Form 3160-3 (June 2015)

RECEIVED

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FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

5. Lease Serial No. NADTECIA NMNM138850

APPLICATION FOR PERMIT TO D	RILL OR	REEN	TER "		6. If Indian, Allotee	or Tribe	Name			
1b. Type of Well: Oil Well Gas Well O 1c. Type of Completion: Hydraulic Fracturing Si	EENTER ther ingle Zone	Multi	ole Zone			Well No.				
2. Name of Operator TAP ROCK OPERATING LLC					9. API Well No.	15-	46886			
3a. Address 602 Park Point Drive Suite 200, Golden, CO 80401	3b. Phone N (720) 460-3		le area cod	e)	10. Field and Pool, of PURPLE SAGE W	or Explor	atory			
4. Location of Well (Report location clearly and in accordance v At surface LOT 1 / 741 FSL / 588 FEL / LAT 32.00219 At proposed prod. zone NESE / 2465 FSL / 1254 FEL / L	72 / LONG -	103.8280)17 -	301783	11. Sec., T. R. M. or SEC 36/T26S/R30		Survey or Area			
14. Distance in miles and direction from nearest town or post offi 20 miles	ice*				12. County or Parish EDDY	1	13. State NM			
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of ac	cres in lea	se	17. Spacir 288.4	cing Unit dedicated to this well					
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Propose 11256 feet	•			BIA Bond No. in file					
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3044 feet	22. Approxi	l .	work will	start*	23. Estimated durati 30 days	on				
The following, completed in accordance with the requirements of (as applicable)	24. Attac		Order No. I	, and the H	lydraulic Fracturing r	ule per 4	3 CFR 3162.3-3			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office 		Item 5. Oper	20 above). ator certific other site sp	ation.	s unless covered by ar mation and/or plans as		`.			
25. Signature (Electronic Submission) Title		(Printed/ Wood /	Typed) Ph: (720) 4	460-3316		Date 09/03/2	2019			
Approved by (Signature) (Electronic Submission)		(Printed/ Layton /	<i>Typed)</i> Ph: (575)	234-5959		Date 02/24/2	2020			
Title Assistant Field Manager Lands & Minerals	Office Carlst	ad Field	Office							
Application approval does not warrant or certify that the applican applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds legal	or equitab	le title to th	ose rights	in the subject lease wl	hich wou	ld entitle the			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of						ny depar	tment or agency			
							•			



RN3-19-20

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 1 / 741 FSL / 588 FEL / TWSP: 26S / RANGE: 30E / SECTION: 36 / LAT: 32.002 1972 / LONG: -103.828017 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 1 / 113 FSL / 1254 FEL / TWSP: 26S / RANGE: 30E / SECTION: 36 / LAT: 32.0004777 / LONG: -103.8301556 (TVD: 10805 feet, MD: 10892 feet)

BHL: NESE / 2465 FSL / 1254 FEL / TWSP: 26S / RANGE: 30E / SECTION: 25 / LAT: 32.0128184 / LONG: -103.8301783 (TVD: 11256 feet, MD: 15585 feet)

BLM Point of Contact

Name: Priscilla Perez

Title: Legal Instruments Examiner

Phone: (575) 234-5934 Email: pperez@blm.gov

(Form 3160-3, page 3)

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.

(Form 3160-3, page 4)

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

7.00		
OPERATOR'S NAME:	Tap Rock Operatin	g LLC
LEASE NO.:	NMNM138850	Ī.,
COUNTY:	Lea	
The following conditions of approve the SWSW quarter of Section 25, T2		le to the portion of road residing in
See page two for the a	pplicable wells and	their legal descriptions.
Standard Conditions of Approval (CC		TS D. If any deviations to these standards eviation or requirement will be checked
☐ General Provisions		
Permit Expiration		
Archaeology, Paleontology, and	Historical Sites	
Noxious Weeds		
Special Requirements		
Cave/Karst	,	
Construction		
Notification		
Federal Mineral Material Pits		
Roads		v
☐ Road Section Diagram		

				SHL	***************************************	BHL							
	Well Name	ULSTR	Foo	tage	Coord	inates	ULSTR	Foo	tage	Coord	linates		
	Nailed It Fed Com 201H	L4 36-26S-30E	330 FSL	279 FWL	32.0010601	-103.8424129	NWSW 25-26S-30E	2464 FSL	638 FWL	32.0128419	-103.8412680		
	Nailed It Fed Com 205H	L4 36-26S-30E	330 FSL	304 FWL	32.0010602	-103.8423323	NWSW 25-26S-30E	2464 FSL	1254 FWL	32.0128378	-103.8392806		
	Nailed It Fed Com 211H	L4 36-26S-30E	305 FSL	279 FWL	32.0009914	-103.8424129	NWSW 25-26S-30E	2464 FSL	331 FWL	32.0128440	-103.8422585		
W2W2	Nailed It Fed Com 215H	L4 36-26S-30E	305 FSL	304 FWL	32.0009915	-103.8423323	NWSW 25-26S-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		
F314/3	Nailed It Fed Com 212H	L3 36-26S-30E	205 FSL	1840 FWL	32.0007189	-103.8373780	NESW 25-26Ş-30E	2464 FSL	1562 FWL	32.0128357	-103.8382869		
E2W2 Pad	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		
(310(2)	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 25-26S-30E	2465 FSL	2178 FEL	32.0128248	-103.8331593		
	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	2225 FEL	32.0020162	-103.8332990	NWSE 25=26S-30E-	- 2465 FSL -	_2486_FEL	_32:0128269-	103.8341530		
~ W2E2	Nailed It Fed Com 216H	L2 36-26S-30E	676 FSL	2200 FEL	32.0020162	-103.8332184	NWSE 25-26S-30E	2465 FSL	1870 FEL	32.0128227	-103.8321657		
Pad	Nailed It Fed Com 223H	L2 36-26S-30E	701 FSL	2120 FEL-	32.0020850	-103.8329603	NWSE 25-26S-30E	2465 FSL	2430 FEL	32.0128266	-103.8339724		
(Slot.3)	Nailed It Fed Com 226H	L2 36-26S-30E	701 FSL	2070 FEL	32.0020851	-103.8327990	NWSE 25-26S-30E	2465 FSL	1590 FEL	32.0128207	-103.8312623		
	Nailed It Fed Com 233H	L2 36-26S-30E	701 FSL	2095 FEL	32.0020851	-103.8328797	NWSE 25-26S-30E	2465 FSL	2010 FEL	32.0128237	-103.8326173		
ي ۽ ڏيو	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		
4	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		
10.00	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		
E2E2	Nailed It Fed Com 214H	L1 36-26S-30E	741 FSL	588 FEL	32.0021972	-103.8280170	NESE 25-26S-30E	2465 FSL	1254 FEL	32.0128184	-103.8301783		
Pad	Nailed It Fed Com 218H	L1 36-26S-30E	741 FSL	563 FEL	32.0021973	-103.8279363	NESE 25-26S-30E	2466 FSL	638 FEL	32.0128141	-103.8281909		
(Slot 4)	Nailed It Fed Com 224H	L1 36-26S-30E	766 FSL	668 FEL	32.0022659	-103.8282751	NESE 25-26S-30E	2466 FSL	750 FEL	32.0128149	-103.8285522		
	Nailed It Fed Com 234H	L1 36-26S-30E	741 FSL	668 FEL	32.0021971	-103.8282750	NESE 25-26S-30E	2466 FSL	331 FEL	32.0128119	-103.8272004		
	Nailed It Fed Com 236H	L1 36-26S-30E	766 FSL	693 FEL	32.0022658	-103.8283557	NESE 25-26S-30E	2465 FSL	1170 FEL	32.0128178	-103.8299072		
7 1	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 responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

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

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

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

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

Page 3 of 8

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.

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

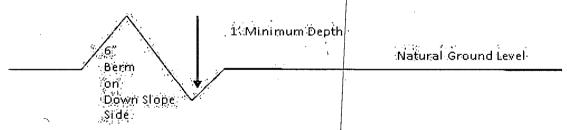
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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



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 %);

Page 5 of 8

Approval Date: 02/24/2020

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.

Construction Steps

- 1. Salvage topsoil
- 2. Construct road
- 3. Redistribute topsoil
- 4. Revegetate slopes

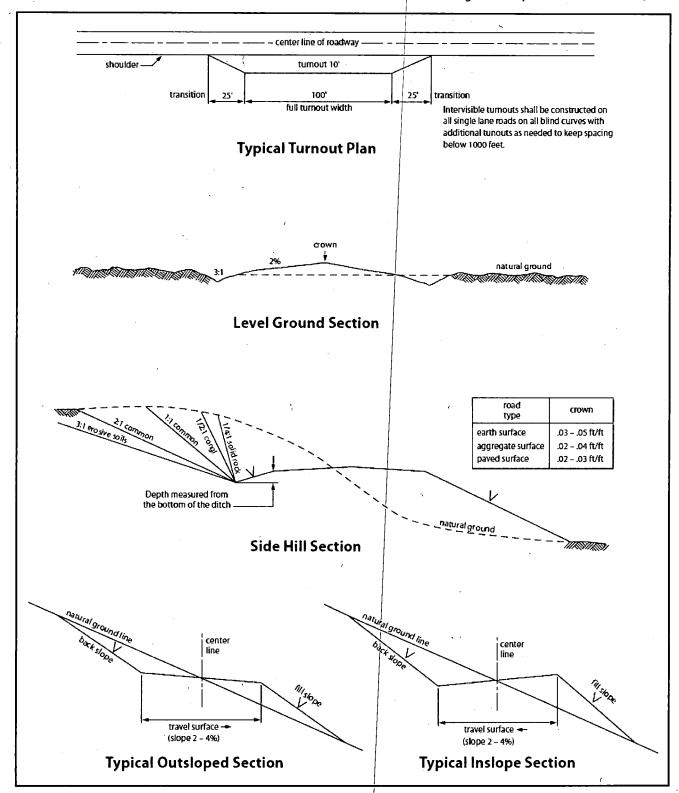


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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

	i <u>b/acie</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

^{*}Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = p ounds pure live seed

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Tap Rock Operating LLC
WELL NAME & NO.: Nailed It Fed Com 214H
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

COA

H2S	O Yes	€ No	
Potash	• None	© Secretary	○ R-111-P
Cave/Karst Potential	C Low	C Medium	© High
Cave/Karst Potential	C Critical		
Variance	© None	© Flex Hose	C Other
Wellhead	C Conventional	Multibowl	C Both
Other	□ 4 String Area	Capitan Ree	f
Other	Fluid Filled	Cement Squ	ieeze 🗀 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 **8** hours or 500 pounds compressive strength, whichever is greater. (This is to

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

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. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

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

A. CASING

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

- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 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

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.



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

© erator Certification Data Report

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.

	1
NAME: Brian Wood	Signed on: 09/02/2019
NAME. DITALL WOOD	3 que ou 000 03/02/2013

Title: President

Phone: (505)466-8120

Representative Name:

Street Address: 37 Verano Looop

City: Santa Fe State: NM Zip: 87508

Email address: afmss@permitswest.com

Field Representative

Street Address:		
City:	State:	 Zip:

Phone:

Email address:



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

Application Data Report

02/24/2020

APD ID: 10400046842

Submission Date: 09/03/2019

Highlighted data reflects the most

recent changes

Well Name: NAILED IT FED COM

Operator Name: TAP ROCK OPERATING LLC

Well Number: 214H

Show Final Text

Well Type: CONVENTIONAL GAS WELL

.

Well Work Type: Drill

Section 1 - General

APD ID:

10400046842

Tie to previous NOS? N

Submission Date: 09/03/2019

BLM Office: CARLSBAD

User: Brian Wood

Title: President

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM138850

Lease Acres: 320

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? N

Permitting Agent? YES

APD Operator: TAP ROCK OPERATING LLC

Operator letter of designation:

Operator Info

Operator Organization Name: TAP ROCK OPERATING LLC

છે: CO

Operator Address: 602 Park Point Drive Suite 200

Operator PO Box:

Zip: 80401

Well Name: NAILED IT FED COM

Well Number: 214H

Is the proposed well in an area containing other mineral resources? OTHER, NATURAL GAS, OIL

Describe other minerals: Salt

Is the proposed well in a Helium production area? N Use Existing Well Pad? N

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: Nailed Number: Slot 4

It Fed Com

Number of Legs: 1

Well Work Type: Drill

Well Class: HORIZONTAL

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 20 Miles

Distance to nearest well: 25 FT

Distance to lease line: 588 FT

Reservoir well spacing assigned acres Measurement: 288.4 Acres

Well plat:

Nailed_214H_C102_GCP_20190902141732.pdf

Well work start Date: 01/01/2020

Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 11401

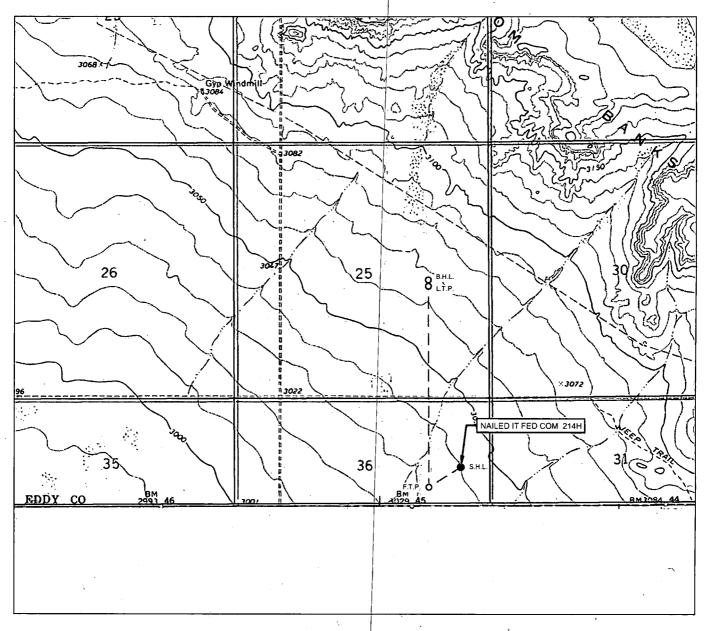
Reference Datum: GROUND LEVEL

Well Name: NAILED IT FED COM

Well Number: 214H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this lease?
EXIT Leg #1	246 5	FSL	125 4	FEL	26S	30E		Aliquot NESE	32.01281 84	- 103.8301 783	EDD Y	2 1	NEW MEXI CO	F	NMNM 138850	- 821 2	155 85	112 56	Υ
BHL Leg #1	246 5	FSL	125 4	FEL	26S	30E	25	Aliquot NESE	32.01281 84	- 103.8301 783	EDD Y	1	NEW MEXI CO	F	NMNM 138850	- 821 2	155 85	112 56	Υ

LOCATION & ELEVATION VERIFICATION MAP





LEASE NAME & WELL NO.: NAILED IT FED COM 214H

SECTION 36 TWP 26-S RGE 30-E SURVEY N.M.P.M EDDY STATE ELEVATION ___3044' COUNTY NM 741' FSL & 588' FEL DESCRIPTION _

LATITUDE N 32.0021972

LONGITUDE

W 103.8280170

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

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





1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140 TELEPHONE: (817) 744-7512 - FAX (817) 744-7554
2903 NORTH BIG SPRING - MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1853 - FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

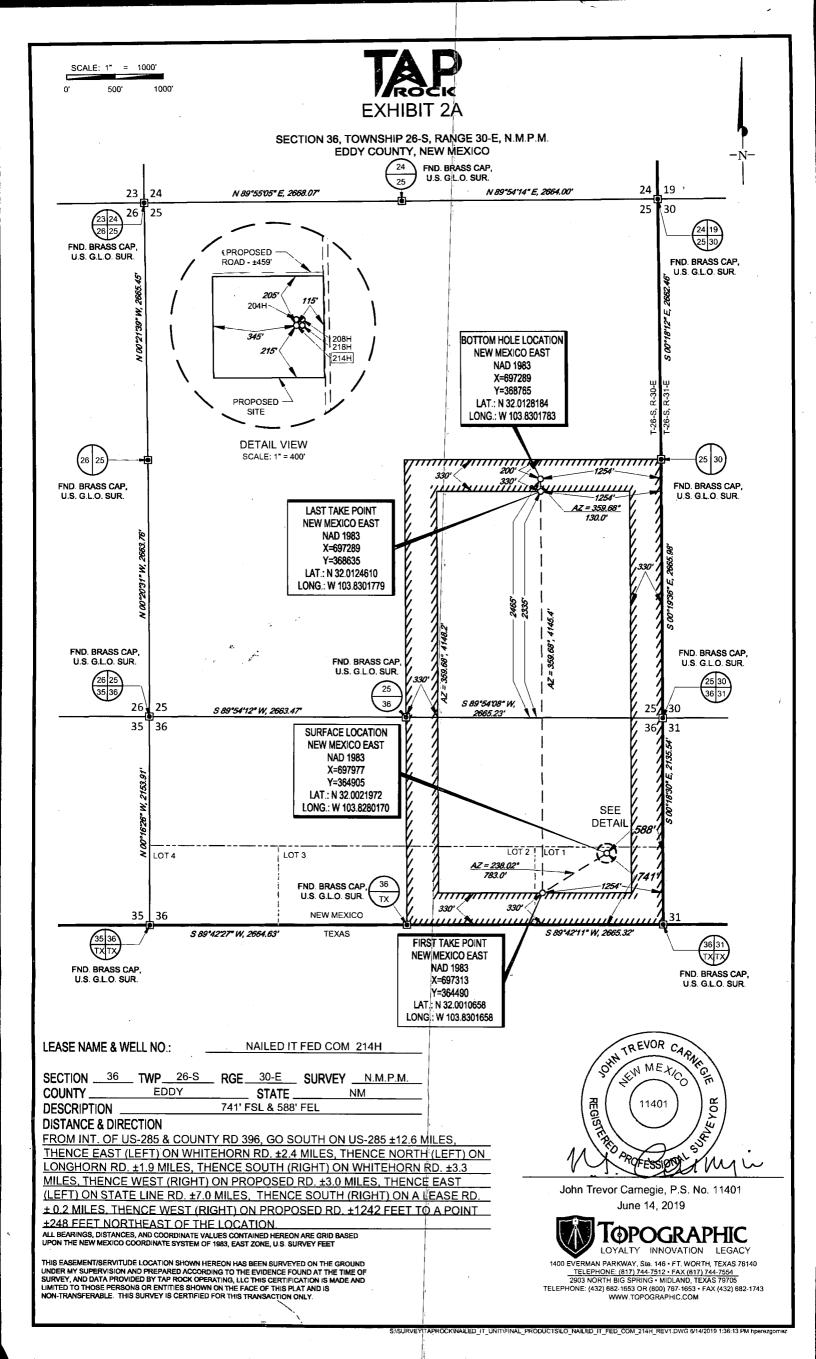
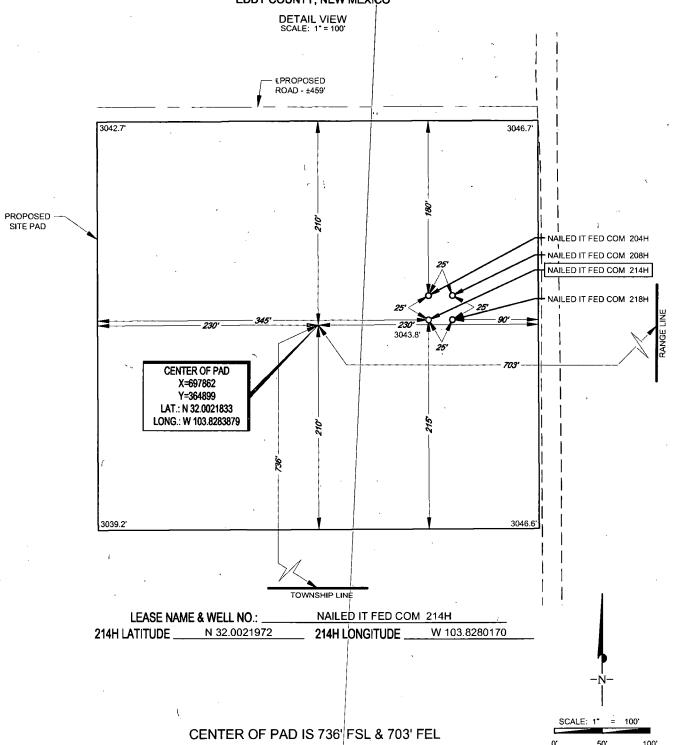


EXHIBIT 2B

SECTION 36, TOWNSHIP 26-S, RANGE 30-E, N.M.P.M. EDDY COUNTY, NEW MEXICO



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

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



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

Drilling Plan Data Report

02/24/2020

APD ID: 10400046842

Submission Date: 09/03/2019

Highlighted data

reflects the most recent changes

Well Name: NAILED IT FED COM

Well Number: 214H

Show Final Text

Well Type: CONVENTIONAL GAS WELL

Operator Name: TAP ROCK OPERATING LLC

Well Work Type: Drill

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	
528214	QUATERNARY	3044	0	Ö	OTHER : None	NONE	N
528215	RUSTLER	2185	859	859	ANHYDRITE	OTHER : Salt	N
528216	SALADO	1633	1411	1411	SALT	OTHER : Salt	N
528217	BASE OF SALT	-406	3450	3468	SALT	OTHER : Salt	N
528218	LAMAR	-618	3662	, 3684	LIMESTONE	NONE	N
528219	BELL CANYON	-637	3681	3697	SANDSTONE	NATURAL GAS, OIL	N
528220	CHERRY CANYON	-1821	4865	4910	SANDSTONE	NATURAL GAS, OIL	N
528221	BRUSHY CANYON	-2774	5818	5880	SANDSTONE	NATURAL GAS, OIL	N N
528222	BONE SPRING	-4523	7567	7652	LIMESTONE	NATURAL GAS, OIL	N
528223	BONE SPRING 1ST	-5468	8512	8597	SANDSTONE	NATURAL GAS, OIL	N
528224	BONE SPRING 2ND	-5818	8862	8947	SANDSTONE	NATURAL GAS, OIL	N
528225	BONE SPRING 3RD	-6702	9746	9831	SANDSTONE	NATURAL GAS, OIL	N
528226	WOLFCAMP	-7761	10805	10892	OTHER : Shale	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Well Name: NAILED IT FED COM Well Number: 214H

Pressure Rating (PSI): 5M Rating Depth: 15000

Equipment: A 15,000, 5,000 psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A top drive check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.

Requesting Variance? YES

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

Testing Procedure: After surface casing is set and the BOP is nippled up, the BOP pressure tests will be made with a third party tester to 250 psi low, 5000 psi high, and the annular preventer will be tested to 2,500 psi. The BOP will be tested in this manner after nipple-up if any break of the stack occurs.

Choke Diagram Attachment:

Nailed_Choke_032918_20190902142910.pdf

BOP Diagram Attachment:

5M_BOP_Stack_20200201090440.pdf

Section 3 - Casing

5 1
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

Well Name: NAILED IT FED COM

Well Number: 214H

		_	1	1					r				1									
Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom-Set-MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	940	0	940	3044	2104	940	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	o	3450	0	3432	3009	-388	3450	P- 110	29.7	BUTT	1.13	1.15	DRY	1.6	DRY	1.6
3	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	3750	0	3728	3009	-684	3750	J-55	40	витт	1.13	1.15	DRY	1.6	DRY ·	1.6
4	PRODUCTI ON	6.75	5.5	NEW	API	N	o	10450	0	10364	3009	-7320	10450	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	3450	10650	3432	10564	-388	-7520	7200	P- 110		OTHER - W- 513	1.13	1.15	DRY	1.6	DRY	1.6
6	PRODUCTI ON	6.75	5.0	NEW	API	Y	10450	15585	10364	11256	-7320	-8212	5135	P- 110		OTHER - W- 521	1.13	1.13	DRY	1.6	DRY	1.6

A!	A 44 1 4 -	
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_20190902142953.pdf

Operator Name: TAP ROCK OPERATING LLC	
Well Name: NAILED IT FED COM	Well Number: 214H
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_201909021430	040.pdf
Casing ID: 3 String Type: INTERMEDIATE Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s): Nailed_Casing_Design_Assumptions_201909021430	017.pdf
Casing ID: 4 String Type: PRODUCTION Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and Worksheet(s):	
Nailed_Casing_Design_Assumptions_201909021431	
Nailed_5.5in_TXP_Casing_Spec_20190902143203.F	PDF

Well Name: NAILED IT FED COM Well Number: 214H

Casing Attachments

Casing ID: 5

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Nailed_7.625in_W513_Casing_Spec_20190902143117.pdf

Casing Design Assumptions and Worksheet(s):

Nailed_Casing_Design_Assumptions_20190902143126.pdf

Casing ID: 6

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Nailed_5in_W521_Casing_Spec_20190902143243.pdf

Casing Design Assumptions and Worksheet(s):

Nailed_Casing_Design_Assumptions_20190902143253.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool - Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	- 0	0	0	0	0	. 0	None	None
SURFACE /	Tail	·	0	940	967	1.35	14.8	1306	100	Class C	5% NCI + LCM
PRODUCTION	Lead		0	0	0	0	0	0	0	None	0 .
PRODUCTION	Tail	ţ	9950	1558 5	462	1.71	14.2	790	.25	Class H	Fluid Loss + Dispersant + Retarder + LCM
INTERMEDIATE	Lead		0	0	0	0	0	0	0	None	None

Well Name: NAILED IT FED COM

Well Number: 214H

String Type	-ead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
0)		0, 11	-	ш	<u> </u>	> , ·			Щ	U	٩
PRODUCTION	Lead		0	0	0	0	0	0	φ	None	None
					L i						

INTERMEDIATE	Lead	0	3000	711	2.18	12.7	1550	65	Class C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
INTERMEDIATE	Tail	3000	3750	291	1.33	14.8	388	65	Class C	5% NaCl + LCM
INTERMEDIATE	Lead	3450	9650	293	2.87	11.5	841	35	TXI	Fluid Loss + Dispersant + Retarder + LCM
INTERMEDIATE	Tail	9650	1065 0	107	1.27	15	136	35	Class H	Fluid Loss + Dispersant + Retarder + LCM

Section 5 - Circulating Medium

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.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)		Additional Characteristics	1
0	940	OTHER : Fresh water spud mud	8.3	8.3							. •		
940	3750	OTHER : Brine Water	10	10									
3750	1065 0	OTHER : Fresh water/cut brine	9	9									

Well Name: NAILED IT FED COM

Well Number: 214H

Fop Depth	3ottom Depth	Aud Type	Min Weight (lbs/gal)	/lax Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Нс	Viscosity (CP)	salinity (ppm)	Filtration (cc)	dditional Characteristics
Ľ	Ď	Σ	Ξ	ž	Δ	ဇ္ဇိ	∣਼⊏∣		, ΐ	iΣ	Αo
1065 0	1558 5	OIL-BASED MUD	11.5	11.5					,	-	

Section 6 - Test, Logging, Coring

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

Electric Logging Program: No open-hole logs are planned at this time for the pilot hole.

GR will be collected while drilling through the MWD tools from 9.625 casing shoe to TD.

A 2-person mud logging program will be used from 9.625 casing shoe to TD.

CBL w/ CCL from as far as gravity will let it fall to TOC.

List of open and cased hole logs run in the well:

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: 6730

Anticipated Surface Pressure: 4253

Anticipated Bottom Hole Temperature(F): 160

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Nailed_Slot4_H2S_Plan_20190902143841.pdf

Well Name: NAILED IT FED COM Well Number: 214H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

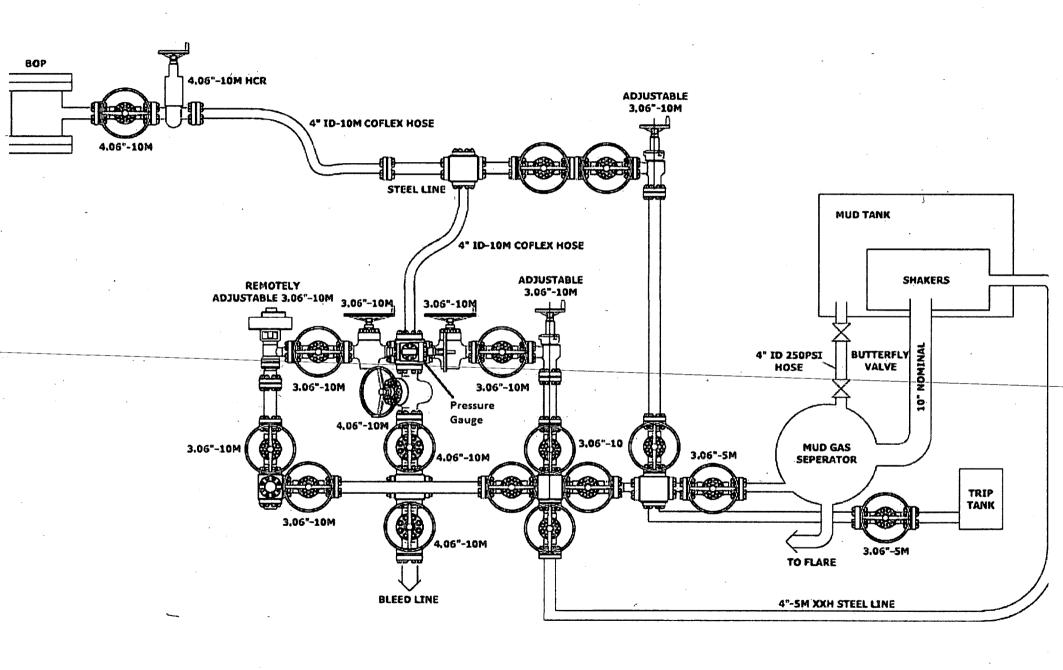
Nailed_214H_Horizontal_Plan_20190902143925.pdf

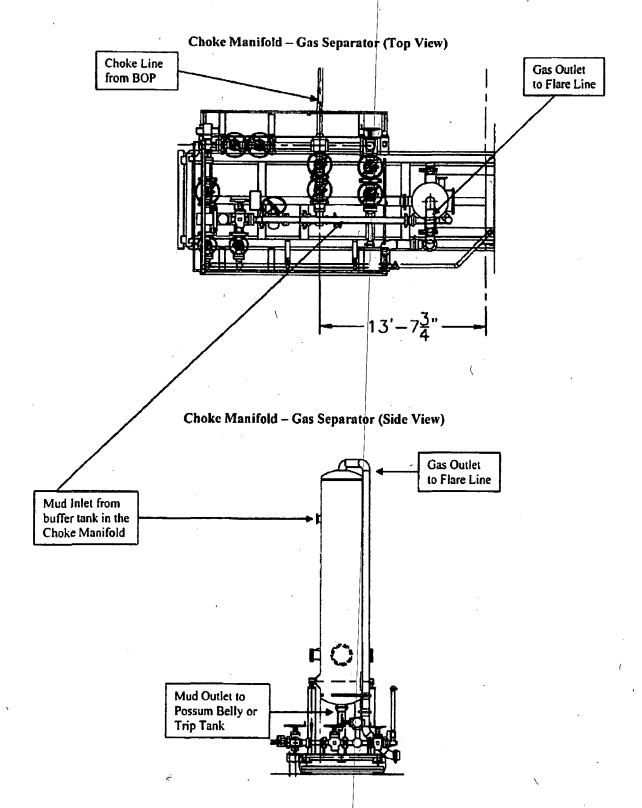
Other proposed operations facets description:

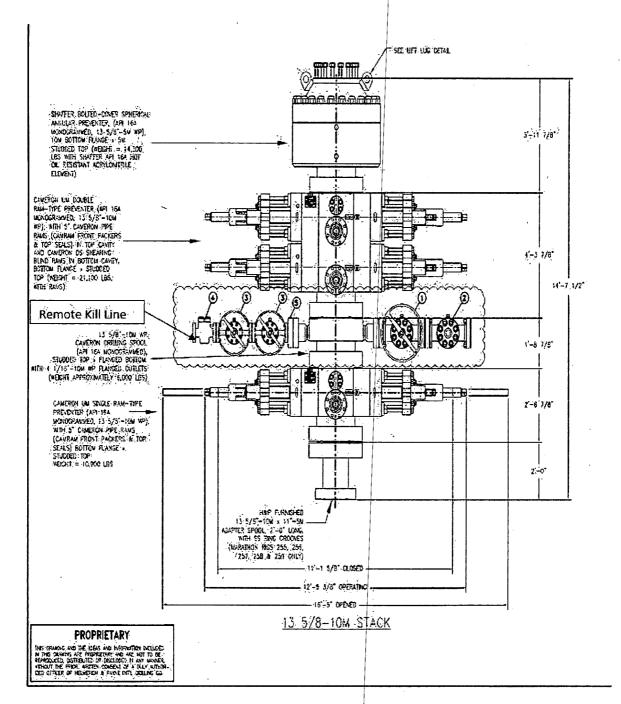
Other proposed operations facets attachment:

CoFlex_Certs_20190902144046.pdf
Nailed_214H_Anticollision_Report_20190902144130.pdf
Nailed_214H_Drill_Plan_v2_013120_20200201090527.pdf
Wellhead_4T_012720_20200201090540.pdf

Other Variance attachment:









Outside Diameter	7.625 in.	Min. Wall Thickness	87.5%	(*) Grade P110	<u> </u>
Wall Thickness	0.375 in.	Connection (Option	DD 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	,					
Nominal OD	7.625 in.	Nominal We	eight	29.70 lbs/ft	Drift	6.75 in.
Nominal ID	6.875 in.	Wall Thickn	ess	0.375 in.	Plain End Weight	29.06 lbs/ft
OD Tolerance	API	*		of the state of th		
PERFORMANCE		» ,				
Body Yield Strength	940 x1000 lbs	Internal Yiel	d	9470 psi	SMYS	110000 psi
Collapse	5350 psi			Afficial from the control of the con		***************************************
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		n naku gi disiga abunda abundan ini. kusharan
PERFORMANCE		1			<u> </u>	
Tension Efficiency	60.0 %	Joint Yield S	trength	564.000 x1000 lbs	Internal Pressure Capacity	9470.000 psi
Compression Efficiency	75.2 %	Compressio	n Strength	706.880 x1000 lbs	Max. Allowable Bending	39.6 °/100 ft
External Pressure Capacity	5350,000 psi	77.44	The state of the s	1		e a disconnición de partición de la constante
MAKE-UP TORQUE	S			hanna in was en anna en ana anna en a		· · · · · · · · · · · · · · · · · · ·
Minimum	9000 ft-lbs	Optimum		10800 ft-lbs	Maximum	15800 ft-lbs
OPERATION LIMIT 1	ORQUES			, <u></u>		
Operating Torque	47000 ft-lbs	Yield Torque)	70000 ft-lbs	1	

Notes

This connection is fully interchangeable with:

Wedge 523® - 7.625 in. - 29.7 lbs/ft

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

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

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Wedge 521®

Printed on: 05/22/2018





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

				ļ		
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					•	
Connection OD	5.359 in.	Connection ID	4.226	in.	Make-up Loss	3.620 in.
Threads per in	3.36	Connection OD Option	REGL	JLAR		· —-
PERFORMANCE	`	.3.				>
Tension Efficiency	73.8 %	Joint Yield Strength	428.0 lbs	40 ×1000	Internal Pressure Capacity	13940.000 psi
Compression Efficiency	88.7 %	Compression Strength	514.4 lbs	60 x1000	Max. Allowable Bending	74.5 °/100 ft
External Pressure Capacity	14840.000 psi			garaffe en 1600 (Anni		m éganakurannann nas enakhanar ker
MAKE-UP TORQUES	3		.			
Minimum	6100 ft-lbs	Optimum	7300	ft-lbs	Maximum	10700 ft-lbs
OPERATION LIMIT T	ORQUES					
Operating Torque	17300 ft-lbs	Yield Torque)	26000	ft-lbs		
Jotos	Territoria de la companya dela companya dela companya de la companya de la companya de la companya dela companya de la company	1		-	<u></u>	ing a state of the

This connection is fully interchangeable with:

Wedge 521® - 5 in. - 13 / 15 lbs/ft

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

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

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- Gas gravity 0.7
- Pore pressure gradient .468 psi/ft above the Wolfcamp, .676 psi/ft Wolfcamp and below
- .676 psi/ft fracture gradient above the Wolfcamp, .832 psi/ft Wolfcamp and below.
- 60°F average surface temperature and 1.5°/100ft temperature gradient
- Cementing loads based on slurries listed in Cement table, and post cement static loading
- Strings landed at neutral weight
- Gas kicks assumed at each casing shoe
- External pressure calculated with fluid gradients and pore pressure
- Production string load tested with completion fluid density and rate
- Tubing leak tested in production scenario

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

TXP® BTC					SHARE	EXPORT DATA PRINT
	Outside 5.500 in.	Min. Wall	87.5%		▼	Clear Filters
	Diameter .	Thickness Drift				. Compare
建。	Wall 0.361 in.	J.III	API Standard			Request Info
	, Thickness	Туре	Casing		. • C	ONNECTION
2.7	Grade P110	Connection OD	REGULAR			FORMATION
0		Option	T.COOLIN .			Blanking Dimensions Connection's Page
9					ļ	Brochure
					,	Datasheet Manual
* * }	PIPE BODY DATA		grood in the electrical and a second in the electrical and a second and a second and a second and a second and			
	GEOMETRY					
	Nominal OD	5.500 in.	Nominal Weight	20 lbs/ft	Drift	4.653 in.
3	1	•				•
s s s	Nominal ID	4 779 in	Math Thickness	0.264 in	Dieio Ford Ministry	40.02 %-19
	Nominal ID	4.778 in.	Wall Thickness	0,361 in.	Plain End Weight	19.83 lbs/ft
	•					
(A	OD Tolerance	API	1			
						<u>.</u>
	PERFORMANCE			·		. ۋە رايارىك بېسالىپ
	Body Yield Strength	641 x1000 lbs	Internal Yield	12640 psi	SMYS	110000 psi
	Body field Strength	041 X 1000 105	i ilitemai rielo	12040 µsi	SMIS	ridodo psi
						j
	Collapse	11100 psi				;
5 0						1.
	CONNECTION DATA	in the property of	en e	to a second	a to graph and the	* * * * * * * * * * * * * * * * * * * *
0	GEOMETRY	****	2 9 4 8 M . 3 S.	**************************************	Line than and	
	Connection OD	6.100 in.	Coupling Length	9.450 in.	Connection ID	4.766 in.
	Connection Co	6. 160 m.	Coupling Length	9.450 Jil.	Connection in	4.790 In.
3				,		;
700 200	Make-up Loss	4.204 in.	Threads per in	5	Connection OD Option	REGULAR
	1		ł		l .	
	PERFORMANCE	·				
	Tension Efficiency	100.0 %	Joint Yield Strength	641.000 x1000 lbs	Internal Pressure	12640.000 psi
	;				Capacity [1]	
	4.2.					
	Compression Efficiency	100 %	Compression Strength	641.000 x1000 lbs	Max. Allowable Bending	92 1/100 ft
*						
, E),	External Pressure	11100.000 psi		-		
	Capacity				,	1
1	MANE IN TARRANTA	name - Maria I was distances	<u> </u>	,		
	MAKE-UP TORQUES	44 270 ft lbn	LOntimum	12620 # the	Mavimum	13770 O Dec
	Minimum	11270 ft-lbs	Optimum	12520 ft-lbs	Maximum	13770 ft-lbs
			-			· · · · · · · · · · · · · · · · · · ·
	OPERATION LIMIT TO	RQUES		*		
	Operating Torque	21500 ft-lbs	Yield Torque	23900 ft-lbs		1 1
	•		!			1
			<u> </u>			t

- 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
 - Green Flag Normal Safe Operation Condition
 - Yellow Flag Potential Pressure and Danger
 - Red Flag Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

See Drilling Operations Plan Schematics

6 Communication:

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



7 **Drilling Stem Testing:**

• No DST cores are planned at this time

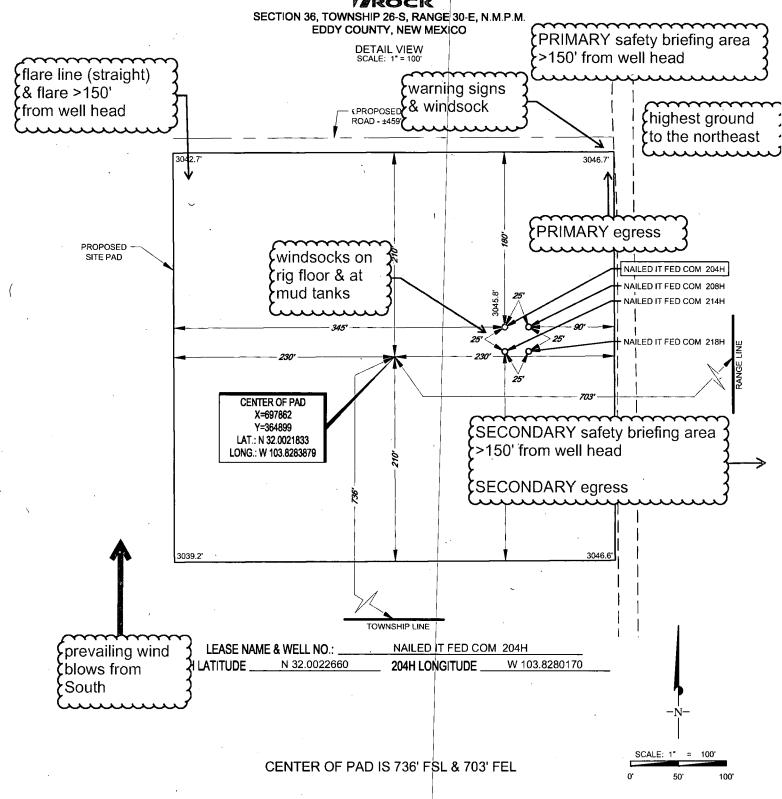
8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

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

11 Emergency Contacts

Emergency Conta	acts	
Carlsbad Police Department	575.887.7551	911
Carlsbad Medical Center	575.887.4100	911
Eddy County Fire Service	575.628.5450	911
Eddy County Sherriff	575.887.7551	911
Lea County Fire Service	575.391.2983	911
Lea County Sherriff	575.396.3611	911
Jal Police Department	575.395.2121	911
Jal Fire Department	575.395.2221	911
Tap Rock Resources	720.772.5090	

EXHIBIT 2B



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

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



TELEPHONE: (817) 744-7512 + FAX (817) 744-7554

2903 NORTH BIG SPRING - MIDLAND, TEXAS 79706

TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743

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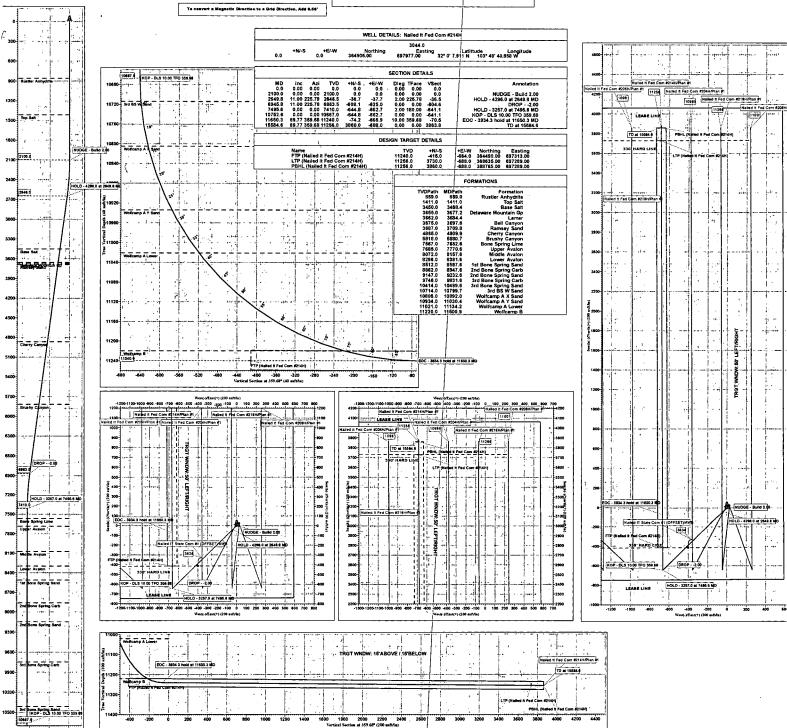




Azimuths to Grid North True North: 0.27 Magnetic North: 6.56

Magnetic Field Strength: 47567.3nT Dip Angle: 59.79° Date: 07/22/2019 Model: IGRF2015 Tap Rock Resources, LLC
Project: Eddy County, NM (MAD 83 NME)
Site: (Nalled It) Sec. 38 T.28-S. R.30-E.
Well: Naited It Fed Com 8214H
Wellbore: OWB
Design: Plan #1
Lat: 32* 0*7.911 N
Long: 103* 49* 40.856 W
Pad GL: 3044.0
KB: KB @ 3070.0usft

WATREPID





Tap Rock Resources, LLC

Eddy County, NM (NAD 83 NME) (Nailed It) Sec-36_T-26-S_R-30-E Nailed It Fed Com #214H

OWB

Plan: Plan #1

Standard Planning Report

23 July, 2019







EDM 5000.15 Single User Db Well Nailed It Fed Com #214H Database: Local Co-ordinate Reference: Company: Tap Rock Resources, LLC TVD Reference: KB @ 3070.0usft Project: Eddy County, NM (NAD 83 NME) MD Reference: KB @ 3070.0usft (Nailed It) Sec-36_T-26-S_R-30-E Site: North Reference: Grid Well: Nailed It Fed Com #214H Survey Calculation Method: Minimum Curvature Wellbore: **OWB** Plan #1 Design: Eddy County, NM (NAD 83 NME) Project Map System: US State Plane 1983 System Datum: Mean Sea Level North American Datum 1983 Geo Datum: New Mexico Eastern Zone Map Zone: (Nailed It) Sec-36_T-26-S_R-30-E Site Site Position: Northing: 364,471,00 usft Latitude: 32° 0' 3.820 N 693.516 00 usft From: Map Easting: Longitude: 103° 50' 32.687 W **Position Uncertainty:** Slot Radius: 0.0 usft 13-3/16 " **Grid Convergence:** 0.26 Well Nailed It Fed Com #214H **Well Position** +N/-S 434.0 usft Northing: 364,905.00 usft Latitude: 32° 0' 7.911 N +E/-W 4,461.0 usft Easting: 697,977.00 usft 103° 49' 40.858 W Longitude: Wellhead Elevation: **Position Uncertainty** 0.0 usft **Ground Level:** 3,044.0 usft Wellbore OWB Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength . (°) (°) (nT) **IGRF2015** 07/22/19 6.83 59.79 47,567.33494058 Plan #1 Design **Audit Notes:** Version: PLAN 0.0 Phase: Tie On Depth: **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 359.68 Plan Survey Tool Program Date 07/23/19 Depth From Depth To (usft) (usft) Survey (Wellbore) **Tool Name** Remarks 15,584.6 Plan #1 (OWB) MWD OWSG MWD - Standard

lan Sections	• - [and the second s	elinen eraken eraken kan kan eraken erak	
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	. 0.0	0.00	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,649.8	11.00	225.78	2,646.5	-36.7	-37.7	2.00	2.00	0.00	225.78	
6,945.8	11.00	225.78	6,863.5	-608.1	-625.0	0.00	0.00	0.00	0.00	
7,495.6	0.00	0.00	7,410.0	-644.8	-662.7	2.00	-2.00	0.00	180.00	
10,752.6	0.00	0.00	10,667.0	-644.8	-662.7	0.00	0.00	0.00	0.00	
11,650.3	89.77) 359.68	11,240.0	-74.2	-665.9	10.00	10.00	-0.04	359.68	
15,584.6	89.77	359.68	11,256.0	3,860.0	-688.0	0.00	0.00	0.00	0.00	PBHL (Nailed It Fe



Database: Company: Project:

Site:

EDM 5000.15 Single User Db Tap Rock Resources, LLC

Eddy County, NM (NAD 83 NME) (Nailed It) Sec-36_T-26-S_R-30-E

Well: Nailed It Fed Com #214H Wellbore:

OWB Design: Plan #1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

Well Nailed It Fed Com #214H

KB @ 3070.0usft KB @ 3070.0usft

Grid

Plann	ed Survey					*			- LUST Tak Ham	manuscriptor de alemente que en esta e Camanuscriptor de desagración como en esta en
	Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
ι	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
	859.0	0.00	0.00	859.0	0.0	0.0	0.0	0.00	0.00	0.00
	Rustler An					• 1				
		-	0.00	000.0	0.0			0.00	0.00	0.00
	900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,000.0 1,100.0	0.00 0.00	0.00	1,000.0 1,100.0	0.0	0.0 0.0	0.0	0.00	0.00	0.00
	1,100.0	0.00	0.00 0.00	1,100.0	0.0 0.0	0.0	0.0	0.00	0.00	0.00
	1,300.0	0.00	0.00	1,300.0	0.0	. 0.0	0.0 · 0.0	0.00 0.00	0.00 0.00	0.00 0.00
						- 1				
	1,400.0	0.00	0.00	1,400.0	0.0	0 0	0.0	0.00	0.00	0.00
	1,411.0	0.00	0.00	1,411.0	0.0	0,0	0.0	0.00	0.00	0.00
	Top Salt					1				
	1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
	1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
	2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
	2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
	NUDGE - B	Build 2.00				'	_			
	2,200.0	2.00	225.78	2,200.0	-1.2	-1.3	-1.2	2.00	2.00	0.00
	2,300.0	4.00	225.78	2,299.8	-4.9	-5.0	-4.8	2.00	2.00	0.00
	2,400.0	6.00	225.78	2,399.5	-10.9	-11.2	-10.9	2.00	2.00	0.00
	2,500.0	8.00	225.78	2,498.7	-19.4	-20.0	-19.3	2.00	2.00	0.00
	2,600.0	10.00	225.78	2,597.5	-30.4	-31.2	-30.2	2.00	2.00	0.00
	2,649.8	11.00	225.78	2,646.5	-36.7	-37.7	-36.5	2.00	2.00	0.00
		96.0 at 2649.8		_ ,				2.00		
			*							
	2,700.0	11.00	225.78	2,695.7	-43.4	-44.6	-43.1	. 0.00	` 0.00	0.00
	2,800.0 2,900.0	11.00 11.00	225.78	2,793.9	-56.7	-58.2	-56.3	0.00	0.00	0.00
	3,000.0	11.00	225.78 225.78	2,892.0 2,990.2	-70.0 -83.3	-71.9	-69.6 -82.8	0.00 0.00	0.00 0.00	0.00 0.00
	3,100.0	11.00	225.78	3,088.4	-95.5 -96.6	-85.6 -99.2	-96.0	0.00	0.00	0.00
	•					1				
	3,200.0	11.00	225.78	3,186.5	-109.9	-112.9	-109.2	0.00	0.00	0.00
	3,300.0	11.00	225.78	3,284.7	-123.2	-126.6	-122.5	0.00	0.00	0.00
	3,400.0	11.00	225.78	3,382.9	-136.5	-140.3	-135.7	0.00	0.00	0.00
	3,468.4	11.00	225.78	3,450.0	-145.6	-149:6	-144.7	0.00	0.00	0.00
	Base Salt		205 70	0.404.0	440.0	450.0	440.0	0.00	0.00	0.00
	3,500.0	11.00	225.78	3,481.0	-149.8	-153.9	-148.9	0.00	0.00	0.00
	3,600.0	11.00	225.78	3,579.2	-163.1	-167.6	-162.1	0.00	0.00	0.00
	3,677.2	11.00	225.78	3,655.0	-173.4	-178.2	-172.4	0.00	0.00	0.00
	Delaware N	Mountain Gp			1000	1				
	3,684.4	11.00	225.78	3,662.0	-174.3	-179.1	-173.3	0.00	0.00	0.00
	Lamar			*						
	3,697.6	11.00	225.78	3,675.0	-176.1	180.9	-175.0	0.00	0.00	0.00
	Bell Canyo				1					
-	3,700.0	11.00	225.78	3,677.3	-176.4	181.3	-175.4	0.00	0.00	0.00
	5,700.0	11.00		0,077.0	110.7	1.01.0	110.7		0.00	5.00





Database: Company: Project:

Site:

Well:

EDM 5000.15 Single User Db Tap Rock Resources, LLC Eddy County, NM (NAD 83 NME)

(Nailed It) Sec-36_T-26-S_R-30-E

TVD Reference: MD Reference: North Reference:

Local Co-ordinate Reference:

Survey Calculation Method:

Well Nailed It Fed Com #214H KB @ 3070.0usft

KB @ 3070.0usft

Grid

Nailed It Fed Com #214H OWB

Wellbore: Design:

OVVB Plan #1

Design:	Plan #1					1				ROSEL MANUFACTOR
Planned Survey		,		,	,	And the state of t				
			1 1 2 2	the second	s &					٠.,
Measured			Vertical			Vertical	Dogleg	Build	Turn	
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate	Jan 1
(usft)	(°)	, (°),	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
3,709.8	11.00	225.78	3,687.0	-177.7	-182.6	-176.7	0.00	0.00	0.00	
Ramsey Sa			-,				5.55	5.55	5.55	-
3,800.0	11.00	225.78	3,775.5	-189.7	-194.9	-188.6	0.00	0.00	0.00	
3,900.0	11.00	225.78	3,873.7	-203.0	-208.6	-201.8	0.00	0.00	0.00	
4,000.0	11.00	225.78	3,971.8	-216.3	-222.3	-215.0	0.00	0.00	0.00	
4,100.0	11.00	225.78	4,070.0	-229.6	-236.0	-228.3	0.00	0.00	0.00	
4,200.0	11.00	225.78	4,168.2	-242.9	-249.6	-241.5	0.00	0.00	0.00	
4,300.0	11.00	225.78	4,266.3	-256.2	-263.3	-254.7	0.00	0.00	0.00	
4,400.0	11.00	225.78	4,364.5	-269.5	-277.0	-267.9	0.00	0.00	0.00	
4,500.0	11.00	225.78	4,462.7	-282.8	-290.6	-281.2	0.00	0.00	0.00	
4,600.0	11.00	225.78	4,560.8	-296.1	-304.3	-294.4	0.00	0.00	0.00	
4,700.0	11.00	225.78	4,659.0	-309.4	-318.0	-307.6	0.00	0.00	0.00	
4,800.0	11.00	225.78	4,757.2	-322.7	-331,7	-320.8	0.00	0.00	0.00	
4,900.0	11.00	225.78	4,855.3	-336.0	-345.3		0.00	0.00	0.00	
4,909.9	11.00	225.78	4,865.0	-337.3	-346.7	-335.4	0.00	0.00	0.00	
Cherry Car					1			4		
5,000.0	11.00	225.78	4,953.5	-349.3	-359.0	-347.3	0.00	0.00	0.00	
5,100.0	11.00	225.78	5,051.6	-362.6	-372.7	-360.5	0.00	0.00	0.00	
5,200.0	11.00	225.78	5,149.8	-375.9	-386.3	-373.8	0.00	0.00	0.00	
5,300.0	11.00	225.78	5,248.0	-389.2	-400.0		0.00	0.00	0.00	
5,400.0	11.00	225.78	5,346.1	-402.5	-413.7	-400.2	0.00	0.00	0.00	
5,500.0	11.00	225.78	5,444.3	-415.8	-427.4	-413.4	0.00	0.00	0.00	
5.600.0	11.00	225.78	5,542.5	-429.1	-441.0	-426.7	0.00	0.00	0.00	
5,700.0	11.00	225.78	5,640.6	-442.4	-454.7	-439.9	0.00	0.00	0.00	
5,800.0	, 11.00	225.78	5,738.8	-455.7	-468.4	-453.1	0.00	0.00	0.00	
5,880.7	11.00	225.78	5,818.0	-466.5	-479.4	-463.8	0.00	0.00	0.00	
Brushy Ca	nyon					÷				
5,900.0	11.00	225.78	5,837.0	-469.0	-482.0	-466.3	0.00	0.00	0.00	
6,000.0	11.00	225.78	5.935.1	-482.3	-495.7	-479.6	0.00	0.00	0.00	
6,100.0	11.00	225.78	6,033.3	-495.6	-509.4	-492.8	0.00	0.00	0.00	
6,200.0	11.00	225.78	6,131.4	-508.9	-523.1	-506.0	0.00	0.00	0.00	
6,300.0	11.00	225.78	6,229.6	-522.2	-536.7	-519.2	0.00	0.00	0.00	
6,400.0	11.00	225.78	6,327.8	-535.5	-550.4	-532.5	0.00	0.00	0.00	,
6,500.0	11.00	225.78	6,425.9	-548.8	-5 6 4.1	-545.7	0.00	0.00	0.00	
6,600.0	11.00	225.78	6,524.1	-562.1	-577.7	-558.9	0.00	0.00	0.00	
6,700.0	11.00	225.78	6,622.3	-575.4	-577.7 -591.4	-572.1	0.00	0.00	0.00	
6,800.0	11.00	225.78	6.720.4	-588.8	-605.1	-585.4	0.00	0.00	0.00	
6,900.0	11.00	225.78	6,818.6	-602.1	-618.7	-598.6	0.00	0.00	0.00	
6,945.8	11.00	225.78	6,863.5	-608.1	-625.0		0.00	0.00	0.00	
•		225.78	0,003.3	-0U0. I	-025.0	-004.6	0.00	0.00	0.00	
DROP2.0 7,000.0	9.91	225.78	6.916.9	61F 0	-632.1	C11 F	2.00	-2.00	0.00	
7,000.0 7,100.0	9.91 7.91	225.78 225.78	7,015.6	-615.0 -625.8	-632.1 -643.2	-611.5 -622.2	2.00 2.00	-2.00 -2.00	0.00	
7,100.0 7,200.0	7.91 5.91	225.78 225.78	7,015.6 7,114.9	-625.6 -634.2	-651.8	-622.2 -630.5	2.00	-2.00 -2.00	0.00	
7,200.0	3.91	225.78	7,114.5	-640.2	-657.9	-636.5	2.00	-2.00	0.00	
				•	1					
7,400.0	1.91	225.78	7,314.4	-643.7	-661.6	-640.0	2.00	-2.00	0.00	
7,495.6	0.00	0.00	7,410.0	-644.8	-662.7	-641.1	2.00	-2.00	0.00	
	57.0 at 7495.6 I					. نید		· .		
7,500.0	0.00	0.00	7,414.4	-644.8	-662.7	-641.1	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,514.4	-644.8	-662.7	-641.1	0.00	0.00	0.00	
7,652.6	0.00	0.00	7,567.0	-644.8	-662.7	-641.1	0.00	0.00	0.00	
Bone Sprin	ng Lime									
7,700.0	0.00	0.00	7,614.4	-644.8	662.7	-641.1	0.00	0.00	0.00	
7,770.6	0.00	0.00	7,685.0	-644.8	662.7	-641.1	0.00	0.00	0.00	



WINTREPID

Database: Company: Project:

Site:

EDM 5000.15 Single User Db Tap Rock Resources, LLC Eddy County, NM (NAD 83 NME)

(Nailed It) Sec-36_T-26-S_R-30-E Nailed It Fed Com #214H

Well: Wellbore: Design:

OWB

Plan #1

Local Co-ordinate Reference:

TVD Reference:

North Reference: Survey Calculation Method:

ference: Well Nailed It Fed Com #214H

KB @ 3070.0usft KB @ 3070.0usft

Grid

Planned Surve	v				And the same of the same of the same of		The second secon			The same and the same of the s
T. Idilliou Galit								,		
Alaba Tara Espera					7 ,			737 3		
Measui			The state of the second	Vertical			V4:1		Build	
Depti				Depth			Vertical Section	Dogleg Rate		Turn
(most)		ation	Azimuth	(usft)	+N/-S	+E/-W			Rate (°/100usft)	Rate
(usit	())	, (°)	(usit)	(usft)	(usft)	(usft)	(°/100usft)	(7100usit)	(°/100usft)
Uppei	Avalon					And the second s				
7,80		0.00	0.00	7,714.4	-644.8	-662.7	-641.1	0.00	0.00	0.00
7,90		0.00	0.00	7,814.4	-644.8	-662.7		0.00	0.00	0.00
8,00		0.00	0.00	7,914.4	-644.8	-662.7		0.00	0.00	0.00
•										
8,10		0.00	0.00	8,014.4	-644.8	-662.7		0.00	0.00	0.00
8,15		0.00	0.00	8,072.0	-644.8	-662.7	-641.1	0.00	0.00	0.00
	e Avalon									
8,20		0.00	0.00	8,114.4	-644.8	-662.7	-641.1	0.00	0.00	0.00
8,30		0.00	0.00	8,214.4	-644.8	-662.7	-641.1	0.00	0.00	0.00
8,38		0.00	0.00	8,296.0	-644.8	-662.7	-641.1	0.00	0.00	0.00
Lower	r Avalon									
8,40	0.0	0.00	0.00	8,314.4	-644.8	-662.7	-641.1	0.00	0.00	0.00
8,50		0.00	- 0.00	8,414.4	-644.8	-662.7		0.00	0.00	0.00
8,59		0.00	0.00	8,512.0	-644.8	-662.7		0.00	0.00	0.00
	ne Spring						1		2.22	
8.60		0.00	0.00	8,514.4	-644.8	-662.7	-641.1	0.00	0.00	0.00
8,70		0.00	0.00	8,614.4	-644.8	-662.7	-641.1	0.00	0.00	0.00
				•		1				
8,80		0.00	0.00	8,714.4	-644:8	-662.7			0.00	0.00
8,90		0.00	0.00	8,814.4	-644.8	-662.7		0.00	0.00	0.00
8,94		0.00	0.00	8,862.0	-644.8	-662.7	-641.1	0.00	0.00	0.00
	one Spring									
9,00		0.00	0.00	8,914.4	-644.8	-662.7		0.00	0.00	0.00
9,10	0.00	0.00	0.00	9,014.4	-644.8	-662.7	-641.1	0.00	0.00	0.00
9,20	0.0	0.00	0.00	9,114.4	-644.8	-662.7	-641.1	0.00	0.00	0.00
9,23	2.6	0.00	0.00	9,147.0	-644.8	-662.7		0.00	0.00	0.00
	one Spring			,		.				
9,30		0.00	0.00	9,214.4	-644.8	-662.7	-641 [/] .1	0.00	0.00	0.00
9,40		0.00	0.00	9,314.4	-644.8	-662.7		0.00	0.00	0.00
9,50		0.00	0.00	9,414.4	-644.8	-662.7		0.00	0.00	0.00
9.60		0.00		9,514.4	-644.8	1		0.00	0.00	0.00
9,70		0.00	0.00 0.00	9,514.4 9,614.4	-644.8	-662.7		0.00 0.00	0.00	0.00
9,80		0.00	0.00	9,714.4	-644.8	-662.7 -662.7		0.00	0.00	0.00 0.00
9,83		0.00	0.00	9,746.0	-644.8	-662.7		√ 0.00	0.00	0.00
	one Spring		0.00	3,140.0	-044.0	-002.7	-041.1	0.00	0.00	0.00
9,90		0.00	0.00	9.814.4	-644.8	-662.7	-641.1	0.00	0.00	0.00
						1	-			
10,00		0.00	0.00	9,914.4	-644.8	-662.7		0.00	0.00	0.00
10,10		0.00	0.00	10,014.4	-644.8	-662.7		0.00	0.00	0.00
10,20		0.00	0.00	10,114.4	-644.8	-662.7		0.00	0.00	0.00
10,30		0.00	0.00	10,214.4	-644.8	-662.7		0.00	0.00	0.00
10,40	U.U	0.00	0.00	10,314.4	-644.8	-662.7	-641.1	0.00	0.00	0.00
10,49	9.6	0.00 ~	0.00	10,414.0	-644.8	-662.7	-641.1	0.00	0.00	0.00
3rd Bo	ne Spring	Sand			•				•	
10,50		0.00	0.00	10,414.4	-644.8	-662.7	-641.1	0.00	0.00	0.00
10,60	0.0	0.00	0.00	10,514.4	-644.8	-662.7		0.00	0.00	0.00
10,70		0.00	0:00	10,614.4	-644.8	-662.7		0.00	0.00	0.00
10,75	2.6	0.00	0.00	10,667.0	-644.8	-662.7		0.00	0.00	0.00
KOP -	DLS 10.00									
				10 74 4 0	640.0	000 =	000.0	10.00	40.00	0.00
10,79		4.71	359.68	10,714.0	-642.9	-662.7	-639.2	10.00	10.00	0.00
	W Sand				_	Ĺ				
10,80		4.74	359.68	10,714.3	-642.9	-662.7		10.00	10.00	0.00
10,85		9.74	359.68	10,763.9	-636.6	-662.8		10.00	10.00	0.00
10,89		13.94	359.68	10,805.0	-628.0	-662.8	-624.2	10.00	10.00	0.00
` Wolfc	amp A X Sa	nd				:				



MINTREPID

Database: Company: Project:

Site:

Well:

EDM 5000.15 Single User Db Tap Rock Resources, LLC Eddy County, NM (NAD 83 NME)

(Nailed It) Sec-36_T-26-S_R-30-E Nailed It Fed Com #214H

Wellbore: Design: OWB Plan #1 Local Co-ordinate Reference:

TVD Reference:

North Reference:

Survey Calculation Method:

Well Nailed It Fed Com #214H

KB @ 3070.0usft KB @ 3070.0usft

Grid

Planned Survey				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.V.				
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,900.0	14.74	359.68	10,812.8	-626.0	-662.8	-622.3	10.00	10.00	0.00	
10,950.0	19.74	359.68	10,860.5	-611.2	662.9	-607.5	10.00	10.00	0.00	
11,000.0	24.74	359.68	10,906.8	-592.2	-663.0	-588.5	10.00	10.00	0.00	
11,030.4	27.78	359.68	10,934.0	-578.8	-663.1	-575.1	10.00	10.00	0.00	
Wolfcamp / 11,050.0	4 Y Sand 29.74	359.68	10,951.2	-569.4	-663.1	-565.7	10.00	10.00	0.00	
11,100.0	34.74	359.68	10,993.5	-569. 4 -542.7	-663.3	-505.7 -539.0	10.00	10.00	0.00	
11,134.2	38.16	359.68	11,021.0	-522.4	-663.4	-518.7	10.00	10.00	0.00	
Wolfcamp		333.00	11,021.0	-522.4	-663.4	-516.7	10.00	10.00	0.00	
11,150.0	39.74	359.68	11,033.3	-512.5	-663.5	-508.7	10.00	10.00	0.00	
11,200.0	44.74	359.68	11,070.3	-478.9	-663.6	-475.1	10.00	10.00	0.00	
11,250.0	49.74	359.68	11,104.2	-442.2	-663.8	-438.4	10.00	10.00	0.00	,
11,300.0	54.74	359.68	11,134.8	-402.6	-664.1	-398.9	10.00	10.00	0.00	
11,350.0	59.74	359.68	11,161.9	-360.6	-664.3	-356.9	10.00	10.00	0.00	
11,400.0	64.74	359.68	11,185.2	-316.4	-664.6	-312.7	10.00	10.00	0.00	
11,450.0	69.74	359.68	11,204.5	-270.3	-664.8	-266.6	10.00	10.00	0.00	
11,500.0 11,500.9	74.74 74.83	359.68 359.68	11,219.8 11,220.0	-222.7 -221.8	-665.1 -665.1	-219.0 -218.1	10.00 10.00	10.00 10.00	0.00 0.00	
Wolfcamp E		333.00	11,220.0	-221.0	-005.1	-210.1	10.00	10.00	0.00	
11.550.0	79.74	359.68	11,230.8	-173.9	-665.4	-170.2	. 10.00	10.00	0.00	
11,600.0	84.74	359.68	11,237.5	-124.4	-665.6	-170.2	10.00	10.00	0.00	
11,650.3	89.77	359.68	11,240.0	-74.2	-665.9	-70.5	10.00	10.00	0.00	
EOC - 3934	.3 hold at 1165	0.3 MD								
11,700.0	89.77	359.68	11,240.2	-24.5	-666.2	-20.8	0.00	0.00	0.00	
11,800.0	89.77	359.68	11,240.6	75.5	-666.8	79.2	0.00	0.00	0.00	
11,900.0	89.77	359.68	11,241.0	175.5	-667.3	179.2	0.00	0.00	0.00	
12,000.0 12,100.0	89.77 89.77	359.68 359.68	11,241.4	275.5 275.5	-667.9	279.2	0.00	0.00	0.00	
12,100.0	89.77	359.68	11,241.8 11,242.2	375.5 475.5	-668.4 -669.0	379.2 479.2	0.00 0.00	0.00 0.00	0.00 0.00	
12,300.0	89.77	359.68	11,242.6	575.5	-669.6	579.2	0.00	0.00	0.00	
12,400.0	'89.77	359.68	11,243.0	675.5	-670.1	679.2	0.00	0.00	0.00	
12,500.0	89.77	359.68	11,243.4	775.5	-670.7	779.2	0.00	0.00	0.00	
12,600.0	89.77	359.68	11,243.8	875.5	-671.2	879.2	0.00	0.00	0.00	
12,700.0	89.77	359.68	11,244.2	975.5	-671.8	979.2	0.00	. 0.00	0.00	
12,800.0	89.77	359.68	11,244.6	1,075.5	-672.4	1,079.2	0.00	0.00	0.00	
12,900.0	89.77	359.68	11,245.1	1,175.5	-672.9	1,179.2	0.00	0.00	0.00	
13,000.0 13,100.0	89.77 89.77	359.68 359.68	11,245.5 11,245.9	1,275.5 1,375.5	-673.5 -674.1	1,279.2 1,379.2	0.00 0.00	0.00 0.00	0.00 0.00	
13,200.0	89.77	359.68	11,246.3	1,475.5	-674.6	1,479.2	0.00	0.00	0.00	
13,300.0	89.77	359.68	11,246.7	1,575.5	-675.2	1,579.2	0.00	0.00	0.00	
13,400.0	89.77	359.68	11,247.1	1,675.5	-675.7	1,679.2	0.00	0.00	0.00	
13,500.0	89.77	359.68	11,247.5	1,775.5	-676.3	1,779.2	0.00	0.00	0.00	
13,600.0	89.77	359.68	11,247.9	1,875.5	-676.9	1,879.2	0.00	0.00	0.00	
13,700.0	89.77	359.68	11,248.3	1,975.5	-677.4	1,979.2	0.00	0.00	0.00	
13,800.0	89.77	359.68	11,248.7	2,075.5	-678.0	2,079.2	0.00	0.00	0.00	
13,900.0	89.77	359.68	11,249.1	2,175.5	-678.5	2,179.2	0.00	0.00	0.00	
14,000.0	89.77	359.68	11,249.5	2,275.4	-679.1	2,279.2	0.00	0.00	0.00	
14,100.0 14,200.0	89.77 89.77	359.68 359.68	11,249.9 11,250.4	2,375.4 2,475.4	-679.7 -680.2	2,379.2 2,479.2	0.00 0.00	, 0.00 0.00	0.00 0.00	
14,300.0	89.77	359.68	11,250.8	2,575.4	-680.8	2,579.2	0.00	0.00	0.00	
14,400.0	89.77	359.68	11,251.2	2,675.4	-681.3	2,679.2	0.00	0.00	0.00	
14,500.0	89.77	359.68	11,251.2	2,075.4	-681.9	2,779.2	0.00	0.00	0.00	
14,600.0	89.77	359.68	11,252.0	2,875.4	-682.5	2,879.2	0.00	0.00	0.00 ~	



Database: Company: Project:

Site:

EDM 5000.15 Single User Db

Tap Rock Resources, LLC

Eddy County, NM (NAD 83 NME) (Nailed It) Sec-36_T-26-S_R-30-E Nailed It Fed Com #214H

Well: □ < OWB Wellbore: Design: Plan #1 Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Nailed It Fed Com #214H

KB @ 3070.0usft KB @ 3070.0usft

Grid

Planned Survey Measured Depth Ir (usft)	nclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,700.0	89.77	359.68	11,252.4	2,975.4	-683.0	2,979.2	0.00	0.00	0.00
14,800.0	89.77	359.68	11,252.8	3,075.4	-683.6	3,079.2	0.00	0.00	0.00
14,900.0	89.77	359.68	11,253.2	3,175.4	-684.2	3,179.2	0.00	0.00	0.00
15,000.0	89.77	359.68	11,253.6	3,275.4	-684.7	3,279.2	0.00	0.00	0.00
15,100.0	89.77	359.68	11,254.0	3,375.4	-685.3	3,379.2	0.00	0.00	0.00
15,200.0	89.77	359.68	11,254.4	3,475.4	-685.8	3,479.2	~ 0.00	0.00	0.00
15,300.0	89.77	359.68	11,254.8	3,575.4	-686.4	3,579.2	0.00	0.00	0.00
15,400.0	89.77	359.68	11,255.2	3,675.4	-687.0	3.679.2	0.00	0.00	0.00
15,500.0	89.77	359.68	11,255.7	3,775.4	-687.5	3,779.2	0.00	0.00	0.00
15,584.6	89.77	359.68	11,256.0	3,860.0	688.0	3,863.8	0.00	0.00	0.00
TD at 15584.6		• ,		•]			,	

							· · · · · · · · · · · · · · · · · · ·		
Design Targets {									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)		+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Nailed It Fed Co - plan misses targ - Point			11,240.0 11346.5usf	-415.0 t MD (11160.	-664.0 1 TVD, -363	364,490.00 6 N, -664.3 E)	697,313.00	32° 0' 3.835 N	103° 49′ 48.591 W
PBHL (Nailed It Fed 0 - plan hits target 0 - Rectangle (side	center	359.68 275.0 D40	,	3,860.0	-688.0	368,765.00	697,289.00	32° 0' 46.142 N	103° 49' 48.639 V
LTP (Nailed It Fed Co - plan misses targ - Point			,	3,730.0 MD (11255.5	-688.0 TVD, 3730.	368,635.00 0 N, -687.3 E)	697,289.00	32° 0' 44.855 N	103° 49' 48.646 V





Database: Company: Project:

Site:

EDM 5000.15 Single User Db Tap Rock Resources, LLC

Eddy County, NM (NAD 83 NME) (Nailed It) Sec-36_T-26-S_R-30-E

Well: Wellbore: Design:

Nailed It Fed Com #214H

OWB Plan #1 Local Co-ordinate Reference: TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Well Nailed It Fed Com #214H

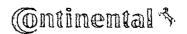
KB @ 3070.0usft KB @ 3070.0usft

Grid

Formations		the smaller transfer and the same of the same and the sam	
Measured Depth (usft)	Vertical Depth (usft)	Name	Dip Dip Direction (°) (°)
859.0	859.0	Rustler Anhydrite	
1,411.0	1,411.0	Top Salt	
3,468.4	3,450.0	Base Salt	. '
3,677.2	3,655.0	Delaware Mountain Gp	
3,684.4	3,662.0	Lamar	
3,697.6	3,675.0	Bell Canyon	
3,709.8	3,687.0	Ramsey Sand	
4,909.9	4,865.0	Cherry Canyon	
5,880.7	5,818.0	Brushy Canyon	
7,652.6	7,567.0	Bone Spring Lime	
7,770.6	7,685.0	Upper Avalon	•
8,157.6	8,072.0	Middle Avalon	
, 8,381.6	8,296.0	Lower Avalon	
8,597.6	8,512.0	1st Bone Spring Sand	
8,947.6	8,862.0	2nd Bone Spring Carb	•
9,232.6		2nd Bone Spring Sand	
9,831.6	9,746.0	3rd Bone Spring Carb	
10,499.6	10,414.0	3rd Bone Spring Sand	
10,799.7	10,714.0	3rd BS W Sand	
10,892.0	10,805.0	Wolfcamp A X Sand	
11,030.4	10,934.0	Wolfcamp A Y Sand /	
11,134.2	11,021.0	Wolfcamp A Lower	
11,500.9	11,220.0	Wolfcamp B	

Plan Annotations Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	+E/-W	Comment	
2,100.0	2,100.0	, 0.0	0.0	NUDGE - Build 2.00	
2,649.8	2,646.5	-36.7	-37.7	HOLD - 4296.0 at 2649.8 MD	
6,945.8	6,863.5	-608.1	-625.0	DROP2.00	,
7,495.6	7,410.0	-644.8	-662.7	HOLD - 3257.0 at 7495.6 MD	
10,752.6	10,667.0	-644.8	-662.7	KOP - DLS 10.00 TFO 359.68	
11,650.3	11,240.0	-74.2	-665.9	EOC - 3934.3 hold at 11650.3 MD	
15,584.6	11,256.0	3,860.0	-688.0	TD at 15584.6	

Hydrostatic Test Certificate



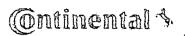
ContiTech

Certificate Number 938562	COM Or 938562	der Reference		Customer Name & Address HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No:	7400433	86		1434 SOUTH BOULDER AVE TULSA, OK 74119
Project: HOW				USA
Test Center Address	1 . ****	Accepted by COM Inspe	ction	Accepted by Client Inspection
ContiTech Oil & Marine Corp.		Roger Syarez		
11535 Brittmoore Park Drive Houston, TX 77041	Signed:	(III)		
USA	Date:	3/13/17		

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

					-7(
itom	Part No.		Description			Qrity	Serial Number	Work * Pross. *.	Test Press.	Test Time (minutes)
20		RECERTIFICATION - 3".	ID 10K Choke and Kill	l Hose x 35	ft OAL	1	53631	10,000 psi	15,000 psi	60
30		RECERTIFICATION - 3"	ID 10K Choke and Kill	I Hose x 35	ft OAL	1	54500	10,000 psi	15,000 psi	60
40		RECERTIFICATION - 3"	ID 10K Choke and Kill	l Hose x 35	n OAL	1	56838	10,000 psi	15,000 psi	60
50		RECERTIFICATION - 3"	ID 10K Choke and Kill	l Hose x 35	ft OAL	1	56489	10,000 psi	15,000 psi	60
60		RECERTIFICATION - 3" I	D 10K Choke and Kill	l Hose x 35	ft OAL	1	61475	10,000 psi	15,000 psi	60
80		RECERTIFICATION - 3" I	ID 10K Choke and Kill	Hose x 35	fi OAL	1	60197	10,000 psi	15,000 psi	60
80	(RECERTIFICATION - 3" I	D 10K Choke and Kill	l Hose x:35	ROAL	1	39474	10,000 psi	15,000 psi	60
100		RECERTIFICATION - 3" I	D 10K Choke and Kill	Hose x 35	ft OAL	1	60887	10,000 psi	15,000 psi	60

Certificate of Conformity

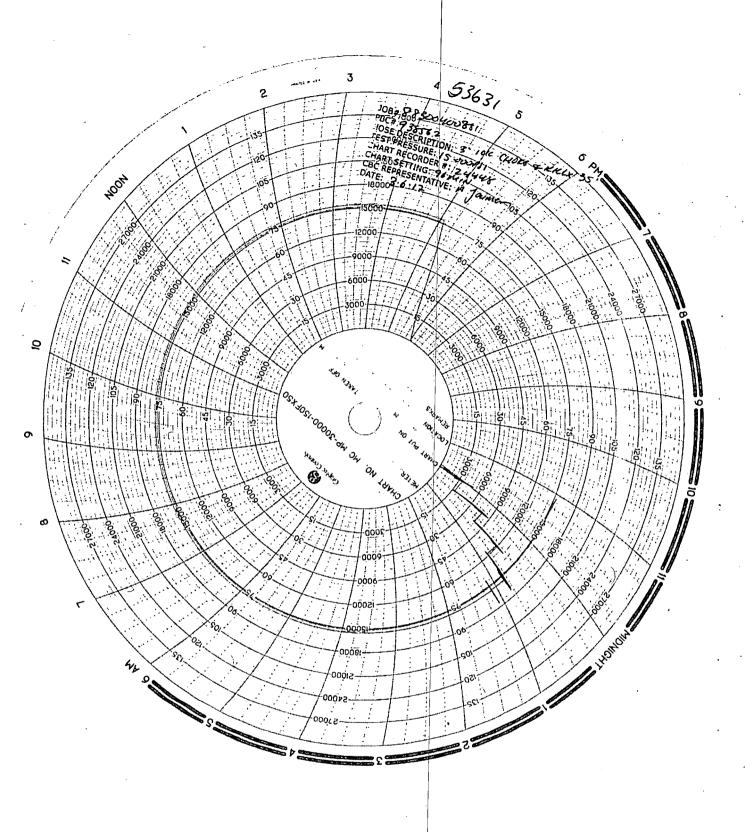


ContiTech

		Continecti		
Common Co		Customer Name & Address HELMERICH & PAYNE DRILLING CO		
Customer Purchase Order No:	740043386	1434 SOUTH BOULDER AVE TULSA, OK 74119		
Project: HOW	C	USA		
Test Center Address	Accepted by COM inspection	Accepted by Client Inspection		
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Roger-Suarez Date: 013717			

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.

Item	Part No.	Qnty	Serial Number	Specifications
20	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	53631	ContiTech Standard
-30	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	54500	ContiTech Standard
40	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 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	1	60197	ContiTech Standard
80	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	39474	ContiTech Standard ·
100	RECERTIFICATION - 3" ID 10K Choke and Kill Hose x 35 ft OAL	1	60887	ContiTech Standard



Hose Inspection Report

ContiTech Oil & Marine

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

Hose Manufacturer Contitech Rubber Industrial	
---	--

Hose Serial #	53631		Date of Manufacture	08/2008	
Hose I.D.	3"		Working Pressure	10000PSI	
Hose Type	Choke a	and Kill	Test Pressure	15000PSI	
Manufacturing S	tandard	API 16C		t.	1

Connections

End B: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange
No damage
Material: Carbon Steel
Seal Face: BX155
Length After Hydro test: 357

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

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

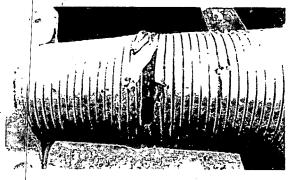
Visual inspection: Every 3 to 6 months (for during installation/removal).

Annual: In-situapressure test (in addition to the 3 to 6 monthly inspections) Initial 5 years service: Major inspection

2nd Major inspection: Following subsequent 3 year life cycle
(Detailed description of test regime available upon request, QCP 206-1)

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

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



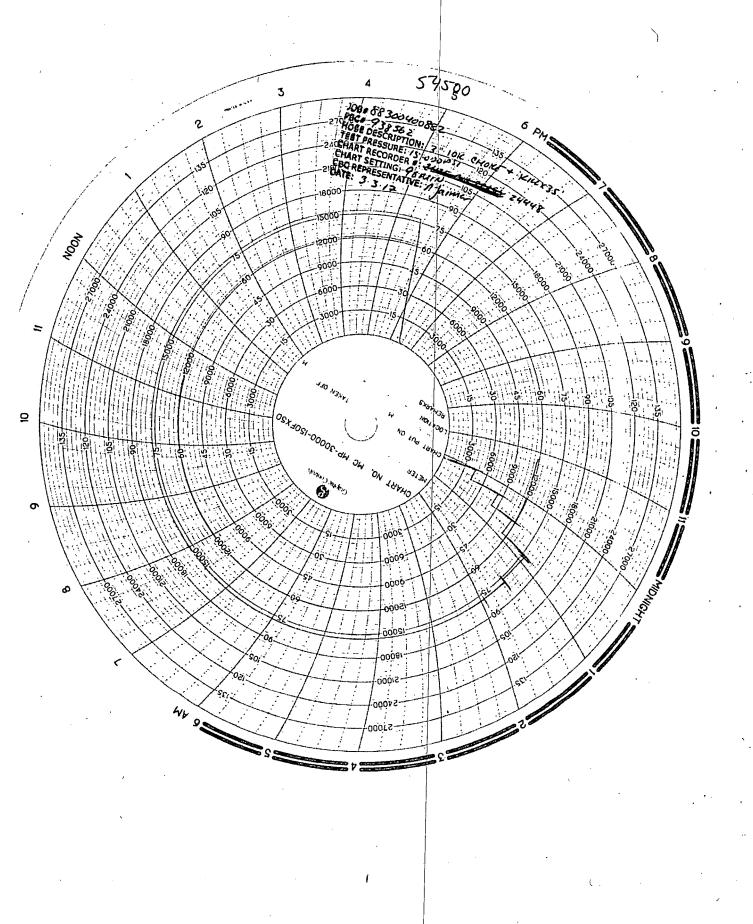
Issued By: Alejandro Jaimes

Date: 03/10/2017

Checked By: Gerson Mejia-Lazo

Date: 03/10/2017

Page **1** of **1** QF97



Hose Inspection Report

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 3" Choke and Kill		Date of Manufacture Working Pressure Test Pressure	01/2009	
Hose I.D.				10000PSI 15000PSI	
Hose Type					
Manufacturing Standard API.16C					

Connections

End A: 3.1/8" 5KPsi API Spec 6A Type 6BX Flange	End B: 3.1/8" SKpsi 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 #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. Hose #54500 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
2 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