	R	ECEIVEL)				
Form 3160-3 (June 2015)	1	MAR 0 6 202	20		FORM OMB Expires:	1 APPRO No. 1004- January 3	VED 0137 1, 2018
DEPARTMENT OF THE BUREAU OF LAND MAN	AGEMEN	P-OCDAF	RT	ËSI/	5. Lease Serial No NMNM138850).	
APPLICATION FOR PERMIT TO D	RILL OR	REENTER			6. If Indian, Allote	e or Tribe	Name
					_		
1a. Type of work: \checkmark DRILL \square R	EENTER				7. If Unit or CAA	greement,	Name and No.
Ib. Type of Well: Oil Well ✓ Gas Well C	other	_			8. Lease Name and	d Well No.	
re. Type of Completion: Prydraulic Fracturing	ingle Zone	Multiple Zone	e		NAILED IT FED	сом	
					2334 3.7	730	8
2. Name of Operator TAP ROCK OPERATING LLC					9. API Well No.	5- U	1245
3a. Address 602 Park Point Drive Suite 200, Golden, CO 80401	3b. Phone 1 (720) 460-	No. <i>(include area c</i> 3316	c'ode)	1	10. Field and Pool, PURPLE SAGE V	, or Explor	P 7 7 5 atory MP/null
4. Location of Well (Report location clearly and in accordance	vith any State	e requirements.*)	1		11. Sec., T. R. M. c	or Blk. and	Survey or Area
At surface LOT 2 / 701 FSL / 2095 FEL / LAT 32.0020	851 / LONG	-103.8328797			SEC 36/T26S/R3	0E/NMP	
At proposed prod. zone NVVSE / 2465 FSL / 2010 FEL /	LAT 32.012	8237 / LONG -10	3.83	326173			
20 miles	ice*				12. County or Paris EDDY	sh	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft.	16. No of a 320	cres in lease	1	7. Spaci	ng Unit dedicated to	this well	
(Also to hearest drig, unit line, if any) 18. Distance from proposed location*	10 Propose	d Darth					
to nearest well, drilling, completed, applied for, on this lease, ft. 25 feet	19. Propose 11900 feet	/ 16280 feet	F	:0. BLM/ FED: NN	BIA Bond No. in file IB001443	•	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3030 feet	22. Approxi 01/01/2020	mate date work w	ill sta	art*	23. Estimated durat 30 days	ion	
· · · · · · · · · · · · · · · · · · ·	24. Attac	hments		·	<u> </u>		
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil	and Gas Order No). 1, a	and the H	ydraulic Fracturing r	ule per 43	CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover	the o	peration	s unless covered by a	n existing	bond on file (see
3. A Surface Use Plan (if the location is on National Forest Systen SUPO must be filed with the appropriate Forest Service Office)	n Lands, the	5. Operator certil 6. Such other site BLM.	j. ficati spec	on. ific infor	nation and/or plans as	may be re	quested by the
25. Signature (Electronic Submission)	Name	(Printed/Typed)				Date	
Title President	Brian	Wood / Ph: (720)) 46	0-3316		10/21/20)19
Approved by (Signature)	Nama	(Printo d/Torrad)		··		Det	
(Electronic Submission)	Cody L	ayton / Ph: (575)	5) 23	4-5959		Date 02/27/20)20
Title Assistant Field Manager Lands & Minerals	Office	od Field Office					
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	holds legal o	r equitable title to	thos	e rights i	n the subject lease w	hich would	l entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, ma	ke it a crime	for any person kno	owin	gly and v	villfully to make to a	ny departr	nent or agency
since office any raise, nettrious of traudulent statements of	representatio	ons as to any matte	er wi	thin its ju	risdiction.		
				-			



FN 3-16-20

*(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.

Additional Operator Remarks

Location of Well

0. SHL: LOT 2 / 701 FSL / 2095 FEL / TWSP: 26S / RANGE: 30E / SECTION: 36 / LAT: 32.0020851 / LONG: -103.8328797 (TVD: 0 feet, MD: 0 feet) PPP: NWNE / 820 FSL / 2010 FEL / TWSP: 26S / RANGE: 30E / SECTION: 36 / LAT: 32.02385 / LONG: -103.832606 (TVD: 11886 feet, MD: 12490 feet) PPP: LOT 2 / 18 FSL / 2010 FEL / TWSP: 26S / RANGE: 30E / SECTION: 36 / LAT: 32.0020215 / LONG: -103.8325926 (TVD: 10781 feet, MD: 10832 feet) BHL: NWSE / 2465 FSL / 2010 FEL / TWSP: 26S / RANGE: 30E / SECTION: 25 / LAT: 32.0128237 / LONG: -103.8326173 (TVD: 11900 feet, MD: 16280 feet)

BLM Point of Contact

Name: Tyler Hill Title: LIE Phone: (575) 234-5972 Email: tjhill@blm.gov

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	a 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.

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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
•

ļ			1	SHL			BHL							
NAME AND ADDRESS OF ADDRESS	Well Name	ULSTR	Foo	tage	Coord	linates	ULSTR	Foc	otage	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		304 FWL	32.0010602	-103.8423323	NWSW 25-265-30E	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 25-26S-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			
5314/2	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			
Dad	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 FWL	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 25-265-30E	2465 FSL	2178 FEL	32.0128248	-103.8331593			
Contractor	Nailed-It-Fed-Com 206H-	- L2-36-26S-30E-	701_FSL	2200 FEL	32.0020849	-103.8332184	NWSE 25-26S-30E	2465 FSL	1562 FEL	32.0128206	-103.8311720			
	Nailed It Fed Com 213H	L2 36-26S-30E	676 FSL 5	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 F.SL	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 36-265-30E	701 FSL	2120 FEL	32.0020850	103.8329603	NWSE 25-265-30E	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			
Sec. 1	Nailed It Fed Com 233H	L2 36-26S-30E	🏷 701 FSL 🔿	2095 FEL	32.0020851	-103.8328797	NWSE 25-265-30E	2465 FSL	2010 FEL	32.0128237	-103.8326173			
17. A	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			
	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			
dares and	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			
Eaca S	Nailed It Fed Com 214H	L1 36-265-30E	741 FSL	588 FEL	32.0021972	-103.8280170	NESE 25-26S-30E	2465 FSL	1254 FEL	32.0128184	-103.8301783			
EZEZ .	Nailed It Fed Com 218H	L1 36-265-30E	741 FSL	563 FEL	32.0021973	-103.8279363	NÉSE 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			
(5,0(4)	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			

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 after consulting with the holder.

OR

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

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

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

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

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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

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: $\frac{400'}{4\%}$ + 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) Sand love grass (Eragrostis trichodes) Plains bristlegrass (Setaria macrostachya)	1.0 1.0 2.0
i ante priorogrado (octana macrostachya)	2.0

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = p_{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 233H
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



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

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The **13-3/8** inch surface casing shall be set at approximately 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

Page 1[°] of 7

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 7-5/8 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 enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

GENERAL REQUIREMENTS

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

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

Eddy County

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

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

A. CASING

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

Page 4 of 7

- <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

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

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

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



Operator Certification Data Report

9

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

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.

NAME: Brian Wood		Signed on: 08/30/201
Title: President	-	
Street Address: 37 Verand	b Looop	
City: Santa Fe	State: NM	Zip: 87508
Phone: (505)466-8120		-
Email address: afmss@pe	rmitswest.com	
Field Represen	tative	
Street Address:		
City:	State:	Zip:
Phone: (505)466-8120		-
Email address: afmss@pe	rmitswest.com	

WAFMSS

U.S. Department of the Interior

Application Data Report

BUREAU OF LAND MANAGEMEN					
APD ID: 10400048076		Submissi	on Date: 10/21/20	19 Highli	ghted data
Operator Name: TAP ROCK OPERATING	LC			reflect	s the most
Well Name: NAILED IT FED COM		Well Num	iber: 233H	Show	Final Text
Well Type: CONVENTIONAL GAS WELL		Well Wor	k Type: Drill		
Section 1 - General					
APD ID: 10400048076	Tie to previ	ous NOS?	N	Submission Date	: 10/21/2019
BLM Office: CARLSBAD	User: Brian	Wood	Title	: President	
Federal/Indian APD: FED	Is the first l	ease penet	ated for production	on Federal or Indiar	r? FED
Lease number: NMNM138850	Lease Acres	s: 320			
Surface access agreement in place?	Allotted?		Reservation:		
Agreement in place? NO	Federal or I	ndian agree	ement:		
Agreement number:					
Agreement name:					
Keep application confidential? N					
Permitting Agent? YES	APD Operat	or: TAP RC	CK OPERATING L	LC	
Operator letter of designation:					
Operator Info	×				
Operator Organization Name: TAP ROCK	OPERATING LL	.C			
Operator Address: 602 Park Point Drive St	ite 200		Zip: 80401		
Operator PO Box:			1		
Operator City: Golden State:	СО				
Operator Phone: (720)460-3316					
Operator Internet Address:					
Section 2 - Well Informa	tion				
Well in Master Development Plan? NO	Ма	ster Devel	opment Plan name):	
Well in Master SUPO? NO	Ма	ster SUPO	name:		
Well in Master Drilling Plan? NO	Ма	ster Drillin	g Plan name:		
Well Name: NAILED IT FED COM	We	ell Number	233H	Well API Number:	
Field/Pool or Exploratory? Field and Pool	Fie W/	eld Name: F	PURPLE SAGE	Pool Name:	
Is the proposed well in an area containing	other mineral i	esources?	OTHER,NATURAL	_ GAS,OIL	

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Ор	erato	or Nar	ne: T	AP R	OCK	OPEF	RATII	NG LLC										·		
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Operator Name: TAP ROCK OPERATING LLC Well Name: NAILED IT FED COM

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Well Number: 233H

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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	Q	Q	Will this well produce rom this lease?
PPP Leg #1-2	820	FSL	201 0	FEL	26S	30E	36	Aliquot NWNE	32.02385	- 103.8326 06	E Y	DD	NEW MEXI CO	NEW MEXI CO	S	STATE	- 885 6	124 90	118 86	Y
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LOCATION & ELEVATION VERIFICATION MAP





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FMSS

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

Drilling Plan Data Report

02/28/2020

APD ID: 10400048076

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Type: CONVENTIONAL GAS WELL

Submission Date: 10/21/2019

Well Number: 233H

Highlighted data reflects the most recent changes

Show Final Text

Well Work Type: Drill

Section 1 - Geologic Formations

Formation	For the N		True Vertical	Measured	2 2 2			Producing
5 4700 A	Formation Name	Elevation	Depth	Depth	in the	Lithologies	Mineral Resources	Eormation
547634	QUATERNARY	3030	0	0		OTHER : None	NONE	N
547635	RUSTLER	2184	846	846		ANHYDRITE	OTHER : Salt	N
547636	SALADO	1634	1396	1396		SALT	OTHER : Salt	N
547637	BASE OF SALT	-406	3436	3454		SALT	OTHER : Salt	N
547638	LAMAR	-616	3646	3654		LIMESTONE	NONE	N
547639	BELL CANYON	-637	3667	3675		SANDSTONE	NATURAL GAS, OIL	N
547640	CHERRY CANYON	-1816	4846	4869		SANDSTONE	NATURAL GAS, OIL	N
547641	BRUSHY CANYON	-2766	5796	5830	_	SANDSTONE	NATURAL GAS, OIL	N
547642	BONE SPRING	-4516	7546	7597		LIMESTONE	NATURAL GAS, OIL	N
547643	BONE SPRING 1ST	-5466	8496	8547		SANDSTONE	NATURAL GAS, OIL	N
547644	BONE SPRING 2ND	-5816	8846	8897		SANDSTONE	NATURAL GAS, OIL	N
547645	BONE SPRING 3RD	-6696	9726	9777	_	SANDSTONE	NATURAL GAS, OIL	N
547646	WOLFCAMP	-7751	10781	10832		OTHER : Shale	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 233H

Pressure Rating (PSI): 5M

Rating Depth: 15000

Equipment: A 15,000 a 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 2 nd 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_20190926114626.pdf

BOP Diagram Attachment:

BOP_Diagram_101619_20191021103849.pdf

Section 3 - Casing

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	
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: 233H

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
	SURFACE	17.5	13.375	NEW	API	N	0	930	0	930	3030	2100	930	0	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	3410	0	3401	3009	-371	341	10	P- 110	29.7	BUTT	1.13	1.15	DRY	1.6	DRY	1.6
3		12.2 5	9.625	NEW	API	N	0	3710	0	3701	3009	-671	371	10	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	11000	0	10948	3009	-7918	110	000	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	3410	11200	3401	11148	-371	-8118	779	90	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	11000	16280	10948	10948	-7918	-7918	528	30	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):

Nailed_Casing_Design_Assumptions_20190926114815.pdf

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Operator Name: TAP ROCK OPERATING LLC Well Name: NAILED IT FED COM Well N	lumber: 233H
Casing Attachments	
Casing ID: 2 String Type:INTERMEDIATE Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Nailed_Casing_Design_Assumptions_20190926114854.pdf	F
Casing ID: 3 String Type:INTERMEDIATE Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Nailed_Casing_Design_Assumptions_20190926114831.pdf	
Casing ID: 4 String Type:PRODUCTION Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Nailed_Casing_Design_Assumptions_20190926114959.pdf	
Nailed_5.5in_TXP_Casing_Spec_20190926115006.PDF	

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Vell Name: NAILED IT FED COM Well Numb	ber: 233H
asing Attachments	
Casing ID: 5 String Type:INTERMEDIATE Inspection Document:	
Spec Document:	
Tapered String Spec: Nailed_7.625in_W513_Casing_Spec_20190926114935.pdf Casing Design Assumptions and Worksheet(s):	
Nailed_Casing_Design_Assumptions_20190926114941.pdf	
Casing ID: 6 String Type: PRODUCTION Inspection Document:	
Spec Document:	
Tapered String Spec:	
Nailed_5in_W521_Casing_Spec_20190926115032.pdf	
Casing Design Assumptions and Worksheet(s):	
Nailed_Casing_Design_Assumptions_20190926115038.pdf	

		· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>							
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	Ó	None	0
PRODUCTION	Tail		1070 0	1628 0	457	1.71	14.2	782	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
L										

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

Well Number: 233H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	558	431	1.8	13.5	775	100	Class C	None
SURFACE	Tail		558	930	383	1.35	14.8	517	100	Class C	5% NCI + LCM
INTERMEDIATE	Lead		0	2968	702	2.18	12.7	1534	65	Class C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
INTERMEDIATE	Tail		2968	3710	288	1.33	14.8	383	65	Class C	5% NaCI + LCM
	Lead		3410	1020 0	321	2.87	11.5	921	35	ТХІ	Fluid Loss + Dispersant + Retarder + LCM
INTERMEDIATE	Tail		1020 0	1120 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 (łbs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	На	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	930	OTHER : Fresh water spud mud	8.3	8.3							
930	3710	OTHER : Brine Water	10	10							
3710	1120 0	OTHER : Fresh water/cut brine	9	9							

Well Number: 233H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gai)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	HA	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1120 0	1628 0	OIL-BASED MUD	13	13							

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:

GAMMA RAY LOG, CEMENT BOND LOG,

Coring operation description for the well:

No DSTs or cores are planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8040

Anticipated Surface Pressure: 5422

Anticipated Bottom Hole Temperature(F): 175

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_20190926115408.pdf

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Nailed_233H_Horizontal_Plan_20190926115437.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

CoFlex_Certs_20190926115508.pdf Nailed_233H_Anticollision_Report_20190926115527.pdf Wellhead_4T_012720_20200205101337.pdf Nailed_233H_Drill_Plan_v2_020420_20200211175456.pdf

Other Variance attachment:






5,000 psi BOP Stack



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

Wedge 513®

Printed on: 01/30/2018





Outside Diameter	7.625 in.	Min. Wall Thickness	87.5%	(*) Grade P110	
Wall Thickness	0.375 in.	Connection OI Option	REGULAR	COUPLING	PIPE BODY
Grade	P110*	Drift	API Standard	Body: White 1st Band: -	1st Band: White 2nd Band: -
		Туре	Casing	2nd Band: - 3rd Band: -	3rd Band: - 4th Band: -
[
	`				
GEOMETRY		\$		2	
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	ΑΡΙ		•••••••••••••••••••••••••••••••••••••••		
PERFORMANC	Ξ		***************************************		
Body Yield Strength	940 x1000 lbs	Internal Yield	9470 psi	SMYS	110000 psi
Collapse	5350 psi				
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		
PERFORMANC	E				<u></u>
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 ×1000 ibs	Max. Allowable Bending	39.6 °/100 ft
External Pressure Capa	city 5350.000 psi				
MAKE-UP TORC	QUES	. ŧ		. <u>\$</u>	dalada da
Minimum	9000 ft-lbs	Optimum	10800 ft-lbs	Maximum	15800 ft-lbs
OPERATION LIN	AIT TORQUES				······
Operating Torque	47000 ft-lbs	Yield Torque	70000 ft-lbs		
Notes	n an ann an an an tha an th	8 	an markan kanan sana sana sana sana sana sana	n and the set of the s	ana an an tala an an tala an talan bara bara an talan ta talan ta

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-	
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				
GEOMETRY				3	
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	ine (*	1			
Tension Efficiency	73.8 %	Joint Yield Strength	428.040 x1000 lbs	Internal Pressure Capacity	13940.000 psi
Compression Efficiency	88.7 %	Compression Strength	514.460 x1000 lbs	Max. Allowable Bending	74.5 °/100 ft
External Pressure Capacity	14840.000 psi				
MAKE-UP TORQUES	3	1		A000	
Minimum	6100 ft-lbs	Optimum	7300 ft-lbs	Maximum	10700 ft-lbs
OPERATION LIMIT T	ORQUES	<u>}</u>			
		1.		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

- Gas gravity 0.7
- Pore pressure gradient .468 psi/ft above the Wolfcamp, .676 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

- 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
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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

5.5", 20#, P-110, TXP connection (modified buttress connection that provides a torque rating of nearly 24000ft-lbs)

Outside Diamete	5.500 in.	Min. Wall Thickness	87.5%		•	Clear Filte
Wall	0.361 in.	Drift	API Standard		¥	Request in
Thickne	55	Туре	Casing		•	CONNECTION
Grade	<u>P110</u>	Connection OD	REGULAR		•	INFORMATION > Blanking Dime
						 Connection's F Brochure Datasheet Man
Paper	BODY DATA					Â.
GEON	IETRY .					- Alexandria
Nomin	al OD	5.500 in.	Nominal Weight	20 lbs/ft	Drift	4.653 in.
Nomin	al ID	4.778 in.	Wall Thickness	0.361 in.	Plain End Weight	19.83 lbs/f
OD To	erance	АР				
PERF	ORMANCE	•*1				
Body Y	field Strength	641 ×1000 lbs	Internal Yield	12640 psi	SMYS	110000 psi
Collap	50	11100 psi				
GONN	ECTION DATA					4
GEOM	ETRY					
Conne	ction OD	6.100 in.	Coupling Length	9.450 in.	Connection ID	4.766 in.
Make-t	ip Loss	4.204 in.	Threads per in	5	Connection OD Option	REGULAR
PERF	RMANCE					
Tensio	Efficiency	100.0 %	Joint Yield Strength	641.000 x 1000 lbs	Internal Pressure Capacity ^[3]	12640.000
Compr Efficien	ession cy	100 %	Compression Strength	641.000 x1000 lbs	Max, Allowable Bending	92 ⁵ /100 ft
Extern Capaci	al Pressure Ty	11100.000 psi				* * • • • • • • • • • • • • • • • • • •
MAKE	UP TORQUES		n la la	· · · · · · ·		
Minimu	m m	11270 ft-lbs	Optimum	12520 ft-lbs	Maximum	13770 ñ-lb
OPER	TION LIMIT TO	RQUES	·	-	· · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
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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



Hydrogen Sulfide Drilling

Operations Plan

Tap Rock Resources

1 H2S safety instructions to the following:

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

2 H2S Detection and Alarm Systems:

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

3 Windsocks and / Wind Streamers:

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

4 Condition Flags and Signs:

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

5 Well Control Equipment:

• See Drilling Operations Plan Schematics

6 <u>Communication:</u>

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



7 Drilling Stem Testing:

No DST cores are planned at this time

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

9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary

11 Emergency Contacts

	•	
Emergency Contact	s	
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	
		I I







Plan: Plan #1 (233H/OH) Created By: MIH Consulting Date: 19:35, September 20 2019

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Tap Rock Resources, LLC.

Eddy Co, NM Nailed It Fed Com 233H

OH

Plan: Plan #1

Standard Planning Report

06 September, 2019

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3,200.0	9.00	172.60	3,197.5	-46.6	6.1	1.50	1.50	0.00	0.00	
7,000.0	9.00	172.60	6,950.8	-636.1	82.6	0.00	0.00	0.00	0.00	
11 362 7	0.00	0.00	7,548.3	-682.8	88.7	1.50	-1.50	0.00	180.00	
12 261 6	0.00	0.00	11,312.0	-682.8	88.7	0.00	0.00	0.00	0.00	
12,261.7	09.78 89.78	359.68	11,885.0	-112.0	85.5	10.00	10.00	0.00	359.68	
16,150.4	89 78	359.68 359.68	11,885.0	-111.8	85.5	0.00	0.00	0.00	0.00	
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1 1 1	Measured			Vertical			Vertical	Dogleg	Build	Turn	1
	Depth Incl	ination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Ráte	ŝ
12.3	(usft)	(°) .	(°).	(usft)	(usft)	(üsft)	(usft)	(°/100usft) (°/100usft)	(°/100usft)	ξ.
	0.0	0.00	0.00	0.0	0.0						ċå.
	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	0.0	0.0	0.00	0.00	0.00	
	700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
	800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1.	Puetlor Annudrite	0.00	0.00	846.0	0.0	0.0	0.0	0.00	0.00	0.00	
ι.	Rustiel Annyunte					•. •		a start and a s			ĺ
	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	
	1,000.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,396.0	0.00	0.00	1,396.0	0.0	0.0	0.0	0.00	0.00	0.00	
	Top Salt						i transverse		and a second	a an and a set of a set of	
	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	
	1,700.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	1
	4,000.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
	1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	1
	2,000,0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,100.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,200.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2 300 0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
	2,500.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	ĺ
	2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	Ì
	Start Build 1.50	******	a tha t				0.0	0.00	0.00	0.00	ĺ
	2,650.0	0.75	172.60	2,650.0	-0.3	00	-0.3	1 50		0.00	
	Start Build 1.50	· · . ·			,				1.50	0.00	
	2,700.0	1.50	172.60	2 700 0	1.0			- and the fact that the		and a state	
	2,800.0	3.00	172.60	2,700.0	-1.3	0.2	-1.3	1.50	1.50	0.00	t
	2,900.0	4.50	172.60	2,899.7	-11.7	1.5	-0.2	1.50	1.50	0.00	
	3,000.0	6.00	172.60	2,999.3	-20.8	2.7	-20.8	1.50	1.50	0.00	
	3,100.0	7.50	172.60 ·	3,098.6	-32.4	4.2	-32.4	1.50	1.50	0.00	
	3,183.3	8.75	172.60	3,181,1	-44 1	57	-44 1	1.50	4.50	0.00	
	Start 4400.0 hold at	3183.3 MD		-,				U	1.50	0.00	
	3,200.0	9.00	172.60	3,197.5	-46.6	61	-46.7	1 50	1.50	0.00	
	Start 3800.0 hold at	3200.0 MD				••••	10.1	1.50	1.50	0.00	
	3,300.0	9.00	172.60	3,296.3	-62.1	8.1	-62.2	0.00	0.00	0.00	1
	3,400.0	9.00	172.60	3,395.1	-77.7	10.1	-77.7	0.00	0.00	0.00	
· ·	3,441.4	9.00	172.60	3,436.0	-84.1	10.9	-84.1	0.00	0.00	0.00	
	Dase Salt										
	3,500.0	9.00	172.60	3,493.8	-93.2	12.1	-93.2	0.00	0.00	0.00	
	3,600.0	9.00	172.60	3,592.6	-108.7	14.1	-108.8	0.00	0.00	0.00	
	3,649.0	9.00	172.60	3,641.0	-116.3	15.1	-116.4	0.00	0.00	0.00	
1	Jelaware Mountain	Gp									
	3,054.1	9.00	172.60	3,646.0	-117.1	15.2	-117.2	0.00	0.00	0.00	
I	_amar 3 675 3	0.00	470.00								
	S, 07 J. S	9.00	172.60	3,667.0	-120.4	15.6	-120.5	0.00	0.00	0.00	
	Sell GallyOll										
	3,684.4	9.00	172.60	3,676.0	-121.8	15.8	-121.9	0.00	0.00	0.00	ĺ
F	Ramsey Sand						-		0.00	0.00	
	3,700.0	9.00	172.60	3,691.4	-124.2	16.1	-124.3	0.00	0.00	0.00	
	3,800.0	9.00	172.60	3,790.1	-139.7	18.1	-139.8	0.00	0.00	0.00	1
	3,900.0	9.00	172.60	3,888.9	-155.2	20.2	-155.3	0.00	0.00	0.00	ſ
	4,000.0	9.00	172.60	3,987.7	-170.7	22.2	-170.9	0.00	0.00	0.00	
	4,100.0	9.00	172.60	4,086.5	-186.3	24.2	-186.4	0.00	0.00	0.00	ł
	4,200.0	9.00	172.60	4,185.2	-201.8	26.2	-201.9	0.00	0.00	0.00	
	4,300.0 4 400 0	9.00	172.60	4,284.0	-217.3	28.2	-217.4	0.00	0.00	0.00	
	4,500.0	9.00 9.00	172.60	4,382.8	-232.8	30.2	-233.0	0.00	0.00	0.00	I
		0.00	112.00	4,401.5	-248.3	32.2	-248.5	0.00	0.00	0.00	Į.

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Planne	d Survey	••••••••••••••••••••••••••••••••••••••					E.C.			······································
2.52	State Part				a start and a start a s	1997 - AN 1		A Carlo and	1	
r. et al.	Measured		alla and a second	Vertical	. Salaran -		Vertical	Dogleg	Build	Turn
Starten and Start	Ueptn Inclina	ation A:	zimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
Hallin	(usit) (a)	· • • •		(USIL)	(usπ)	(ustt)	(usπ) +	(*/100usft) (*	/100usft) (/100ustt)
	4,600.0	9.00	172.60	4,580.3	-263.8	34.3	-264.0	0.00	0.00	0.00
	4,700.0	9.00	172.60	4,679.1	-279.3	36.3	-279.5	0.00	0.00	0.00
	4,800.0	9.00	172.60	4,777.8	-294.8	38.3	-295.1	0.00	0.00	0.00
	4,869.0	9.00	172.60	4,846.0	-305.6	39.7	-305.8	0.00	0.00	0.00
	Linerry Canyon	0.00	172.60	A 976 C	240.4	40.0	040.0			
	4,500.0	3.00	172.00	4,070.0	-310.4	40.3	-310.6	0.00	0.00	0.00
	5,000.0	9.00	172.60	4,975.4	-325.9	42.3	-326.1	0.00	0.00	0.00
	5.200.0	9.00	172.60	5,074.1	-341.4	44.3 46.4	-341.6	0.00	0.00	0.00
	5,300.0	9.00	172.60	5,271.7	-372.4	48.4	-372.7	0.00	0.00	0.00
	5,400.0	9.00	172.60	5,370.4	-387.9	50.4	-388.2	0.00	0.00	0.00
	5,500.0	9.00	172.60	5,469.2	-403.4	52.4	-403.7	0.00	0.00	0.00
	5,600.0	9.00	172.60	5,568.0	-419.0	54.4	-419.2	0.00	0.00	0.00
	5,700.0	9.00	172.60	5,666.8	-434.5	56.4	-434.8	0.00	0.00	0.00
	5,800.0	9.00	172.60	5,765.5	-450.0	58.4	-450.3	0.00	0.00	0.00
5 ¹	Brushy Canyon	3.00	172.00	5,790.0	-434.6	59.1	-455.1	0.00	0.00	0.00
1	E anna a	ు గా చెల్లి కొంది. రాజులు	1947 - 1979 - 1979 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 - 1979 -	1 มีโรคได้เริ่ม จะเป็นไม่ได้ 		1 A. 1998	Same Maria 🕹 🗠	n an		e har star sen de star Berder en ser en ser
	5,900.0	9.00	172.60	5,864.3	-465.5	60.5	-465.8	0.00	0.00	0.00
	6,100.0	9.00	172.60	5,963.1	-481.0	62.5 64.5	-481.3	0.00	0.00	0.00
	6,200.0	9.00	172.60	6,160.6	-512.0	66.5	-490.9	0.00	0.00	0.00
	6,300.0	9.00	172.60	6,259.4	-527.5	68.5	-527.9	0.00	0.00	0.00
	6,400.0	9.00	172.60	6,358,1	-543.1	70.5	-543 4	0.00	0.00	0.00
	6,500.0	9.00	172.60	6,456.9	-558.6	72.5	-559.0	0.00	0.00	0.00
	6,600.0	9.00	172.60	6,555.7	-574.1	74.6	-574.5	0.00	0.00	0.00
	6,700.0	9.00	172.60	6,654.4	-589.6	76.6	-590.0	0.00	0.00	0.00
	0,000.0	9.00	172.00	0,755.2	-605.1	78.6	-605.5	0.00	0.00	0.00
	6,900.0	9.00	172.60	6,852.0	-620.6	80.6	-621.1	0.00	0.00	0.00
: •	7,000.0	9.00	172.60	6,950.8	-636.1	82.6	-636.6	0.00	0.00	0.00
	7.100.0	7.50	172 60	7 049 7	-650.4	84.5	-650.8	1.50	-1.50	0.00
	7,200.0	6.00	172.60	7,149.0	-662.0	86.0	-662.5	1.50	-1.50	0.00
	7,300.0	4.50	172.60	7,248.6	-671.1	87.2	-671.6	1.50	-1.50	0.00
	7,400.0	3.00	172.60	7,348.4	-677.6	88.0	-678.1	1.50	-1.50	0.00
	7,500.0	1.50	172.60	7,448.3	-681.5	88.5	-682.0	1.50	-1.50	0.00
	7,583.3	0.25	172.60	7,531.6	-682.7	88.7	-683.2	1.50	-1.50	0.00
	Start Drop -1.50						- 1 - 1			
	7,597.7 Demo Ornina Lina	0.03	172.60	7,546.0	-682.8	88.7	-683.3	1.50	-1.50	0.00
	Z 600 0	0.00	0.00	7 549 2	690.9	00 7	682.2	1.50	4.50	0.00
	Start 3763 7 hold at 7	600 0 MD	0.00	7,040.0	-002.0	00.7	-003.3	1.50	-1.50	0.00
		000.0 MD			an a Star in the					
	7,700.0	0.00	0.00	7,648.3	-682.8	88.7	-683.3	0.00	0.00	0.00
	Upper Avalon	0.00	0.00	7,000.0	-002.0	00.7	-003.3	0.00	0.00	0.00
	7,800.0	0.00	0.00	7,748,3	-682.8	88.7	-683.3	0.00	0.00	0.00
	7,900.0	0.00	0.00	7,848.3	-682.8	88.7	-683.3	0.00	0.00	0.00
	8,000.0	0.00	0.00	7,948.3	-682.8	88.7	-683.3	0.00	0.00	0.00
	8,100.0	0.00	0.00	8,048.3	-682.8	88.7	-683.3	0.00	0.00	0.00
	8,107.7	0.00	0.00	8,056.0	-682.8	88.7	-683.3	0.00	0.00	0.00
	Middle Avalon	0.00	0.00	0.005.0						
	0,110.7. Start 3241 6 hold at 9	0.00 446 7 MD	0.00	8,065.0	-682.8	88.7	-683.3	0.00	0.00	0.00
	8 200 0	0.00	0.00	8 148 3	-682.8	88 7	-683 3	0.00	0.00	0.00
	8,300.0	0.00	0.00	8,248.3	-682.8	88.7	-683.3	0.00	0.00	0.00
	8.327 7	0.00	0.00	8 276 0	-682 8	88 7	-683 3	0.00	0.00	0.00
	Lower Avaion	0.00	0.00	0,270.0	002.0	00.7	-003,3	0.00	0.00	0.00
	8,400.0	0.00	0.00	8,348.3	-682.8	88 7	-683 3	0.00	0.00	0.00
	8,500.0	0.00	0.00	8,448.3	-682.8	88.7	-683.3	0.00	0.00	0.00
	8,547.7	0.00	0.00	8,496.0	-682.8	88.7	-683.3	0.00	0.00	0.00
	1st Bone Spring Sand	t a a c			_					
	8,600.0	0.00	0.00	8,548.3	-682.8	88.7	-683.3	0.00	0.00	0.00
	8,700.0	0.00	0.00	8,648.3	-682.8	88.7	-683.3	0.00	0.00	0.00
	8,800.0 8,807.7	0.00	0.00	8,748.3	-682.8	88.7	-683.3	0.00	0.00	0.00
	0,09/./ 2nd Bono Spring C	0.00 h	0.00	8,846.0	-082.8	88.7	-683.3	0.00	0.00	0.00
I	and bone opining car	N				1				

Planned Surve	ey .	[a series and a series of the s					
	and the second		33				Star Star			nanang ng pang ng pang Ng pang ng pang Ng pang ng pang
Meas	ured			Vertical			Vertical	Dogleg	Build	Turn
Dep	th 👘 Inc	lination	zimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(us	ft)	· (°)	(°)	(usft)	(usft)	ີ (usft)	(usft)	(°/100úsft)	(°/100usft)	(°/100usft)
8	900.0	0.00	0 00	8 848 3	-682.8	88 7	-683.3	0.00	0.00	0.00
9.	0.000	0.00	0.00	8,948.3	-682.8	88.7	-683.3	0.00	0.00	0.00
9	100.0	0.00	0.00	9 048 3	-682.8	88.7	683.3	0.00		` 0.00
9	177.7	0.00	0.00	9,126.0	-682.8	88.7	-683.3	0.00	0.00	0.00
2nd I	Bone Spring	Sand	· · · · · ·					2		0.00
9,	200.0	0.00	0.00	9,148.3	-682.8	88.7	-683.3	0.00	0.00	0.00
. 9,	300.0	0.00	0.00	9,248.3	-682.8	88.7	-683.3	0.00	0.00	0.00
9,	400.0	0.00	0.00	9,348.3	-682.8	88.7	-683.3	0.00	0.00	0.00
9,	500.0	0.00	0.00	9,448.3	-682.8	88.7	-683.3	0.00	0.00	0.00
9,	600.0	0.00	0.00	9,548.3	-682.8	88.7	-683.3	0.00	0.00	0.00
9,	700.0	0.00	0.00	9,648.3	-682.8	88.7	-683.3	0.00	0.00	0.00
9,		0.00	0.00	9,726.0	-682.8	88.7	-683.3	0.00	0.00	0.00
Sra E	sone Spring	Carb	0.00	07492	 	· · · · · · · · · · · · · · · · · · ·			letter . Laterie	
5,	000.0	0.00	0.00	5,740.5	-002.0	00.7	-683.3	0.00	0.00	0.00
9,	900.0	0.00	0.00	9,848.3	-682.8	88.7	-683.3	0.00	0.00	0.00
10,	100.0	0.00	0.00	9,948.3	-682.8	88.7	-683.3	0.00	0.00	0.00
10,	200.0	0.00	0.00	10,046.5	-002.0	00.7	-003.3	0.00	0.00	0.00
10,	300.0	0.00	0.00	10,340.3	-682.8	88.7	-003.3	0.00	0.00	0.00
10	400.0	0.00	0.00	10,240.0	002.0	00.7	-000.0	0.00	0.00	0.00
10,	400.0	0.00	0.00	10,348.3	-682.8	88.7	-683.3	0.00	0.00	0.00
2-40	44/./	0.00	0.00	10,396.0	-682.8	88.7	-683.3	0.00	0.00	0.00
10	500 0		0.00	10 449 2	600.0	00.7	000.0			
10,	500.0 600.0	0.00	0.00	10,440.3	-082.8	88.7	-683.3	0.00	0.00	0.00
10,	700.0	0.00	0.00	10,648.3	-682.8	88.7	-083.3	0.00	0.00	0.00
10	747 7	0.00	0.00	10,000,0	000.0	00.7	000.0	0.00	0.00	0.00
3rd P	S M'Sand	0.00	0.00	10,090.0	-682.8	88.7	-683.3	0.00	0.00	0.00
10	800.0	0.00	0.00	10 748 3	692.9	00 7	600 0	0.00	0.00	
10,	832.7	0.00	0.00	10,740.5	-682.8	88.7	-003.3	0.00	0.00	0.00
Wolfe	amp A X Sa	nd	and the second sec		002.0	00.7		0.00	0.00	0.00
10,	900.0	0.00	0.00	10,848,3	-682.8	88.7	-683 3	0.00	0.00	0.00
10,	957.7	0.00	0.00	10,906.0	-682.8	88.7	-683.3	0.00	0.00	0.00
Wolfe	amp A Y Sa	nd	· · · · · · · · · · · · · · · · · · ·		·			in a second		- martin
11	000.0	0.00	0.00	10 9/8 3	-682.8	88.7	602.2	0.00	0.00	0.00
11,	047.7	0.00	0.00	10,996.0	-682.8	88.7	-683.3	0.00	0.00	0.00
Wolfe	amp A Low	er	14 A standard at som -						0.00	0.00
11,	100.0	0.00	0.00	11,048.3	-682.8	88.7	-683.3	0.00	0.00	0.00
11,	200.0	0.00	0.00	11,148.3	-682.8	88.7	-683.3	0.00	0.00	0.00
11,	247.7	0.00	0.00	11,196.0	-682.8	88.7	-683.3	0.00	0.00	0.00
Wolfe	amp B	. <u>.</u> .	· ,							
11,	300.0	0.00	0.00	11,248.3	-682.8	88.7	-683.3	0.00	0.00	0.00
11,	358.3	0.00	0.00	11,306.6	-682.8	88.7	-683.3	0.00	0.00	0.00
Start	Build 10.00								.*	the second s
11,	363.7	0.00	0.00	11,312.0	-682.8	88.7	-683.3	0.00	0.00	0.00
Start	Build 10.00									
11,	400.0 450.0	3.63	359.68	11,348.3	-681.6	88.7	-682.1	10.00	10.00	0.00
''''	-00.0	0.00	203.00	11,398.0	-010.3	88.6	-6/6.8	10.00	10.00	0.00
11,	500.0	13.63	359.68	11,447.0	-666.6	88.6	-667.1	10.00	10.00	0.00
11,	550.0 500.2	18.63	359.68	11,495.0	-652.8	88.5	-653.2	10.00	10.00	0.00
Wolfe	amn B1	23.50	339.00	11,541.0	-635.0	88.4	-635.5	10.00	10.00	0.00
11 0	600 0	23.63	359 68	11 541 6	-634 7	88.4	-635.2	10.00	10.00	0.00
11,0	650.0	28.63	359.68	11,586.5	-612.7	88.3	-613.2	10.00	10.00	0.00
11	700.0	22.62	250.69	11 600 0	590.0	00.4	507.4	10.00	10.00	0.00
11,	750.0	38.63	359.00 359.68	11,029.3 11 660 7	-286.9 -567 1	88.1 88.0	-58/.4	10.00	10.00	0.00
11 1	800.0	43.63	359.68	11,707.3	-524.5	87.8	-557,9	10.00	10.00	0.00
11.0	850.0	48.62	359.68	11,742.0	-488.5	87.6	-489.0	10.00	10.00	0.00
11,8	871,7	50.79	359.68	11,756.0	-472.0	87.5	-472.5	10.00	10.00	0.00
Wolfd	amp C								-	
11 0	0 0 0	53.62	359 68	11 773 /	-149 6	P7 4	150 1	10.00	10.00	
11.	950.0	58 62	359.68	11 801 2	-449.0	07.4 87.1	-450.1 -408 6	10.00	10.00	0.00
12.0	0.00	63.62	359.68	11,825.4	-364.3	86.9	-364.8	10.00	10.00	0.00
12,0	018.2	65.44	359.68	11,833.2	-347.9	86.8	-348.4	10.00	10.00	0.00
FTP_2	233H									
12,0	050.0	68.62	359.68	11,845.6	-318.6	86.6	-319.1	10.00	10.00	0.00
		· · · · · · · · · · · · · · · · · · ·								

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Planne	ed Survey								and a second	n an	
1993									See. Lat.	1. 4. 7 C . 1.	ئىچىنى، بىيىنە يە. بار بار
	Measured		2	Vertical			Vertical	Dogleg	Build	Turn	
Server .	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section,	Rate	Rate	Rate	
See.	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
	12,100.0	73.62	359.68	11,861.8	-271.3	86.4	-271.8	10.00	10.00	0.00	
	12,150.0	78.62	359.68	11,873.7	-222.8	86.1	-223.3	10.00	10.00	0.00	
	12,200.0	83.62	359.68	11,881.5	-173.4	85.8	-173.9	10.00	10.00	0.00	
	12,250.0	88.62	359.68	11,884.8	-123.6	85.6	-124.0	10.00	[.] 10.00	0.00	
	12,256.2	89.24	359.68	11,885.0	-117.4	85.5	-117.9	10.00	10.00	0.00	
	Start 47.1 n	old at 12256.2 MD			•		· · · · ·			. ,	
	12,261.6	89.78	359.68	11,885.0	-112.0	85.5	-112.5	10.00	10 00	0.00	
	12,261.7	89.78	359.68	11,885.0	-111.8	85.5	-112.3	0.00	0.00	0.00	
	Start 3888.7	hold at 12261.7 M	٧D	and the second second		1997 - 1997 -		يمينين و من ع د بر م	ани н Эл	-	
1	12,300.0	89.78	359.68	11,885.1	-73.6	85.3	-74.0	0.00	0.00	0.00	
· · · ·	12,303.3	89.78	359.68	11,885.2	-70.3	85.3	-70.8	0.00	0.00	0.00	
1	Start 3839.9	hold at 12303.3 M	ND	کی کرد کرد. ایرون کرد				- the second s			
	12,400.0	89.78	359.68	11,885.5	26.4	84.7	26.0	0.00	0.00	0.00	
	12,500.0	89.78	359.68	11,885.9	126.4	84.2	126.0	0.00	0.00	0.00	
	12,600.0	89.78	359.68	11,886.3	226.4	83.6	226.0	0.00	0.00	0.00	
	12,700.0	89.78	359.68	11,886.7	326.4	83.0	326.0	0.00	0.00	0.00	
	12,800.0	89.78	359.68	11,887.1	426.4	82.5	426.0	0.00	0.00	0.00	
	12,900.0	89.78	359.68	11,887.5	526.4	81.9	526.0	0.00	0.00	0.00	
	13,000.0	89.78	359.68	11,887,8	626.4	81.4	626.0	0.00	0.00	0.00	
	13,100.0	89.78	359.68	11,888.2	726.4	80.8	726.0	0.00	0.00	0.00	
	13,200.0	89.78	359.68	11,888.6	826.4	80.2	826.0	0.00	0.00	0.00	
	13,300.0	89.78	359.68	11,889.0	926.4	79.7	926.0	0.00	0.00	0.00	
	13,400.0	89.78	359.68	11,889.4	1,026.4	79.1	1,026.0	0.00	0.00	0.00	
	13,500.0	89.78	359.68	11,889.8	1,126,4	78.6	1 126 0	0.00	0.00	0.00	
	13,600.0	89.78	359.68	11,890.1	1,226.4	78.0	1.226.0	0.00	0.00	0.00	
]	13,700.0	89.78	359.68	11,890.5	1,326.4	77.5	1,326.0	0.00	0.00	0.00	i i
1	13,800.0	89.78	359.68	11,890.9	1,426.4	76.9	1,426.0	0.00	0.00	0.00	
	13,900.0	89.78	359.68	11,891.3	1,526.4	76.3	1,526.0	0.00	0.00	0.00	
	14,000.0	89.78	359.68	11,891.7	1,626,4	75 8	1 626 0	0.00	0.00	0.00	
	14,100.0	89.78	359.68	11,892.1	1,726.4	75.2	1,725.9	0.00	0.00	0.00	
	14,200.0	89.78	359.68	11,892.4	1,826.4	74.7	1,825.9	0.00	0.00	0.00	
l	14,300.0	89.78	359.68	11,892.8	1,926.4	74.1	1,925.9	0.00	0.00	0.00	
	14,400.0	89.78	359.68	11,893.2	2,026.4	73.5	2,025.9	0.00	0.00	0.00	
	14,500.0	89.78	359.68	11,893.6	2,126,4	73.0	2 125 9	0.00	0.00	0.00	
	14,600.0	89.78	359.68	11,894.0	2,226.4	72.4	2,225.9	0.00	0.00	0.00	Í
	14,700.0	89.78	359.68	11,894.4	2,326.4	71.9	2,325.9	0.00	0.00	0.00	
	14,800.0	89.78	359.68	11,894.7	2,426.4	71.3	2,425.9	0.00	0.00	0.00	
	14,900.0	89.78	359.68	11,895.1	2,526.4	70.8	2,525.9	0.00	0.00	0.00	
	15,000.0	89.78	359.68	11,895.5	2,626.4	70.2	2.625.9	0.00	0.00	0.00	
	15,100.0	89.78	359.68	11,895.9	2,726.4	69.6	2,725.9	0.00	0.00	0.00	
	15,200.0	89.78	359.68	11,896.3	2,826.4	69.1	2,825.9	0.00	0.00	0.00	
	15,300.0	89.78	359.68	11,896.7	2,926.4	68.5	2,925.9	0.00	0.00	0.00	
	15,400.0	89.78	359.68	11,897.1	3,026.4	68.0	3,025.9	0.00	0.00	0.00	ĺ
	15,500.0	89.78	359.68	11,897.4	3,126.4	67.4	3,125.9	0.00	0.00	0.00	
	15,600.0	89.78	359.68	11,897.8	3,226.4	66.8	3,225.9	0.00	0.00	0.00	
	15,700.0	89.78	359.68	11,898.2	3,326.4	66.3	3,325.9	0.00	0.00	0.00	
	15,800.0	89.78	359.68	11,898.6	3,426.4	65.7	3,425.9	0.00	0.00	0.00	
	15,900.0	09.70	359.68	11,899.0	3,526.4	65.2	3,525.9	0.00	0.00	0.00	
	16,000.0	89.78	359.68	11,899.4	3,626.4	64.6	3,625.9	0.00	0.00	0.00	
	16,100.0	89.78	359.68	11,899.7	3,726.4	64.1	3,725.9	0.00	0.00	0.00	
	16,143.2	89.78	359.68	11,899.9	3,769.5	63.8	3,769.1	0.00	0.00	0.00	
	Start 130.0 h	old at 16143.2 MD)								
	10,150.4	89.78	359.68	11,900.0	3,776.8	64.0	3,776.4	0.00	0.00	0.00	
	Start 130.0 h	old at 16150.4 MD	- LTP_233H								
	16,200.0	89.78	359.68	11,900.2	3,826.3	63.7	3,825.9	0.00	0.00	0.00	
	16,273.2	89.78	359.68	11,900.5	3,899.5	63.3	3,899.1	0.00	0.00	0.00	
	TD at 16273.2	2								0.00	
	16,280.5	89.78	359.68	11,900.5	3,906.8	63.2	3,906.4	0.00	0.00	0.00	
	TD at 16280.5	5 - PBHL_233H					-				
	·	·····								-	

Design Targets Target Name - hit/miss target Dip - Shape	Angle (°)	Dip Dir. (°)	. TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northin (usft)	9	Easting (usft)	Latitude	Longitude
FTP_233H - plan misses target cente - Point	0.00 r by 56.7u	0.00 Jsft at 12018	11,885.0 3.2usft MD	-370.8 (11833.2 TVD, -	87.1 347.9 N, 86.8 I	364,48 E)	36.24	696,556.57	32° 0' 3.833 N	103° 49' 57.376 W
LTP_233H - plan hits target center - Point	0.00	0.00	11,900.0	3,776.8	64.0	368,63	33.87	696,533.48	32° 0' 44.879 N	103° 49' 57.421 W
PBHL_233H - plan hits target center - Point	0.00	0.00	11,900.5	3,906.8	63.2	368,76	3.88	696,532.76	32° 0' 46.165 N	103° 49' 57.422 W

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Formations

Measured Depth (usft)	Vertical Depth (usft)		Dip Dip Direction
846.0	846.0	Rustler Anhydrite	Lithology, (°)
1,396.0	1,396.0	Top Salt	
3,441.4	3,436.0	Base Salt	
3,649.0	3,641.0	Delaware Mountain Gp	
3,654.1	3,646.0	Lamar	
3,675.3	3,667.0	Bell Canyon	
3,684.4	3,676.0	Ramsey Sand	
4,869.0	4,846.0	Cherry Canyon	
5,830.9	5,796.0	Brushy Canyon	
7,597.7	7,546.0	Bone Spring Lime	
7,717.7	7,666.0	Upper Avalon	
8,107.7	8,056.0	Middle Avalon	
8,327.7	8,276.0	Lower Avalon	
8,547.7	8,496.0	1st Bone Spring Sand	
8,897.7	8,846.0	2nd Bone Spring Carb	
9,177.7	9,126.0	2nd Bone Spring Sand	
9,777.7	9,726.0	3rd Bone Spring Carb	
10,447.7	10,396.0	3rd Bone Spring Sand	
10,747.7	10,696.0	3rd BS W Sand	
10,832.7	10,781.0	Wolfcamp A X Sand	
10,957.7	10,906.0	Wolfcamp A Y Sand	
11,047.7	10,996.0	Wolfcamp A Lower	
11,247.7	11,196.0	Wolfcamp B	
11,599.3	11,541.0	Wolfcamp B1	
11,871.7	11,756.0	Wolfcamp C	
	a kina and the second second		

Plan Annotatio	ns				8 - 4 - 4 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	an a second second and a second second second and a second s
	Measured Depth (usft)	Verticăl Depth (usft)	Local Coordi +N/-S (usft)	nates +E/-W (usft)	Comment	
	2,600.0	2,600.0	0.0	0.0	Start Build 1	150
	2,650.0	2,650.0	-0.3	0.0	Start Build 1	.50
	3,183.3	3,181.1	-44.1	5.7	Start 4400.0	hold at 3183.3 MD
	3,200.0	3,197.5	-46.6	6.1	Start 3800.0	hold at 3200.0 MD
	7,000.0	6,950.8	-636.1	82.6	Start Drop -	1.50
	7,583.3	7,531.6	-682.7	88.7	Start Drop -	1.50
	7,600.0	7,548.3	-682.8	88.7	Start 3763.7	hold at 7600.0 MD
	8,116.7	8,065.0	-682.8	88.7	Start 3241.6	hold at 8116.7 MD
	11,358.3	11,306.6	-682.8	88.7	Start Build 1	0.00
	11,363.7	11,312.0	-682.8	88.7	Start Build 1	0.00
	12,256.2	11,885.0	-117.4	85.5	Start 47.1 ho	old at 12256.2 MD
	12,261.7	11,885.0	-111.8	85.5	Start 3888.7	hold at 12261.7 MD
	12,303.3	11,885.2	-70.3	85.3	Start 3839.9	hold at 12303.3 MD
	16,143.2	11,899.9	3,769.5	63.8	Start 130.0 /	old at 16143.2 MD
	16,150.4	11,900.0	3,776.8	64.0	Start 130.0 h	old at 16150.4 MD
	16,273.2	11,900.5	3,899.5	63.3	TD at 16273	.2
	16,280.5	11,900.5	3,906.8	63.2	TD at 16280	.5

Hydrostatic Test Certificate

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Contificants the stand	Tan		Contitech
938562	COM 0 938562	rder Reference	Customer Name & Address
Customer Purchase Order No:	7400433	386	1434 SOUTH BOULDER AVE
Project: HOW		·····	USA USA
Test Center Address	1778	Accepted by COM Inspection	
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Date:	Roger Suarez	Accepted by/Client Inspection

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

Item P	art No.	10 10 10 10	1 1 1 1 1	Work	7	-
sale of the second	Description	Qrity	Serial Number	Press:	Press.	(minutes)
20	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OA	NL 1	53631	10,000 psi	15,000 psi	60
30	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OA	.L 1	54500	10,000 psi	15,000 psi	60
40	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OA	L 1	56838	10,000 psi	15,000 psi	60
50	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OA	L 1	56489	10,000 psi	15,000 psi	60
60	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OA	L 1	61475	10,000 psi	15,000 psi	60
80	RECERTIFICATION - 3* ID 10K Choke and Kill Hose x 35 ft OA	L 1	60197	10.000 psi	15,000 psi	60
90	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAI	L 1	39474	10,000 psi	15,000 psi	60
100	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAI	- 1	60887	10.000 psi	15 000 nsi	en.

Corporation.

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Certificate of Conformity

		ContiTech
Certificate Number 938562	COM Order Reference	Customer Name & Address
Customer Purchase Order No:	740043386	IHELMERICH & PAYNE DRILLING CO
D		TULSA, OK 74119
Project: HOW		USA
Test Center Address	Accepted by COM Inspection	Accepted/by/Client/Inspection
ContiTech Oll & Marine Corp.	Roger Suarez	
11535 Brittmoore Park Drive Houston, TX 77041	Signed:	
USA	Date: 213/17	

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.

ltèm	Part No.	Description	Qnty	Serial Number	Specifications 49.97
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 ft 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	3	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

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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	t j	Test Pressure 15000PSI
Manufacturing S	tandard API 16C	÷	
Connections			
End A: 4.1/16" 1	OKpsi API Spec 6A Type 6B	BX Flange	End B: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange
 No damage 		1	No damage
Material: Carbor	n Steel		Material: Carbon Steel
Seal Face: BX155			Seal Face: BX155
Length Before Hydro 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. <u>Hose #53631 is suitable for continued service.</u>

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	1 × 1 × 1
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

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ContiTech Oil & Marine

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

Hose Manufacturer Contitech Rubber Industrial

Hose Serial #	54500	Date of Manufacture 01/2009
Hose I.D.	3"	Working Pressure 10000PSI
Hose Type	Choke and Kill	Test Pressure 15000PSI
Manufacturing S	itandard API 16C	
Connections		· · ·
End A: 3.1/8" 5K	Psi API Spec 6A Type 6BX Flang	e End B: 3.1/8" 5Kpsi API Spec 6A Type 6BX Flange
No damage		No damage
Material: Carbon Steel		Material: Carbon Steel
Seal Face: BX155		Seal Face: BX155
Length Before H	ydro Test: 35'	Length After Hydro test: 35/

Conclusion: Hose #54500 passed the external inspection with no notable damages to the hose armor. Internal borescope of the hose showed no damage to the liner. Hose #54500 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. <u>Hose #54500 is suitable for continued service</u>.

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 pressureitest (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.

Issued By: Alejandro Jaimes Date: 03/13/2017 Checked By: Gerson Mejia-Lazo Date: 03/13/2017

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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 # 56838	Date of Manufacture 11/2010
Hose I.D. 3"	Working Pressure 10000051
Hose Type Choke and Kill	Test Pressure 15000psi
Manufacturing Standard API 16C	
Connections	
End A: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange	End B: 4 1/16" 10Kpst API Spec 6A Tupo CDV Flag
No damage	No damage
Material: Carbon Steel	Material: Carbon Steel
Seal Face: BX155	Seal Face: BX155
Length Before Hydro Test: 35'	Length After Hydro test 35/

Conclusion: Hose #56838 passed the external inspection with no notable damage to the hose armor. Internal borescope of the hose showed no damage to the liner. Hose #56838 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. Hose #56838 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.

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



ContiTech Oil & Marine

Customer	Customer Reference #	CBC Reference #	CBC Inspector	Date of inspection
H&P Drilling	740043386	COM938562	A. Jaimes	03/01/2017

Hose Manufacturer Contitech Rubber Industrial

			4
Hose Serial #	56489	Date of Manufacture	08/2010
Hose I.D.	3"	Working Pressure	10000PSI
Hose Type	Choke and Kill	Test Pressure	15000PSI
Manufacturing St	tandard API 16C	•••••••••••••••••••••••••••••••••••••••	
Connections			
End A: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange		End B: 4.1/16" 10Kpsi	API Spec 6A Type 6BX Flange
No damage		No damage	and the second
Material: Carbon Steel		Material: Carbon Steel	
Seal Face: BX155		Seal Face: BX155	
Length Before Hydro Test: 35'		Length After Hydro te	st: 35″

Conclusion: Hose #56489 passed the external inspection with no notable damage to the hose armor. Internal borescope of the hose showed no damage to the liner. Hose #56489 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. <u>Hose #56489 is suitable for continued service</u>.

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.

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



ContiTech Oil & Marine

Customer	Customer Reference #	CBC Reference #	CBC Inspector	Date of Inspection
H&P Drilling	740043386	COM938562	A. Jaimes	03/01/2017

Hose Manufacturer Contitech Rubber Industrial

Hose Serial #	61475	Date of Manufacture	01/2012	
Hose I.D.	3"	Working Pressure	10000PSI	
Hose Type	Choke and Kill	Test Pressure	15000PSI	
Manufacturing S	tandard API 16C		······································	
Connections				
End A: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange		End B: 4.1/16" 10Kpsi A	PI Spec 6A Type 6BX Flange	
No damage		No damage		
Material: Carbon Steel		Material: Carbon Steel		
Seal Face: BX155		Seal Face: BX155		
Length Before Hydro Test: 35'		Length After Hydro test	:: 35'	

Conclusion: Hose #61475 passed the external inspection with no notable damage to the hose armor. Internal borescope of the hose showed no damage to the liner. Hose #61475 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. <u>Hose #61475 is suitable for continued service</u>.

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 operaling conditions recorded during the hose service life, in particular maximums and peak conditions.

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


ContiTech Oil & Marine

Customer	Customer Reference #	CBC Reference #	CBC Inspector	Date of Inspection
H&P Drilling	740043386	COM938562	A. Jaimes	03/07/2017

Hose Manufacturer Contitech Rubber Industrial

Hose Serial #	60197	Date of Manufacture 01/2011		
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	OKpsi 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 Hydro Test: 35'		Length After Hydro test: 35'		

Conclusion: Hose #60197 passed the external inspection with minor damage to the hose armor. Internal borescope showed no damage to the liner. Hose #60197 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. <u>Hose #60197 is suitable for continued service.</u>

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	1977 - 19
Approx. Distance from End A	6'
Width	1″
Length	1"
Depth	On armor
Notes	Crack on armor



Issued By: Alejandro Jaimes Date: 03/10/2017 Checked By: Gerson Mejia-Lazo Date: 03/10/2017 Page 1 of 2 QF97

ContiTech Oil & Marine

Customer	Customer Reference #	CBC Reference #	CBC Inspector	Date of Inspection
H&P Drilling	740043386	COM938562	A. Jaimes	03/07/2017

External Damage Post – Hydro test	
Approx. Distance from End A	20'
Width	1″
Length	1"
Depth	On armor
Notes	Crack on armor



Issued By: Alejandro Jaimes Date: 03/10/2017

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

Page **2** of **2** QF97



ContiTech Oil & Marine

Customer	Customer Reference #	CBC Reference #	CBC Inspector	Date of Inspection
H&P Drilling	740043386	COM938562	A. Jaimes	03/02/2017

Hose Manufacturer Contitech Rubber Industrial

Hose Serial #	39474	Date of Manufacture 08/2003
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	OKpsi 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: Garbon Steel
Seal Face: BX155		Seal Face: BX155
Length Before Hy	dro Test: 35'	Length After Hydro test: 35'

Conclusion: Hose #39474 passed the external inspection with minor damage to the hose armor. Internal borescope showed no damage to the liner. Hose #39474 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. <u>Hose #39474 is suitable for continued service</u>.

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.

		THE MEETING DEPENDENCE
External Damage		
Post – Hydro test		
Approx. Distance from End A	15'	
Width	1″	
Length	1″	
Depth	To hose body	
Notes	Cracked armor	

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ContiTech Oil & Marine

Customer	Customer Reference #	CBC Reference #	CBC Inspector	Date of Inspection
H&P Drilling	740043386	COM938562	A. Jaimes	03/07/2017

Hose Manufacturer Contitech Rubber Industrial

Hose Serial #	60887	Date of Manufacture 10/2011
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" 5	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 Hy	dro Test: 35'	Length After/Hydro test: 35/
	66 ⁰ 59	SSY INTERPORT CONTRACTOR AND

Conclusion: Hose #60887 passed the external inspection with minimal damage to the hose armor. Internal borescope showed no damage to the liner. Hose #60887 passed the hydrostatic pressure test by holding a pressure of 15,000PSI for 60 minutes. <u>Hose #60887 is suitable for continued service</u>.

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	499 22 - 200 - 200 - 200 - 200 - 20
Approx. Distance from End A	10'
Width	1"
Length	1"
Depth	To hose body
Notes	Crack on armor



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

ContiTech Oil & Marine

Customer	Customer Reference #	CBC Réference #	CBC Inspector	Date of Inspection
H&P Drilling	740043386	COM938562	A. Jaimes	03/07/2017

External Damage Post – Hydro test		
Approx. Distance from End A	4'	
Width	4"	
Length	4"	
Depth	To hose body	
Notes	Rubber exposed	·!



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

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4. Casing & Cement

All Casing will be new.

Section	Hole Size	Casing Size	Standard	Tapered	Top MD	Bottom MD		BTM TVD	Grade	Weight	Thread	Collonco	Duret	Tonsion
Surface	17 1/2	13 3/8	API	No	0	930	0	930	1-55	54.5	BUTT	1 13	1 15	
1st Intermediate	12 1/4	9 5/8	API	No	0	3710	0	3701	1-55	40	BUTT	1.13	1 15	1.0
2nd Intermediate	83/4	7 5/8	API	No	0	3410	0	3401	P-110	29.7	BUTT	1.15	1.15	1.0
2nd Intermediate	83/4	7 5/8	NON API	Yes	3410	11200	3401	11148	P-110	29.7	W-513	1.13	1.15	1.0
Production	63/4	5 1/2	NON API	No	0	11000	0	10948	P-110	20.7	TYP	1.13	1.15	1.0
Production	63/4	5	NON API	Yes	11000	16280	10948	11900	P-110	18	W ₅₂₁	1.13	1.15	1.0
									, 110		VV-521	1.15	1.15	1.6

Name	Туре	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	431	1.8	775	13.5	100%	С	None
	Tail	558	383	1.35	517	14.8	100%	С	5% NCI + LCM
1st Intermediate	Lead	0	703	2.18	1534	12.7	65%	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	2968	288	1.33	383	14.8	65%	C	5% NaCl + LCM
2nd Intermediate	Lead	3410	321	2.87	921	11.5	35%	ואק	Fluid Loss + Dispersant + Retarder + LCM
	Tail	10200	107	1.27	136	15	35%	Н	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	10700	457	1.71	782	14.2	25%	Н	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Name	Тор	Bottom	Туре	Mud Weight	Visc	Fluid Loss
Surface	0	930	FW Spud Mud	8.30	28	NC
Intermediate	930	3710	Brine Water	10.00	30-32	NC
Intermediate 2	3710	11200	FW/Cut Brine	9.00	30-32	NC
Production	11200	16280	Oil Base Mud	13.00	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 8,040 psi. Expected bottom hole temperature is \approx 175° 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.











Multi-bowl Wellhead







TAFMSS		SUPO D	ata Report
U.S. Department of the Interior BUREAU OF LAND MANAGEMENT			02/28/2020
APD ID: 10400048076	Submissio	n Date: 10/21/2019	Highlighted data
Operator Name: TAP ROCK OPERATING LLC			recent changes
Well Name: NAILED IT FED COM	Well Numb	er: 233H	Show Final Text
Well Type: CONVENTIONAL GAS WELL	Well Work	Type: Drill	
Section 1 - Existing Roads			
Will existing roads be used? YES			
Existing Road Map:			
Nailed_Existing_Roads_Map_012220_2020020510184	1.pdf		
Existing Road Purpose: ACCESS		Row(s) Exist? NO	
ROW ID(s)			
ID:			
Do the existing roads need to be improved? NO			
Existing Road Improvement Description:			
Existing Road Improvement Attachment:			
Section 2 - New or Reconstructe	ed Access Roa	ds	
Will new roads be needed? YES			
New Road Map:			
Nailed_New_Roads_Map_Plats_011720_2020020510	1925.pdf		
New road type: LOCAL			
Length: 4553.52 Feet	Width (ft.): 30		
Max slope (%): 0	Max grade (%): 1		
Army Corp of Engineers (ACOE) permit required? N	1		
ACOE Permit Number(s):			
New road travel width: 24			
New road access erosion control: Crowned and ditcl	ned		
New road access plan or profile prepared? N			
New road access plan attachment:			
Access road engineering design? N			
Access road engineering design attachment:			

Operator Name: TAP ROCK OPERATING LLC					
Well Name: NAILED IT FED COM	Well Numb				
	<u> </u>				
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: Gravel					
Access other construction information: Pipeli	ines that are crossed will b				
Access miscellaneous information:					
Number of access turnouts: A	ccess turnout map:				
Drainage Control					
New road drainage crossing: OTHER					
Drainage Control comments: Crowned and ditched					
Road Drainage Control Structures (DCS) desc	cription: None				
Road Drainage Control Structures (DCS) attac	chment:				
Access Additional Attachments					
Section 3 - Location of Exis	sting Wells				
Existing Wells Map? YES					
Attach Well map:					
Nailed Slot3 well Map v1 082119 202002051	02117.pdf				

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

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: Production facilities will be located off-pad, on separate central tank battery (CTB) sites. The W2 Facility will service the W2W2 and E2W2 well pads while the E2 Facility will service the W2E2 and E2E2 well pads. The W2 facility (400 x 400) will be built 30 north of the W2W2 well pad. Topsoil will be piled north of the CTB. Flare and/or CBU will be set on the northwest corner while the tank battery and process equipment (e.g. separators, heater-treaters) will be on the east side of the CTB. The E2 facility (400 x 400) will be built 60 north of the E2E2 well pad. Topsoil will be piled north of the CTB. Flare and/or CBU will be set on the northwest corner while the tank battery and process equipment (e.g. separators, heater-treaters) will be north of the CTB. Flare and/or CBU will be set on the northeast corner while the tank battery and process equipment (e.g. separators, heater-treaters) will be on the west side of the CTB. Tap Rock will install 2,989.44 of 4 buried steel flowlines from the well pads to the two (2) CTBs. There is no powerline planned at this time. **Production Facilities map:**

Nailed_Production_Facilities_011720_20200205102153.pdf

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

Well Number: 233H

Section 5 - Location ar	nd Types of Water Supply	·
Water Source Tab	le,	
Water source type: GW WELL		
Water source use type:	SURFACE CASING	
	DUST CONTROL	
	INTERMEDIATE/PRODUCTION CASING	
Source latitude:		Source longitude:
Source datum:		
Water source permit type:	WATER WELL	
Water source transport method:	TRUCKING	
Source land ownership: PRIVATE		
Source transportation land owner	ship: PRIVATE	
Water source volume (barrels): 16	000	Source volume (acre-feet): 2.06228954
Vator cource and transportation ma		
	p:	
lailed_H2O_Source_Map_202002051	p: 02243.pdf	
Vater source and transportation ma Valed_H2O_Source_Map_202002051 Vater source comments: Fresh wate Pacific Railroad Block 56, Loving Coun Vater water well? N	p: 02243.pdf r will be trucked from an existing per ty, Texas to each of the 4 well pad	ond on private land in NW Section 3, Texas & s.
Vater source and transportation ma Valled_H2O_Source_Map_202002051 Vater source comments: Fresh wate Pacific Railroad Block 56, Loving Coun New Water Well I New Water Well I	p: 02243.pdf r will be trucked from an existing po ty, Texas to each of the 4 well pad	and on private land in NW Section 3, Texas &
Vater source and transportation ma Vale Analysis and transportation ma Vater source comments: Fresh wate Vater Source Comments: Fresh wate Vat	p: 02243.pdf r will be trucked from an existing per ty, Texas to each of the 4 well pad nfo Well Longitude:	ond on private land in NW Section 3, Texas & s. Well datum:
Vater source and transportation ma Vale Source_Map_202002051 Vater source comments: Fresh water Pacific Railroad Block 56, Loving Coun New Water Well Count Well latitude: Well latitude:	p: 02243.pdf r will be trucked from an existing po ty, Texas to each of the 4 well pad nfo Well Longitude:	ond on private land in NW Section 3, Texas & s. Well datum :
Vater source and transportation ma Vale Source Amp_202002051 Vater source comments: Fresh wate Pacific Railroad Block 56, Loving Coun New Water Well Count Well latitude: Well latitude: Well target aquifer: Est. depth to top of aquifer(ft):	p: 02243.pdf r will be trucked from an existing po ty, Texas to each of the 4 well pad nfo Well Longitude: Est thickness of a	ond on private land in NW Section 3, Texas & s. Well datum:
Vater source and transportation ma Vale Source Amp_202002051 Vater source comments: Fresh wate Pacific Railroad Block 56, Loving Coun New Water Well Count Well latitude: Well latitude: Well target aquifer: Est. depth to top of aquifer(ft): Aquifer comments:	p: 02243.pdf r will be trucked from an existing po ty, Texas to each of the 4 well pad nfo Well Longitude: Est thickness of a	ond on private land in NW Section 3, Texas & s. Well datum:
Vater source and transportation ma Nailed_H2O_Source_Map_202002051 Vater source comments: Fresh wate Pacific Railroad Block 56, Loving Coun New Water Well Count Well latitude: Well latitude: Well latitude: Est. depth to top of aquifer(ft): Aquifer comments: Aquifer documentation:	p: 02243.pdf r will be trucked from an existing po ty, Texas to each of the 4 well pad nfo Well Longitude: Est thickness of a	ond on private land in NW Section 3, Texas & s. Well datum:
Vater source and transportation ma Nailed_H2O_Source_Map_202002051 Vater source comments: Fresh wate Pacific Railroad Block 56, Loving Coun New Water Well Count Well latitude: Well latitude: Well latitude: Est. depth to top of aquifer(ft): Aquifer comments: Aquifer documentation: Vell depth (ft):	p: 02243.pdf r will be trucked from an existing po ty, Texas to each of the 4 well pad nfo Well Longitude: Est thickness of a Well casing type:	well datum:
Vater source and transportation ma Nailed_H2O_Source_Map_202002051 Vater source comments: Fresh wate Pacific Railroad Block 56, Loving Coun New Water Well Count New Water Well I Well latitude: Well latitude: Well target aquifer: Est. depth to top of aquifer(ft): Aquifer comments: Aquifer documentation: Vell depth (ft): Vell casing outside diameter (in.):	p: 02243.pdf r will be trucked from an existing po ty, Texas to each of the 4 well pad nfo Well Longitude: Est thickness of a Well casing type: Well casing inside	well datum: aquifer:
Vater source and transportation ma Nailed_H2O_Source_Map_202002051 Vater source comments: Fresh wate Pacific Railroad Block 56, Loving Coun New Water Well? N New Water Well I Well latitude: Well latitude: Well target aquifer: Est. depth to top of aquifer(ft): Aquifer comments: Aquifer documentation: Vell depth (ft): Vell casing outside diameter (in.): Iew water well casing?	p: 02243.pdf r will be trucked from an existing po ty, Texas to each of the 4 well pad nfo Well Longitude: Est thickness of a Well casing type: Well casing inside Used casing source	well datum: aquifer:

Operator Name: TAP ROCK OPERATING	LLC
Well Name: NAILED IT FED COM	Well Number: 233H
Grout material:	Grout depth:
Casing length (ft.):	Casing top depth (ft.):
Well Production type:	Completion Method:
Water well additional information:	
State appropriation permit:	
Additional information attachment:	
Section 6 - Construction I Using any construction materials: YES	Vlaterials
Construction Materials description: NM C will be stockpiled on a side of the well pads. caliche pits on private land in SENW Sectior Construction Materials source location a	One Call (811) will be notified before construction starts. Top 6 of soil and brush Closed loop mud system will be used. Caliche will be hauled from existing n 12, Texas & Pacific Railroad Block 57, Loving County, Texas. ttachment:
Nailed_Construction_Materials_2020020510	J2318.pdf
Section 7 - Methods for Hand	lling Waste
Waste type: DRILLING	
Waste content description: Drill cuttings, r	nud, salts, and other chemicals
Amount of waste: 550 barrels	
Waste disposal frequency : Daily	
Safe containment description: Steel mud	tanks
Safe containmant attachment:	
Waste disposal type: HAUL TO COMMER FACILITY	CIAL Disposal location ownership: PRIVATE
Disposal type description: Fee Fee Fed -	SUPO not required
Disposal location description: Mud tanks LP at Orla, Texas. (Texas Railroad Commis	sion permit number STF-0101, P012234, P012236.)
Waste type: GARBAGE	
Waste content description: Trash	
Amount of waste: 10 barrels	
Waste disposal frequency : Daily	
Safe containment description: Portable tra	ash cage
Safe containmant attachment:	
Waste disposal type: OTHER	Disposal location ownership: OTHER
Disposal type description: Pubic	
Disposal location description: Eddy Coun	ity landfill

.

Operator Name: TAP ROCK	
	OPERATING LLC
Well Name: NAILED IT FED	COM Well Number: 233H
Waste type: SEWAGE	
Waste content description: E	Black and grey water
Amount of waste: 5	barrels
Waste disposal frequency : [Daily
Safe containment description	n: Plastic holding tanks and chemical toilets
Safe containmant attachmen	t:
Waste disposal type: OTHER	Disposal location ownership: OTHER
Disposal type description: Pr	ublic
Disposal location description	n: Carlsbad wastewater treatment plant
	Reserve Pit
Reserve Pit being used? NO	
Temporary disposal of produ	iced water into reserve pit? NO
Reserve pit length (ft.)	Reserve pit width (ft.)
Reserve pit depth (ft.)	Reserve pit volume (cu. yd.)
s at least 50% of the reserve	pit in cut?
Reserve pit liner	
Reserve pit liner specification	ns and installation description
<u>.</u>	Cuttings Area
Cuttings Area being used? N	0
Are you storing cuttings on l	ocation? Y
Description of cuttings locati	on Steel tanks on pad
Cuttings area length (ft.)	Cuttings area width (ft.)
Cuttings area depth (ft.)	Cuttings area volume (cu. yd.)
s at least 50% of the cuttings	s area in cut?
WCuttings area liner	
Cuttings area liner specificat	ions and installation description

.

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 233H

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Nailed_'Slot3_Well_Site_Layout_101119_20200205102625.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Nailed It Fed Com

Multiple Well Pad Number: Slot 3

Recontouring attachment:

Nailed_Slot3_Interim_Rec_010320_20200205102817.pdf Nailed_Recontour_plats_All_Pads_20200205102849.pdf Drainage/Erosion control construction: Crowned and ditched

Drainage/Erosion control reclamation: Harrowed on the contour

Well pad proposed disturbance (acres): 19.28 Road proposed disturbance (acres): 3.14 Powerline proposed disturbance (acres): 0 Pipeline proposed disturbance (acres): 2.06 Other proposed disturbance (acres): 8.08	Well pad interim reclamation (a 1.84 Road interim reclamation (acre Powerline interim reclamation 0 Pipeline interim reclamation (a 2.06 Other interim reclamation (acre	acres): es): 0 (acres): acres): es): 0	Well pad long term disturbance (acres): 17.44 Road long term disturbance (acres): 3.14 Powerline long term disturbance (acres): 0 Pipeline long term disturbance (acres): 0 Other long term disturbance (acres): 8.08
8.08 Total proposed disturbance: 32.56	Total interim reclamation: 3.900000000000004		8.08 Total long term disturbance: 28.660000000000004

Disturbance Comments:

Reconstruction method: Interim reclamation will be completed within 6 months of completing the last well on the pad. Interim reclamation will consist of shrinking the 4 well pads by removing caliche and reclaiming portions of each pad. Disturbed areas will be contoured to match pre-construction grades.

Topsoil redistribution: Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the landowners requirements. Stockpiled topsoil will be retained on one edge of each well pad. This soil will be used to cover the remainder of the pads when the wells are plugged and the pads reclaimed. Once the last well is plugged, the rest of the pad and associated roads will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled.

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

Well Number: 233H

Soil treatment: None

Existing Vegetation at the well pad: Mesquite and/or Creosote bush

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Mesquite and/or Creosote bush Existing Vegetation Community at the road attachment: Existing Vegetation Community at the pipeline: Mesquite and/or Creosote bush Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Mesquite and/or Creosote bush Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

Pounds/Acre

First Name:

Email:

Last Name:

Phone:

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Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: To BLM standards

Weed treatment plan attachment:

Monitoring plan description: To BLM standards

Monitoring plan attachment:

Success standards: To BLM satisfaction

Pit closure description: No pit

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: STATE GOVERNMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office: SANTA FE

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: TAP ROCK OPERATING LLC	
Well Name: NAILED IT FED COM	Well Number: 233H
Disturbance type: EXISTING ACCESS ROAD	
Describe:	
Surface Owner: STATE GOVERNMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office: SANTA FE	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
Disturbance type: NEW ACCESS ROAD	
Describe:	
Surface Owner: STATE GOVERNMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office: SANTA FE	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
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Operator Name: TAP ROCK OPERATING LLC	
Well Name: NAILED IT FED COM	Well Number: 233H
Disturbance type: PIPELINE	
Describe:	
Surface Owner: STATE GOVERNMENT	
Other surface owner description:	
BIA Local Office:	-
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office: SANTA FE	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:
Disturbance type: OTHER	
Describe: Central Tank Battery	
Surface Owner: STATE GOVERNMENT	
Other surface owner description:	
BIA Local Office:	
BOR Local Office:	
COE Local Office:	
DOD Local Office:	
NPS Local Office:	
State Local Office: SANTA FE	
Military Local Office:	
USFWS Local Office:	
Other Local Office:	
USFS Region:	
USFS Forest/Grassland:	USFS Ranger District:

Operator Name: TAP ROCK OPERATING LLC		
Well Name: NAILED IT FED COM	Well Numb	per: 233H
Section 12 - Other Information		
Right of Way needed? N ROW Type(s):	Use APD	as ROW?
ROW Applications		
SUPO Additional Information: All well bads will be on	New Mexico State	I ands. Only a small ~50 segment of road will be

constructed on BLM lands. Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO Attachment

Nailed_SUPO_20200205103039.pdf