellhead_4T_012720_20200201090300.pdf

Other Variance attachment:

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5,000 psi BOP Stack



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For the latest performance data, always visit our website: www.tenaris.com

Wedge 513®

Printed on: 01/30/2018



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Outside Diameter Wall Thickness Grade	7.625 in. 0.375 in. P110*	Min. Wall Thickness Connection OD Option Drift Type	87.5% REGULAR API Standard Casing	(*) Grade P110 COUPLING Body: White 1st Band: - 2nd Band: - 3rd Band: -	PIPE BODY 1st Band: White 2nd Band: - 3rd Band: - 4th Band: -
		* t			
		· · · · · · · · · · · · · · · · · · ·		1965 B	
GEOMETRY				· · ·	
Nominal OD	7.625 in.	Nominal Weight	29.70 lbs/ft	Drift	6.75 in.
Nominal ID	6.875 in.	Wall Thickness	0.375 in.	Plain End Weight	29.06 lbs/ft
OD Tolerance	API	1 1 1			
PERFORMANCE		4	·	1	
Body Yield Strength	940 x1000 lbs	Internal Yield	9470 psi	SMYS	110000 psi
Collapse	5350 psi		α Ο -		
GEOMETRY					
Connection OD	7.625 in.	Connection ID	6.800 in.	Make-up Loss	4.420 in
			·····		
Threads per in	3.29	Connection OD Option	REGULAR		
PERFORMANCE	·····			, <i>t</i>	
Tension Efficiency	60.0 %	Joint Yield Strength	564.000 x1000 lbs	Internal Pressure Capacity	9470.000 psi
Compression Efficiency	75.2 %	Compression Strength	706.880 x1000 lbs	Max. Allowable Bending	39.6 °/100 ft
External Pressure Capac	ity 5350.000 psi				
MAKE-UP TORC	UES			<u> </u>	1
Minimum	9000 ft-lbs	Optimum	10800 ft-lbs	Maximum	15800 ft-lbs
OPERATION LIN	IIT TORQUES		···	<u></u>	
Operating Torque	47000 ft-lbs	Yield Torque	70000 ft-lbs	X	·····

Notes

This connection is fully interchangeable with:

Wedge 523® - 7.625 in. - 29.7 lbs/ft

Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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For the latest performance data, always visit our website: www.tenaris.com

Wedge 521®

Printed on: 05/22/2018



Outside Diameter	5.000 in.	Min. Wall Thickness	87.5%	(*) Grade P110- IC	
Wall Thickness	0.362 in.	Connection OD Option	REGULAR	COUPLING	PIPE BODY
Grade	P110-IC*	Drift	API Standard	Body: White 1st Band: -	1st Band: White 2nd Band: Pale
		Туре	Casing	2nd Band: - 3rd Band: -	Green 3rd Band: - 4th Band: -

			· · · · · · · · · · · · · · · · · · ·		
GEOMETRY				,	
Nominal OD	5.000 in.	Nominal Weight	18.00 lbs/ft	Drift	4.151 in.
Nominal ID	4.276 in.	Wall Thickness	0.362 in.	Plain End Weight	17.95 lbs/ft
OD Tolerance	API				
PERFORMANCE					
Body Yield Strength	580 x1000 lbs	Internal Yield	13940 psi	SMYS	110000 psi
Collapse	14840 psi	. <u>.</u>			
CEOMETRY				*	·
GEOWIETRT		1		·····	
Connection OD	5.359 in.	Connection ID	4.226 in.	Make-up Loss	3.620 in.
Threads per in	3.36	Connection OD Option	REGULAR		
PERFORMANCE		ž			
Tension Efficiency	73.8 %	Joint Yield Strength	428.040 x10 lbs	00 Internal Pressure Capacity	13940.000 psi
Compression Efficiency	· 88.7 %	Compression Strength	514.460 x10 lbs	00 Max. Allowable Bending	74.5 °/100 ft
External Pressure Capacity	14840.000 psi			· · · · · · · · · · · · · · · · · · ·	
MAKE-UP TORQUES	5				
Minimum	6100 ft-lbs	Optimum	7300 ft-lbs	Maximum	10700 ft-lbs
OPERATION LIMIT T	ORQUES			•	
Operating Torque	17300 ft-lbs	Yield Torque	26000 ft-lbs	1 3	
				5	

Notes

This connection is fully interchangeable with:

. Wedge 521® - 5 in. - 13 / 15 lbs/ft

Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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• Gas gravity 0.7

• Pore pressure gradient .468 psi/ft above the Wolfcamp, .676 psi/ft Wolfcamp and below

- .676 psi/ft fracture gradient above the Wolfcamp, .832 psi/ft Wolfcamp and below.
- 60°F average surface temperature and 1.5°/100ft temperature gradient
- Cementing loads based on slurries listed in Cement table, and post cement static loading
- Strings landed at neutral weight
- Gas kicks assumed at each casing shoe
- External pressure calculated with fluid gradients and pore pressure
- Production string load tested with completion fluid density and rate
- Tubing leak tested in production scenario

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- Production string load tested with completion fluid density and rate
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5.5", 20#, P-110, TXP connection (modified buttress connection that provides a torque rating of nearly 24000ft-lbs)

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	Outside 5.500 in. Diameter	Min. Wali Thickness	87.5%		•	Clear Filters
	14(-1)	Drift	API Standard			Compare .
	Wall 0.361 in. Thickness	Туре	Casing			Request info
	Grade <u>P110</u>	Connection OD			\	NFORMATION
a ⊙:		Option	REGOLAR		;	 Blanking Dimensions Connection's Page
-				,	د د	Brochure Datasheet Manual
	PIPE BODY DATA					en je ba antar en statutente
	GEOMETRY		• • • • • • • • • • • • • • • • • • •			
	Nominal OD	5.500 in.	Nominal Weight	20 lbs/ft	Drift	4.653 in.
•	·	4.770 in	High Thisters	0.204.5-		10 00 00 00
· ,		4.776 11.	wai inckness	0.301 10.	Frain End weight	19.83 IDS/II
	OD Tolerance	API	· · · · · · · · · · · · · · · · · · ·			
	PERFORMANCE				·····	مەرەھەرد ھە رەپ ، ب
1	Body Yield Strength	641 x1000 lbs	Internal Yield	12640 psi	SMYS	110000 psi
	Collarse	11100 osi		<u> </u>		
	CONNECTION DATA					
		14 C. P.		1. Set 21 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
01	GEOMETRY					*
	GEOMETRY Connection OD	6.100 in.	Coupling Length	9.450 in.	Connection ID	4.766 în.
	GEOMETRY Connection OD	6.100 in,	Coupling Length	9.450 in.	Connection ID	4.766 în.
	GEOMETRY Connection OD Make-up Loss	6.100 in. 4.204 in.	Coupling Length Threads per in	9.450 in.	Connection ID Connection OD Option	4.766 in, REGULAR
	GEOMETRY Connection OD Make-up Loss	6.100 in. 4.204 in.	Coupling Length Threads per in	9.450 in.	Connection ID Connection OD Option	4.766 in. REGULAR
	GEOMETRY Connection OD Make-up Loss PERFORMANCE Tension Efficiency	6.100 in. 4.204 in.	Coupling Length Threads per in	9.450 in.	Connection ID Connection OD Option	4.766 in, REGULAR
	GEOMETRY Connection OD Make-up Loss PERFORMANCE Tension Efficiency	6.100 in. 4.204 in. 100.0 %	Coupling Length Threads per in Joint Yield Strength	9.450 in. 5 641.000 x1000 hts	Connection ID Connection OD Option Internal Pressure Capacity ^[1]	4.766 in. REGULAR 12640.000 psi
	GEOMETRY Connection OD Make-up Loss PERFORMANCE Tension Efficiency Compression Efficiency	6.100 in. 4.204 in. 100.0 %	Coupling Length Threads per in Joint Yield Strength Compression Strength	9.450 in. 5 641.000 x 1000 lbs	Connection ID Connection OD Option Internal Pressure Capacity ^[1] Max. Allowable Bending	4.766 in. REGULAR 12640.000 psi 92 */100 ft
	GEOMETRY Connection OD Make-up Loss PERFORMANCE Tension Efficiency Compression Efficiency External Pressure	6.100 in. 4.204 in. 100.0 % 100 %	Coupling Length Threads per in Joint Yield Strength Compression Strength	9.450 in. 5 641.000 × 1000 lbs	Connection ID Connection OD Option Internal Pressure Capacity ^[1] Max. Allowable Bending	4.766 in, REGULAR 12640.000 psi 92 */100 ft
	GEOMETRY Connection OD Make-up Loss PERFORMANCE Tension Efficiency Compression Efficiency External Pressure Capacity	6.100 in. 4.204 in. 100.0 % 100 %	Coupling Length Threads per in Joint Yield Strength Compression Strength	9.450 in. 5 641.000 x1000 lbs	Connection ID Connection OD Option Internal Pressure Capacity ^[1] Max. Allowable Bending	4.766 in, REGULAR 12640.000 psi 92 */100 ft
	GEOMETRY Connection OD Make-up Loss PERFORMANCE Tension Efficiency Compression Efficiency External Pressure Capacity MAKE-UP TORQUES	6.100 in. 4.204 in. 100.0 % 100 %	Coupling Length Threads per in Joint Yield Strength Compression Strength	9.450 in, 5 641.000 × 1000 lbs	Connection ID Connection OD Option Internal Pressure Capacity ^[1] Max, Allowable Bending	4.766 in. REGULAR 12640.000 psi 92 */100 ft
	GEOMETRY Connection OD Make-up Loss PERFORMANCE Tension Efficiency Compression Efficiency External Pressure Capacity MAKE-UP TORQUES Minimum	6.100 in. 4.204 in. 100.0 % 100 % 11100.000 psi	Coupling Length Threads per in Joint Yield Strength Compression Strength	9.450 in. 5 641.000 × 1000 lbs 641.000 × 1000 lbs	Connection ID Connection OD Option Internal Pressure Capacity ^[1] Max. Allowable Bending	4.766 in, REGULAR 12640.000 pst 92 '/100 ft 13770 ft-lbs
	GEOMETRY Connection OD Make-up Loss PERFORMANCE Tension Efficiency Compression Efficiency External Pressure Capacity MAKE-UP TORQUE S Minimum	6.100 in. 4.204 in. 100.0 % 100 % 11100.000 psi 11270 ft-lbs	Coupling Length Threads per in Joint Yield Strength Compression Strength Optimum	9.450 in. 5 641.000 × 1000 lbs 641.000 × 1000 lbs 12520 ft-lbs	Connection ID Connection OD Option Internal Pressure Capacity ^[1] Max. Allowable Bending Maximum	4.766 in, REGULAR 12640.000 psi 92 */100 ft C 13770 ft-lbs
	GEOMETRY Connection OD Make-up Loss PERFORMANCE Tension Efficiency Compression Efficiency External Pressure Capacity MAKE-UP TORQUES Minimum	6.100 in. 4.204 in. 100.0 % 100 % 11100.000 psi 11270 ft-lbs DRQUES 21500 ft-lbs	Coupling Length Threads per in Joint Yield Strength Compression Strength Optimum	9.450 in. 5 641.000 × 1000 lbs 641.000 × 1000 lbs 12520 ħ-lbs	Connection ID Connection OD Option Internal Pressure Capacity ^[1] Max. Allowable Bending Maximum	4.766 in, REGULAR 12640.000 psi 92 '/100 ft 13770 ft-lbs

- Gas gravity 0.7
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- External pressure calculated with fluid gradients and pore pressure
- Production string load tested with completion fluid density and rate
- Tubing leak tested in production scenario



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 Well Control Equipment:

• See Drilling Operations Plan Schematics

6 Communication:

- While working under masks chalkboards will be used for communications
- Hand signals will be used where chalk board is inappropriate
- Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

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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							



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.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



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Tap Rock Resources, LLC

Eddy County, NM (NAD 83 NME) (Nailed It) Sec-36_T-26-S_R-30-E Nailed It Fed Com #213H

OWB

Plan: Plan #1

Standard Planning Report

22 July, 2019



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Intrepid Planning Report



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Database:	EDM	5000.15 Singl	le User Db		Local C	o-ordinate	eference: Well Nailed	I It Fed Com #213H
Company:	Tap R	ock Resource	es, LLC		TVD Ref	erence:	KB @ 3054	1.Ousft
Project:	Eddy	County, NM (NAD 83 NME	E) ·	MD Refe	erence:	KB @ 3054	1.Ousft
Site:	(Naile	d It) Sec-36_	T-26-S_R-30	-E	North R	eference:	Grid	
Well:	Naileo	d It Fed Com ≉	#213H		Survey	Calculation	Method: Minimum C	Curvature
Wellbore:	OWB							
Design:	Plan #	¥1						-
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Map System:	US Stat	e Plane 1983		,	System D	atum:	Mean Sea Le	vel
Geo Datum: Map Zone:	North Ar New Me	merican Datur exico Eastern 2	n 1983 Zone					
Site	(Nailec	1 It) Sec- <u>36_</u> T	-26-S_R-30-	E				
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From:	Mag	b	Easti	na:	693.	516.00 usft	Longitude:	103° 50' 32 687 W
Position Uncertain	nty:	0.0	usft Siot F	Radius:	,	13-3/16 "	Grid Convergence:	0.26 °
Well	Nailed	It Fed Com #2	21 3 H					
Well Position	+N/-S	360.0	Dusft No	orthing:		364,831.0	usft / Latitude:	32° 0' 7.254 N
	+E/-W	2,824.0	0usft Ea	isting:		696,340.0	usft Longitude:	103° 49' 59.872 W
Position Uncertair	nty	0.0	Dusft W	ellhead Elev	vation:		Ground Leve	l: 3,028.0 usft
Wellbore	OWB							
Magnetics	Мос	del Name	Sample	e Date	Declina	ation	Dip Angle	Field Strength
				3.	(°)		(°)	(nT)
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	Frogram		01122113	3				
Depth From	Depth	n To			T		D	
(usit)	(usi	ii) Survey	(wellbore)		I OOI Name		Remarks	
1 0.0	15,5	10.3 Plan #1	(OWB)		MWD			
						D - Standard		
Plan Sections								
Measured	, , , , , , , , , , , , , , , , , , ,		Vertical	4 ¹		Dogleg	Build Ture	
Depth Incli	nation	Azimuth	Depth	+N/-S	+E/-W	Rate	Rate Rate	TFO
(usft) ((°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft) - (°/100usft	(°) Target
		<u></u>	<u></u>	,	····	<u></u>		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00 0.0	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00 0.0	
2,399.9	8.00	204.06	2,398.6	-25.4	-11.4	2.00	2.00 0.0	0 204.06
6,543.0	8.00	204.06	6,501.4	-551.8	-246.4	0.00	0.00 0.0	0.00
6,942.9	0.00	0.00	6,900.0	-577.2	-257.7	2.00	-2.00 0.0	
10,674.9	0.00	0.00	10,632.0	-577.2	-257.7	0.00	0.00 0.0	0.00
11,572.6	89.77	359.68	11,205.0	-6.6	-260.9	10.00	10.00 -0.0	4 359.68
	00 7-	AFA	44 004 0	0 000 0				
15,511.2	89.77	359.68	11,221.0	3,932.0	-283.0	0.00	0.00 0.0	0 0.00 PBHL (Nailed It Fec

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Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate	Reference:	Well Nailed It Fed Com #213H
Company:	Tap Rock Resources, LLC	TVD Reference:	and the state of the second	KB @ 3054.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:		KB @ 3054.0usft
Site:	(Nailed It) Sec-36_T-26-S_R-30-E	North Reference:		Grid
Well:	Nailed It Fed Com #213H	Survey Calculation	Method:	Minimum Curvature
Wellbore:	OWB			
Design:	Plan #1			

Planned Survey

	Measured			Vortical			Vortical	Doglag	Build	Term	
	Denth	Inclination	Azimuth	Denth	TW/ C	LE/W	Section	Dogleg	Bate	Pate	
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	•
		0.00	0.00			(
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
	100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
	200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
	300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
	400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
	500.0	0.00	0.00	500.0	0.0	0.0	0.0	. 0.00	0.00	0.00	
	600.0	0.00	0.00	600.0	0.0	0.Ò	0.0	0.00	0.00	0.00	
	700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
	800.0	0.00	0 00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
	843.0	0.00	0.00	843.0	0.0	0.0	0.0	0.00	0.00	0.00	
	Rustler An	hvdrite				0.0		0.00	0.00	0.00	
	000.0	0.00	0.00	000.0				0.00			
l`	900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,300.0	0.00	0.00	1,300.0	0.0	• 0.0	0.0	0.00	0.00	0.00	
	1,395.0	0.00	0.00	1,395.0	· 0.0	0.0	0.0	0.00	0.00	0.00	
	Top Salt						· .				
	1,400.0	0.00	0.00	1,400.0	0.0	0.0	~ 0.0	0.00	0.00	0.00	
	1.500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,600.0	0.00	0.00	1 600 0	0.0	40 O	0.0	0.00	0.00	0.00	
	1 700 0	0.00	0.00	1 700 0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,000,0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	· 0.00	
	1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
	NUDGE - B	Build 2.00									
	2,100.0	2.00	204.06	2,100.0	-1.6	-0.7	-1.6	2.00	2.00	0.00	
	2,200.0	4.00	204.06	2,199.8	-6.4	-2.8	-6.4	2.00	2.00	0.00	
	2.300.0	6.00	204.06	2,299.5	-14.3	-6.4	-14.3	2.00	2.00	0.00	
	2,399.9	8.00	204.06	2.398.6	-25.4	-11.4	-25.4	2.00	2.00	0.00	
	HOLD - 414	43.2 at 2399.9	MD	,							
	2,500.0	8.00	204.06	2.497.7	-38.2	-17.0	-38.1	(0 00	0.00	0.00	
	2,600.0	8.00	204.06	2 596 8	-50.9	-22 7	-50.7	0.00	0.00	0.00	
	2,700.0	8.00	204.06	2.695.8	-63.6	-28.4	-63.4	0.00	0.00	0.00	
	2 800 0	8.00	204.06	2 704 9	76.0	24.4	70.4	0.00	0.00	0.00	
	2,600.0	8.00	204.06	2,794.8	-76.3	-34.1	-76.1	. 0.00	0.00	0.00	
	2,900.0	8.00	204.06	2,893.8	-89.0	-39.7	-88.8	0.00	0.00	0.00	
	3,000.0	8.00	204.06	2,992.9	-101.7	-45.4	-101.4	0.00	0.00	0.00	
	3,100.0	8.00	204.06	3,091.9	-114.4	-51.1	-114.1	0.00	0.00	0.00	
	3,200.0	8.00	204.06	3,190.9	-127.1	-56.7	-126.8	0.00	0.00	0.00	
	3,300.0	8.00	204.06	3,289.9	-139.8	-62.4	-139.4	0.00	0.00	0.00	
	3,400.0	8.00	204.06	3,389.0	-152.5	-68.1	-152.1	0.00	0.00	0.00	
	3,445.5	8.00	204.06	3,434.0	-158.3	-70.7	-157.9	0.00	0.00	0.00	
	Base Salt			,							
	3 500 0	8.00	204.06	3 488 0	-165.2	-73.8	-164.8	0.00	0.00	0.00	
	3,600,0	8.00	204.06	3 587 0	-177 9	-79.4	-177 5	0.00	0.00	0.00	
	0,000.0	0.00	201.00	0,007.0	111.0	70.4	171.0	0.00	0.00	0.00	
	3,052.5	8.00	204.06	3,639.0	-184.6	-82.4	-184.1	0.00	0.00	0.00	
	Delaware N	viountain Gp -	Bell Canyon	0.040.0	405.5	00.0	405.0	0 Á0	0.00	0.00	
	3,059.5	8.00	204.06	3,646.0	-185.5	-82.8	-185.0	0.00	0.00	0.00	
		·	204.00	0.054.0	400.4	00 4	405.0	~ ~ ~			
	3,664.6	8.00	204.06	3,651.0	-186.1	-83.1	-185.6	0.00	0.00	0.00	
·	Ramsey Sa	and				.					
	3,700.0	8.00	204.06	3,686.1	-190.6	-85.1	-190.1	0.00	0.00	0.00	
	3,800.0	8.00	204.06	3,785.1	-203.3	-90.8	-202.8	0.00	0.00	0.00	
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Intrepid Planning Report *



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Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Nailed It Fed Com #213H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3054.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB @ 3054.0usft
Site:	(Nailed It) Sec-36_T-26-S_R-30-E	North Reference:	Grid
Well:	Nailed It Fed Com #213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB :		
Design:	Plan #1		

Planned	Surv	ey.

3900 800 20405 38841 -2160 964 -2115 000 0.00 0.00 4,000 8.00 20405 38831 -2287 -1073 -2408 0.00 0.00 0.00 0.00 4,000 8.00 20405 4,1812 -2351 -1135 -2555 0.00 0.00 0.00 0.00 4,000 8.00 20405 4,1812 -2785 1748 -2788 0.00 0.00 0.00 0.00 4,5000 8.00 20405 4,4733 -2722 -1305 -2915 0.00 0.00 0.00 0.00 4,5000 8.00 20405 4,4773 -3303 1.475 -3305 0.00		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)
4,000.0 8.00 204.06 3,983.1 -228.7 -102.1 -228.1 0.00 0.00 0.00 4,200.0 8.00 204.06 4,181.2 -284.1 -117.8 -265.5 0.00 0.00 0.00 4,400.0 8.00 204.06 4,280.2 -286.8 -119.1 -266.2 0.00 0.00 0.00 4,400.0 8.00 204.06 4,478.3 -279.5 -124.8 -278.6 0.00 0.00 0.00 4,600.0 8.00 204.06 4,677.3 -304.9 -136.1 -316.2 0.00 0.00 0.00 4,600.0 8.00 204.06 4,677.4 -330.3 -147.5 -328.5 0.00 0.00 0.00 4,600.0 8.00 204.06 5,072.4 -368.5 -158.8 -358.9 0.00 0.00 0.00 0.00 5,000.0 8.00 204.06 5,171.5 -381.2 -170.2 -380.2 0.00 0.00 0.00		3,900.0	8.00	204.06	3,884.1	-216.0	-96.4	-215.5	0.00	0.00	0.00
4,100.0 8,00 224.06 4,181.2 -241.4 -107.8 -240.6 0.00 0.00 4,300.0 8,00 224.06 4,280.2 -266.8 -119.1 -265.2 0.00 0.00 0.00 4,400.0 8,00 224.06 4,478.3 -222.5 -130.5 -291.5 0.00 0.00 0.00 4,600.0 8.00 224.06 4,677.3 -304.9 -130.5 -291.5 0.00 0.00 0.00 4,600.0 8.00 224.06 4,677.3 -304.9 -130.5 -291.5 0.00 0.00 0.00 4,000.0 8.00 224.06 4,775.4 -330.3 -175.2 -336.4 0.00 0.00 0.00 4,500.0 8.00 224.06 5,772.4 -365.8 -158.2 -342.2 0.00 0.00 0.00 5,500.0 8.00 224.06 5,772.4 -368.2 -164.5 0.00 0.00 0.00 5,000.0 8.00 <t< td=""><td></td><td>4,000.0</td><td>8.00</td><td>204.06</td><td>3,983,1</td><td>-228.7</td><td>-102.1</td><td>-228.1</td><td>0.00</td><td>0.00</td><td>0.00</td></t<>		4,000.0	8.00	204.06	3,983,1	-228.7	-102.1	-228.1	0.00	0.00	0.00
4,200.0 8.00 204.06 4,481.2 -284.1 -113.5 -283.5 0.00 0.00 0.00 4,400.0 8.00 204.06 4,280.2 -286.8 -119.1 -286.5 0.00 0.00 0.00 0.00 4,600.0 8.00 204.06 4,473.3 -292.2 -136.1 -314.2 0.00 0.00 0.00 4,600.0 8.00 204.06 4,773.3 -304.9 -138.1 -314.8 0.00 0.00 0.00 4,600.0 8.00 204.06 4,774.4 -330.3 -147.5 -326.4 0.00 0.00 0.00 4,654.2 8.00 204.06 4,874.4 -368.6 -168.4 -375.5 0.00		4,100.0	8.00	204.06	4.082.2	-241.4	-107.8	-240.8	0.00	0.00	0.00
4300.0 8.00 204.06 4280.2 266.8 -119.1 266.2 0.00 0.00 0.00 4.500.0 8.00 204.06 4.473.3 -272.5 -124.8 278.5 0.00 0.00 0.00 0.00 4.500.0 8.00 204.06 4.577.3 -376.5 -361.6 0.00 0.00 0.00 4.700.0 8.00 204.06 4.775.4 -330.3 -147.6 -328.5 0.00 0.00 0.00 4.854.2 8.00 204.06 4.775.4 -330.3 -147.5 -328.2 0.00 0.00 0.00 5.000.0 8.00 204.06 4.874.4 -335.8 -158.2 -367.5 0.00 0.00 0.00 0.00 5.00 5.00 0.00 0.00 0.00 0.00 5.00 5.00 0.00 0.00 0.00 0.00 5.00 0.00 0.00 0.00 5.00 5.00 0.00 0.00 5.00 0.00 0.00 5.0		4,200.0	8.00	204.06	4,181,2	-254 1	-113.5	-253.5	0.00	0.00	0.00
4 400 0 8 00 24 406 4 379 3 -279 5 -124 8 -278 8 0.00 0.00 0.00 4 500 0 8 00 264 66 4 477 3 -289 5 -130 5 -291 5 0.00 0.00 0.00 4 500 0 8 00 264 66 4 477 3 -377 6 -141 5 -00 0.00 0.00 0.00 4 600 0 8 00 264 66 4 775 4 -330 2 -160 6 -338 4 0.00 0.00 0.00 4 800 0 8 00 264 66 4 874 4 -343 0 -163 2 -338 4 0.00 0.00 0.00 4 900 0 8 00 264 66 4 973 4 -363 0 -164 2 -300 0 0.00 <td< td=""><td></td><td>4,300.0</td><td>8.00</td><td>204.06</td><td>4,280.2</td><td>-266.8</td><td>-119.1</td><td>-266.2</td><td>0.00</td><td>0.00</td><td>0.00</td></td<>		4,300.0	8.00	204.06	4,280.2	-266.8	-119.1	-266.2	0.00	0.00	0.00
4,400,0 8,00 224,08 4,478,3 -229,5 -124,8 -278,8 0.00 0.00 0.00 4,000,0 8,00 244,08 4,478,3 -330,4 -136,1 -304,2 0.00 0.00 0.00 4,000,0 8,00 244,08 4,676,3 -317,6 -136,1 -304,2 0.00 0.00 0.00 4,000,0 8,00 244,08 4,775,4 -330,3 -147,6 -328,4 0.00 0.00 0.00 4,000,0 8,00 244,06 4,874,4 -343,0 -155,2 -342,2 0.00 0.00 0.00 5,000,0 8,00 244,06 4,874,4 -343,0 -155,2 -342,2 0.00 0.00 0.00 5,000,0 8,00 244,06 5,072,4 -385,6 -158,8 -354,9 0.00 0.0		4,400,0	0.00		.,	200.0		200.2	0.00	0.00	0.00
4,500,0 8,00 224,08 4,478,3 -222,2 -130,5 -291,5 0,000 0,00 0,00 4,700,0 8,00 204,08 4,676,3 -317,6 -141,8 -316,8 0,00 0,00 0,00 4,800,0 8,00 204,06 4,879,0 -337,2 -150,6 -336,4 0,00 0,00 0,00 4,864,2 8,00 204,06 4,874,4 -330,3 -153,2 -342,2 0,00 0,00 0,00 5,000,0 8,00 204,06 5,072,4 -388,5 -164,6 -367,5 0,00 0,00 0,00 5,100,0 8,00 204,06 5,272,5 -333,9 -175,8 -332,9 0,00 0,00 0,00 5,400,0 8,00 204,06 5,676,6 -441,7 -148,2 -309,9 0,00 0,00 0,00 5,400,0 8,00 204,06 5,676,6 -441,7 -148,2 -406,5 0,00 0,00 0,00 0,00		4,400.0	8.00	204.06	4,379.3	-279.5	-124.8	-278.8	0.00	0.00	0.00
4,900.0 8.00 224.06 4,877.3 -304.9 -136.1 -304.2 0.00 0.00 0.00 4,800.0 8.00 224.06 4,775.4 -330.3 -147.5 -329.5 0.00 0.00 0.00 4,864.2 8.00 224.06 4,874.4 -330.3 -147.5 -329.5 0.00 0.00 0.00 4,900.0 8.00 224.06 4,874.4 -333.0 -153.2 -3342.2 0.00 0.00 0.00 5,000.0 8.00 224.06 5,973.4 -358.5 -158.8 -354.9 0.00 0.00 0.00 5,000.0 8.00 224.06 5,270.5 -393.9 -175.8 -392.9 0.00 0.00 0.00 5,000.0 8.00 224.06 5,289.5 -438.15 -405.5 0.00 0.00 0.00 5,000.0 8.00 224.06 5,782.0 -492.9 -438.0 0.00 0.00 0.00 5,000.0 8.00 224.06 5,782.0 -492.9 -420.4 -488.3 0.00 0.00 <td< td=""><td></td><td>4,500.0</td><td>8.00</td><td>204.06</td><td>4,478.3</td><td>-292.2</td><td>-130.5</td><td>-291.5</td><td>0.00</td><td>0.00</td><td>0.00</td></td<>		4,500.0	8.00	204.06	4,478.3	-292.2	-130.5	-291.5	0.00	0.00	0.00
4,700.0 8,00 204.06 4,775.3 -377.6 -141.8 -368.8 0.00 0.00 0.00 4,854.2 8.00 204.06 4,879.0 -337.2 -150.6 -336.4 0.00 0.00 0.00 Cherry Camyon 4.900.0 8.00 204.06 4,874.4 -343.0 -153.2 -342.2 0.00 0.00 0.00 0.00 5.000.0 8.00 204.06 5.072.4 -386.5 -164.5 -367.5 0.00 0.00 0.00 5.000.0 8.00 204.06 5.171.5 -381.2 -177.8 -380.2 0.00 0.00 0.00 5.400.0 8.00 204.06 5.570.5 -393.9 -177.8 -390.2 0.00 0.00 0.00 5.500.0 8.00 204.06 5.5666.6 -444.7 -198.5 -443.6 0.00 0.00 0.00 5.600.0 8.00 204.06 5.765.6 -457.4 -204.2 -456.2 0.00 0.00 0.00 5.800.0 8.00 204.06 5.765.6 -457.4		4,600.0	8.00	204.06	4,577.3	-304.9	-136.1	-304.2	0.00	0.00	0.00
4,800.0 8,00 204.06 4,829.0 -337.2 -150.6 -338.4 0.00 0.00 0.00 Cherry Canyon		4,700.0	8.00	204.06	4,676.3	-317.6	-141.8	-316.8	0.00	0.00	·~ 0.00
4,854 2 8.00 204.05 4,829.0 -337.2 -150.6 -336.4 0.00 0.00 0.00 Cherry Canyon 8.00 204.05 4,874.4 -333.0 -153.2 -342.2 0.00 0.00 0.00 5.100.0 8.00 204.05 5.072.4 -386.5 -164.5 -367.5 0.00 0.00 0.00 5.200.0 8.00 204.06 5.270.5 -381.2 -170.2 -380.2 0.00 0.00 0.00 5.400.0 8.00 204.06 5.270.5 -393.9 -177.8 -392.9 0.00 0.00 0.00 5.500.0 8.00 204.06 5.567.6 -437.4 -141.5 -405.5 0.00 0.00 0.00 0.00 5.800.0 8.00 204.06 5.765.6 -457.4 -204.2 -458.3 0.00 0.00 0.00 5.800.0 8.00 204.06 5.765.6 -457.4 -204.2 -458.9 0.00 0.00 0.00		4,800.0) 8.00	204,06	4,775.4	-330.3	-147.5	-329.5	Q.00	0.00	0.00
Cherry Canyon 342 0.00 0.00 0.00 5.000.0 8.00 204.06 4.874.4 -336.2 -163.2 -354.2 0.00 0.00 0.00 5.100.0 8.00 204.06 5.071.5 -366.5 -164.5 -367.5 0.00 0.00 0.00 5.200.0 8.00 204.06 5.271.5 -393.9 -175.8 -390.2 0.00 0.00 0.00 5.400.0 8.00 204.06 5.271.5 -393.9 -175.8 -392.9 0.00 0.00 0.00 5.600.0 8.00 204.06 5.686.6 -444.7 -198.5 -443.6 0.00 0.00 0.00 5.700.0 8.00 204.06 5.782.0 -459.5 -205.1 -468.9 0.00 0.00 0.00 5.816.5 8.00 204.06 5.893.7 -470.1 -209.9 -468.9 0.00 0.00 0.00 6.000.0 8.00 204.06 5.893.7 -470.1		4,854.2	. 8.00	204.06	4.829.0	-337.2	-150.6	-336.4	0.00	0.00	0.00
4.9000 8.00 204.06 4.874 333.0 -163.2 -342.2 0.00 0.00 0.00 5.0000 8.00 204.06 5.072.4 -358.5 -164.5 -367.5 0.00 0.00 0.00 5.200.0 8.00 204.06 5.072.5 -381.2 -170.2 -380.2 0.00 0.00 0.00 5.400.0 8.00 204.06 5.269.5 -406.6 -181.5 -405.5 0.00 0.00 0.00 5.600.0 8.00 204.06 5.666.6 -447.4 -187.2 -418.2 0.00 0.00 0.00 5.600.0 8.00 204.06 5.765.6 -457.4 -204.2 -468.3 0.00 0.00 0.00 5.816.5 8.00 204.06 5.768.0 -459.5 -202.1 -468.3 0.00 0.00 0.00 5.816.5 8.00 204.06 5.768.6 -457.4 -204.2 -468.9 0.00 0.00 0.00 5.80		Cherry Car	ivon				•			0.00	•••
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6,500.0 8.00 204.06 6,458.8 -546.3 -243.9 -544.9 0.00 0.00 0.00 6,543.0 8.00 204.06 6,501.4 -551.8 -246.4 -550.4 0.00 0.00 0.00 DROP2.00 6,700.0 4.86 204.06 6,557.9 -558.5 -249.4 -557.1 2.00 -2.00 0.00 6,700.0 4.86 204.06 6,657.4 -567.8 -253.5 -566.4 2.00 -2.00 0.00 6,800.0 2.86 204.06 6,857.1 -576.9 -256.3 -572.5 2.00 -2.00 0.00 6,942.9 0.00 0.06 6,957.1 -577.2 -257.7 -575.8 2.00 -2.00 0.00 HOLD - 3732.0 at 6942.9 MD 7,000.0 0.00 0.00 6,957.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,200.0 0.00 7,157.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,300.0 0.00 7,257.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,500.0 0.00 7,457.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,500.0 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,500.0 0.00 7,457.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,500.0 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,500.0 0.00 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 0.00 7,691.9 0.00 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,691.9 0.00 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,691.9 0.00 0.00 7,657.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,600.0 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,800.0 0.00 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,800.0 0.00 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,800.0 0.00 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 0.00		6,400.0	8.00	204.06	6,359.8	-533.6	-238.2	-532.3	0.00	0.00	0.00
6,543.0 8.00 204.06 6,501.4 -551.8 -246.4 -550.4 0.00 0.00 0.00 DROP - 2.00 6,600.0 6.86 204.06 6,557.9 -558.5 -249.4 -557.1 2.00 -2.00 0.00 6,700.0 4.86 204.06 6,657.4 -567.8 -253.5 -566.4 2.00 -2.00 0.00 6,800.0 2.86 204.06 6,757.2 -574.0 -256.3 -572.5 2.00 -2.00 0.00 6,900.0 0.86 204.06 6,857.1 -576.9 -257.7 -575.8 2.00 -2.00 0.00 6,942.9 0.00 0.00 7,057.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,000.0 0.00 0.00 7,057.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,200.0 0.00 0.00 7,357.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,300.0 0.00 0.00 7,357.1 -577.2 -257.7		6,500.0	8.00	204.06	6,458.8	-546.3	-243.9	-544.9	0.00	0.00	0.00
DROP2.00 6,600.0 6.86 204.06 6,557.9 -558.5 -249.4 -557.1 2.00 -2.00 0.00 6,700.0 4.86 204.06 6,657.4 -567.8 -253.5 -566.4 2.00 -2.00 0.00 6,800.0 2.86 204.06 6,657.1 -576.9 -257.6 -575.5 2.00 -2.00 0.00 6,900.0 0.86 204.06 6,857.1 -576.9 -257.6 -575.5 2.00 -2.00 0.00 6,902.0 0.00 0.00 6,900.0 -577.2 -257.7 -575.8 0.00 0.00 0.00 HOLD - 3732.0 at 6942.9 MD 7000.0 0.00 7,057.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,000.0 0.00 0.00 7,057.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,200.0 0.00 7,357.1 -577.2 -257.7 -575.8 0.00 0.00 </td <td></td> <td>6,543.0</td> <td>8.00</td> <td>204.06</td> <td>6,501.4</td> <td>-551.8</td> <td>-246.4</td> <td>-550.4</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>		6,543.0	8.00	204.06	6,501.4	-551.8	-246.4	-550.4	0.00	0.00	0.00
6,600.0 6.86 204.06 6,557.9 -558.5 -249.4 -557.1 2.00 -2.00 0.00 6,700.0 4.86 204.06 6,657.4 -567.8 -253.5 -566.4 2.00 -2.00 0.00 6,800.0 2.86 204.06 6,757.2 -574.0 -256.3 -572.5 2.00 -2.00 0.00 6,900.0 0.86 204.06 6,857.1 -576.9 -257.6 -575.5 2.00 -2.00 0.00 6,942.9 0.00 0.00 6,900.0 -577.2 -257.7 -575.8 2.00 -2.00 0.00 7,000.0 0.00 0.00 6,957.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,000.0 0.00 0.00 7,057.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,300.0 0.00 7,357.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,300.0 0.00 7,357.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,573.9 <		DROP2.0	00								
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7,000.0 0.00 0.00 6,957.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,100.0 0.00 0.00 7,057.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,200.0 0.00 0.00 7,157.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,300.0 0.00 0.00 7,257.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,400.0 0.00 0.00 7,357.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,500.0 0.00 0.00 7,457.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,573.9 0.00 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,600.0 0.00 7,657.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,600.0 0.00 0.00 7,657.1 -577.2 -257.7 -575.8 0.00 0.00		HULD - 373	52.0 dl 0542.5					1			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		7,000.0	0.00	0.00	6,957.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		7,100.0	0.00	0.00	7,057.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		7,200.0	0.00	0.00	7,157.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
7,400.0 0.00 7,357.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,500.0 0.00 0.00 7,457.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,573.9 0.00 0.00 7,531.0 -577.2 -257.7 -575.8 0.00 0.00 0.00 Bone Spring Lime 7,600.0 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,691.9 0.00 0.00 7,649.0 -577.2 -257.7 -575.8 0.00 0.00 0.00 Upper Avalon 7,700.0 0.00 0.00 7,657.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,800.0 0.00 0.00 7,657.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,800.0 0.00 0.00 7,757.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,900.0 0.00 0.00 7,857.1 <td< td=""><td></td><td>7,300.0</td><td>0.00</td><td>0.00</td><td>7,257.1</td><td>-577.2</td><td>-257.7</td><td>-575.8</td><td>0.00</td><td>0.00</td><td>0.00</td></td<>		7,300.0	0.00	0.00	7,257.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
7,500.0 0.00 7,457.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,573.9 0.00 0.00 7,531.0 -577.2 -257.7 -575.8 0.00 0.00 0.00 Bone Spring Lime 7,600.0 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,691.9 0.00 0.00 7,649.0 -577.2 -257.7 -575.8 0.00 0.00 0.00 Upper Avalon		7,400.0	0.00	0.00	7,357.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
7,500.0 0.00 7,571.1 -077.2 -257.7 -575.8 0.00 0.00 0.00 7,573.9 0.00 0.00 7,531.0 -577.2 -257.7 -575.8 0.00 0.00 0.00 Bone Spring Lime 7,600.0 0.00 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,691.9 0.00 0.00 7,649.0 -577.2 -257.7 -575.8 0.00 0.00 0.00 Upper Avaion 7,700.0 0.00 0.00 7,657.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,800.0 0.00 0.00 7,757.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,800.0 0.00 0.00 7,757.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,900.0 0.00 0.00 7,857.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,900.0 0.00 0.00 7,		7 500 0	0.00	, 0 00	7 / 57 1	-577 2	-257 7	-676 Q	0.00	0.00	0.00
Bone Spring Lime -577.2 -257.7 -575.8 0.00 0.00 0.00 7,600.0 0.00 0.00 7,557.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 0.00 7,691.9 0.00 0.00 7,649.0 -577.2 -257.7 -575.8 0.00 0.00 0.00 Upper Avaion -7,700.0 0.00 0.00 7,657.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,800.0 0.00 0.00 7,657.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,800.0 0.00 0.00 7,757.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,900.0 0.00 0.00 7,857.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,900.0 0.00 0.00 7,857.1 -577.2 -257.7 -575.8 0.00 0.00 0.00		7,500.0	0.00	0.00	7,407.1	-577 2	-201.1	-575.0	0.00	0.00	0.00
Bone spring Line		Pope Sadia		0.00	7,001.0	-511.2	-251.1	-515.0	0.00	0.00	0.00
7,600.0 0.00 7,597.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 0.00 7,691.9 0.00 0.00 7,649.0 -577.2 -257.7 -575.8 0.00 0.00 0.00 0.00 Upper Avaion 7,700.0 0.00 0.00 7,657.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 0.00 7,800.0 0.00 0.00 7,657.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 0.00 7,800.0 0.00 0.00 7,757.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,900.0 0.00 0.00 7,857.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,900.0 0.00 0.00 7,857.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,900.0 0.00 0.00 7,857.1 -577.2 -257.7 -575.8 0.00 0.00 0.00			iy Lime	0.00	7	E77 0	0.57 -	676 A	0.00	0.00	0.00
7,691.9 0.00 0.00 7,649.0 -577.2 -257.7 -575.8 0.00 0.00 0.00 0.00 Upper Avaion 7,700.0 0.00 0.00 7,657.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 0.00 7,800.0 0.00 0.00 7,757.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,900.0 0.00 0.00 7,857.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,900.0 0.00 0.00 7,857.1 -577.2 -257.7 -575.8 0.00 0.00 0.00		7,600.0	0.00	0.00	7,557.1	-5/7.2	-257.7	-5/5.8	0.00	0.00	0.00
Upper Avalon -7,700.0 0.00 0.00 7,657.1 -577.2 -257.7 -575.8 0.00		7,691.9	0.00	0.00	7,649.0	-5/7.2	-2577	-5/5.8	0.00	0.00	0.00
7,700.0 0.00 0.00 7,657.1 -577.2 -257.7 -575.8 0.00		Upper Aval	lon				,				
7,800.0 0.00 0.00 7,757.1 -577.2 -257.7 -575.8 0.00 0.00 0.00 7,900.0 0.00 0.00 7,857.1 -577.2 -257.7 -575.8 0.00 0.00 0.00		7,700.0	0.00	0.00	7,657.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
7,900.0 0.00 0.00 7,857.1 -577.2 -257.7 -575.8 0.00 0.00 0.00		7 800 0	0.00	0 00	7 757 1	-577 2	-257 7	-575.8	0.00	/ 0.00	0.00
		7,900.0	0.00	0.00	7 857 1	-577 2	-257 7	-575.8	0.00	0.00	0.00
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Intrepid Planning,Report

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Database: Company: Project: Site: Well: Wellbore: Design:	: EDM 5000.15 Single User Db Tap Rock Resources, LLC Eddy County, NM (NAD 83 NME) (Nailed It) Sec-36_T-26-S_R-30-E Nailed It Fed Com #213H OWB Plan #1				Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Nailed It Fed Com #213H KB @ 3054.0usft Grid Minimum Curvature				
Measured Depth (usft)	Inclination //	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,000.0 8,078.9,	0.00 0.00	0.00 0.00	7,957.1 8,036.0	-577.2 -577.2	-257.7 -257.7	-575.8 -575.8	0.00 0.00	0.00 0.00	0.00 0.00
Middle Aval	lon -				•	•			
8,100.0	0.00	0.00	8,057.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,157.1	-577.2	· -257.7	-575.8	0.00	0.00	0.00
8,302.9	0.00	0.00	8,257.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
Lower Aval	on		0,200.0		201.1		0.00	0.00	0.00
8,400.0	0.00	0.00	8,357.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,457.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
8,518.9	0.00	0.00	8,476.0	-577.2	-257.7	-575.8	0.00	0.00	0.00
1st Bone Sp 8 600 0	0 00	0.00	8 557 1	-577 2	-257 7	-575.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,657.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
8,800.0	0.00	0.00	8,757.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
8,868.9 2nd Bone S	U.UU Inring Carb	0.00	8,826.0	-5/7.2	-257.7	-5/5.8	0.00	0.00	0.00
Zilu Bolle S									
8,900.0	0.00	0.00	8,857.1 8 957 1	-577.2	-257.7	-575.8 -575.8	0.00	0.00	0.00
9,100.0	0.00	0.00	9.057.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
9,153.9	0.00	0.00	9,111.0	-577.2	-257.7	-575.8	0.00	0.00	0.00
2nd Bone S	pring Sand								
9,200.0	0.00	0.00	9,157.1	-5/7.2	-257.7	-5/5.8	0.00	0.00	0.00
9,300.0	0.00	0.00	9,257.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
9,500.0	0.00	0.00	9,457.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
9,600.0	0.00	0.00	9,557.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
9,700.0	0.00	0.00	9,657.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
9,752.9	0.00	0.00	9;710.0	-577.2	-257.7	-575.8	0.00	0.00	0.00
3rd Bone S	pring Carb	0.00	0 757 1	577 0	057.7	E7E 0	, 0.00		0.00
9,800.0	0.00	0.00	9,757.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
10,000.0	0.00	0.00	9,957.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
10,100.0	0.00	0.00	10,057.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
10,200.0	0.00	0.00	10,157.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
10,300.0	0.00	0.00	10,257.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
10,420.9	0.00	0.00	10,378.0	-577.2	-257.7	-575.8	0.00	0.00	0.00
3rd Bone S	pring Sand				_	_			
10,500.0	0.00	0.00	10,457.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
10,600.0	0.00	0.00	10,557.1	-577.2	-257.7	-575.8	0.00	0.00	0.00
10,0/4.9 אסות – ארא א		0.00 ^v	10,032.0	-5//.2	-25/./	-5/5.8	0.00	0.00	0.00
10,700.0	2.51	359.68	10,657.1	-576.7	-257.7	-575.2	10.00	10.00	0.00
10,720.9	4.60	359.68	10,678.0	-575.4	-257.7	-573.9	, 10.00	10.00	0.00
3rd BS W S	and								
10,750.0	7.51	359.68	10,706.9	-572.3	-257.7	-570.8	10.00	10.00	0.00
10,800.0	12.51	359.68	10,756.1	-563.6	-257.8	-562.2	10.00	10.00	0.00
10,813.2	13.83	359.68	10,769.0	-560.6	-257.8	-559.1	10.00	10.00	0.00
10 850 0	17 51	359 68	10,804 4	-550 7	-257 9	-549 2	10.00	10.00	0.00
10,900.0	22.51	359.68	10,851.4	-533.6	-258.0	-532.1	10.00	10.00	0.00
10,950.0	27.51	359.68	10,896.7	-512.4	-258.1	-511.0	10.00	10.00	0.00

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COMPASS 5000.15 Build 88

TA	Ρ				Intre Planning	pid Report	1			REPID
Verninger							1			
Database:		EDM 5000.1	5 Single User I	Db	Local	Co-ordinate	Reference:	Well Nailed	I It Fed Com #2	213H
Company:		Tap Rock Re	esources, LLC	· .	TVD R	eference:		KB @ 3054	1.0usft	
Project:	·	Eddy County	, NM (NAD 83	NME)	MD Re	ference:		KB @ 3054	4.0usft	
Site:	1997 - 1 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	(Nailed It) Se	ec-36_T-26-S_	R-30-E	North	Reference:		Grid		
Well:	· . ·	Nailed It Fed	Com #213H		Survey	Calculatio	n Method:	Minimum C	Curvature	
Wellbore:	1	OWB								
Design:		Plan #1	•						,	
Planned S										
r laillieu 3	ourvey				State States					
Мо	seurod			Vortical			Vention	Deelee	n na si	· · · · · · · · · · · · · · · · · · ·
L INC	asureu)enth	Inclination	Animuth	Denth	IN C	EIN .	Section	Dogleg	Bullu	Poto
· · · · · · · · · · · · · · · · · · ·	usft)	(°)	محاسما مراجع (°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	0.051.5	27.66	250.69	10 000 0	E 4 4 7		510.2	40.00	40.00	
14	10,951.5 /olfcamn /	00.12 breavy	309.68	10,898.0	-511.7	-258.1	-510.3	10.00	10.00	0.00
		32.51	359 68	10 939 9	-487 4	-258.2	486.0	10.00	10.00	0.00
1	1.050.0	37.51	359.68	10,980.9	-458 7	-258.4	-457.3	10.00	10.00	0.00
1	1,055.2	38.03	359.68	10,985.0	-455.6	-258.4	-454.1	10.00	10.00	0.00
w	olfcamp /	Lower		.,		1				· · ·
1	11,100.0	42.51	359.68	11,019.2	-426.6	-258.6	-425.2	10.00	10.00	0.00
1	1.150.0	47.51	359.68	11.054.5	-391.3	-258.8	-389.8	10.00	10.00	0.00
1	1,200.0	52.51	359.68	11,086.6	-353.0	-259.0	-351.5	10.00	10.00	0.00
1	11,250.0	57.51	359.68	11,115.3	-312.0	-259.2	-310.6	10.00	10.00	0.00
1	1,300.0	62.51	359.68	11,140.3	-268.7	-259.4	-267.3	10.00	10.00	0.00
1	1,350.0	67.51	359.68	11,161.4	-223.4	-259.7	-222.0	10.00	10.00	0.00
1	1,400.0	72.51	359.68	11.178.5	-176.4	-260.0	-175.0	10.00	10.00	0.00
1	1,419.4	74.46	359.68	11,184.0	-157.8	-260.1	-156.4	10.00	10.00	0.00
W	olfcamp E	3	•				•			
1	1,450.0	77.51	359.68	11,191.4	-128.2	-260.2	-126.7	10.00	10.00	0.00
1	1,500.0	82.51	359.68	11,200.1	-78.9	-260.5	-77.5	10.00	10.00	0.00
1	1,550.0	87.51	359.68	11,204.4	-29.1	-260.8	-27.7	10.00	10.00	0.00
1	1,572.6	89.77	359.68	11,205.0	-6.6	-260. 9	-5.1	10.00	10.00	0.00
E	OC - 3938.	7 hold at 115	72.6 MD				1 .			
1	1,600.0	89.77	359.68	11,205.1	/ 20.9	-261.1	22.3	0.00	0.00	0.00
1	1,700.0	89.77	359.68	11,205.5	´ 120.9	-261.6	122.3	0.00	0.00	0.00
1	1,800.0	89.77	359.68	11,205.9	220.8	-262.2	222.3	0.00	0.00	0.00
1	1,900.0	89.77	359.68	11,206.3	320.8	-262.7	322.3	0.00	0.00	0.00
1	2,000.0	89.77	359.68	11,206.7	420.8	-263.3	422.3	0.00	0.00	0.00
1	2,100.0	89.77	359.68	11,207.1	520.8	-263.9	522.3	0.00	0,00	0.00
1	2,200.0	89.77	359.68	11,207.5	° 620.8	-264.4`	622.3	0.00	0.00	0.00
	2,300.0	89.77	359.68	11,207.9	720.8	-265.0	722.3	0.00	0.00	0.00
	12,400.0	89.77	309.08	11,208.3	820.8	-205.0	822.3	0.00	0.00	0.00
1	2,500.0	89.77	359.68	11,208.7	920.8	-266.1	922.3	0.00	0.00	0.00
1	2,600.0	89.77	359.68	11,209.1	1,020.8	-266.7	1,022.3	0.00	0.00	0.00
	2,700.0	89.77	359.68	11,209.5	1,120.8	-267.2	1,122.3	0.00	0.00	0.00
	2,800.0	89.77	359.68	11,210.0	1,220.8	-207.8	1,222.3	0.00	0.00	0.00
	2,500.0	09.77	339.00	11,210.4	1,520.0	-200.4	1,522.5	0.00	0.00	0.00
	3,000.0	89.77	359.68	11,210.8	1,420.8	-268.9	1,422.3	0.00	0.00	0.00
	3,100.0	89.77	359.68	11,211.2	1,520.8	-269.5	1,522.3	0.00	0.00	0.00
	13,200.0	09.// 80.77	359.00	11,211.0	1,020.0	-270.0	1,022.3	0.00	0.00	0.00
	3.400.0	89.77	359.68	11,212.0	1.820.8	-271.2	1.822.3	0.00	0.00	0.00
	2 500 0	90.77	250 69	11 212 9	1 020 8	074.7	1,000.0	0.00	0.00	0.00
1	3,500.0	89.77	359.00	11,212.0	2 020 8	-2723	2 022 3	0.00	0.00	0.00
1	3 700 0	89.77	359.68	11 213 6	2,020.0	-272.8	2,022.3	0.00	0.00	0.00
1	3.800.0	89.77	359.68	11.214.0	2.220.8	-273.4	2.222.3	0.00	0.00	0.00
1	3,900.0	89.77	359.68	11,214.4	2,320.8	-274.0	2,322.3	0.00	0.00	0.00
1	4.000.0	89.77	359.68	11.214 8	2,420 8	-274 5	2.422.3	0.00	0 00	0.00
1	4,100.0	89.77	359.68	11,215.3	2,520.8	-275.1	2,522.3	0.00	0.00	0.00
1	4,200.0	89.77	359.68	11,215.7	2,620.8	-275.6	2,622.3	0.00	0.00	0.00
1	4,300.0	89.77	359.68	11,216.1	2,720.8	-276.2	2,722.3	0.00	0.00	0.00
1	4,400.0	89.77	359.68	11,216.5	2,820.8	-276.8	2,822.3	0.00	0.00	0.00
1	4,500.0	89.77	359.68	11,216.9	2,920.8	-277.3	2,922.3	0.00	0.00	0.00
1	4,600.0	89.77	359.68	11,217.3	3,020.8	-277.9	3,022.3	0.00	0.00	0.00
. 1	4,700.0	89.77	359.68	11,217.7	3,120.8	-278.5	3,122.3	0.00	0.00	0.00
1	4,800.0	89.77	359.68	11,218.1	3,220.8	-2/9.0	3,222.3	0.00	0.00	0.00

TAP				Planning F	nd Report	•			REPID
Database: Company: Project: Site: Well: Wellbore: Design:	EDM 5000.1 Tap Rock Re Eddy County (Nailed It) Se Nailed It Fed OWB Plan #1	5 Single User sources, LLC , NM (NAD 83 c-36_T-26-S_ Com #213H	Db NME) R-30-E	Local C TVD Re MD Ref North F Survey	o-ordinate ference: erence: eference: Calculatio	Reference: n Method:	Well Nailed KB @ 3054 KB @ 3054 Grid Minimum C	It Fed Com #21 .0usft .0usft urvature	ЗН
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)
14,900.0	89.77	359.68	11,218.5	3,320.8	-279.6	3,322.3	0.00	0.00	0.00
15,000.0	89.77	359.68	11,218.9	3,420.8	-280.1	3,422.3	0.00	0.00	0.00
15,100.0	89.77	359.68	11,219.3	3,520.8	-280.7	3,522.3	0.00	0.00	0.00
15,200.0	89.77	359.68	11,219.7	3,620.8	-281.3	3,622.3	0.00	0.00	0.00
15,300.0	89.77	359.68	11,220.1	3,720.8	-281.8	3,722.3	0.00	0.00	0.00
15,400.0	89.77	359.68	11,220.5	3,820.8	-282.4	3,822.3	0.00	0.00	0.00
15,500.0	89.77	359.68	11,221.0	3,920.8	-282.9	3,922.3	0.00	0.00	0.00
15,511.2	89.77	359.68	11,221.0	3,932.0	-283.0	3,933.5	0.00	0.00	0.00
TD at 15511	l.2						· .		,
Design Targets			al main ann an an Arrainn an Annaich an An						
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. T (°) (u	VD +N/- isft) (usfi	S +E/-W t) (usft)	Northi (usfi	ng Ea) (I	sting ısft)	Latitude	Longitude
FTP (Nailed It Fed C - plan misses tar - Point	o 0.00 get center by 9	0.00 11 04.7usft at 112	,205.0 -3 64.5usft MD (1	47.0 -259.0 11122.9 TVD, -2) 364,4 99.6 N, -25	184.00 69 59.3 E)	96,081.00	32° 0' 3.832 N	103° 50' 2.899 W
PBHL (Nailed It Fed - plan hits target - Rectangle (side	C 0.23 center es W100.0 H4,3	359.68 11 280.0 D40.0)	,221.0 3,93	32.0 -283.0) 368,7	63.00 69	96,057.00	32° 0' 46,178 N	103° 50' 2.948 W
LTP (Nailed It Fed C - plan misses tar	o 0.00 get center by 0	0.00 11 9.9usft at 1538.	,221.0 3,8 1.2usft MD (11	02.0 -283.0 1220.5 TVD, 38) 368,6)2.0 N, -28	533.00 69 2.3 E)	96,057.00	32° 0' 44.892 N	103° 50' 2.955 W

Intrepid

TAP		PI	Intrep anning F	oid Report	· ·			REPID
Database:EDM 500Company:Tap RocProject:Eddy CoSite:(Nailed IWell:Nailed ItWellbore:OWB	00.15 Single k Resources, bunty, NM (NA t) Sec-36_T-2 Fed Com #2	User Db LLC D 83 NME) 26-S_R-30-E 13H	Local C TVD Re MD Refe North R Survey	o-ordinate ference: erence: eference: Calculatio	Reference: n Method:	Well Nai KB @ 30 KB @ 30 Grid Minimum	led It Fed Com #2 054.0usft 054.0usft n Curvature	213H
Design: Plan #1								
Formations Measured Depth (usft)	Vertical Depth (usft)	Name			Lithology		Dip Dip Directio (°) (°)	n
843.0	843.0	Rustler Anhydrite		umante de la come de la ci				
1,395.0	1,395.0	Top Salt						
3,445.5	3,434.0	Base Salt						
3,652.5	3,639.0	Delaware Mountain Gp						
3,652.5	3,639.0	Bell Canyon						
3,659.5	3,646.0	Lamar						
3,664.6	3,651.0	Ramsey Sand						
4,854.2	4,829.0	Cherry Canyon						
5,816.5	5,782.0	Brushy Canyon						
7,573.9	7,531.0	Bone Spring Lime		,				
7,691.9	7,649.0	Upper Avalon						
8,078.9	8,036.0	Middle Avalon						
8,302.9	8,260.0	Lower Avalon				•		
8,518.9	8,476.0	1st Bone Spring Sand				ı		
8,868.9	8,826.0	2nd Bone Spring Carb					. 1	
9,153.9	9,111.0	2nd Bone Spring Sand						
9,752.9	9,710.0	3rd Bone Spring Carb						
10,420.9	10,378.0	3rd Bone Spring Sand						t
10,720.9	10,678.0	3rd BS W Sand						
10,813.2	10,769.0	Wolfcamp A X Sand						
10,951.5	10,898.0	Wolfcamp A Y Sand						
11,055.2	10,985.0	Wolfcamp A Lower						
11,419.4	11,184.0	Wolfcamp B						
Plan Annotations	· · · · · ·							
								er andere en
Measured Depth	Denth	Local Coordinate	S	· · · · ·			na an trainn tha an	· · · · · · · · · · · · · · · · · · ·
(usft)	(usft)	+N/-3 +t (usft) (u	:J-WV left)	Comme	nt	· •		
2 000 0	2 000 0		0.0		Build 2.00			
2,000.0	2,398.6	-25.4	-11.4	HOLD -	4143.2 at 2399	3.9 MD		
6,543.0	6,501.4	-551.8	-246.4	DROP -	-2.00	· ··· -		
6,942.9	6,900.0	-577.2	-257.7	HOLD -	3732.0 at 6942	2.9 MD	:	
10,674.9	10,632.0	-5/7.2	-257.7	KOP - D	LS 10.00 TFO	359.68	_	
				EC(C) 31		16/7/6 84		

1

Ontinental 3

Hydrostatic Test Certificate

					ContiTech
Certificate Numbe 938562	er	COM Or 938562	der Reference	Customer Name & Address	
Customer Purcha	ise Order No:	7400433	86		1434 SOUTH BOULDER AVE TULSA, OK 74119
Project:	HOW		1		USA
Test Cent	ter Address	الم المعلم المعالم المعالم. المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم الم	Accepted by COM Inspection		Accepted by Client Inspection
ContiTech Oil & Ma 11535 Brittmoore F Houston, TX 7704 USA	arine Corp. Park Drive 1	Signed: Date:	Roger Syarez		

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

			1				
Item	Part No:	Description	Qñi	y Serial Number	Work Press.	Test Press.	Test Time (minutes)
20		RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	53631	10,000 psi	15,000 psi	60
30		RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	54500	10,000 psi	15,000 psi	60
40		RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	56838	10,000 psi	15,000 psi	60
50	·	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	56489	10,000 psi	15,000 psi	60 [`]
60		RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	61475	10.000 psi	15,000 psi	60
80		RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	60197	10,000 psi	15,000 psi	60
90		RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	39474	10,000 psi	15,000 psi	60
100	·	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	60887	10,000 psi	15,000 psi	60

Ontinental 3

Certificate of Conformity

F*****		Contriech
Certificate Number 938562	COM Order Reference 938562	Customer:Name/& Address HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No:	740043386	1434 SOUTH BOULDER AVE TULSA, OK 74119
Project: HOW		USA
Test Center Address	Accepted by COM Inspection	Accepted by Cilent Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Date: 343/17	

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

ltem Part No.	Description	Qnty	Serial Number	Specifications
20	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	53631	ContiTech Standard
30	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	54500	ContiTech Standard
40	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 R OAL	1	56838	ContiTech Standard
50	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	56489	ContiTech Standard
60	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	61475	ContiTech Standard
80	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	60197	ContiTech Standard
90	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	39474	ContiTech Standard
100	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	60887	ContiTech Standard



Hose Inspection Report

ContiTech Oil & Marine

Customer	Customer Reference #	CBC Reference #	CBC Inspector	Date of Inspection
H&P Drilling	740043386	COM938562	A. Jaimes	03/06/2017

Hose Manufacturer Contitech Rubber Industrial

Hose Serial #	53631	Date of Manufacture 08/2008					
Hose I.D.	3"	Working Pressure 10000PSI					
Hose Type	Choke and Kill	Test Pressure 15000PSI					
Manufacturing St	andard API 16C	,					
Connections		,					
End A: 4.1/16" 10	Kpsi API Spec 6A Type 6BX Flange	End B: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange					
 No damage 		No damage					
Material: Carbon	Steel	Material: Carbon Steel					
Seal Face: BX155		Seal Face: BX155					
Length Before Hyd	dro Test: 35'	Length After Hydro test: 35					

Conclusion: Hose #53631 passed the external inspection with minor damage to the hose armor. Internal borescope showed no damage to the liner. Hose #53631 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. Hose #53631 is suitable for continued service:

Recommendations: In general the hose should be inspected on a regular on-going basis. The frequency and degree of the inspection should as a minimum follow, these guidelines:

Visual inspection: Every 3 to 6 months (or during installation/removal) Annual: In-situ pressure test (in addition to the 3 to 6 monthly inspections) Initial 5 years service: Major inspection 2nd Major inspection: Following subsequent 3 year life cycle (Detailed description of test regime available upon request, QCP 206-1)

**NOTE: There are a number of critical elements in the hose that cannot be thoroughly checked through standard inspection techniques. Away from dissecting the hose body, the best way to evaluate the condition of the hose is through review of the operating conditions recorded during the hose service life, in particular maximums and peak conditions.

External Damage Post – Hydro test	
Approx. Distance from End A	3'
Width	8"
Length	3″
Depth	To hose body
Notes	Broken armor



Issued By: Alejandro Jaimes Date: 03/10/2017 Checked By: Gerson Mejia-Lazo Date: 03/10/2017

Page 1 of 1 QF97





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 a variance to run 7-5/8" BTC casing inside 9-5/8" BTC casing will be less than the 0.422" stand off regulation. Through conversations with BLM representatives, Tap Rock has received approval for this design as long as the 7-5/8" flush casing was run throughout the entire 300' cement tie back section between 9-5/8" and 7-5/8" casing.

Tap Rock requests approval to possibly utilize a spudder rig to drill and set casing for the surface interval on this well. The spudder rig will be possibly utilized in order to reduce cost and save time. The wellhead will be installed and tested as soon as the surface casing is cut off per the existing COAs. A blind flange with the same pressure rating as the wellhead will be installed on the well. Once the spudder rig is removed, Tap Rock will secure the wellhead area by placing a guard rail around the cellar. Pressure will be monitored and a means for intervention will be maintained while the drilling rig is not over the well. Spudder rig operations are expected to take 2-3 days per well. Three wells on the pad will have surface casing set by the spudder rig as a part of this operation. The BL M 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 T	٧D	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	13 3/8	API	No	0	920	0		920	J-55	54.5	BUTT	1.13	1.15	1.6
1st Intermediate	12 1/4	9 5/8	API (No	0	3720	0		3706	J-55	40	Βυττ	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	API	No	0	3420	0	-	3406	P-110	29.7	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	NON API	Yes	3420	10550	3406	3 	10507	P-110	29.7	W-513	1.13	1.15	1.6
Production	63/4	5 1/2	NON API	No	0	10350	0	-	10307	P-110	20	ТХР	1.13	1.15	1.6
Production	6 3/4	5	NON API	Yes	10350	15510	10307		11221	P-110	18	W-521	1.13	1.15	1.6

Name	Туре	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives /
Surface	Lead	0	462	1.8	831	13.5	100%	С	None
Surrace	Tail	598	331	1.35	447	14.8	100%	C	5% NCI + LCM
1st Intermediate	Lead	0	705	2.18	1538	12.7	65%	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	2976	289	1.33	384	14.8	65%	C	5% NaCl + LCM
and Intermediate	Lead	3420	290	2.87	831	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM
2nd mitermediate	Tail	9550	107	1.27	136	15	35%	H	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	9850	464	1.71	793	14.2	25%	Н	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Name	Тор	Bottom	Туре	Mud Weight	Visc	Fluid Loss
Surface	0	920 ·	FW Spud Mud	8.30	28 `	NC
Intermediate	920	3720	Brine Water	10.00	30-32	NC
Intermediate 2	_3720	10550	FW/Cut Brine	9.00	30-32	NC
Production	10550	15510	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 $\approx 6,700$ psi. Expected bottom hole temperature is $\approx 160^{\circ}$ F.

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

8. Other Information

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

5,000 psi BOP Stack







Multi-bowl Wellhead





10M Choke Layout



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Multi-bowl Wellhead



1
FAFMSS		SUPO	Data Report
U.S. Department of the Interior BUREAU OF LAND MANAGEMENT			02/25/2020
APD ID: 10400046800	Submission	Date: 08/30/2019	Highlighted data
Operator Name: TAP ROCK OPERATING LLC			reflects the mos
Well Name: NAILED IT FED COM	Well Numbe	er: 213H	Show Final Text
Well Type: CONVENTIONAL GAS WELL	Well Work	Fype: Drill	<u> </u>
			
Section 1 - Existing Roads	-		
Vill existing roads be used? YES			
xisting Road Map:			
lailed_Existing_Roads_Map_012220_20200123105	5713.pdf		
xisting Road Purpose: ACCESS		Row(s) Exist? NO)
ROW ID(s)			· · · · ·
ID:			
\sim			
Evisting Road Improvement Description:			•
Existing Road Improvement Attackment			
Existing Road Improvement Attachment:			
Section 2 New or Peconstruc	tod Access Rea	de	
	leu Access Roa	<u>us</u>	
Vailed New Roads Map Plats 011720 20200123	105743 pdf		
lew road type: QCA	1007 10.put		
enath: 4553.52 Feet	Width (ft.): 30		
lax slope (%): 0	Max grade (%): 1		·
Army Corp of Engineers (ACOE) permit required	? N		
ACOE Permit Number(s):			
New road travel width: 24	· ·		
lew road access erosion control: Crowned and d	itched		
lew road access plan or profile prepared? N			
lew road access plan attachment:			
Access road engineering design? N			(
Access road engineering design attachment	. 1		
assos road onghooning deargn attacimicill.			
			Page 1 of 11
		1	

Operator Name: TAP ROCK OPERATING LLC Well Name: NAILED IT FED COM

Well Number: 213H

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: Grader

Access other construction information: Pipelines that are crossed will be padded.

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Crowned and ditched

Road Drainage Control Structures (DCS) description: None

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Nailed_Slot3_well_Map_v1_082119_20200123105908.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 213H

Section 5 - Location a Water Source Ta Water source type: GW WELL Water source use type: Source latitude: Source datum: Water source permit type:	and Types of Water Suble SURFACE CASING DUST CONTROL STIMULATION INTERMEDIATE/PRODUC CASING	upply CTION Source longitude:
Water Source Ta Water source type: GW WELL Water source use type: Source latitude: Source datum: Water source permit type:	ble SURFACE CASING DUST CONTROL STIMULATION INTERMEDIATE/PRODUC CASING	CTION Source longitude:
Water source type: GW WELL Water source use type: Source latitude: Source datum: Water source permit type:	SURFACE CASING DUST CONTROL STIMULATION INTERMEDIATE/PRODUC CASING	CTION Source longitude:
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Source latitude: Source datum: Water source permit type:	SURFACE CASING DUST CONTROL STIMULATION INTERMEDIATE/PRODUC CASING	CTION Source longitude:
Source latitude: Source datum: Water source permit type:	DUST CONTROL STIMULATION INTERMEDIATE/PRODUC CASING	CTION Source longitude:
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Source latitude: Source datum: Water source permit type:	INTERMEDIATE/PRODUC CASING	CTION Source longitude:
Source latitude: Source datum: Water source permit type:		Source longitude:
Source datum: Water source permit type:		
Water source permit type:		
	WATER WELL	
water source transport method:	TRUCKING	
Source land ownership: PRIVAT	E.	
Source transportation land own	ership: PRIVATE	
Water source volume (barrels):	16000	Source volume (acre-feet): 2.06228954
Source volume (gal): 672000		
·	· · · · · · · · · · · · · · · · · · ·	
ater source and transportation m	nap:	
ailed_H2O_Source_Map_20200123	3110026.pdf	
ater source comments: Fresh wa acific Railroad Block 56, Loving Cou ew water well? N	ter will be trucked from an exis unty, Texas to each of the 4 we	sting pond on private land in NW Section 3, Texas & rell pads.

WAFMSS

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



APD ID: 10400046800

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Type: CONVENTIONAL GAS WELL

Submission Date: 08/30/2019

Well Number: 213H

Highlighted data reflects the most recent changes

Show Final Text

Well Work Type: Drill

Section 1 - General			
APD ID: 10400046800	Tie to previous NOS?	Ý	Submission Date: 08/30/2019
BLM Office: CARLSBAD	User: Brian Wood	Titl	e: President
Federal/Indian APD: FED	Is the first lease penetra	ted for product	ion Federal or Indian? FED
Lease number: NMNM138850	Lease Acres: 320		
Surface access agreement in place?	Allotted?	Reservation:	
Agreement in place? NO	Federal or Indian agreen	nent:	
Agreement number:			
Agreement name:			
Keep application confidential? N			
Permitting Agent? YES	APD Operator: TAP ROC	K OPERATING	LLC
Operator letter of designation:			
		1	
Operator Info			ι
Operator Organization Name: TAP ROCK	OPERATING LLC		
Operator Address: 602 Park Point Drive Su	uite 200		
Operator PO Box:	· .	Zip: 80401	
Operator City: Golden State	: CO		
Operator Phone: (720)460-3316			
Operator Internet Address:			
-			
Section 2 - Well Informa	ation		
Well in Master Development Plan? NO	Master Develop	oment Plan nam	ne:
Well in Master SUPO? NO	Master SUPO n	ame:	
Well in Master Drilling Plan? NO	Master Drilling	Plan name:	
Well Name: NAILED IT FED COM	Well Number: 2	213H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: PL WOI FCAMP	JRPLE SAGE	Pool Name:
Is the proposed well in an area containing	other mineral resources? (AL GAS,OIL

Page 1 of 3

Operator Name: TAP ROCK OPERATING LLC Well Name: NAILED IT FED COM

Well Number: 213H

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is th	e pro	pose	d wel	l in a	n are	a con	itaini	ing othe	er mineral	resources	? 07	HER,NA	TURA	LG	AS,OIL				
Desc	ribe	other	mine	erals:	Salt														
ls th	e pro	pose	d wel	l in a	Heliu	ım pr	oduo	ction are	ea? N Us	se Existin	g We	II Pad? I	N	Ne	ew surfa	ce dis	turba	nce?	
Type of Well Pad: MULTIPLE WELL Multiple Well Pa										d Name:	Nailed	N	umber: S	ilot 3					
Well Class: HORIZONTAL It Fed Com Number of Legs:										1									
Well	Worl	k Typ	e: Dri	Н															
Well Type: CONVENTIONAL GAS WELL																			
Desc	ribe	Well	Туре	:															
Well sub-Type: INFILL																			
Describe sub-type:												,							
Distance to town: 20 Miles Distance to nearest well: 25 FT Distance to lease line: 676 FT																			
Reservoir well spacing assigned acres Measurement: 288.4 Acres																			
Well plat: Nailed_213H_C102_GCP_20190830102612.pdf																			
Well work start Date: 01/01/2020 Duration: 30 DAYS																			
Section 3 - Well Location Table																			
Survey Type: RECTANGULAR																			
Describe Survey Type:																			
Datu	m: N	AD83							Ve	ertical Dat	um:	NAVD88							
Surv	ey nı	umbe	r: 114	101				1	Re	eference D	atun	1: GROL	JND LE	EVE	L				
Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	DVT	Will this well produce from this lease?
SHL Leg #1	676	FSL	222 5	FEL	26S	30E	36	Lot 2	32.00201 62	- 103.8332 99	GRA NT	NEW MEXI CO	NEW MEXI CO	S	STATE	302 8	0	0	Y
KOP Leg #1	100	FSL	248 6	FEL	26S	30E	36	Lot 2	32.00043 63	- 103.8341 312	EDD Y	NEW MEXI CO	NEW MEXI CO	S	STATE	- 760 4	106 74	106 32	Y
PPP Leg #1-1	115	FSL	248 6	FEL	26S	30E	36	Lot 2	32.00048 01	- 103.8341 312	EDD Y	NEW MEXI CO	NEW MEXI CO	S	STATE	- 774 1	108 13	107 69	Y
																Pag	je 2 o	fЗ	

Operator Name: TAP ROCK OPERATING LLC Well Name: NAILED IT FED COM

Well Number: 213H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	(mpoo	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
PPP	820	FSL	248	FEL	26S	30E	36	Aliquot	32.00241	-	ED	Þ	NEW	NEW	s	STATE	-	117	112	Y
Leg			6					NWNE		103.8341	Y		MEXI	MEXI			817	21	05	
#1-2										34			co	co			7			
EXIT	246	FSL	248	FEL	26S	30E	25	Aliquot	32.01282	-	ED	D	NEW	NEW	F	NMNM	-	155	112	Y
Leg	5		6					NWSE	69	103.8341	Y		MEXI	MEXI		138850	819	11	21	
#1										53			co	co			3			
BHL	246	FSL	248	FEL	26S	30E	25	Aliquot	32.01282	-	ED	b	NEW	NEW	F	NMNM	-	155	112	Y
Leg	5		6					NWSE	69	103.8341	Y		MEXI	MEXI		138850	819	11	21	
#1										53			со	со			3			

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