

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMNM138850

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
NAILED IT FED COM 208H9. API Well No.
30-015-46879-00-X110. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)11. County or Parish, State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
TAP ROCK OPERATING LLC
Contact: CHRISTIAN COMBS
E-Mail: ccombs@taprk.com3a. Address
602 PARK POINT DRIVE SUITE 200
GOLDEN, CO 804013b. Phone No. (include area code)
Ph: 720-360-40284. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 36 T26S R30E 766FSL 563FEL
32.002266 N Lat, 103.827934 W Lon

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Request to change BHL, Depth, & Casing Plan. SHL is unchanged therefore remains within existing approved pad boundaries resulting in no new additional disturbance needed for this request. Target formation is unchanged.

New BHL is 2466 feet FSL and 2024 feet FEL of Sec 25, T26S, R30E

New Depths are 10983 feet TVD and 15492 feet MD

Request casing plan change to run production casing with 5.5 inch 23 lb P110IC W563 casing from 0 feet to 10,450 feet, and 5 inch 18 lb P110ICY W521 from 10,450 feet to 11,442 feet, and 5 inch 18 lb P110ICY W513 from 11,442 feet to 15,492 feet instead of the 5.5 inch 20lb P-110IC TXP and 5 inch 18lb P110ICY W521 casing as originally permitted.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #514595 verified by the BLM Well Information System
For TAP ROCK OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 05/11/2020 (20PP2748SE)

Name (Printed/Typed) CHRISTIAN COMBS

Title REGULATORY MANAGER

Signature (Electronic Submission)

Date 05/07/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ALLISON MORENCY

Title PETROLEUM ENGINEER

Date 05/18/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #514595 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

☒ AMENDED REPORT
UPDATED BHL

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46879	² Pool Code 98220	³ Pool Name PURPLE SAGE WOLFCAMP
⁴ Property Code 327308	⁵ Property Name NAILED IT FED COM	⁶ Well Number 208H
⁷ OGRID No. 372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁹ Elevation 3045'

¹⁰Surface Location

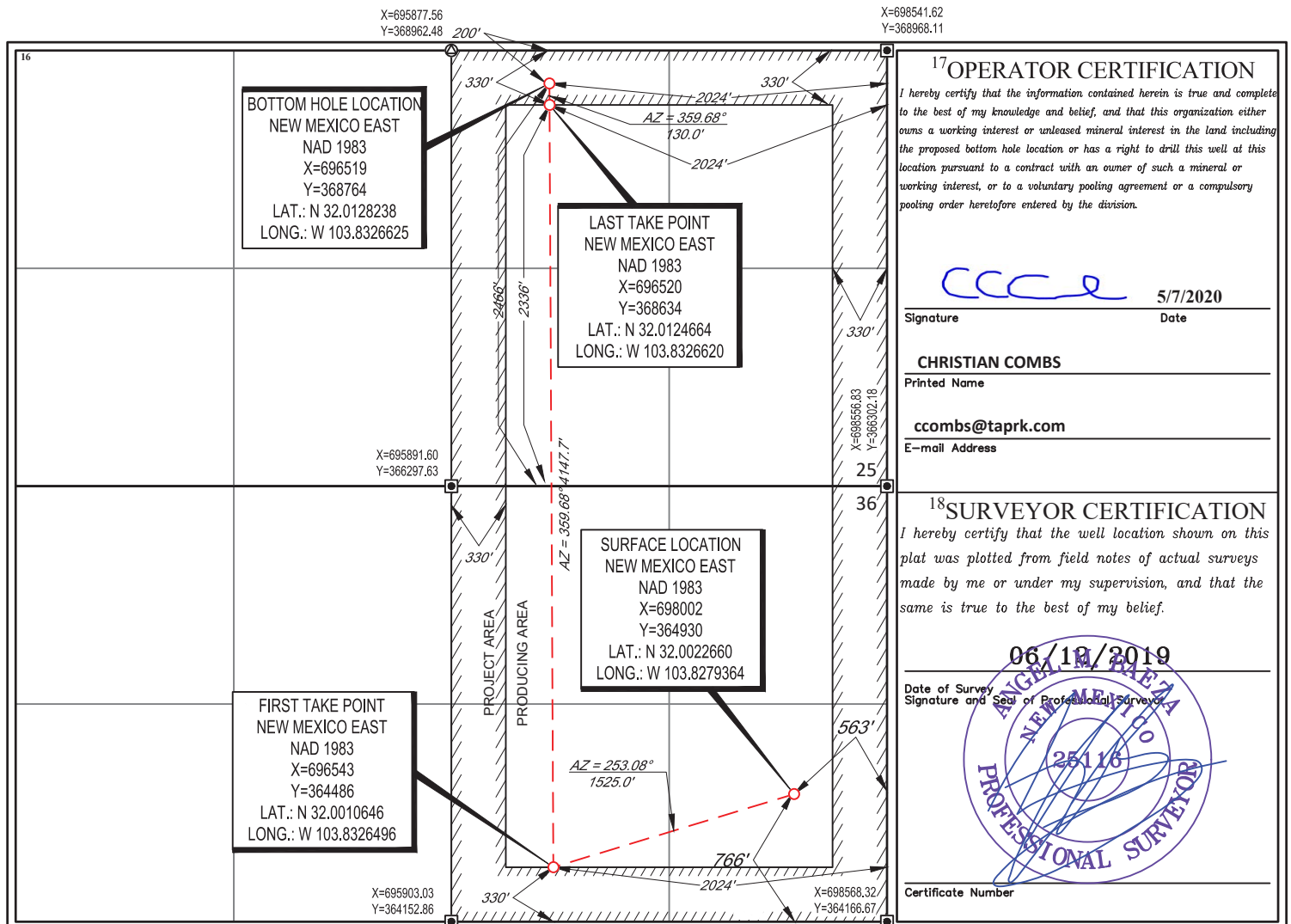
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	36	26-S	30-E	-	766'	SOUTH	563'	EAST	EDDY

¹¹Bottom Hole Location If Different From Surface

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	2024'	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



The map shows a topographic view of the Phantom Lake area. Key features include:


- Phantom Lake**: A large body of water in the upper right, with a small island labeled "Drill Hole".
- Phantom Bank**: A steep, rocky area to the right of the lake.
- Gyp Windmill**: A structure located near the center-left of the map.
- Jeep Trail**: A dashed line indicating a trail in the lower right corner.
- Contour Lines**: Brown lines representing elevation, with labels such as 3000, 3050, 3100, 3150, and 3200.
- Elevation Markers**: Various points marked with elevations like 3022, 3047, 3068, 3082, 3084, 3088, 3121, 3150, 3180, 3200, 3220, 3240, 3260, 3280, 3300, 3320, 3340, 3360, 3380, 3400, 3420, 3440, 3460, 3480, 3500, 3520, 3540, 3560, 3580, 3600, 3620, 3640, 3660, 3680, 3700, 3720, 3740, 3760, 3780, 3800, 3820, 3840, 3860, 3880, 3900, 3920, 3940, 3960, 3980, 4000, 4020, 4040, 4060, 4080, 4100, 4120, 4140, 4160, 4180, 4200, 4220, 4240, 4260, 4280, 4300, 4320, 4340, 4360, 4380, 4400, 4420, 4440, 4460, 4480, 4500, 4520, 4540, 4560, 4580, 4600, 4620, 4640, 4660, 4680, 4700, 4720, 4740, 4760, 4780, 4800, 4820, 4840, 4860, 4880, 4900, 4920, 4940, 4960, 4980, 5000.
- Grid System**: A coordinate grid with letters A through Z and numbers 1 through 30.
- Landmarks**: "F.T.P." (Fossil Trail Point) and "S.H.L." (Shoreline Lake) are marked near the bottom center.
- Other Labels**: "NAILED IT FED COM 208H" is written near the bottom right.
- Map Scale**: A scale bar at the bottom indicates distances in miles (0 to 10).
- Map Source**: "EDDY CO" is printed at the bottom left.
- Map Date**: "BM 2993 46" is printed at the bottom left.
- Map Date**: "BM 3029 45" is printed at the bottom center.
- Map Date**: "BM 3084 44" is printed at the bottom right.



LATITUDE N 32.0022660 LONGITUDE W 103.8279364



SCALE: 1" = 2000'

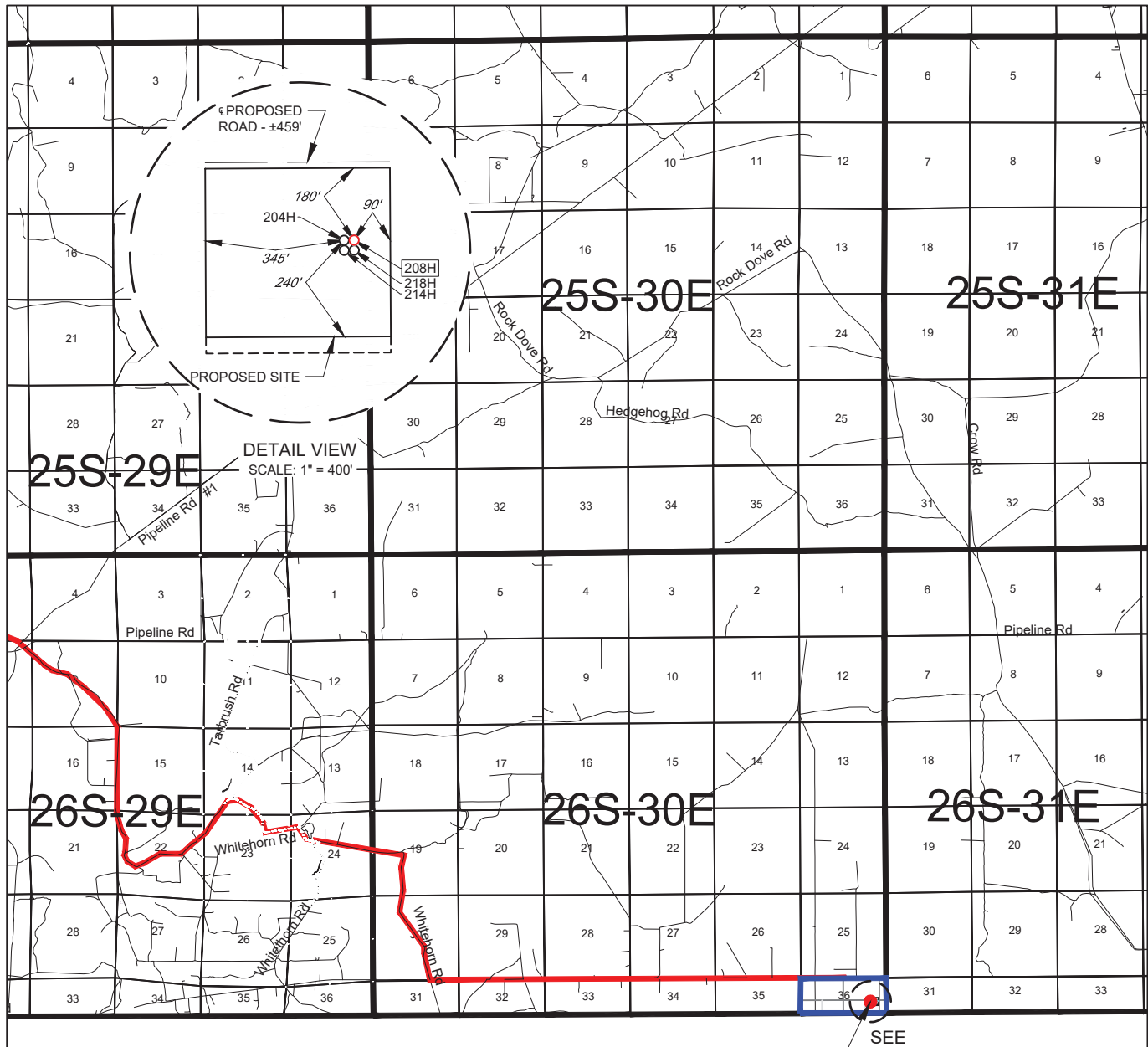


0' 1000' 2000'



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



NAILED IT FED COM 208H

SEE
DETAIL



LEASE NAME & WELL NO.: NAILED IT FED COM 208H

SECTION 36 TWP 26-S RGE 30-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 766' FSL & 563' 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. ±6.3 MILES, THENCE WEST (RIGHT) ON PROPOSED
RD. ±459 FEET TO A POINT ±401 FEET NORTHWEST 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.

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.

SCALE: 1" = 10000'
0' 5000' 10000'



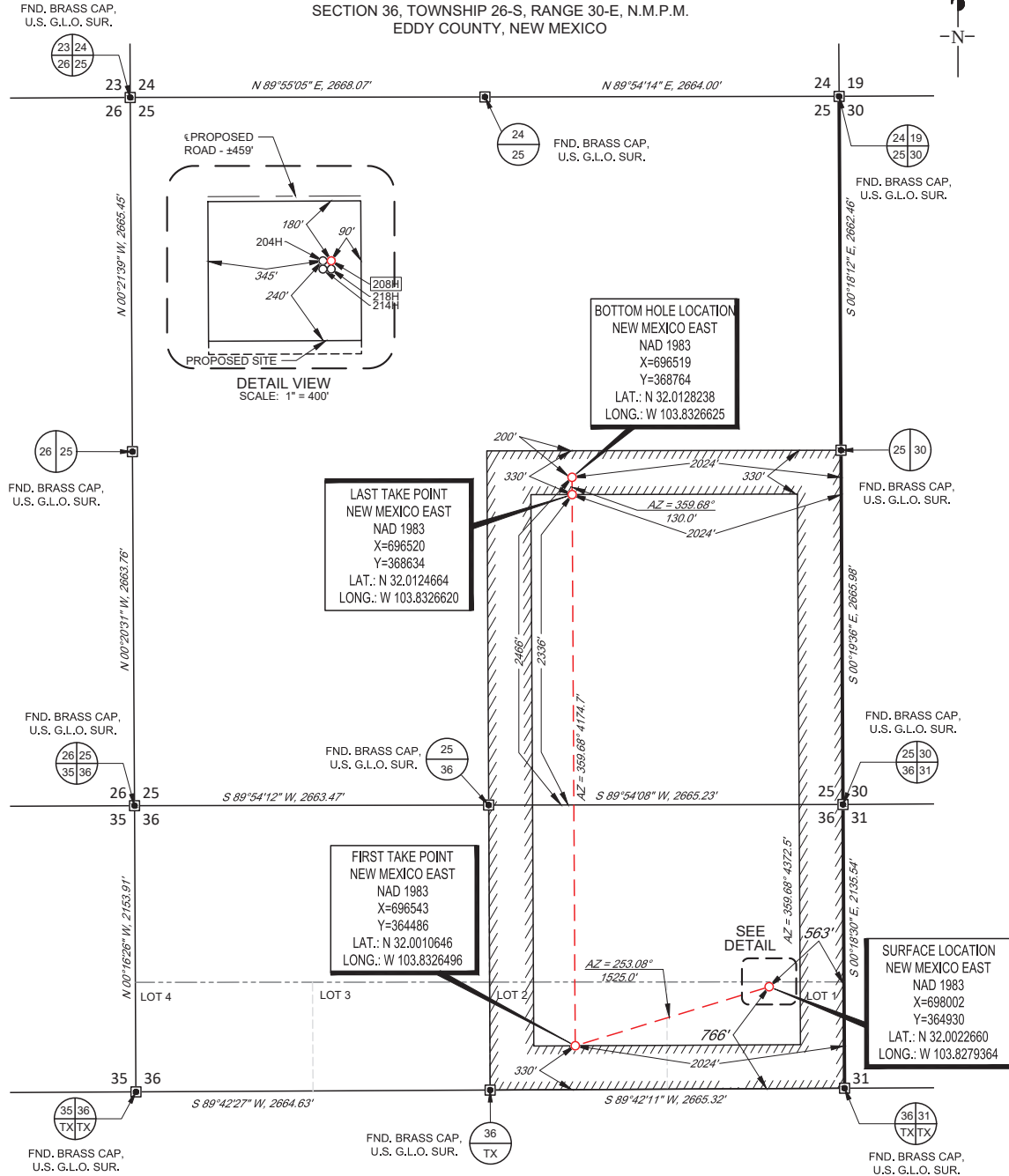
TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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SCALE: 1" = 1000'
0' 500' 1000'

TAP ROCK EXHIBIT 2A

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



LEASE NAME & WELL NO.: _____ NAILED IT FED COM 208H

SECTION 36 TWP 26-S RGE 30-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 766' FSL & 563' 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. ±6.3 MILES, THENCE WEST (RIGHT) ON PROPOSED
RD. ±459 FEET TO A POINT ±401 FEET NORTHWEST OF THE LOCATION.

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 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.



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

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

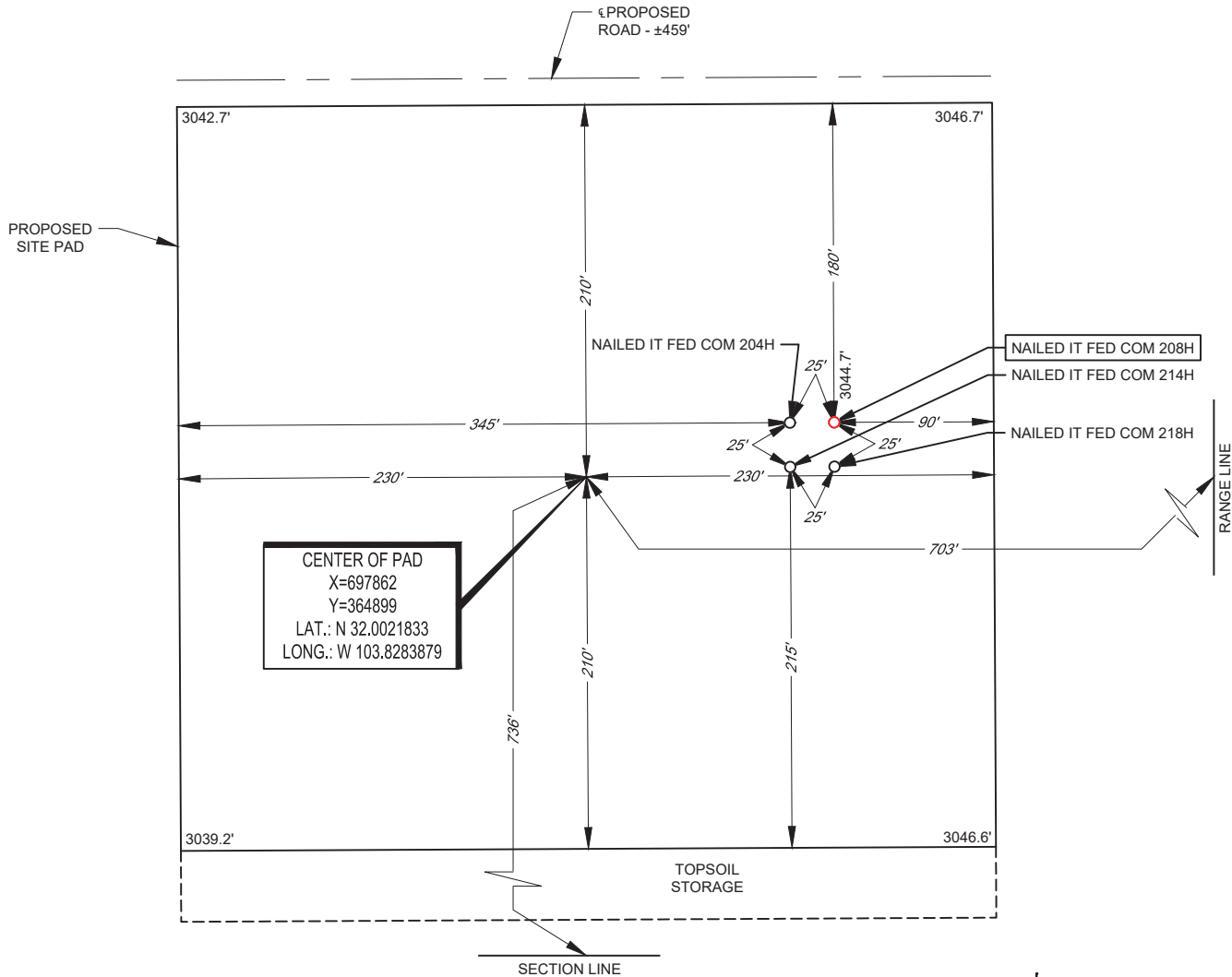
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
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EXHIBIT 2B



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

DETAIL VIEW
SCALE: 1" = 100'



LEASE NAME & WELL NO.: NAILED IT FED COM 208H
208H LATITUDE N 32.0022660 208H LONGITUDE W 103.8279364

CENTER OF PAD IS 736' FSL & 703' FEL

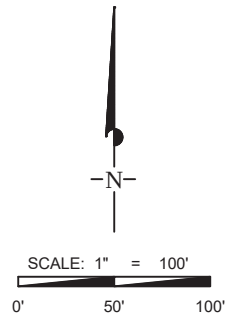


Angel M. Baeza, P.S. No. 25116

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.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



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Drilling Operations Plan
Nailed It Fed Com #208H
Tap Rock Operating, LLC
SHL 766' FSL & 563' FEL, Sec. 36
BHL 2466' FSL & 2024' FEL, Sec. 25
T. 26S., R. 30E Eddy County, NM

Elevation above Sea Level: 3045'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler Anhydrite	865	865		Salt
Salado	1415	1415	Salt	Salt
Base Salt	3460	3475		Salt
Lamar	3665	3686	Limestone	None
Bell Canyon	3685	3707	Sandstone	Hydrocarbons
Cherry Canyon	4875	4933	Sandstone	Hydrocarbons
Brushy Canyon	5830	5917	Sandstone	Hydrocarbons
Bone Spring	7580	7721	Limestone	Hydrocarbons
1st Bone Spring	8525	8695	Sandstone	Hydrocarbons
2nd Bone Spring	8875	9055	Sandstone	Hydrocarbons
3rd Bone Spring	9755	9945	Sandstone	Hydrocarbons
KOP	10560	10750	Sandstone	Hydrocarbons
Wolfcamp	10815	11025	Shale	Hydrocarbons
TD	10983	15492	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:



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After surface casing is set and the BOP is nipped 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.



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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	940	0	940	J-55	54.5	STC	1.13	1.15	1.6
1st Intermediate	12 1/4	9 5/8	API	No	0	3706	0	3685	J-55	40	BTC	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	API	No	0	3406	0	3385	P-110	29.7	BTC	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	NON API	Yes	3406	10650	3385	10460	P-110	29.7	W-513	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	No	0	10450	0	10260	P-110	23	W-563	1.13	1.15	1.6
Production	6 3/4	5	NON API	Yes	10450	11442	10260	10983	P-110	18	W-521	1.13	1.15	1.6
Production	6 3/4	5	NON API	Yes	11442	15492	10983	10983	P-110	18	W-513	1.13	1.15	1.6

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Tail	0	967	1.35	1306	14.8	100%	C	5% NCI + LCM
1st Intermediate	Lead	0	880	1.74	1532	13.5	65%	C	Bentonite + 1% CaCl ₂ + 8% NaCl + LCM
	Tail	2965	278	1.38	383	14.8	65%	C	5% NaCl + LCM
2nd Intermediate	Lead	3406	380	2.23	847	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM
	Tail	9650	100	1.35	136	13.2	35%	H	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	9950	176	1.19	209	15.8	25%	H	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	940	FW Spud Mud	8.30	28	NC
Intermediate	940	3706	Brine Water	10.00	30-32	NC
Intermediate 2	3706	10650	FW/Cut Brine	9.00	30-32	NC
Production	10650	15492	Oil Base Mud	11.50	50-60	<10

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

6. Cores, Tests, & Logs

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



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7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is $\approx 6,568$ 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.

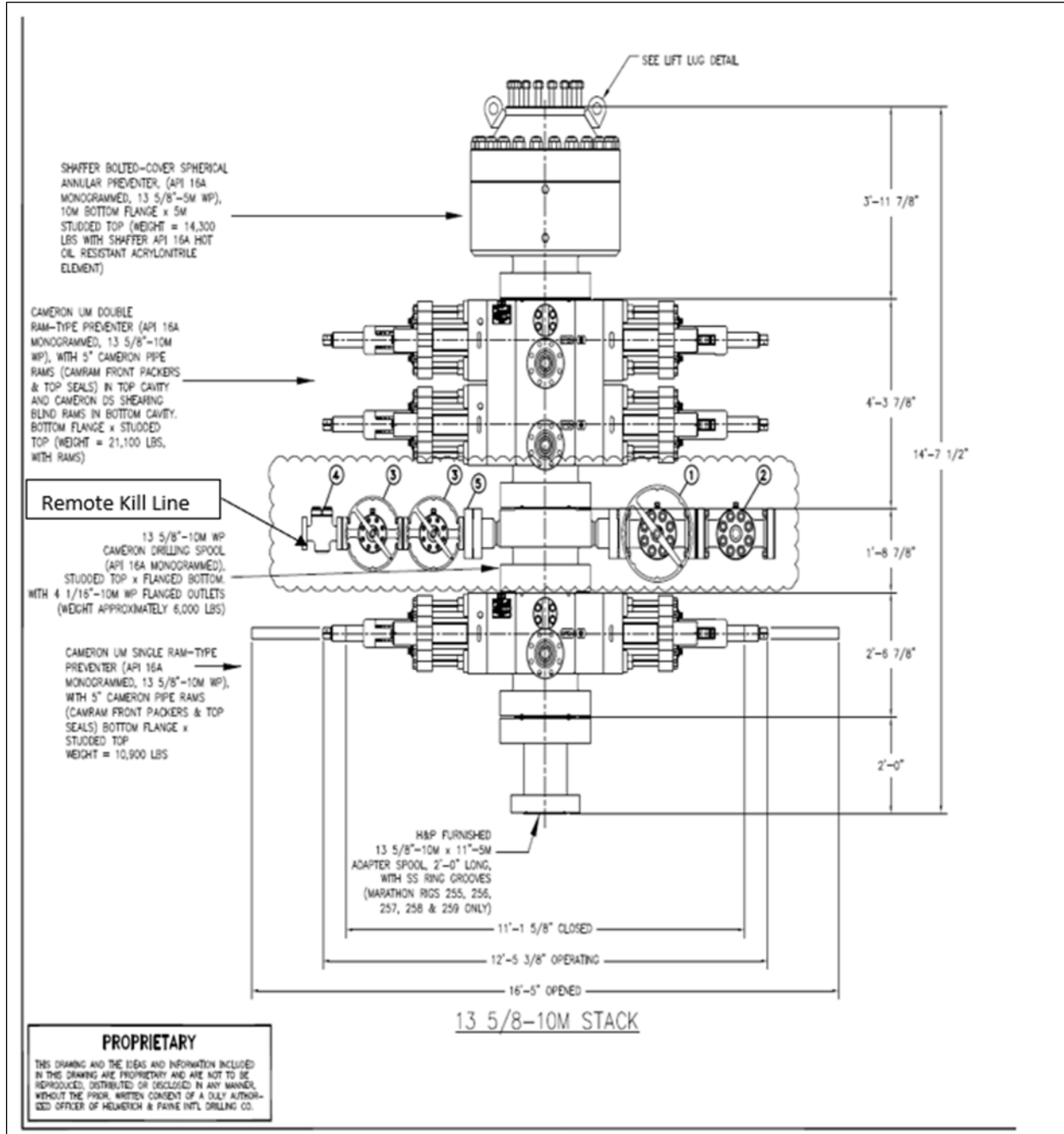
8. Other Information

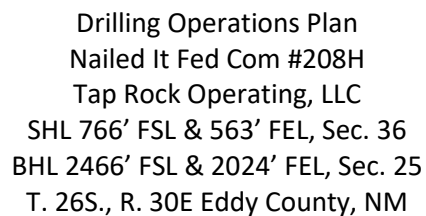
Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.



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5,000 psi BOP Stack

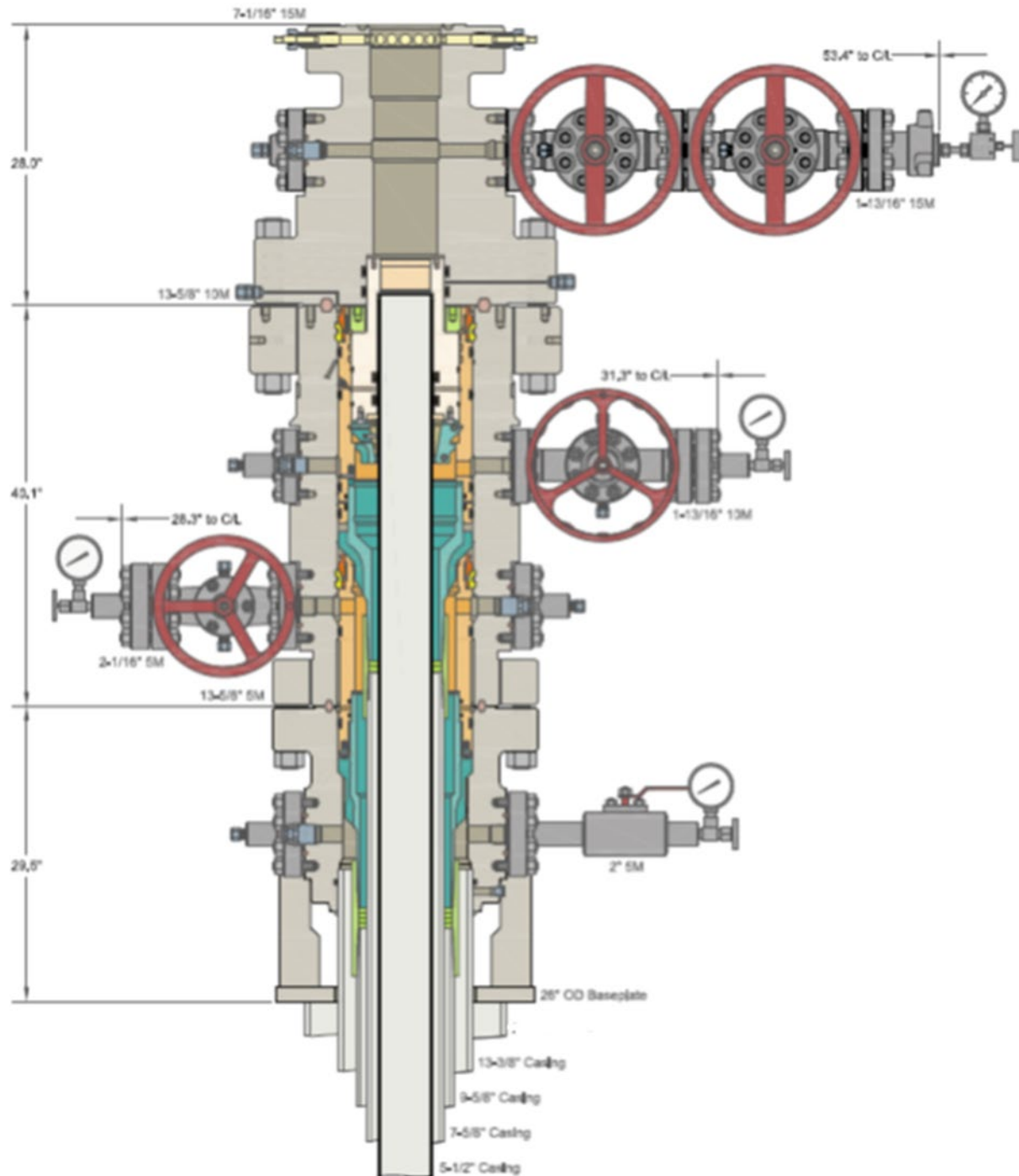






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BHL 2466' FSL & 2024' FEL, Sec. 25
T. 26S., R. 30E Eddy County, NM

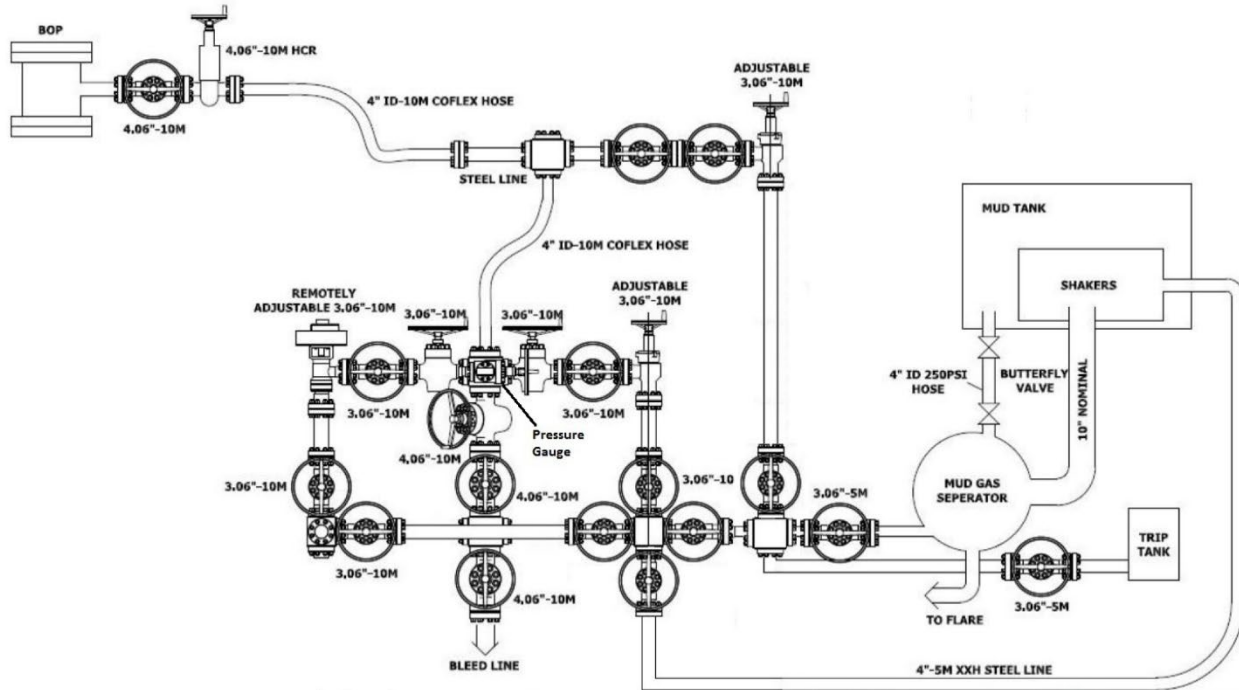
Multi-bowl Wellhead





Drilling Operations Plan
Nailed It Fed Com #208H
Tap Rock Operating, LLC
SHL 766' FSL & 563' FEL, Sec. 36
BHL 2466' FSL & 2024' FEL, Sec. 25
T. 26S., R. 30E Eddy County, NM

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 #208H

OWB

Plan: Plan #2

Standard Planning Report

07 May, 2020



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Nailed It Fed Com #208H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3070.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB @ 3070.0usft
Site:	(Nailed It) Sec-36_T-26-S_R-30-E	North Reference:	Grid
Well:	Nailed It Fed Com #208H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

Project	Eddy County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	(Nailed It) Sec-36_T-26-S_R-30-E		
Site Position:		Northing:	364,471.00 usft
From:	Map	Easting:	693,516.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 3.820 N
		Longitude:	103° 50' 32.687 W
		Grid Convergence:	0.26 °

Well	Nailed It Fed Com #208H		
Well Position	+N/-S	459.0 usft	Northing: 364,930.00 usft
	+E/-W	4,486.0 usft	Easting: 698,002.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 0' 8.157 N
			Longitude: 103° 49' 40.566 W
			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	47,567.38398713

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 (°)
	0.0	0.0	0.0	359.68

Plan Survey Tool Program	Date	05/07/20		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	15,492.3 Plan #2 (OWB)	MWD	
			OWSG MWD - Standard	

Plan Sections										
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	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,199.9	14.00	245.19	3,193.0	-35.7	-77.2	2.00	2.00	0.00	245.19	
9,135.2	14.00	245.19	8,952.0	-638.1	-1,380.5	0.00	0.00	0.00	0.00	
9,835.2	0.00	0.01	9,645.0	-673.8	-1,457.7	2.00	-2.00	0.00	180.00	
10,750.9	0.00	0.01	10,560.7	-673.8	-1,457.7	0.00	0.00	0.00	0.01	
11,392.4	89.82	359.68	10,970.0	-265.9	-1,460.0	14.00	14.00	-0.05	359.68	
15,492.3	89.82	359.68	10,983.0	3,834.0	-1,483.0	0.00	0.00	0.00	0.00	PBHL (Nailed It Fec

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Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB @ 3070.0usft
Site:	(Nailed It) Sec-36_T-26-S_R-30-E	North Reference:	Grid
Well:	Nailed It Fed Com #208H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	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
865.0	0.00	0.00	865.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler Anhydrite									
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,415.0	0.00	0.00	1,415.0	0.0	0.0	0.0	0.00	0.00	0.00
Top Salt									
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
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - Build 2.00									
2,600.0	2.00	245.19	2,600.0	-0.7	-1.6	-0.7	2.00	2.00	0.00
2,700.0	4.00	245.19	2,699.8	-2.9	-6.3	-2.9	2.00	2.00	0.00
2,800.0	6.00	245.19	2,799.5	-6.6	-14.2	-6.5	2.00	2.00	0.00
2,900.0	8.00	245.19	2,898.7	-11.7	-25.3	-11.6	2.00	2.00	0.00
3,000.0	10.00	245.19	2,997.5	-18.3	-39.5	-18.0	2.00	2.00	0.00
3,100.0	12.00	245.19	3,095.6	-26.3	-56.8	-25.9	2.00	2.00	0.00
3,199.9	14.00	245.19	3,193.0	-35.7	-77.2	-35.3	2.00	2.00	0.00
HOLD - 5935.3 at 3199.9 MD									
3,300.0	14.00	245.19	3,290.1	-45.9	-99.2	-45.3	0.00	0.00	0.00
3,400.0	14.00	245.19	3,387.1	-56.0	-121.2	-55.3	0.00	0.00	0.00
3,475.1	14.00	245.19	3,460.0	-63.6	-137.7	-62.9	0.00	0.00	0.00
Base Salt									
3,500.0	14.00	245.19	3,484.1	-66.2	-143.1	-65.4	0.00	0.00	0.00
3,600.0	14.00	245.19	3,581.2	-76.3	-165.1	-75.4	0.00	0.00	0.00
3,681.2	14.00	245.19	3,660.0	-84.5	-182.9	-83.5	0.00	0.00	0.00
Delaware Mountain Gp									
3,686.4	14.00	245.19	3,665.0	-85.1	-184.0	-84.0	0.00	0.00	0.00
Lamar									
3,700.0	14.00	245.19	3,678.2	-86.5	-187.0	-85.4	0.00	0.00	0.00
3,707.0	14.00	245.19	3,685.0	-87.2	-188.6	-86.1	0.00	0.00	0.00
Bell Canyon									
3,748.2	14.00	245.19	3,725.0	-91.3	-197.6	-90.2	0.00	0.00	0.00

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Site:	(Nailed It) Sec-36_T-26-S_R-30-E	North Reference:	Grid
Well:	Nailed It Fed Com #208H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

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)
Ramsey Sand									
3,800.0	14.00	245.19	3,775.2	-96.6	-209.0	-95.4	0.00	0.00	0.00
3,900.0	14.00	245.19	3,872.3	-106.8	-230.9	-105.5	0.00	0.00	0.00
4,000.0	14.00	245.19	3,969.3	-116.9	-252.9	-115.5	0.00	0.00	0.00
4,100.0	14.00	245.19	4,066.3	-127.1	-274.9	-125.5	0.00	0.00	0.00
4,200.0	14.00	245.19	4,163.4	-137.2	-296.8	-135.5	0.00	0.00	0.00
4,300.0	14.00	245.19	4,260.4	-147.3	-318.8	-145.6	0.00	0.00	0.00
4,400.0	14.00	245.19	4,357.4	-157.5	-340.7	-155.6	0.00	0.00	0.00
4,500.0	14.00	245.19	4,454.4	-167.6	-362.7	-165.6	0.00	0.00	0.00
4,600.0	14.00	245.19	4,551.5	-177.8	-384.6	-175.6	0.00	0.00	0.00
4,700.0	14.00	245.19	4,648.5	-187.9	-406.6	-185.7	0.00	0.00	0.00
4,800.0	14.00	245.19	4,745.5	-198.1	-428.6	-195.7	0.00	0.00	0.00
4,900.0	14.00	245.19	4,842.6	-208.2	-450.5	-205.7	0.00	0.00	0.00
4,933.4	14.00	245.19	4,875.0	-211.6	-457.9	-209.1	0.00	0.00	0.00
Cherry Canyon									
5,000.0	14.00	245.19	4,939.6	-218.4	-472.5	-215.8	0.00	0.00	0.00
5,100.0	14.00	245.19	5,036.6	-228.5	-494.4	-225.8	0.00	0.00	0.00
5,200.0	14.00	245.19	5,133.7	-238.7	-516.4	-235.8	0.00	0.00	0.00
5,300.0	14.00	245.19	5,230.7	-248.8	-538.4	-245.8	0.00	0.00	0.00
5,400.0	14.00	245.19	5,327.7	-259.0	-560.3	-255.9	0.00	0.00	0.00
5,500.0	14.00	245.19	5,424.7	-269.1	-582.3	-265.9	0.00	0.00	0.00
5,600.0	14.00	245.19	5,521.8	-279.3	-604.2	-275.9	0.00	0.00	0.00
5,700.0	14.00	245.19	5,618.8	-289.4	-626.2	-285.9	0.00	0.00	0.00
5,800.0	14.00	245.19	5,715.8	-299.6	-648.1	-296.0	0.00	0.00	0.00
5,900.0	14.00	245.19	5,812.9	-309.7	-670.1	-306.0	0.00	0.00	0.00
5,917.7	14.00	245.19	5,830.0	-311.5	-674.0	-307.8	0.00	0.00	0.00
Brushy Canyon									
6,000.0	14.00	245.19	5,909.9	-319.9	-692.1	-316.0	0.00	0.00	0.00
6,100.0	14.00	245.19	6,006.9	-330.0	-714.0	-326.0	0.00	0.00	0.00
6,200.0	14.00	245.19	6,104.0	-340.2	-736.0	-336.1	0.00	0.00	0.00
6,300.0	14.00	245.19	6,201.0	-350.3	-757.9	-346.1	0.00	0.00	0.00
6,400.0	14.00	245.19	6,298.0	-360.5	-779.9	-356.1	0.00	0.00	0.00
6,500.0	14.00	245.19	6,395.1	-370.6	-801.8	-366.2	0.00	0.00	0.00
6,600.0	14.00	245.19	6,492.1	-380.8	-823.8	-376.2	0.00	0.00	0.00
6,700.0	14.00	245.19	6,589.1	-390.9	-845.8	-386.2	0.00	0.00	0.00
6,800.0	14.00	245.19	6,686.1	-401.1	-867.7	-396.2	0.00	0.00	0.00
6,900.0	14.00	245.19	6,783.2	-411.2	-889.7	-406.3	0.00	0.00	0.00
7,000.0	14.00	245.19	6,880.2	-421.4	-911.6	-416.3	0.00	0.00	0.00
7,100.0	14.00	245.19	6,977.2	-431.5	-933.6	-426.3	0.00	0.00	0.00
7,200.0	14.00	245.19	7,074.3	-441.7	-955.5	-436.3	0.00	0.00	0.00
7,300.0	14.00	245.19	7,171.3	-451.8	-977.5	-446.4	0.00	0.00	0.00
7,400.0	14.00	245.19	7,268.3	-462.0	-999.5	-456.4	0.00	0.00	0.00
7,500.0	14.00	245.19	7,365.4	-472.1	-1,021.4	-466.4	0.00	0.00	0.00
7,600.0	14.00	245.19	7,462.4	-482.3	-1,043.4	-476.4	0.00	0.00	0.00
7,700.0	14.00	245.19	7,559.4	-492.4	-1,065.3	-486.5	0.00	0.00	0.00
7,721.2	14.00	245.19	7,580.0	-494.6	-1,070.0	-488.6	0.00	0.00	0.00
Bone Spring Lime									
7,800.0	14.00	245.19	7,656.4	-502.6	-1,087.3	-496.5	0.00	0.00	0.00
7,839.7	14.00	245.19	7,695.0	-506.6	-1,096.0	-500.5	0.00	0.00	0.00
Upper Avalon									
7,900.0	14.00	245.19	7,753.5	-512.7	-1,109.2	-506.5	0.00	0.00	0.00
8,000.0	14.00	245.19	7,850.5	-522.9	-1,131.2	-516.6	0.00	0.00	0.00
8,100.0	14.00	245.19	7,947.5	-533.0	-1,153.2	-526.6	0.00	0.00	0.00

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Wellbore:	OWB		
Design:	Plan #2		

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)
8,200.0	14.00	245.19	8,044.6	-543.2	-1,175.1	-536.6	0.00	0.00	0.00
8,241.7	14.00	245.19	8,085.0	-547.4	-1,184.3	-540.8	0.00	0.00	0.00
Middle Avalon									
8,300.0	14.00	245.19	8,141.6	-553.3	-1,197.1	-546.6	0.00	0.00	0.00
8,400.0	14.00	245.19	8,238.6	-563.5	-1,219.0	-556.7	0.00	0.00	0.00
8,468.4	14.00	245.19	8,305.0	-570.4	-1,234.1	-563.5	0.00	0.00	0.00
Lower Avalon									
8,500.0	14.00	245.19	8,335.7	-573.6	-1,241.0	-566.7	0.00	0.00	0.00
8,600.0	14.00	245.19	8,432.7	-583.8	-1,262.9	-576.7	0.00	0.00	0.00
8,695.1	14.00	245.19	8,525.0	-593.4	-1,283.8	-586.3	0.00	0.00	0.00
1st Bone Spring Sand									
8,700.0	14.00	245.19	8,529.7	-593.9	-1,284.9	-586.7	0.00	0.00	0.00
8,800.0	14.00	245.19	8,626.7	-604.1	-1,306.9	-596.8	0.00	0.00	0.00
8,900.0	14.00	245.19	8,723.8	-614.2	-1,328.8	-606.8	0.00	0.00	0.00
9,000.0	14.00	245.19	8,820.8	-624.4	-1,350.8	-616.8	0.00	0.00	0.00
9,055.9	14.00	245.19	8,875.0	-630.0	-1,363.0	-622.4	0.00	0.00	0.00
2nd Bone Spring Carb									
9,100.0	14.00	245.19	8,917.8	-634.5	-1,372.7	-626.9	0.00	0.00	0.00
9,135.2	14.00	245.19	8,952.0	-638.1	-1,380.5	-630.4	0.00	0.00	0.00
DROP - -2.00									
9,200.0	12.70	245.19	9,015.0	-644.4	-1,394.0	-636.6	2.00	-2.00	0.00
9,300.0	10.70	245.19	9,113.0	-652.9	-1,412.5	-645.0	2.00	-2.00	0.00
9,347.8	9.75	245.19	9,160.0	-656.4	-1,420.2	-648.5	2.00	-2.00	0.00
2nd Bone Spring Sand									
9,400.0	8.70	245.19	9,211.5	-660.0	-1,427.8	-652.0	2.00	-2.00	0.00
9,500.0	6.70	245.19	9,310.6	-665.6	-1,439.9	-657.5	2.00	-2.00	0.00
9,600.0	4.70	245.19	9,410.1	-669.8	-1,448.9	-661.6	2.00	-2.00	0.00
9,700.0	2.70	245.19	9,509.9	-672.5	-1,454.8	-664.3	2.00	-2.00	0.00
9,800.0	0.70	245.19	9,609.8	-673.7	-1,457.5	-665.6	2.00	-2.00	0.00
9,835.2	0.00	0.01	9,645.0	-673.8	-1,457.7	-665.6	2.00	-2.00	0.00
HOLD - 915.7 at 9835.2 MD									
9,900.0	0.00	0.00	9,709.8	-673.8	-1,457.7	-665.6	0.00	0.00	0.00
9,945.2	0.00	0.00	9,755.0	-673.8	-1,457.7	-665.6	0.00	0.00	0.00
3rd Bone Spring Carb									
10,000.0	0.00	0.00	9,809.8	-673.8	-1,457.7	-665.6	0.00	0.00	0.00
10,100.0	0.00	0.00	9,909.8	-673.8	-1,457.7	-665.6	0.00	0.00	0.00
10,200.0	0.00	0.00	10,009.8	-673.8	-1,457.7	-665.6	0.00	0.00	0.00
10,300.0	0.00	0.00	10,109.8	-673.8	-1,457.7	-665.6	0.00	0.00	0.00
10,400.0	0.00	0.00	10,209.8	-673.8	-1,457.7	-665.6	0.00	0.00	0.00
10,500.0	0.00	0.00	10,309.8	-673.8	-1,457.7	-665.6	0.00	0.00	0.00
10,600.0	0.00	0.00	10,409.8	-673.8	-1,457.7	-665.6	0.00	0.00	0.00
10,615.2	0.00	0.00	10,425.0	-673.8	-1,457.7	-665.6	0.00	0.00	0.00
3rd Bone Spring Sand									
10,700.0	0.00	0.00	10,509.8	-673.8	-1,457.7	-665.6	0.00	0.00	0.00
10,750.9	0.00	0.00	10,560.7	-673.8	-1,457.7	-665.6	0.00	0.00	0.00
KOP - DLS 14.00 TFO 359.68									
10,775.0	3.38	359.68	10,584.8	-673.1	-1,457.7	-664.9	14.00	14.00	0.00
10,800.0	6.88	359.68	10,609.7	-670.9	-1,457.7	-662.7	14.00	14.00	0.00
10,825.0	10.38	359.68	10,634.4	-667.1	-1,457.7	-658.9	14.00	14.00	0.00
10,850.0	13.88	359.68	10,658.9	-661.8	-1,457.8	-653.7	14.00	14.00	0.00
10,875.0	17.38	359.68	10,683.0	-655.1	-1,457.8	-647.0	14.00	14.00	0.00
10,900.0	20.88	359.68	10,706.6	-646.9	-1,457.9	-638.8	14.00	14.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Nailed It Fed Com #208H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3070.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB @ 3070.0usft
Site:	(Nailed It) Sec-36_T-26-S_R-30-E	North Reference:	Grid
Well:	Nailed It Fed Com #208H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

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)	
10,919.9	23.67	359.68	10,725.0	-639.4	-1,457.9	-631.2	14.00	14.00	0.00	
3rd BS W Sand										
10,925.0	24.38	359.68	10,729.6	-637.3	-1,457.9	-629.2	14.00	14.00	0.00	
10,950.0	27.88	359.68	10,752.1	-626.3	-1,458.0	-618.1	14.00	14.00	0.00	
10,975.0	31.38	359.68	10,773.8	-613.9	-1,458.0	-605.8	14.00	14.00	0.00	
11,000.0	34.88	359.68	10,794.7	-600.3	-1,458.1	-592.1	14.00	14.00	0.00	
11,025.0	38.38	359.68	10,814.8	-585.4	-1,458.2	-577.2	14.00	14.00	0.00	
11,025.3	38.42	359.68	10,815.0	-585.2	-1,458.2	-577.1	14.00	14.00	0.00	
Wolfcamp A X Sand										
11,050.0	41.88	359.68	10,833.9	-569.3	-1,458.3	-561.1	14.00	14.00	0.00	
11,075.0	45.38	359.68	10,852.0	-552.0	-1,458.4	-543.9	14.00	14.00	0.00	
11,100.0	48.88	359.68	10,869.0	-533.7	-1,458.5	-525.5	14.00	14.00	0.00	
11,125.0	52.38	359.68	10,884.9	-514.4	-1,458.6	-506.2	14.00	14.00	0.00	
11,150.0	55.88	359.68	10,899.5	-494.1	-1,458.7	-486.0	14.00	14.00	0.00	
11,160.0	57.28	359.68	10,905.0	-485.8	-1,458.8	-477.6	14.00	14.00	0.00	
Wolfcamp A Y Sand										
11,175.0	59.38	359.68	10,912.9	-473.0	-1,458.8	-464.8	14.00	14.00	0.00	
11,200.0	62.88	359.68	10,925.0	-451.1	-1,458.9	-443.0	14.00	14.00	0.00	
11,225.0	66.38	359.68	10,935.7	-428.5	-1,459.1	-420.4	14.00	14.00	0.00	
11,250.0	69.88	359.68	10,945.0	-405.3	-1,459.2	-397.2	14.00	14.00	0.00	
11,275.0	73.38	359.68	10,952.9	-381.6	-1,459.3	-373.4	14.00	14.00	0.00	
11,300.0	76.88	359.68	10,959.3	-357.4	-1,459.5	-349.3	14.00	14.00	0.00	
11,325.0	80.38	359.68	10,964.2	-332.9	-1,459.6	-324.8	14.00	14.00	0.00	
11,350.0	83.88	359.68	10,967.6	-308.2	-1,459.8	-300.0	14.00	14.00	0.00	
11,375.0	87.38	359.68	10,969.5	-283.3	-1,459.9	-275.1	14.00	14.00	0.00	
11,392.4	89.82	359.68	10,970.0	-265.9	-1,460.0	-257.7	14.00	14.00	0.00	
EOC - 4099.9 hold at 11392.4 MD										
11,400.0	89.82	359.68	10,970.0	-258.3	-1,460.0	-250.1	0.00	0.00	0.00	
11,500.0	89.82	359.68	10,970.3	-158.3	-1,460.6	-150.1	0.00	0.00	0.00	
11,600.0	89.82	359.68	10,970.6	-58.3	-1,461.2	-50.1	0.00	0.00	0.00	
11,700.0	89.82	359.68	10,970.9	41.7	-1,461.7	49.9	0.00	0.00	0.00	
11,800.0	89.82	359.68	10,971.3	141.7	-1,462.3	149.9	0.00	0.00	0.00	
11,900.0	89.82	359.68	10,971.6	241.7	-1,462.8	249.9	0.00	0.00	0.00	
12,000.0	89.82	359.68	10,971.9	341.7	-1,463.4	349.9	0.00	0.00	0.00	
12,100.0	89.82	359.68	10,972.2	441.7	-1,464.0	449.9	0.00	0.00	0.00	
12,200.0	89.82	359.68	10,972.5	541.7	-1,464.5	549.9	0.00	0.00	0.00	
12,300.0	89.82	359.68	10,972.8	641.7	-1,465.1	649.9	0.00	0.00	0.00	
12,400.0	89.82	359.68	10,973.2	741.7	-1,465.6	749.9	0.00	0.00	0.00	
12,500.0	89.82	359.68	10,973.5	841.7	-1,466.2	849.9	0.00	0.00	0.00	
12,600.0	89.82	359.68	10,973.8	941.7	-1,466.8	949.9	0.00	0.00	0.00	
12,700.0	89.82	359.68	10,974.1	1,041.7	-1,467.3	1,049.9	0.00	0.00	0.00	
12,800.0	89.82	359.68	10,974.4	1,141.7	-1,467.9	1,149.9	0.00	0.00	0.00	
12,900.0	89.82	359.68	10,974.8	1,241.7	-1,468.5	1,249.9	0.00	0.00	0.00	
13,000.0	89.82	359.68	10,975.1	1,341.7	-1,469.0	1,349.9	0.00	0.00	0.00	
13,100.0	89.82	359.68	10,975.4	1,441.7	-1,469.6	1,449.9	0.00	0.00	0.00	
13,200.0	89.82	359.68	10,975.7	1,541.7	-1,470.1	1,549.9	0.00	0.00	0.00	
13,300.0	89.82	359.68	10,976.0	1,641.7	-1,470.7	1,649.9	0.00	0.00	0.00	
13,400.0	89.82	359.68	10,976.3	1,741.7	-1,471.3	1,749.9	0.00	0.00	0.00	
13,500.0	89.82	359.68	10,976.7	1,841.7	-1,471.8	1,849.9	0.00	0.00	0.00	
13,600.0	89.82	359.68	10,977.0	1,941.7	-1,472.4	1,949.9	0.00	0.00	0.00	
13,700.0	89.82	359.68	10,977.3	2,041.7	-1,472.9	2,049.9	0.00	0.00	0.00	
13,800.0	89.82	359.68	10,977.6	2,141.7	-1,473.5	2,149.9	0.00	0.00	0.00	
13,900.0	89.82	359.68	10,977.9	2,241.7	-1,474.1	2,249.9	0.00	0.00	0.00	
14,000.0	89.82	359.68	10,978.3	2,341.7	-1,474.6	2,349.9	0.00	0.00	0.00	

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Nailed It Fed Com #208H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3070.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB @ 3070.0usft
Site:	(Nailed It) Sec-36_T-26-S_R-30-E	North Reference:	Grid
Well:	Nailed It Fed Com #208H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

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)
14,100.0	89.82	359.68	10,978.6	2,441.7	-1,475.2	2,449.9	0.00	0.00	0.00
14,200.0	89.82	359.68	10,978.9	2,541.7	-1,475.7	2,549.9	0.00	0.00	0.00
14,300.0	89.82	359.68	10,979.2	2,641.7	-1,476.3	2,649.9	0.00	0.00	0.00
14,400.0	89.82	359.68	10,979.5	2,741.7	-1,476.9	2,749.9	0.00	0.00	0.00
14,500.0	89.82	359.68	10,979.8	2,841.7	-1,477.4	2,849.9	0.00	0.00	0.00
14,600.0	89.82	359.68	10,980.2	2,941.7	-1,478.0	2,949.9	0.00	0.00	0.00
14,700.0	89.82	359.68	10,980.5	3,041.7	-1,478.6	3,049.9	0.00	0.00	0.00
14,800.0	89.82	359.68	10,980.8	3,141.7	-1,479.1	3,149.9	0.00	0.00	0.00
14,900.0	89.82	359.68	10,981.1	3,241.7	-1,479.7	3,249.9	0.00	0.00	0.00
15,000.0	89.82	359.68	10,981.4	3,341.7	-1,480.2	3,349.9	0.00	0.00	0.00
15,100.0	89.82	359.68	10,981.8	3,441.7	-1,480.8	3,449.9	0.00	0.00	0.00
15,200.0	89.82	359.68	10,982.1	3,541.7	-1,481.4	3,549.9	0.00	0.00	0.00
15,300.0	89.82	359.68	10,982.4	3,641.7	-1,481.9	3,649.9	0.00	0.00	0.00
15,400.0	89.82	359.68	10,982.7	3,741.7	-1,482.5	3,749.9	0.00	0.00	0.00
15,492.3	89.82	359.68	10,983.0	3,834.0	-1,483.0	3,842.2	0.00	0.00	0.00
TD at 15492.3									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP (Nailed It Fed Co	0.00	0.00	10,970.0	-444.0	-1,459.0	364,486.00	696,543.00	32° 0' 3.831 N	103° 49' 57.533 W
- plan misses target center by 37.7usft at 11225.0usft MD (10935.7 TVD, -428.5 N, -1459.1 E)									
- Point									
PBHL (Nailed It Fed C	0.18	359.68	10,983.0	3,834.0	-1,483.0	368,764.00	696,519.00	32° 0' 46.167 N	103° 49' 57.582 W
- plan hits target center									
- Rectangle (sides W100.0 H4,275.0 D40.0)									
LTP (Nailed It Fed Co	0.00	0.00	10,983.0	3,704.0	-1,482.0	368,634.00	696,520.00	32° 0' 44.881 N	103° 49' 57.577 W
- plan misses target center by 0.5usft at 15362.3usft MD (10982.6 TVD, 3704.0 N, -1482.3 E)									
- Point									

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Nailed It Fed Com #208H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3070.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB @ 3070.0usft
Site:	(Nailed It) Sec-36_T-26-S_R-30-E	North Reference:	Grid
Well:	Nailed It Fed Com #208H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
865.0	865.0	Rustler Anhydrite			
1,415.0	1,415.0	Top Salt			
3,475.1	3,460.0	Base Salt			
3,681.2	3,660.0	Delaware Mountain Gp			
3,686.4	3,665.0	Lamar			
3,707.0	3,685.0	Bell Canyon			
3,748.2	3,725.0	Ramsey Sand			
4,933.4	4,875.0	Cherry Canyon			
5,917.7	5,830.0	Brushy Canyon			
7,721.2	7,580.0	Bone Spring Lime			
7,839.7	7,695.0	Upper Avalon			
8,241.7	8,085.0	Middle Avalon			
8,468.4	8,305.0	Lower Avalon			
8,695.1	8,525.0	1st Bone Spring Sand			
9,055.9	8,875.0	2nd Bone Spring Carb			
9,347.8	9,160.0	2nd Bone Spring Sand			
9,945.2	9,755.0	3rd Bone Spring Carb			
10,615.2	10,425.0	3rd Bone Spring Sand			
10,919.9	10,725.0	3rd BS W Sand			
11,025.3	10,815.0	Wolfcamp A X Sand			
11,160.0	10,905.0	Wolfcamp A Y Sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,500.0	2,500.0	0.0	0.0	NUDGE - Build 2.00
3,199.9	3,193.0	-35.7	-77.2	HOLD - 5935.3 at 3199.9 MD
9,135.2	8,952.0	-638.1	-1,380.5	DROP - -2.00
9,835.2	9,645.0	-673.8	-1,457.7	HOLD - 915.7 at 9835.2 MD
10,750.9	10,560.7	-673.8	-1,457.7	KOP - DLS 14.00 TFO 359.68
11,392.4	10,970.0	-265.9	-1,460.0	EOC - 4099.9 hold at 11392.4 MD
15,492.3	10,983.0	3,834.0	-1,483.0	TD at 15492.3

Wedge 563®
Dopeless®

Printed on: 28/04/2020

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

PIPE BODY DATA					
Geometry					
Nominal OD	5.500 in.	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 Tolerance	API				
Performance					
Body Yield Strength	729 x1000 lbs	Internal Yield	14530 psi	SMYS	110000 psi
Collapse	16220 psi				
CONNECTION DATA					
Geometry					
Connection OD	6.050 in.	Coupling Length	9.25 in.	Connection ID	4.670 in.
Make-up Loss	3.990 in.	Threads per in	3.36	Connection OD Option	REGULAR
Performance					
Tension Efficiency	100.0 %	Joint Yield Strength	729.000 x1000 lbs	Internal Pressure Capacity	14530.000 psi
Compression Efficiency	100.0 %	Compression Strength	729.000 x1000 lbs	Max. Allowable Bending	92 °/100 ft
External Pressure Capacity	16220.000 psi	Coupling Face Load	205000 lbs		
Make-Up Torques					
Minimum	9200 ft-lbs	Optimum	11000 ft-lbs	Maximum	16100 ft-lbs
Operation Limit Torques					
Operating Torque	20000 ft-lbs	Yield Torque	24000 ft-lbs		
Buck-On					
Minimum	15600 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 521®
Dopeless®

Printed on: 28/04/2020

		Min. Wall Thickness	87.5%	(*)GradeP110-ICY	
Outside Diameter	5.000 in.	Connection OD Option	REGULAR	Coupling	Pipe Body
Wall Thickness	0.362 in.	Drift	API Standard	Body: White	1st Band: White
Grade	P110-ICY*	Type	Casing	1st Band: Pale Green	2nd Band: Pale 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				
CONNECTION 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 Torques					
Minimum	7300 ft-lbs	Optimum	8800 ft-lbs	Maximum	12800 ft-lbs
Operation Limit 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

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 Thickness	87.5%	(*)GradeP110-ICY	
Outside Diameter	5.000 in.	Connection OD Option	REGULAR	Coupling	Pipe Body
Wall Thickness	0.362 in.	Drift	API Standard	Body: White	1st Band: White
Grade	P110-ICY*	Type	Casing	1st Band: Pale Green	2nd Band: Pale 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				

CONNECTION 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 Torques

Minimum	6500 ft-lbs	Optimum	7800 ft-lbs	Maximum	11400 ft-lbs
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Operation Limit Torques

Operating Torque	22000 ft-lbs	Yield Torque	33000 ft-lbs		
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Notes

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