

Well Name: TALCO STATE FED COM	Well Location: T26S / R35E / SEC 16 / NWNW /	County or Parish/State:
Well Number: 221H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0448921A	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002548611	Well Status: Approved Application for Permit to Drill	Operator: TAP ROCK OPERATING LLC

Notice of Intent

Type of Submission: Notice of Intent	Type of Action Other
Date Sundry Submitted: 04/12/2021	Time Sundry Submitted: 05:10
Date proposed operation will begin: 04/12/2021	

Procedure Description: Tap Rock would like to alter the casing plan for the Talco State Fed Com 221H. Tap Rock is requesting permission to: • run one of the two options listed in the attached casing table - A three or four string design. • alter the second intermediate string from 7.625 inch 29.7 lb P-110 W-513 to 7.625 inch 29.7 P-110 W-441 casing. This casing will be run to 12437 ft MD. Casing spec has been attached. • alter the production casing string from 5.5 inch 20 lb P-110 TXP by 5.5 inch 18 lb P-110 W-521 to 5.5 inch 20 lb P-110 TXP by 5.5 inch 20 lb P-110 W-441 casing. This casing will be run from approximately 12237 ft to 23403 ft MD. Casing spec has been attached. • have the option of running a DV tool during cementing operations. If no DV tool is ran, we would like to cement the intermediate section in a single stage.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Talco_State_Fed_Com_221H_Sundry_casing_Table_20210412_20210412170925.pdf
- 5.5_20_P110_IC_W441_20210412170925.pdf
- 7.625_29.7_P110ICY_W441_20210311154211_20210412170925.pdf

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Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: BILL RAMSEY **Signed on:** APR 12, 2021 05:09 PM

Name: TAP ROCK OPERATING LLC

Title: Regulatory Analyst

Street Address: 523 PARK POINT DRIVE SUITE 200

City: GOLDEN **State:** CO

Phone: (720) 360-4028

Email address: BRAMSEY@TAPRK.COM

Field Representative

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS **BLM POC Title:** Petroleum Engineer

BLM POC Phone: 5752342234 **BLM POC Email Address:** cwalls@blm.gov

Disposition: Approved **Disposition Date:** 05/10/2021

Signature: Chris Walls

TALCO 221H

Section	Hole Size	Casing Size	Standard	Tapered	Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17.5	13.375	API	No	0	1100	0	1100	J-55	54.5	BUTT	1.13	1.15	1.6
1st Intermediate	12.25	9.625	API	No	0	5402	0	5390	J-55	40	BUTT	1.13	1.15	1.6
2nd Intermediate	8.75	7.625	API	No	0	5102	0	5090	P-110	29.7	BUTT	1.13	1.15	1.6
2nd Intermediate	8.75	7.625	NON API	Yes	5102	12437	5090	12412	P-110	29.7	W441	1.13	1.15	1.6
Production	6.75	5.5	NON API	No	0	12237	0	12212	P-110	20	TXP	1.13	1.15	1.6
Production	6.75	5.5	NON API	No	12237	23403	12212	13075	P-110	20	W441	1.13	1.15	1.6

Section	Drilled Interval			Casing Size	Standard	Tapered	Casing Set Depths				Casing Details					
	Hole Size	Top	Btm				Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17.5	0	1110	13.375	API	No	0	1100	0	1100	J-55	54.5	BUTT	1.13	1.15	1.6
Intermediate	9.875	1110	9500	7.625	API	No	0	9200	0	9179	P-110	29.7	BUTT	1.13	1.15	1.6
	8.75	9500	12447	7.625	NON API	Yes	9200	12437	9179	12412	P-110	29.7	W441	1.13	1.15	1.6
Production	6.75	12447	23403	5.5	NON API	No	0	12237	0	12212	P-110	20	TXP	1.13	1.15	1.6
Production	6.75			5.5	NON API	No	12237	23403	12212	13075	P-110	20	W441	1.13	1.15	1.6

***OPTION TO RUN 3 STRING OR 4 STRING DESIGN**

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Lead	0	543	1.65	896	13.5	100%	C	5% NCI + LCM
	Tail	641	361	1.35	487	14.8	100%	C	5% NCI + LCM
1st Intermediate	Lead	0	1024	2.18	2233	12.7	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	4322	420	1.33	558	14.8	65%	C	5% NaCl + LCM
2nd Intermediate	Lead	5102	298	2.87	856	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM
	Tail	11412	87	1.56	136	13.2	35%	H	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	11912	701	1.71	1200	14.2	25%	H	Fluid Loss + Dispersant + Retarder + LCM

Name		Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface		Lead	0	543	1.65	896	13.5	100%	C	5% NCI + LCM
		Tail	641	361	1.35	487	14.8	100%	C	5% NCI + LCM
Intermediate	Stage 1	Lead	0	1535	2.4	3684	11.5	65%	C	Fluid Loss + Dispersant + Retarder + LCM
		Tail	11412	106	1.56	166	13.2	65%	C	Fluid Loss + Dispersant + Retarder + LCM
	Stage 2	Primary	0	784	2.4	1882	11.5	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
		DVT	5325							
Production		Primary	11912	701	1.71	1200	14.2	25%	H	Fluid Loss + Dispersant + Retarder + LCM

***OPTION TO RUN DV TOOL IF NECESSARY**

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	1100	FW Spud Mud	8.30	28	NC
Intermediate	1100	5402	Brine Water	10.00	30-32	NC
Intermediate 2	5402	12412	FW/Cut Brine	9.00	30-32	NC
Production	12412	23403	Oil Base Mud	11.50	50-70	<10

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	1100	FW Gel	8.30	28	NC
Intermediate	1100	12422	DBE/Cut Brine	9.00	30-32	NC
Production	12422	23403	Oil Base Mud	11.50	55-75	<10



Data Sheet

TH DS-20.0313 28 July 2020

Rev 01

7.625" 29.70 lb/ft P110-ICY TenarisHydril Wedge 441™



PIPE BODY DATA					
GEOMETRY					
Nominal OD	7.625 in.	Nominal Weight	29.70 lbs/ft	Standard Drift Diameter	6.750 in.
Nominal ID	6.875 in.	Wall Thickness	0.375 in.	Special Drift Diameter	N/A
Plain End Weight	29.06 lbs/ft				
PERFORMANCE					
Body Yield Strength	1068 x 1000 lbs	Internal Yield ¹	11070 psi	Collapse	7360 psi

CONNECTION DATA					
GEOMETRY					
Connection OD	7.900 in.	Connection ID	6.875 in.	Make-up Loss	3.750 in.
Coupling Length	8.666 in.	Threads per in.	3.43		
PERFORMANCE					
Tension Efficiency	75%	Joint Yield Strength	801 x 1000 lbs	Internal Yield ¹	11070 psi
Compression Efficiency	75%	Compression Strength	801 x 1000 lbs	Collapse	7360 psi
Bending	56 °/100 ft				
MAKE-UP TORQUES					
Minimum	22000 ft-lbs	Optimum	23000 ft-lbs	Maximum	26000 ft-lbs
BUCK-ON TORQUES					
Minimum	26000 ft-lbs			Maximum	28000 ft-lbs
OPERATIONAL LIMIT TORQUES					
Operating Torque	41600 ft-lbs			Yield Torque	49000 ft-lbs

*If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative

1. Internal Yield Rating is based on 90% RBW

Important Note: In October 2019, TenarisHydril Wedge XP® 2.0 SL™ was renamed TenarisHydril Wedge 441™. Product dimensions and properties remain identical and both connections are fully interchangeable.



Data Sheet

TH DS-19.0478 23 October 2019
Rev 01

5.500" 20.00 lb/ft P110-IC TenarisHydril Wedge 441™



PIPE BODY DATA					
GEOMETRY					
Nominal OD	5.500 in.	Nominal Weight	20.00 lbs/ft	Standard Drift Diameter	4.653 in.
Nominal ID	4.778 in.	Wall Thickness	0.361 in.	Special Drift Diameter	N/A
Plain End Weight	19.83 lbs/ft				
PERFORMANCE					
Body Yield Strength	641 x 1000 lbs	Internal Yield	12640 psi	Collapse	12100 psi

CONNECTION DATA					
GEOMETRY					
Connection OD	5.852 in.	Connection ID	4.778 in.	Make-up Loss	3.780 in.
Coupling Length	8.214 in.	Threads per in.	3.40		
PERFORMANCE					
Tension Efficiency	81.5%	Joint Yield Strength	522 x 1000 lbs	Internal Yield	12640 psi
Compression Efficiency	81.5%	Compression Strength	522 x 1000 lbs	Collapse	12100 psi
Bending	75 °/100 ft				
MAKE-UP TORQUES					
Minimum	14000 ft-lbs	Optimum	15000 ft-lbs	Maximum	18000 ft-lbs
BUCK-ON TORQUES					
Minimum	21600 ft-lbs			Maximum	23100 ft-lbs
OPERATIONAL LIMIT TORQUES					
Operating Torque	25000 ft-lbs			Yield Torque	29000 ft-lbs

*If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative

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1625 N. French Dr., Hobbs, NM 88240
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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 27553

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
TAP ROCK OPERATING, LLC Suite 200 Golden, CO80401	372043	27553	C-103A
523 Park Point Drive			
OCD Reviewer	Condition		
pkautz	None		