Do not use th	NOTICES AND REPORT	eropad Field	5. Lease Serial No. NMNM132949			
abandoned we	UREAU OF LAND MANAO NOTICES AND REPORT is form for proposals to dr II. Use form 3160-3 (APD)	for such proposals.	6. If Indian, Allottee	or Tribe Name		
	TRIPLICATE - Other instru		7. If Unit or CA/Agr	7. If Unit or CA/Agreement, Name and/or No.		
I. Type of Well Oil Well Gas Well Oth	her		8. Well Name and No STOVE PIPE FE	8. Well Name and No. STOVE PIPE FEDERAL COM 706H		
2. Name of Operator COG OPERATING LLC		AYTE X REYES	9. API Well No. 30-025-46503-	9. API Well No. 30-025-46503-00-X1		
3a. Address ONE CONCHO CENTER 60 MIDLAND, TX 79701-4287	10. Field and Pool or MESA VERDE					
4. Location of Well (Footage, Sec., 7	C., R., M., or Survey Description)		11. County or Parish	, State		
Sec 31 T24S R35E 270FSL 3 32.167469 N Lat, 103.413933			LEA COUNTY,	NM		
12. CHECK THE AN	PPROPRIATE BOX(ES) TO	D INDICATE NATURE O	F NOTICE, REPORT, OR OT	HER DATA		
TYPE OF SUBMISSION		TYPE OF	ACTION			
Notice of Intent		Deepen	Production (Start/Resume)	UWater Shut-Off		
	Alter Casing	Hydraulic Fracturing	Reclamation	Well Integrity		
Subsequent Report						
Final Abandonment Notice						
Attach the Bond under which the wor following completion of the involved	rk will be performed or provide the operations. If the operation result pandonment Notices must be filed of inal inspection.	Bond No. on file with BLM/BIA s in a multiple completion or reco- only after all requirements, includi	red and true vertical depths of all perti Required subsequent reports must b mpletion in a new interval, a Form 31 ing reclamation, have been completed ally approved	e filed within 30 days 60-4 must be filed once		
Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fi COG Operating respectfully re APD. Slim hole design attached.	rk will be performed or provide the loperations. If the operation result bandonment Notices must be filed of inal inspection. equests approval for the follo	Bond No. on file with BLM/BIA s in a multiple completion or reco- only after all requirements, includi wing changes to the origina	Required subsequent reports must be mpletion in a new interval, a Form 31 ing reclamation, have been completed ally approved	e filed within 30 days 60-4 must be filed once		
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Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fi COG Operating respectfully re APD. Slim hole design attached. Slim hole design attached. 14. I hereby certify that the foregoing is Com Name (Printed/Typed) MAYTE X Signature (Electronic S Approved By_DYLAN_RQSSMANC Conditions of approval, if any, are attached Conditions of approval, if any, are attached	A Approval of this notice does not intable title to those rights in the sult submission. THIS SPACE FOR	Bond No. on file with BLM/BIA s in a multiple completion or reco- only after all requirements, includi wing changes to the origina wing changes to the origina 985 verified by the BLM Well ERATING LLC, sent to the H ing by PRISCILLA PEREZ on Title SENIOR Date 11/27/20 FEDERAL OR STATE C United Diffice Hobbs ne for any person knowingly and the sent on the sent of th	Required subsequent reports must be mpletion in a new interval, a Form 31 ing reclamation, have been completed ally approved Information System obbs 12/03/2019 (20PP0473SE) REGULATORY ANALYST 119 DFFICE USE JM ENGINEER	be filed within 30 days 60-4 must be filed once and the operator has		

COG Operating LLC - Stove Pipe Fed Com 706H API 30-025-46503

COG, Operating, LLC respectfully requests to change to a slim hole casing design on this well with the changes as shown below to the approved drilling plan. Details are as follows:

Surface Interval

Casing String	TOC	% Excess
Surface	Surface	*64%

*Cement calculated with 64% excess for open hole plus 50 extra sacks of lead.

Csg String #	String Type	Hole Size		Casing Size	Condition	Standard	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Length	Weight	Grade	Connection
	Surface	14.750"	10.	750" N	Vew A	PI	0'	1200'	0'	1200			BTC	
								,					335	
String Tvne	Lead/Tail	Bottom MD	Quantity (sx)	Yield	Density	Cu Ft	Excess %		Cement Type		Additives			
Surf	Lead	740'	455	1.73	13.5	787	64	Class C	2		4% gel &	1/4# CF		
	Tail	1200'	332	1.34	14.8	445	64	Class C	2		1% CaCl ₂	& 1/4# C	Ъ. Т	

Intermediate Interval

Casing String	TOC	% Excess
Intermediate	Surface	*52%

*Cement calculated with 52% excess for open hole plus 50 extra sacks of lead.

Csg String #	String Type	Hole Size	Casing Size	Condition	Standard	Top Set MD	Bot Set MD	Top Set TVD	Bot Set TVD	Length	Weight	Grade	Connection
2	Intermediate	9.875"	7.625"	New	API	0'	7500'	0'	7499'	7500'	29.7	L80 EHC	BTC
2	Intermediate	9.875"	7.625"	New	API	7500'	9000'	0,	8999'	1500'	29.7	P110 HC	FJM
2	Intermediate	8.750"	7.625"	New	API	9000	12250'	0,	12248'	3250'	29.7	P110 HC	FJM

String Type	Lead/Tail	Bottom MD	Quantity (sx)	Yield	Density	Cu Ft	Excess %	Cement Type	Additives
Int	Lead	11240'	920	3.49	10.3	3210	52	NeoCem H	2# kolseal & 3% HGS 4000
	Tail	12250'	165	1.08	16.4	178	52	NeoCem H	0.3% Halad-9, 0.2% CFR-3, & 0.20% HR-601

Sundry 11/26/2019

COG Operating LLC - Stove Pipe Fed Com 706H API 30-025-46503

Production Interval

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Casing String	TOC	% Excess
Production	Surface	*17%

*Cement calculated with 17% excess for open hole.

Csg String #	String Type	Hole Size	Casing Size	Condition	Standard	Top Set MD	Bot Set MD	Top Set TVD	Bot Set TVD	Length	Weight	Grade	Connection
3	Production	*6.875"	5.500"	New	API	0'	7500'	0'	7499'	7500'	23	P110 CY	BTC
3	Production	*6.875"	5.000"	New	API	7500'	12250'	0'	12248'	4750'	18	P110 HC	SFW
3	Production	6.750"	5.000"	New	API	12250'	23347'	0'	12914'	11097'	18	P110 HC	SFW

*Intermediate cas	ing	ID
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String Type	Lead/Tail	Bottom MD	Quantity (sx)	Yield	Density	Cu Ft	Excess %	Cement Type	Additives
Int	Lead	12250'	750	1.98	12.7	1482	0	NeoCem H	2# kolseal & 3% HGS 4000
	Tail	23347'	1190	1.22	14.5	1455	17	NeoCem H	0.3% Halad-9, 0.2% CFR-3, & 0.20% HR-601



U. S. Steel Tubular Products Product Information

7 5/8 29.70 lb (0.375) L80 HP BTC

7/10/2019

Co	upling	Pipe Body	аба жиле на к. сто на е се станција — 760
Yield Strength			
Minimum	80	85	ksi
Maximum	95	95	ksi
Tensile Strength			
Minimum	95 k	si	
Outside Diameter		7.625	in.
Wall		0.375	in.
Inside Diameter Drift		6.875	in.
Special		6.750	in.
Nominal Linear Weight, T&0	>	29.70	lbs/ft
Weight, Plain End		29.06	lbs/ft
Pipe Cross Sectional Area		8.541	sq. in.
BTC		8.500	in.
Collapse		ranovera, antinanna i na anna, i d'afainas	Proverties of a second second second second
Plain End		6,220	psi
BTC		6,220	psi
Internal Yield Pressure			
Plain End		7,310	psi
BTC		7,310	psi
Yield Strength, Pipe Body Joint Strength		726	1,000 lbs
BTC		733	1,000 lbs
	Yield Strength Minimum Maximum Tensile Strength Minimum Outside Diameter Wall Inside Diameter Drift Special Nominal Linear Weight, T&C Weight, Plain End Pipe Cross Sectional Area Coupling Diameter BTC Collapse Plain End BTC Internal Yield Pressure Plain End BTC Yield Strength, Pipe Body Joint Strength	Yield Strength80Minimum95Tensile Strength95Tensile Strength95Outside Diameter95Outside Diameter95DriftSpecialNominal Linear Weight, T&CWeight, Plain EndPipe Cross Sectional AreaCoupling DiameterBTCCollapsePlain EndBTCInternal Yield PressurePlain EndBTCYield Strength, Pipe BodyJoint Strength	Yield Strength Minimum8085Maximum9595Tensile Strength95Minimum9595 kOutside Diameter7.625Wall0.375Inside Diameter6.875Drift5Special6.750Nominal Linear Weight, T&C29.70Weight, Plain End29.06Pipe Cross Sectional Area8.541Coupling Diameter8.500BTC8.500Collapse6,220Internal Yield Pressure9Plain End7,310BTC7,310Yield Strength, Pipe Body726Joint Strength726

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U. S. Steel Tubular Products, Inc. - 460 Wildwood Forest Dr., Suite 300S, Spring, TX 77380

USS

U. S. Steel Tubular Products

7.625" 29.70lbs/ft (0.375" Wall) P110 HC USS-LIBERTY FJM[®]

MECHANICAL PROPERTIES	Pipe	USS-LIBERTY FJM [®]	
Minimum Yield Strength	110,000	*-	psi
Maximum Yield Strength	140,000		psi
Minimum Tensile Strength	125,000		psi
DIMENSIONS	Pipe	USS-LIBERTY FJM [®]	
Outside Diameter	7.625	7.625	in.
Wall Thickness	0.375		in.
Inside Diameter	6.875	6.789	in.
Standard Drift	6.750	6.750	in.
Alternate Drift			in.
Nominal Linear Weight, T&C	29.70		lbs/ft
Plain End Weight	29.06	••	lbs/ft
SECTION AREA	Pipe	USS-LIBERTY FJM [®]	
Critical Area	8.541	5.074	sq. in.
Joint Efficiency	-	59.4	%
PERFORMANCE	Pipe	USS-LIBERTY FJM [®]	
Minimum Collapse Pressure	6,700	6,700	psi
Minimum Internal Yield Pressure	9,460	9,460	psi
Minimum Pipe Body Yield Strength	940,000		lbs
Joint Strength		558,000	lbs
Compression Rating		558,000	lbs
Reference Length	-	12,810	ft
Maximum Uniaxial Bend Rating		39.3	deg/100 ft
MAKE-UP DATA	Pipe	USS-LIBERTY FJM [®]	
Make-Up Loss	-	3.92	in.
Minimum Make-Up Torque		10,800	ft-lbs
Maximum Make-Up Torque		15,250	ft-lbs

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).

2. Compressive & Tensile Connection Efficiencies are calculated by dividing the connection critical area by the pipe body area.

3. Uniaxial bending rating shown is structural only, and equal to compression efficiency.

4. USS-LIBERTY FJM[™] connections are optimized for each combination of OD and wall thickness and cannot be interchanged.

5. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).

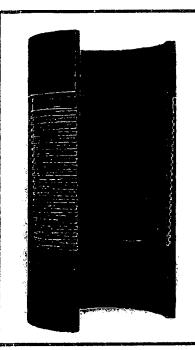
6. Reference length is calculated by joint strength divided by nominal plain end weight with 1.5 safety factor.

7. Connection external pressure leak resistance has been verified to 100% API pipe body collapse pressure following the guidelines of API 5C5 Cal III.

Legal Notice

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U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com



TEC-LOCK FJ

7.625" 29.7 LB/FT (.375" Wall)

P110 HC

Pipe Body Data		
Nominal OD:	7.625	in
Nominal Wall:	0.375	in
Nominal Weight:	29.70	ib/ft
Plain End Weight:	29.22	lb/ft
Material Grade:	P110 HC	
Mill/Specification:	BORUSAN MANNESMANN	
Yield Strength:	110,000	psi
Tensile Strength:	125,000	psi
Nominal ID:	6.875	in
API Drift Diameter:	6.750	in
Special Drift Diameter:	NA	in
RBW:	87.5%	
Body Yield:	940,000	lbf
Burst:	9,460	psi
Collapse:	7,050	psi

Maximum Bend:	26	°/100ft	
External Pressure Rating:	7,050	psi	
Internal Pressure Rating:	7,570	psi	
Compressive Limit:	581,860	lbf	
Longitudinal Yield Strength:	658,000	lbf	
Compressive Efficiency:	61.9%		
Tensile Efficiency:	70.0%		
Critical Section Area:	6.299	in²	
Pin Bored ID:	6.875	in	
Standard OD:	7.625	in	

Operational Data

3,600	ft*lbf
6,500	ft*lbf
9,400	ft*lbf
14,500	ft*lbf
5.97	in
	6,500 9,400 14,500

Notes Preliminary DataSheet

The Connection ratings are structural



Generated on Sep 05, 2019

U. S. Steel Tubular Products

23.00 lb (0.415) P110RY CC** 5 1/2

USS-CDC HTQ™

	PIPE	CONNECTION	
MECHANICAL PROPERTIES			
Minimum Yield Strength	110,000		ps
Maximum Yield Strength	125,000		ps
Minimum Tensile Strength	125,000		ps
DIMENSIONS			
Outside Diameter	5.500	6.300	in
Wall Thickness	0.415		in
Inside Diameter	4.670	4.670	in
Drift - API	4.545	4.545	in
Nominal Linear Weight, T&C	23.00		lbs/f
Plain End Weight	22.56		lbs/f
SECTION AREA			
Cross Sectional Area Critical Area	6.630	6.630	sq. in
Joint Efficiency		100.0	9
PERFORMANCE	-		
Minimum Collapse Pressure	15,310	15,310	ps
External Pressure Leak Resistance		12,250	ps
Minimum Internal Yield Pressure	14,520	14,520	ps
Minimum Pipe Body Yield Strength	729,000		lb
Joint Strength		759,000	lb:
Compression Rating		455,000	lb:
Reference Length		22,000	f
Maximum Uniaxial Bend Rating		57.2	deg/100 f
MAKE-UP DATA			
Make-Up Loss		4.63	in
Minimum Make-Up Torque		15,000	ft-lbs
Maximum Make-Up Torque		21,000	ft-lbs
Connection Yield Torque		27,800	ft-lbs
* Verification of connection shoulder required.	Typical shoulder range	5,000 - 7,500	ft-lbs

Notes:

1) Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).

2) Uniaxial bending rating shown is structural only, and equal to compression efficiency.

Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up 3) torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.)

4) Reference length is calculated by point strength divided by nominal T&C weight with 1.5 safety factor Connection external pressure resistance has been verified to 80% API pipe body collapse pressure (API 5C5 Cal III testing protocol) 5)

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U. S. Steel Tubular Products

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18.00 lb (0.362) P110 RY

USS-CDC HTQ™

		PIPE	CONNECTION	
	MECHANICAL PROPERTIES			
	Minimum Yield Strength	110,000		psi
	Maximum Yield Strength	125,000		psi
	Minimum Tensile Strength	125,000		psi
	DIMENSIONS			
i	Outside Diameter	5.000	5.775	in.
	Wall Thickness	0.362		in.
	Inside Diameter	4.276	4.276	in.
	Drift - API	4.151	4.151	in.
	Nominal Linear Weight, T&C	18.00		lbs/ft
	Plain End Weight	17.95		lbs/ft
	SECTION AREA			
	Cross Sectional Area Critical Area	5.275	5.275	sq. in.
:	Joint Efficiency		100.0	%
	PERFORMANCE	• • •		
1	Minimum Collapse Pressure	13,470	13,470	psi
	External Pressure Leak Resistance		10,780	psi
'	Minimum Internal Yield Pressure	13,950	13,950	psi
	Minimum Pipe Body Yield Strength	580,000		lbs
	Joint Strength		606,000	lbs
	Compression Rating		364,000	lbs
	Reference Length		22,444	ft
	Maximum Uniaxial Bend Rating		63.3	deg/100 ft
	MAKE-UP DATA			5 e
	Make-Up Loss		4.56	in.
	Minimum Make-Up Torque		11,500	ft-lbs
	Maximum Make-Up Torque		16,000	ft-lbs
	Connection Yield Torque		19,600	ft-lbs

Notes:

 Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API SC3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).

2) Uniaxial bending rating shown is structural only, and equal to compression efficiency.

 Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).

4) Reference length is calculated by joint strength divided by nominal T&C weight with 1.5 safety factor.

5) Connection external pressure resistance has been verified to 80% API pipe body collapse pressure (API SCS Cal III testing protocol).

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