Form 3160-5 (June 2015)

OCD - REC'D 7/01/2020

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No. NMNM138850

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use th	is form for proposals to	drill or to re	-enter an			
abandoned we	ell. Use form 3160-3 (AP	D) for such p	proposals.		6. If Indian, Allottee of	or Tribe Name
SUBMIT IN	TRIPLICATE - Other ins	tructions on	page 2		7. If Unit or CA/Agree	ement, Name and/or No.
Type of Well Oil Well	har				8. Well Name and No. NAILED IT FED C	
2. Name of Operator		CHRISTIAN	COMBS		9. API Well No.	
TAP ROCK OPERATING LLC	C E-Mail: ccombs@t				30-015-46859-0	00-X1
3a. Address 602 PARK POINT DRIVE SU GOLDEN, CO 80401	ITE 200	3b. Phone No Ph: 720-36	o. (include area code) 60-4028		10. Field and Pool or PURPLE SAGE	Exploratory Area E-WOLFCAMP (GAS)
4. Location of Well (Footage, Sec., 7	T., R., M., or Survey Description	1)			11. County or Parish,	State
Sec 36 T26S R30E 766FSL 5 32.002266 N Lat, 103.828018					EDDY COUNTY	Y, NM
12. CHECK THE A	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	HER DATA
TYPE OF SUBMISSION			ТҮРЕ О	ACTION		
➤ Notice of Intent	☐ Acidize	☐ Dee	pen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off
_	☐ Alter Casing	☐ Hyd	Iraulic Fracturing	□ Reclam	ation	■ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ Nev	v Construction	□ Recomp	olete	⊠ Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug	g and Abandon	□ Tempor	arily Abandon	Change to Original A PD
	☐ Convert to Injection	☐ Plug	g Back	☐ Water I	Disposal	
If the proposal is to deepen direction Attach the Bond under which the worfollowing completion of the involve testing has been completed. Final A determined that the site is ready for the Request to change BHL, Depapproved pad boundaries restormation is unchanged. New BHL is 2466 feet FSL ar New Depths are 10991 feet T Request to casing plan is to refeet to 10,336 feet, and 5 inch	ork will be performed or provided operations. If the operation rebandonment Notices must be filinal inspection. th, & Casing Plan. SHL is ulting in no new additional and 1100 feet FEL of Sec 20 TVD and 15375 feet MD un production casing with 18 lb P110ICY W521 from the production of the operation of the production casing with the part of the operations.	the Bond No. or sults in a multipled only after all unchanged to disturbance 15, T26S, R30 5.5 inch 23 lt om 10,336 fee	n file with BLM/BIA le completion or reco requirements, includ herefore remains needed for this r	Required sumpletion in a ing reclamation within exist equest. Tare	bsequent reports must be new interval, a Form 316 n, have been completed a ting get	filed within 30 days 60-4 must be filed once
lb P110ICY W513 from 11,32 18lb P110ICY W521 casing a	8 feet to 15,375 feet inste s originally permitted.	ead of the 5.5	inch 20lb P-110l	C TXP and	5 inch	
, , , , ,	Electronic Submission #	K OPERATING	LLC, sent to the	Carlsbad		
Name (Printed/Typed) CHRISTIA	AN COMBS	0,	Title REGUL	ATORY MA	NAGER	
Signature (Electronic	Submission)		Date 05/07/20	020		
	THIS SPACE FO	OR FEDER	L OR STATE	OFFICE U	SE	
Approved By ALLISON MORENC			TitlePETROLE	UM ENGIN	EER	Date 05/18/2020
Conditions of approval, if any, are attached certify that the applicant holds legal or eqwhich would entitle the applicant to cond	uitable title to those rights in the	s not warrant or e subject lease	Office Carlsbac	d		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional data for EC transaction #514588 that would not fit on the form

32. Additional remarks, continued

Updated Plats, Drill Plan, Directional Plan, and Casing Spec sheet are attached.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

X AMENDED REPORT
UPDATED BHL

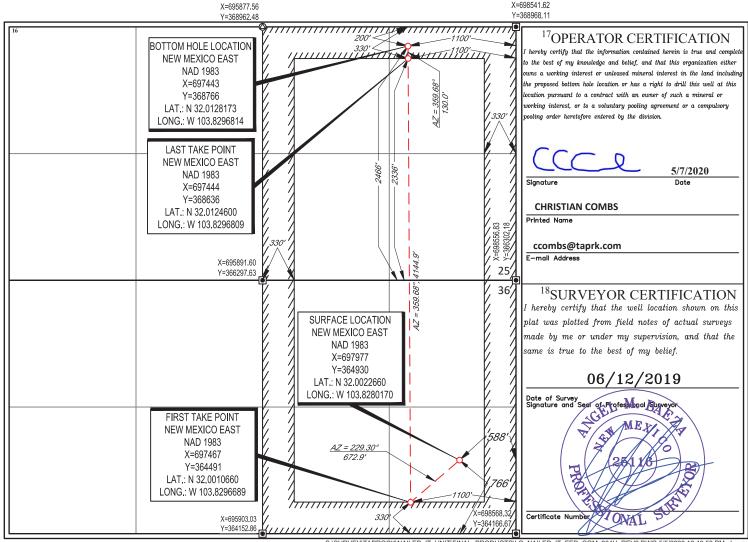
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numbe	er	² Pool Code	³ Pool Name				
30-015-468	359	98220	PURPLE SAGE WOLFCA	AMP			
⁴ Property Code		⁵ Pr	operty Name	⁶ Well Number			
327308		NAILED	IT FED COM	204H			
⁷ OGRID No.		⁸ O _I	perator Name	⁹ Elevation			
372043		TAP ROCK	OPERATING, LLC.	3046'			

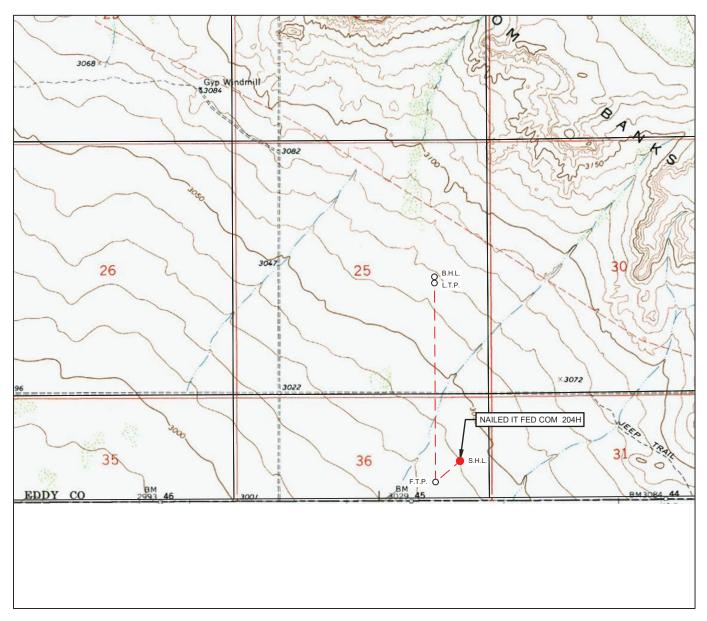
¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	36	26-S	30-E	-	766'	SOUTH	588'	EAST	EDDY
		ı	11]	Bottom Ho	le Location If D	Different From Su	rface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	25	26-S	30-E	-	2466'	SOUTH	1100'	EAST	EDDY
12Dedicated Acres	¹³ Joint or l	Infill 14Co	nsolidation Cod	de ¹⁵ Ord	er No.			•	

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



LOCATION & ELEVATION VERIFICATION MAP





LEASE NAME & WELL NO.: NAILED IT FED COM 204H

 SECTION
 36
 TWP
 26-S
 RGE
 30-E
 SURVEY
 N.M.P.M.

 COUNTY
 EDDY
 STATE
 NM
 ELEVATION
 3046'

 DESCRIPTION
 766' FSL & 588' FEL

LATITUDE N 32.0022660 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 TRANSACTION ONLY.

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

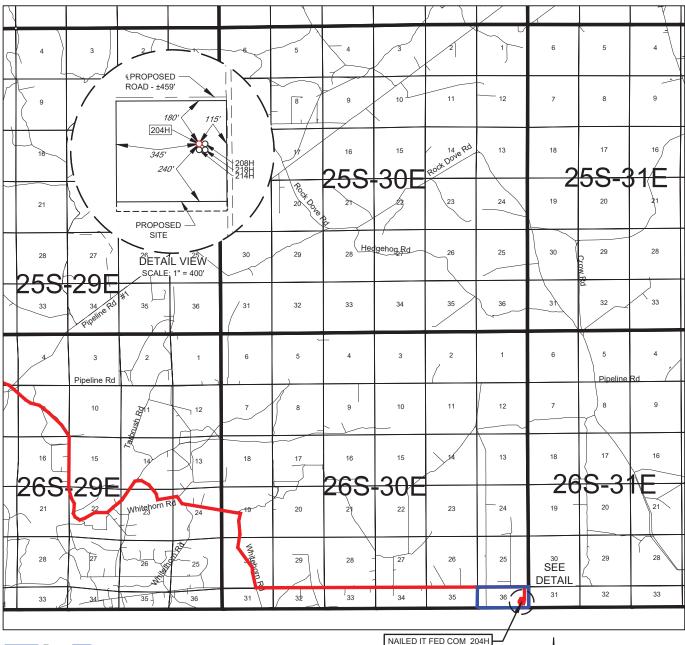
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554

2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705

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

WWW.TOPOGRAPHIC.COM

EXHIBIT 2 VICINITY MAP





LEASE NAME & WELL NO.: NAILED IT FED COM 204H

 SECTION
 36
 TWP
 26-S
 RGE
 30-E
 SURVEY
 N.M.P.M.

 COUNTY
 EDDY
 STATE
 NM

 DESCRIPTION
 766' FSL & 588' FEL

DISTANCE & DIRECTION

FROM INT. OF US-285 & COUNTY RD 396, GO SOUTH ON US-285 ±12.6 MILES, THENCE EAST (LEFT) ON WHITEHORN RD. ±2.4 MILES, THENCE NORTH (LEFT) ON LONGHORN RD. ±1.9 MILES, THENCE SOUTH (RIGHT) ON WHITEHORN RD. ±3.3 MILES, THENCE WEST (RIGHT) ON PROPOSED RD. ±3.0 MILES, THENCE EAST (LEFT) ON STATE LINE RD. ±7.0 MILES, THENCE SOUTH (RIGHT) ON A LEASE RD. ±0.2 MILES, THENCE WEST (RIGHT) ON PROPOSED RD. ±1242 FEET TO A POINT ±226 FEET NORTHEAST OF THE LOCATION.

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

ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR TH TRANSACTION ONLY.

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.





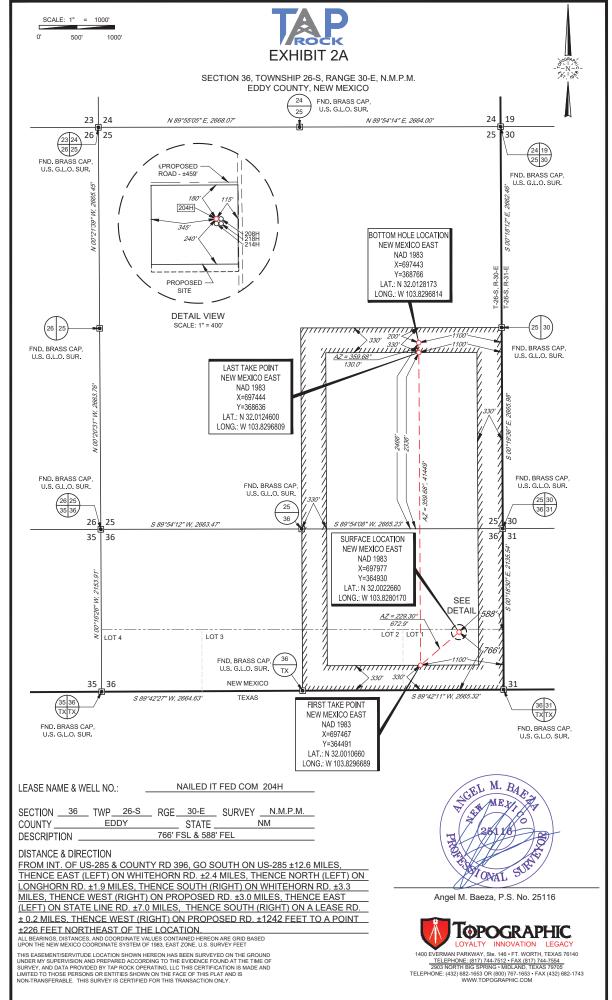
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140

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

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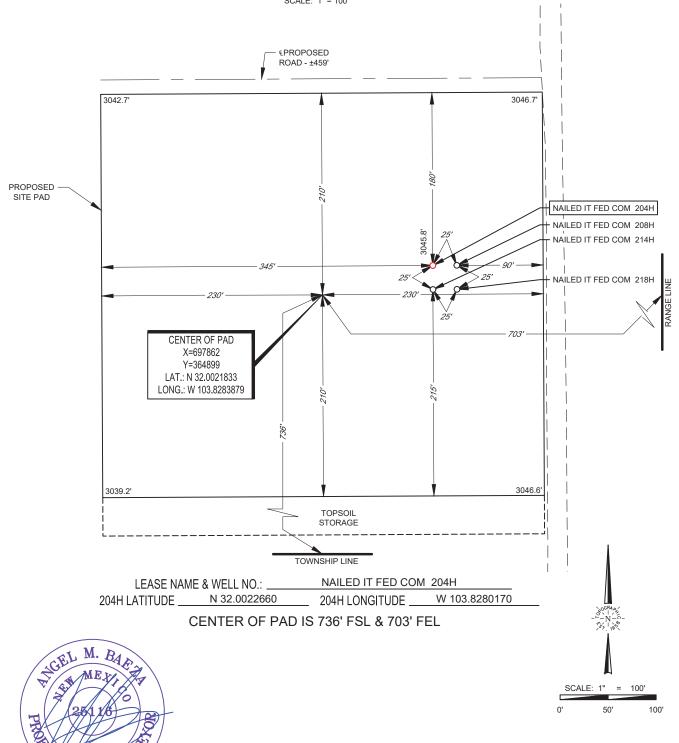
WWW.TOPOGRAPHIC.COM





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

DETAIL VIEW SCALE: 1" = 100'



Angel M. Baeza, P.S. No. 25116

ONAL

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. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

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.



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) 767-1653 • FAX (432) 682-1743

WWW.TOPOGRAPHIC.COM



Elevation above Sea Level: 3046'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler Anhydrite	861	861		Salt
Salado	1413	1413	Salt	Salt
Base Salt	3452	3466		Salt
Lamar	3665	3681	Limestone	None
Bell Canyon	3685	3700	Sandstone	Hydrocarbons
Cherry Canyon	4875	4909	Sandstone	Hydrocarbons
Brushy Canyon	5830	5876	Sandstone	Hydrocarbons
Bone Spring	7575	7646	Limestone	Hydrocarbons
1st Bone Spring	8520	8591	Sandstone	Hydrocarbons
2nd Bone Spring	8870	8941	Sandstone	Hydrocarbons
3rd Bone Spring	9755	9825	Sandstone	Hydrocarbons
КОР	10565	10636	Sandstone	Hydrocarbons
Wolfcamp	10813	10902	Shale	Hydrocarbons
TD	10991	15375	Shale	Hydrocarbons

2. Notable Zones

Wolfcamp is the target formation.

3. Pressure Control

Pressure Control Equipment (See Schematics):

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

BOP Test procedure will be as follows:



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

Variance Requests:

Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate 1, Intermediate 2, and Production Strings. Tap Rock requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Tap Rock requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, after drilling surface, 1st intermediate, and 2nd intermediate hole sections and cementing 2nd intermediate casing, a 10M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test. Tap Rock requests 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.



4. Casing & Cement

All Casing will be new.

Name	Hole Size	Casing Size	Standard	Tapered	Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	13 3/8	API	No	0	936	0	936	J-55	54.5	STC	1.13	1.15	1.6
1st Intermediate	12 1/4	9 5/8	API	No	0	3701	0	3685	J-55	40	BTC	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	API	No	0	3401	0	3385	P-110	29.7	BTC	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	NON API	Yes	3401	10536	3385	10465	P-110	29.7	W-513	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	No	0	10336	0	10265	P-110	23	W-563	1.13	1.15	1.6
Production	6 3/4	5	NON API	Yes	10336	11328	10265	10991	P-110	18	W-521	1.13	1.15	1.6
Production	6 3/4	5	NON API	Yes	11328	15375	10991	10991	P-110	18	W-513	1.13	1.15	1.6

Name	Туре	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Tail	0	963	1.35	1300	14.8	100%	С	5% NCI + LCM
4 - + 1 - +	Lead	0	879	1.74	1530	13.5	65%	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
1st Intermediate	Tail	2961	277	1.38	382	14.8	65%	С	5% NaCl + LCM
2	Lead	3401	373	2.23	832	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM
2nd Intermediate	Tail	9536	100	1.35	136	13.2	35%	Н	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	9836	176	1.19	209	15.8	25%	Н	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Electronic Pason mud monitor system complying with Onshore Order 1 will be used. All necessary mud products (e. g., barite, cedar bark) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions. A closed loop system will be used.

Name	Тор	Bottom	Туре	Mud Weight	Visc	Fluid Loss
Surface	0	936	FW Spud Mud	8.30	28	NC
Intermediate	936	3701	Brine Water	10.00	30-32	NC
Intermediate 2	3701	10536	FW/Cut Brine	9.00	30-32	NC
Production	10536	15375	Oil Base Mud	11.50	50-60	<10

6. Cores, Tests, & Logs

- Electric Logging Program: No open-hole logs are planned at this time for the pilot hole.
- GR will be collected while drilling through the MWD tools from 9.625" casing shoe to TD.
- A 2-person mud logging program will be used from 9.625" casing shoe to TD.
- No DSTs or cores are planned at this time.
- CBL w/ CCL from as far as gravity will let it fall to TOC.



7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is $\approx 6,573$ psi. Expected bottom hole temperature is $\approx 160^{\circ}$ F.

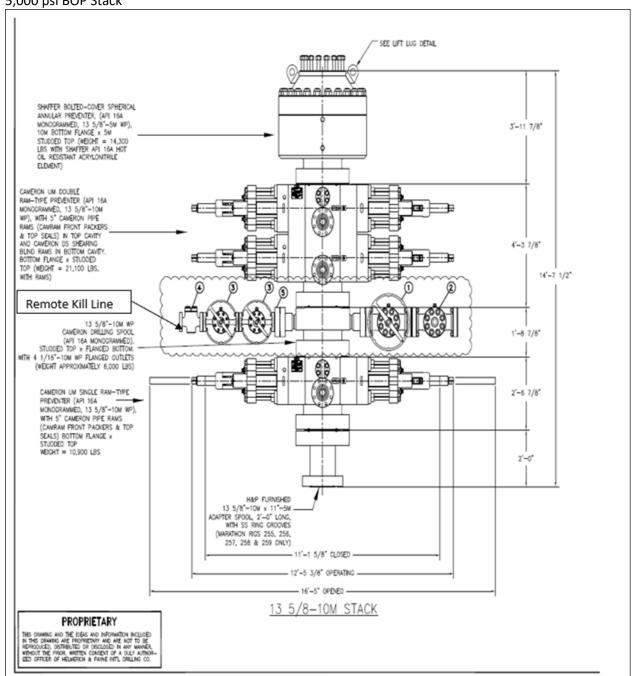
Tap Rock does not anticipate that there will be enough H2S from the surface to the Wolfcamp formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H2S safety package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

8. Other Information

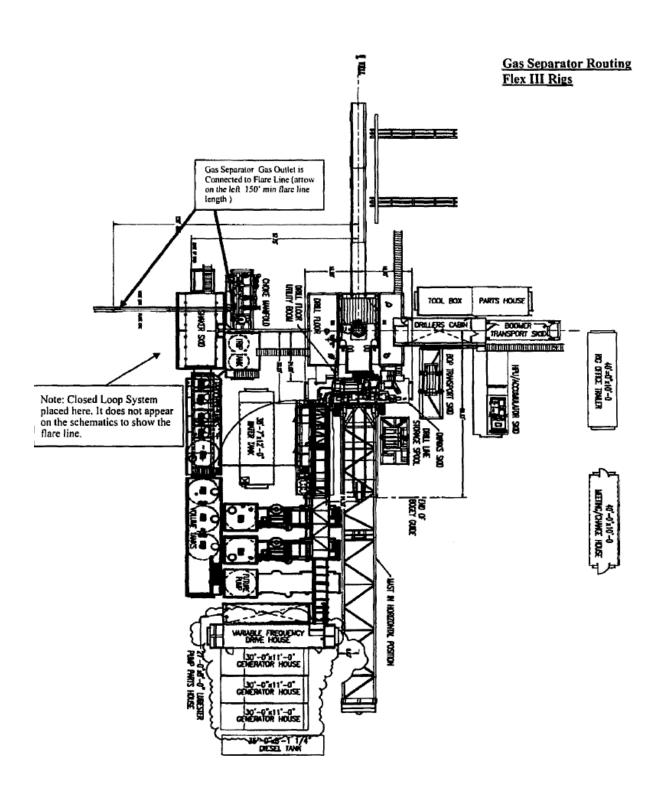
Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.



5,000 psi BOP Stack

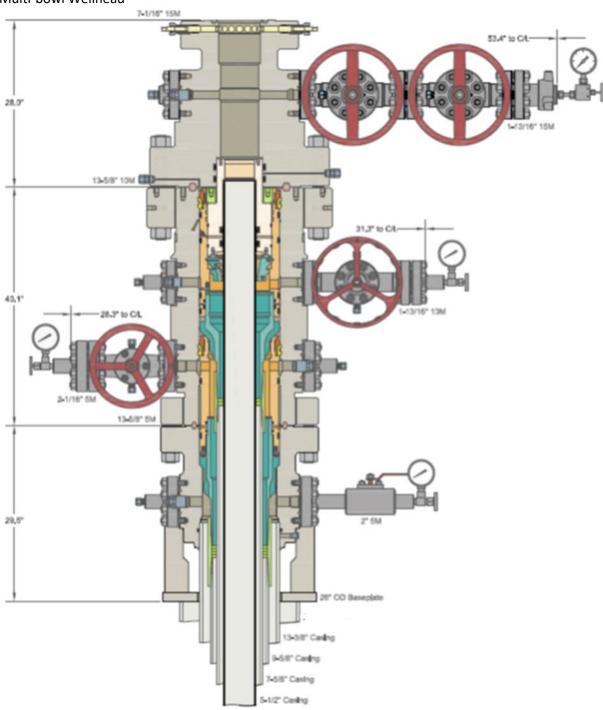






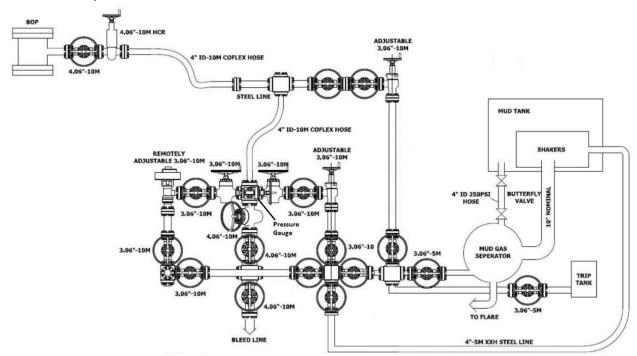


Multi-bowl Wellhead





10M Choke Layout





Tap Rock Resources, LLC

Eddy County, NM (NAD 83 NME) (Nailed It) Sec-36_T-26-S_R-30-E Nailed It Fed Com #204H

OWB

Plan: Plan #2

Standard Planning Report

06 May, 2020







Database:EDM 5000.15 Single User DbCompany:Tap Rock Resources, LLCProject:Eddy County, NM (NAD 83 NME)Site:(Nailed It) Sec-36_T-26-S_R-30-E

Well: Nailed It Fed Com #204H

Wellbore: OWB
Design: Plan #2

Local Co-ordinate Reference: TVD Reference:

MD Reference:
North Reference:

Survey Calculation Method:

Well Nailed It Fed Com #204H

KB @ 3072.0usft KB @ 3072.0usft

Grid

Minimum Curvature

Project	Eddy County, NM	(NAD 83 NME)
---------	-----------------	--------------

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

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

364,471.00 usft Site Position: Northing: Latitude: 32° 0' 3.820 N 693,516.00 usft 103° 50' 32.687 W From: Мар Easting: Longitude: **Position Uncertainty:** 0.0 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.26°

Well Nailed It Fed Com #204H

 Well Position
 +N/-S
 459.0 usft
 Northing:
 364,930.00 usft
 Latitude:
 32° 0' 8.159 N

 +E/-W
 4,461.0 usft
 Easting:
 697,977.00 usft
 Longitude:
 103° 49' 40.856 W

Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,046.0 usft

Wellbore OWB

 Magnetics
 Model Name
 Sample Date (°)
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2015
 07/22/19
 6.83
 59.79
 47,567.36113282

Design Plan #2

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S (usft)
 +E/-W (usft)
 Direction (usft)

 0.0
 0.0
 0.0
 359.68

Plan Survey Tool Program Date 05/06/20

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.0 15,375.4 Plan #2 (OWB) MWD

OWSG MWD - Standard

Plan Section	s									
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	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,700.1	10.00	217.25	2,697.5	-34.7	-26.4	2.00	2.00	0.00	217.25	
7,037.9	10.00	217.25	6,969.5	-634.3	-482.3	0.00	0.00	0.00	0.00	
7,538.0	0.00	0.00	7,467.0	-669.0	-508.7	2.00	-2.00	0.00	180.00	
10,636.7	0.00	0.00	10,565.7	-669.0	-508.7	0.00	0.00	0.00	0.00	
11,277.9	89.78	359.68	10,975.0	-261.4	-511.0	14.00	14.00	-0.05	359.68	
15,375.4	89.78	359.68	10,991.0	3,836.0	-534.0	0.00	0.00	0.00	0.00	PBHL (Nailed It Fe





Database: EDM 5000.15 Single User Db Tap Rock Resources, LLC Company: Eddy County, NM (NAD 83 NME) Project: (Nailed It) Sec-36_T-26-S_R-30-E Site:

Nailed It Fed Com #204H Well: OWB Wellbore:

Design: Plan #2

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: **Survey Calculation Method:**

Well Nailed It Fed Com #204H KB @ 3072.0usft KB @ 3072.0usft Grid Minimum Curvature

nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0 100.0 200.0 300.0 400.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.0 100.0 200.0 300.0 400.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
500.0 600.0 700.0 800.0 861.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	500.0 600.0 700.0 800.0 861.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
Rustler An	hydrite								
900.0 1,000.0 1,100.0 1,200.0 1,300.0 1,400.0	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	900.0 1,000.0 1,100.0 1,200.0 1,300.0 1,400.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
1,413.0	0.00	0.00	1,413.0	0.0	0.0	0.0	0.00	0.00	0.00
Top Salt 1,500.0 1,600.0 1,700.0	0.00 0.00 0.00	0.00 0.00 0.00	1,500.0 1,600.0 1,700.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
1,800.0 1,900.0 2,000.0 2,100.0 2,200.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	1,800.0 1,900.0 2,000.0 2,100.0 2,200.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
NUDGE - B	suild 2.00								
2,300.0 2,400.0 2,500.0 2,600.0 2,700.1	2.00 4.00 6.00 8.00 10.00 37.8 at 2700.1	217.25 217.25 217.25 217.25 217.25	2,300.0 2,399.8 2,499.5 2,598.7 2,697.5	-1.4 -5.6 -12.5 -22.2 -34.7	-1.1 -4.2 -9.5 -16.9 -26.4	-1.4 -5.5 -12.4 -22.1 -34.5	2.00 2.00 2.00 2.00 2.00	2.00 2.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00
	10.00		2 705 0	40 F	26.0	40.2	0.00	0.00	0.00
2,800.0 2,900.0 3,000.0 3,100.0 3,200.0	10.00 10.00 10.00 10.00	217.25 217.25 217.25 217.25 217.25	2,795.9 2,894.4 2,992.9 3,091.4 3,189.9	-48.5 -62.3 -76.1 -89.9 -103.8	-36.9 -47.4 -57.9 -68.4 -78.9	-48.3 -62.0 -75.8 -89.6 -103.3	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
3,300.0 3,400.0 3,466.2	10.00 10.00 10.00	217.25 217.25 217.25	3,288.3 3,386.8 3,452.0	-117.6 -131.4 -140.6	-89.4 -99.9 -106.9	-117.1 -130.9 -140.0	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
3,500.0 3,600.0	10.00 10.00	217.25 217.25	3,485.3 3,583.8	-145.2 -159.1	-110.4 -121.0	-144.6 -158.4	0.00 0.00	0.00 0.00	0.00 0.00
3,674.3	10.00	217.25	3,657.0	-169.3	-128.8	-168.6	0.00	0.00	0.00
Delaware N 3,681.4	Mountain Gp 10.00	217.25	3,664.0	-170.3	-129.5	-169.6	0.00	0.00	0.00
J,081.4	10.00	211.25	3,004.0	-170.3	-129.5	-109.0	0.00	0.00	0.00
3,700.0 3,700.7 Bell Canyo	10.00 10.00	217.25 217.25	3,682.3 3,683.0	-172.9 -173.0	-131.5 -131.5	-172.2 -172.3	0.00 0.00	0.00 0.00	0.00 0.00
	ALI								





Database: EDM 5000.15 Single User Db
Company: Tap Rock Resources, LLC
Project: Eddy County, NM (NAD 83 NME)
Site: (Nailed It) Sec-36_T-26-S_R-30-E

Well: Nailed It Fed Com #204H
Wellbore: OWB
Design: Plan #2

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Nailed It Fed Com #204H KB @ 3072.0usft KB @ 3072.0usft Grid Minimum Curvature

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Ramsey S	and								
3,800.0 3,900.0 4,000.0 4,100.0 4,200.0	10.00 10.00 10.00 10.00 10.00	217.25 217.25 217.25 217.25 217.25	3,780.7 3,879.2 3,977.7 4,076.2 4,174.7	-186.7 -200.5 -214.4 -228.2 -242.0	-142.0 -152.5 -163.0 -173.5 -184.0	-185.9 -199.7 -213.5 -227.2 -241.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
4,300.0 4,400.0 4,500.0 4,600.0 4,700.0	10.00 10.00 10.00 10.00 10.00	217.25 217.25 217.25 217.25 217.25	4,273.2 4,371.6 4,470.1 4,568.6 4,667.1	-255.8 -269.7 -283.5 -297.3 -311.1	-194.5 -205.0 -215.6 -226.1 -236.6	-254.7 -268.5 -282.3 -296.0 -309.8	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
4,800.0 4,900.0 4,909.1	10.00 10.00 10.00	217.25 217.25 217.25	4,765.6 4,864.0 4,873.0	-325.0 -338.8 -340.0	-247.1 -257.6 -258.6	-323.6 -337.3 -338.6	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Cherry Ca 5,000.0 5,100.0	10.00 10.00	217.25 217.25	4,962.5 5,061.0	-352.6 -366.4	-268.1 -278.6	-351.1 -364.9	0.00 0.00	0.00 0.00	0.00 0.00
5,200.0 5,300.0 5,400.0 5,500.0 5,600.0	10.00 10.00 10.00 10.00 10.00	217.25 217.25 217.25 217.25 217.25	5,159.5 5,258.0 5,356.4 5,454.9 5,553.4	-380.3 -394.1 -407.9 -421.7 -435.6	-289.1 -299.7 -310.2 -320.7 -331.2	-378.6 -392.4 -406.2 -419.9 -433.7	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
5,700.0 5,800.0 5,876.8	10.00 10.00 10.00	217.25 217.25 217.25	5,651.9 5,750.4 5,826.0	-449.4 -463.2 -473.8	-341.7 -352.2 -360.3	-447.5 -461.2 -471.8	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Brushy Ca 5,900.0	anyon 10.00	217.25	5,848.8	477.0	-362.7	-475.0	0.00	0.00	0.00
6,000.0	10.00	217.25	5,046.6 5,947.3	-477.0 -490.9	-362.7 -373.2	-475.0 -488.8	0.00	0.00	0.00
6,100.0 6,200.0 6,300.0 6,400.0 6,500.0	10.00 10.00 10.00 10.00 10.00	217.25 217.25 217.25 217.25 217.25	6,045.8 6,144.3 6,242.8 6,341.2 6,439.7	-504.7 -518.5 -532.3 -546.2 -560.0	-383.8 -394.3 -404.8 -415.3 -425.8	-502.5 -516.3 -530.1 -543.8 -557.6	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
6,600.0 6,700.0 6,800.0 6,900.0 7,000.0	10.00 10.00 10.00 10.00 10.00	217.25 217.25 217.25 217.25 217.25	6,538.2 6,636.7 6,735.2 6,833.6 6,932.1	-573.8 -587.6 -601.5 -615.3 -629.1	-436.3 -446.8 -457.3 -467.9 -478.4	-571.4 -585.1 -598.9 -612.7 -626.4	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
7,037.9	10.00	217.25	6,969.5	-634.3	-482.3	-631.6	0.00	0.00	0.00
DROP2 7,100.0 7,200.0 7,300.0	.00 8.76 6.76 4.76	217.25 217.25 217.25	7,030.7 7,129.8 7,229.3	-642.4 -653.1 -661.1	-488.5 -496.6 -502.7	-639.7 -650.4 -658.3	2.00 2.00 2.00	-2.00 -2.00 -2.00	0.00 0.00 0.00
7,400.0 7,500.0 7,538.0 HOLD - 3 0	2.76 0.76 0.00 98.7 at 7538.0	217.25 217.25 0.00	7,329.1 7,429.0 7,467.0	-666.4 -668.8 -669.0	-506.7 -508.5 -508.7	-663.5 -665.9 -666.1	2.00 2.00 2.00	-2.00 -2.00 -2.00	0.00 0.00 0.00
7,600.0	0.00	0.00	7,529.0	-669.0	-508.7	-666.1	0.00	0.00	0.00
7,646.0 Bone Spri	0.00	0.00	7,575.0	-669.0	-508.7	-666.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,629.0	-669.0	-508.7	-666.1	0.00	0.00	0.00
7,764.0 Upper Ava	0.00 alon	0.00	7,693.0	-669.0	-508.7	-666.1	0.00	0.00	0.00





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Wellbore: OWB
Design: Plan #2

Local Co-ordinate Reference: TVD Reference:

MD Reference:
North Reference:

Survey Calculation Method:

Well Nailed It Fed Com #204H

KB @ 3072.0usft KB @ 3072.0usft

Grid

Minimum Curvature

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,800.0 7,900.0 8,000.0 8,100.0	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	7,729.0 7,829.0 7,929.0 8,029.0	-669.0 -669.0 -669.0 -669.0	-508.7 -508.7 -508.7 -508.7	-666.1 -666.1 -666.1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
8,151.0	0.00	0.00	8,080.0	-669.0	-508.7	-666.1	0.00	0.00	0.00
Middle Ava 8,200.0 8,300.0 8,375.0	0.00 0.00 0.00	0.00 0.00 0.00	8,129.0 8,229.0 8,304.0	-669.0 -669.0 -669.0	-508.7 -508.7 -508.7	-666.1 -666.1 -666.1	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Lower Ava 8,400.0	o.00	0.00	8,329.0	-669.0	-508.7	-666.1	0.00	0.00	0.00
8,500.0 8,591.0	0.00 0.00	0.00 0.00	8,429.0 8,520.0	-669.0 -669.0	-508.7 -508.7	-666.1 -666.1	0.00 0.00	0.00 0.00	0.00 0.00
1st Bone \$ 8,600.0 8,700.0 8,800.0	Spring Sand 0.00 0.00 0.00	0.00 0.00 0.00	8,529.0 8,629.0 8,729.0	-669.0 -669.0 -669.0	-508.7 -508.7 -508.7	-666.1 -666.1	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,900.0 8,941.0	0.00 0.00	0.00 0.00	8,829.0 8,870.0	-669.0 -669.0	-508.7 -508.7	-666.1 -666.1	0.00 0.00	0.00 0.00	0.00 0.00
	Spring Carb								
9,000.0 9,100.0 9,200.0	0.00 0.00 0.00	0.00 0.00 0.00	8,929.0 9,029.0 9,129.0	-669.0 -669.0 -669.0	-508.7 -508.7 -508.7	-666.1 -666.1 -666.1	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
9,226.0	0.00	0.00	9,155.0	-669.0	-508.7	-666.1	0.00	0.00	0.00
9,300.0 9,400.0 9,500.0 9,600.0	9.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	9,229.0 9,329.0 9,429.0 9,529.0	-669.0 -669.0 -669.0	-508.7 -508.7 -508.7 -508.7	-666.1 -666.1 -666.1	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
9,700.0 9,800.0 9,825.0	0.00 0.00 0.00	0.00 0.00 0.00	9,629.0 9,729.0 9,754.0	-669.0 -669.0 -669.0	-508.7 -508.7 -508.7	-666.1 -666.1 -666.1	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
3rd Bone \$	Spring Carb 0.00	0.00	9.829.0	-669.0	-508.7	-666.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,929.0	-669.0	-508.7	-666.1	0.00	0.00	0.00
10,100.0 10,200.0 10,300.0 10,400.0 10,493.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	10,029.0 10,129.0 10,229.0 10,329.0 10,422.0	-669.0 -669.0 -669.0 -669.0 -669.0	-508.7 -508.7 -508.7 -508.7 -508.7	-666.1 -666.1 -666.1 -666.1	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
3rd Bone S	Spring Sand								
10,500.0 10,600.0 10,636.7	0.00 0.00 0.00	0.00 0.00 0.00	10,429.0 10,529.0 10,565.7	-669.0 -669.0 -669.0	-508.7 -508.7 -508.7	-666.1 -666.1 -666.1	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	14.00 TFO 35		10 F 7 0 0	600.0	F00 7	605.0	44.00	44.00	0.00
10,650.0 10,675.0	1.86 5.36	359.68 359.68	10,579.0 10,604.0	-668.8 -667.2	-508.7 -508.7	-665.9 -664.4	14.00 14.00	14.00 14.00	0.00 0.00
10,700.0 10,725.0 10,750.0 10,775.0 10,797.1 3rd BS W	8.86 12.36 15.86 19.36 22.45	359.68 359.68 359.68 359.68 359.68	10,628.8 10,653.3 10,677.6 10,701.4 10,722.0	-664.1 -659.5 -653.4 -645.9 -638.0	-508.7 -508.8 -508.8 -508.8 -508.9	-661.3 -656.7 -650.6 -643.0 -635.1	14.00 14.00 14.00 14.00 14.00	14.00 14.00 14.00 14.00 14.00	0.00 0.00 0.00 0.00 0.00





Database: EDM 5000.15 Single User Db Company: Tap Rock Resources, LLC Project: Eddy County, NM (NAD 83 NME) Site: (Nailed It) Sec-36_T-26-S_R-30-E

Well: Nailed It Fed Com #204H

Wellbore: OWB
Design: Plan #2

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Nailed It Fed Com #204H

KB @ 3072.0usft KB @ 3072.0usft

Grid

Minimum Curvature

Planned Survey										
M	leasured 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)
	10,800.0	22.86	359.68	10,724.7	-636.8	-508.9	-634.0	14.00	14.00	0.00
	10,825.0	26.36	359.68	10,747.4	-626.4	-508.9	-623.6	14.00	14.00	0.00
	10,850.0	29.86	359.68	10,769.5	-614.7	-509.0	-611.8	14.00	14.00	0.00
	10,875.0	33.36	359.68	10,790.8	-601.6	-509.1	-598.7	14.00	14.00	0.00
	10,900.0	36.86	359.68	10,811.2	-587.2	-509.2	-584.3	14.00	14.00	0.00
	10,902.2 Wolfcamp	37.18	359.68	10,813.0	-585.8	-509.2	-583.0	14.00	14.00	0.00
	10,925.0	40.36	359.68	10,830.7	-571.6	-509.2	-568.7	14.00	14.00	0.00
	10,950.0	43.86	359.68	10,849.3	-554.8	-509.3	-552.0	14.00	14.00	0.00
	10,975.0	47.36	359.68	10,866.8	-537.0	-509.4	-534.1	14.00	14.00	0.00
	11,000.0	50.86	359.68	10,883.1	-518.1	-509.5	-515.2	14.00	14.00	0.00
	11,025.0 11,050.0 11,075.0 11,100.0	54.36 57.86 61.36 64.86	359.68 359.68 359.68	10,898.3 10,912.2 10,924.9 10,936.2	-498.2 -477.4 -455.9 -433.6	-509.7 -509.8 -509.9 -510.0	-495.3 -474.6 -453.0 -430.7	14.00 14.00 14.00 14.00	14.00 14.00 14.00 14.00	0.00 0.00 0.00 0.00
	11,114.2 Wolfcamp	66.85 A Y Sand	359.68	10,942.0	-420.6	-510.1	-417.8	14.00	14.00	0.00
	11,125.0	68.36	359.68	10,946.1	-410.7	-510.2	-407.8	14.00	14.00	0.00
	11,150.0	71.86	359.68	10,954.6	-387.1	-510.3	-384.3	14.00	14.00	0.00
	11,175.0	75.36	359.68	10,961.7	-363.2	-510.4	-360.3	14.00	14.00	0.00
	11,200.0	78.86	359.68	10,967.2	-338.8	-510.6	-335.9	14.00	14.00	0.00
	11,225.0	82.36	359.68	10,971.3	-314.1	-510.7	-311.3	14.00	14.00	0.00
	11,250.0 11,275.0 11,277.9	85.86 89.36 89.78 7.4 hold at 112	359.68 359.68 359.68	10,973.9 10,974.9 10,975.0	-289.3 -264.3 -261.4	-510.8 -511.0 -511.0	-286.4 -261.4 -258.5	14.00 14.00 14.00	14.00 14.00 14.00	0.00 0.00 0.00
	11,300.0	89.78	359.68	10,975.0	-239.3	-511.1	-236.4	0.00	0.00	0.00
	11,400.0	89.78	359.68	10,975.4	-139.3	-511.7	-136.4	0.00	0.00	0.00
	11,500.0	89.78	359.68	10,975.8	-39.3	-512.2	-36.4	0.00	0.00	0.00
	11,600.0	89.78	359.68	10,976.2	60.7	-512.8	63.6	0.00	0.00	0.00
	11,700.0	89.78	359.68	10,976.6	160.7	-513.4	163.6	0.00	0.00	0.00
	11,800.0	89.78	359.68	10,977.0	260.7	-513.9	263.6	0.00	0.00	0.00
	11,900.0	89.78	359.68	10,977.4	360.7	-514.5	363.6	0.00	0.00	0.00
	12,000.0	89.78	359.68	10,977.8	460.7	-515.0	463.6	0.00	0.00	0.00
	12,100.0	89.78	359.68	10,978.2	560.7	-515.6	563.6	0.00	0.00	0.00
	12,200.0	89.78	359.68	10,978.6	660.7	-516.2	663.6	0.00	0.00	0.00
	12,300.0	89.78	359.68	10,979.0	760.7	-516.7	763.5	0.00	0.00	0.00
	12,400.0	89.78	359.68	10,979.3	860.7	-517.3	863.5	0.00	0.00	0.00
	12,500.0	89.78	359.68	10,979.7	960.7	-517.9	963.5	0.00	0.00	0.00
	12,600.0	89.78	359.68	10,980.1	1,060.7	-518.4	1,063.5	0.00	0.00	0.00
	12,700.0	89.78	359.68	10,980.5	1,160.7	-519.0	1,163.5	0.00	0.00	0.00
	12,800.0	89.78	359.68	10,980.9	1,260.7	-519.5	1,263.5	0.00	0.00	0.00
	12,900.0	89.78	359.68	10,981.3	1,360.7	-520.1	1,363.5	0.00	0.00	0.00
	13,000.0	89.78	359.68	10,981.7	1,460.7	-520.7	1,463.5	0.00	0.00	0.00
	13,100.0	89.78	359.68	10,982.1	1,560.7	-521.2	1,563.5	0.00	0.00	0.00
	13,200.0	89.78	359.68	10,982.5	1,660.7	-521.8	1,663.5	0.00	0.00	0.00
	13,300.0	89.78	359.68	10,982.9	1,760.7	-522.3	1,763.5	0.00	0.00	0.00
	13,400.0	89.78	359.68	10,983.3	1,860.6	-522.9	1,863.5	0.00	0.00	0.00
	13,500.0	89.78	359.68	10,983.7	1,960.6	-523.5	1,963.5	0.00	0.00	0.00
	13,600.0	89.78	359.68	10,984.0	2,060.6	-524.0	2,063.5	0.00	0.00	0.00
	13,700.0	89.78	359.68	10,984.4	2,160.6	-524.6	2,163.5	0.00	0.00	0.00
	13,800.0	89.78	359.68	10,984.8	2,260.6	-525.2	2,263.5	0.00	0.00	0.00
	13,900.0	89.78	359.68	10,985.2	2,360.6	-525.7	2,363.5	0.00	0.00	0.00





Database: EDM 5000.15 Single User Db
Company: Tap Rock Resources, LLC
Project: Eddy County, NM (NAD 83 NME)
Site: (Nailed It) Sec-36_T-26-S_R-30-E

Well: Nailed It Fed Com #204H

Wellbore: OWB
Design: Plan #2

TD at 15375.4

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Nailed It Fed Com #204H

KB @ 3072.0usft KB @ 3072.0usft

Grid

Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,000.0	89.78	359.68	10,985.6	2,460.6	-526.3	2,463.5	0.00	0.00	0.00
14,100.0	89.78	359.68	10,986.0	2,560.6	-526.8	2,563.5	0.00	0.00	0.00
14,200.0	89.78	359.68	10,986.4	2,660.6	-527.4	2,663.5	0.00	0.00	0.00
14,300.0	89.78	359.68	10,986.8	2,760.6	-528.0	2,763.5	0.00	0.00	0.00
14,400.0	89.78	359.68	10,987.2	2,860.6	-528.5	2,863.5	0.00	0.00	0.00
14,500.0	89.78	359.68	10,987.6	2,960.6	-529.1	2,963.5	0.00	0.00	0.00
14,600.0	89.78	359.68	10,988.0	3,060.6	-529.6	3,063.5	0.00	0.00	0.00
14,700.0	89.78	359.68	10,988.4	3,160.6	-530.2	3,163.5	0.00	0.00	0.00
14,800.0	89.78	359.68	10,988.7	3,260.6	-530.8	3,263.5	0.00	0.00	0.00
14,900.0	89.78	359.68	10,989.1	3,360.6	-531.3	3,363.5	0.00	0.00	0.00
15,000.0	89.78	359.68	10,989.5	3,460.6	-531.9	3,463.5	0.00	0.00	0.00
15,100.0	89.78	359.68	10,989.9	3,560.6	-532.5	3,563.5	0.00	0.00	0.00
15,200.0	89.78	359.68	10,990.3	3,660.6	-533.0	3,663.5	0.00	0.00	0.00
15,300.0	89.78	359.68	10,990.7	3,760.6	-533.6	3,763.5	0.00	0.00	0.00
15,375.4	89.78	359.68	10,991.0	3,836.0	-534.0	3,838.9	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Nailed It Fed Co - plan misses targ - Point			10,975.0 11110.9us	-439.0 ft MD (10940	-510.0 .7 TVD, -423	364,491.00 3.6 N, -510.1 E)	697,467.00	32° 0' 3.838 N	103° 49' 46.803 W
LTP (Nailed It Fed Co - plan misses targ - Point			10,991.0 5245.4usft	3,706.0 MD (10990.5	-533.0 5 TVD, 3706	368,636.00 5.0 N, -533.3 E)	697,444.00	32° 0' 44.858 N	103° 49' 46.846 W
PBHL (Nailed It Fed 0 - plan hits target 0 - Rectangle (side:	center		10,991.0	3,836.0	-534.0	368,766.00	697,443.00	32° 0' 46.144 N	103° 49' 46.850 W





Database: EDM 5000.15 Single User Db
Company: Tap Rock Resources, LLC
Project: Eddy County, NM (NAD 83 NME)
Site: (Nailed It) Sec-36_T-26-S_R-30-E
Well: Nailed It Fed Com #204H

Wellbore: OWB
Design: Plan #2

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Nailed It Fed Com #204H KB @ 3072.0usft KB @ 3072.0usft Grid

Minimum Curvature

Formations

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	861.0	861.0	Rustler Anhydrite			
	1,413.0	1,413.0	Top Salt			
	3,466.2	3,452.0	Base Salt			
	3,674.3	3,657.0	Delaware Mountain Gp			
	3,681.4	3,664.0	Lamar			
	3,700.7	3,683.0	Bell Canyon			
	3,712.9	3,695.0	Ramsey Sand			
	4,909.1	4,873.0	Cherry Canyon			
	5,876.8	5,826.0	Brushy Canyon			
	7,646.0	7,575.0	Bone Spring Lime			
	7,764.0	7,693.0	Upper Avalon			
	8,151.0	8,080.0	Middle Avalon			
	8,375.0	8,304.0	Lower Avalon			
	8,591.0	8,520.0	1st Bone Spring Sand			
	8,941.0	8,870.0	2nd Bone Spring Carb			
	9,226.0	9,155.0	2nd Bone Spring Sand			
	9,825.0	9,754.0	3rd Bone Spring Carb			
	10,493.0	10,422.0	3rd Bone Spring Sand			
	10,797.1	10,722.0	3rd BS W Sand			
	10,902.2	10,813.0	Wolfcamp A X Sand			
	11,114.2	10,942.0	Wolfcamp A Y Sand			

lan Annotations				
Measured	Vertical	Local Coor	rdinates	Comment
Depth	Depth	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
2,200.0	2,200.0	0.0	0.0	NUDGE - Build 2.00
2,700.1	2,697.5	-34.7	-26.4	HOLD - 4337.8 at 2700.1 MD
7,037.9	6,969.5	-634.3	-482.3	DROP2.00
7,538.0	7,467.0	-669.0	-508.7	HOLD - 3098.7 at 7538.0 MD
10,636.7	10,565.7	-669.0	-508.7	KOP - DLS 14.00 TFO 359.68
11,277.9	10,975.0	-261.4	-511.0	EOC - 4097.4 hold at 11277.9 MD
15,375.4	10,991.0	3,836.0	-534.0	TD at 15375.4

Wedge 563® Dopeless® Printed on: 28/04/2020

		Min. Wall Thickness	87.5%	(*)GradeP110-I	С
Outside Diameter	5.500 in.	Connection C Option	D REGULAR	Coupling	Pipe Body
Wall Thickne	ss 0.415 in.	Drift	API Standard	Body: White	1st Band: White
Grade	P110-IC*	Туре	Casing	1st Band: -	2nd Band: Pale Green
				2nd Band: -	3rd Band: -
				3rd Band: -	4th Band: -

Geometry					
Nominal OD 5		Nominal Weight	23.00 lbs/ft	Drift	4.545 in.
Nominal ID 4	.670 in.	Wall Thickness	0.415 in.	Plain End Weight	22.56 lbs/ft
OD A Tolerance	API				
Performance					
Body Yield 7. Strength	'29 x1000 lbs	Internal Yield	14530 psi	SMYS	110000 psi
· ·	6220 psi				
CONNECTION Geometry	DATA				
Connection 6 OD		Coupling Length	9.25 in.	Connection ID	4.670 in.
Make-up 3 Loss		Threads per in	3.36	Connection OD Option	REGULAR
Performance					
Tension 1 Efficiency		Joint Yield Strength	729.000 x1000 lbs	Internal Pressure Capacity	14530.000 psi
Compression 1 Efficiency		Compression Strength	729.000 x1000 lbs	Max. Allowable Bending	92 °/100 ft
External 1 Pressure Capacity	6220.000 psi	Coupling Face Load	205000 lbs		
Make-Up Torqu	ies				
Minimum 9	200 ft-lbs	Optimum	11000 ft-lbs	Maximum	16100 ft-lbs
Operation Limit	Torques				
Torque		Yield Torque	24000 ft-lbs		
Buck-On					
Minimum 1	5600 ft-lbs	Maximum	17700 ft-lbs		

This connection is fully interchangeable with:

Wedge 533® Dopeless® - 5.5 in. - 23 lbs/ft

Wedge 553® Dopeless® - 5.5 in. - 23 lbs/ft

Wedge 563® Dopeless® - 5.5 in. - 14 / 15.5 / 17 / 20 lbs/ft

Wedge 563® Tubing Dopeless® - 5.5 in. - 23 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 513® Printed on: 28/04/2020

Min. Wall 87.5% (*)GradeP110Thickness ICY

Outside 5.000 in. Connection OD REGULAR Coupling Pipe Body
Option

Wall Thickness 0.362 in. Drift API Standard Body: White 1st Band: White

Grade P110-ICY* Type Casing 1st Band: Pale 2nd Band: Pale Green Green

2nd Band: - 3rd Band: Pale

Green

3rd Band: - 4th Band: -

PIPE BODY [DATA				
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	659 x1000 lbs	Internal Yield	15840 psi	SMYS	125000 psi
Collapse	14840 psi				
CONNECTIO	N DATA				
Geometry					
Connection OD	5.000 in.	Connection ID	4.194 in.	Make-up Loss	4.320 in.
Threads per in	3.36	Connection OD Option	REGULAR		
Performance					
Tension Efficiency	63.7 %	Joint Yield Strength	419.783 x1000 lbs	Internal Pressure Capacity	15840.000 psi
Compression Efficiency	73.7 %	Compression Strength	485.683 x1000 lbs	Max. Allowable Bending	73.3 °/100 ft
External Pressure Capacity	14840.000 psi				
Make-Up Tor	ques				
Minimum	6500 ft-lbs	Optimum	7800 ft-lbs	Maximum	11400 ft-lbs
Operation Lin	nit Torques				
Operating Torque	22000 ft-lbs	Yield Torque	33000 ft-lbs		

Notes

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Wedge 521® Dopeless® Printed on: 28/04/2020

3rd Band: -

4th Band: -

		Min. Wall Thickness	87.5%	(*)GradeP110- ICY	
Outside 5.0 Diameter		Connection OD Option	REGULAR	Coupling	Pipe Body
Wall Thickness 0.3	362 in.	Drift	API Standard	Body: White	1st Band: White
Grade P1	10-ICY*	Туре	Casing	1st Band: Pale Green	2nd Band: Pale Green
				2nd Band: -	3rd Band: Pale Green

PIPE BODY [DATA				
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	659 x1000 lbs	Internal Yield	15840 psi	SMYS	125000 psi
Collapse	14840 psi				
CONNECTIO	N DATA				
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	REGULAR		
Performance					
Tension Efficiency	73.8 %	Joint Yield Strength	486.342 x1000 lbs	Internal Pressure Capacity	15840.000 psi
Compression Efficiency	88.7 %	Compression Strength	584.533 x1000 lbs	Max. Allowable Bending	84.9 °/100 ft
External Pressure Capacity	14840.000 psi				
Make-Up Tord	ques				
Minimum	7300 ft-lbs	Optimum	8800 ft-lbs	Maximum	12800 ft-lbs
Operation Lim	nit Torques				
Operating Torque	Ask	Yield Torque	Ask		

Notes

This connection is fully interchangeable with:

Wedge 521® Dopeless® - 5 in. - 13 / 15 lbs/ft

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

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