Form 3160-5 (June 2015)	UNITED STATE DEPARTMENT OF THE I	<i>N</i>	OCD-REC'D: 8	3/21/2020		APPROVED O. 1004-0137	
	BUREAU OF LAND MANA				5. Lease Serial No.	anuary 31, 2018	
Do not us	DRY NOTICES AND REPC se this form for proposals to	o drill or to re	-enter an		NMNM94651	a Taile Mana	
abandone	d well. Use form 3160-3 (AF	PD) for such	proposals.		6. If Indian, Allottee or Tribe Name		
SUBMI	T IN TRIPLICATE - Other ins	structions on	page 2		7. If Unit or CA/Agreement, Name and/or No.		
1. Type of Well ☑ Oil Well □ Gas Well	8. Well Name and No. MultipleSee Attached						
2. Name of Operator OXY USA INCORPORA	9. API Well No. MultipleSee At	ttached					
3a. Address 5 GREENWAY PLAZA S HOUSTON, TX 77046-0		3b. Phone No Ph: 432.68 Fx: 436.85			10. Field and Pool or I PURPLE SAGE	Exploratory Area -WOLFCAMP (GAS)	
	Sec., T., R., M., or Survey Description	n)			11. County or Parish,	State	
MultipleSee Attached					EDDY COUNTY	Υ, NM	
12. CHECK TH	IE APPROPRIATE BOX(ES)) TO INDICA	TE NATURE OI	F NOTICE,	REPORT, OR OTH	IER DATA	
TYPE OF SUBMISSION			TYPE OF	ACTION			
Notice of Intent	□ Acidize	Dee	pen	□ Production (Start/Resume)		□ Water Shut-Off	
Subsequent Report	□ Alter Casing	-	Iraulic Fracturing	□ Reclamation		Well Integrity	
☐ Final Abandonment Not	□ Casing Repair ice □ Change Plans	New Construction Plug and Abandon		 Recomplete Temporarily Abandon 		Other Change to Original A	
	Convert to Injection		-	□ Water D	-	PD	
Attach the Bond under which the following completion of the in testing has been completed. Findetermined that the site is read	ectionally or recomplete horizontally he work will be performed or provid- volved operations. If the operation re- inal Abandonment Notices must be fi y for final inspection.	e the Bond No. o esults in a multip iled only after all	n file with BLM/BIA le completion or reco requirements, includi	. Required sub mpletion in a r ing reclamation	psequent reports must be new interval, a Form 316 n, have been completed a	filed within 30 days 0-4 must be filed once	
1. Salt Flat CC 20-29 Fe	deral Com #37H - 30-015-463 deral Com #38H - 30-015-463		OCD Accepted	for Record 9)/11/2020 - JAG		
	ended Drill Plan with the follow						
1. Change the Surface C	asing and update cementing i	information.					
1. Change Production Ca Back Detail	asing to Liner and update cem	enting inform	ation. See attach	ed for Casi	ng Tie		
14. I hereby certify that the foreg	Electronic Submission #	A INCORPORA	TED, sent to the	Carlsbad	-		
Name(Printed/Typed) DAV	ID STEWART		Title SR. REC	GULATORY	ADVISOR		
Signature (Electronic Submission) Date 10/29/2019							
	THIS SPACE F	OR FEDER	AL OR STATE	OFFICE U	SE		
						Data 11/12/2010	
	attached. Approval of this notice doe		TitlePETROLE Office Carlsbac		ER	Date 11/13/2019	
	itle 43 U.S.C. Section 1212, make it a dulent statements or representations a			willfully to ma	ke to any department or	agency of the United	
(Instructions on page 2) ** BLM	REVISED ** BLM REVISE	D ** BLM R	EVISED ** BLN) ** BLM REVISE	D **	

Additional data for EC transaction #490079 that would not fit on the form

Wells/Facilities, continued

Agreement	Lease	Well/Fac Name, Number API Number
NMNM94651	NMNM94651	SALT FLAT CC 20-29 FEDERAL C30040375+46369-00-X1
NMNM94651	NMNM94651	SALT FLAT CC 20-29 FEDERAL C 300403155-446399-00-X1

Location Sec 17 T24S R29E SESW 435FSL 1765FWL 32.211529 N Lat, 104.009399 W Lon Sec 17 T24S R29E SESW 435FSL 1835FWL 32.211525 N Lat, 104.009178 W Lon

32. Additional remarks, continued

2. Request Bradenhead squeeze for the 2nd stage Intermediate casing with the Bradenhead CBL requirement.

3. Request Offline Intermediate Casing/Cementing Variance, see attached.

- 4. Update BOP Break Testing Request, Information and Plan
- 5. Update BOP/Wellhead Diagram

Revisions to Operator-Submitted EC Data for Sundry Notice #490079

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM094651	NMNM94651
Agreement:		
Operator:	OXY USA INC. P.O. BOX 50250 MIDLAND, TX 79710 Ph: 432-685-5717	OXY USA INCORPORATED 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0521 Ph: 713.350.4816
Admin Contact:	DAVID STEWART SR. REGULATORY ADVISOR E-Mail: david_stewart@oxy.com Cell: 432-634-5688 Ph: 432-685-5717	DAVID STEWART SR. REGULATORY ADVISOR E-Mail: david_stewart@oxy.com Cell: 432.685.5717 Ph: 432.685.5717 Fx: 436.855.5742
Tech Contact:	DAVID STEWART SR. REGULATORY ADVISOR E-Mail: david_stewart@oxy.com Cell: 432-634-5688 Ph: 432-685-5717	DAVID STEWART SR. REGULATORY ADVISOR E-Mail: david_stewart@oxy.com Cell: 432.685.5717 Ph: 432.685.5717 Fx: 436.855.5742
Location: State: County:	NM EDDY	NM EDDY
Field/Pool:	PURPLE SAGE WOLFCAMP	PURPLE SAGE-WOLFCAMP (GAS)
Well/Facility:	SALT FLAT CC 20-29 FEDERAL COM 37H Sec 17 T24S R29E Mer NMP SESW 435FSL 1765FWL 32.211528 N Lat, 104.009402 W Lon	SALT FLAT CC 20-29 FEDERAL COM 37H Sec 17 T24S R29E SESW 435FSL 1765FWL 32.211529 N Lat, 104.009399 W Lon SALT FLAT CC 20-29 FEDERAL COM 38H Sec 17 T24S R29E SESW 435FSL 1835FWL 32.211525 N Lat, 104.009178 W Lon

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INC.
LEASE NO.:	NMNM094651
LOCATION:	SECTION 17, T24S, R29E, NMPM
COUNTY:	EDDY

	T FLAT CC 20-29 FED 37H
SURFACE HOLE FOOTAGE: 435'/	S & 1765'/W
BOTTOM HOLE FOOTAGE 20'/S	& 2330'/W

WELL NAME & NO.:	SALT FLAT CC 20-29 FED 38H
SURFACE HOLE FOOTAGE:	435'/S & 1835'/W
BOTTOM HOLE FOOTAGE	20'/S & 2310'/W

COA

H2S	C Yes	🖲 No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	C Low	Medium	🖱 High
Cave/Karst Potential	Critical		
Variance	🗘 None	Flex Hose	© Other
Wellhead	Conventional	Multibowl	Both
Other	4 String Area	Capitan Reef	WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Special Requirements	🗌 Water Disposal	COM	🗖 Unit

ALL PREVIOUS COAs STILL APPLY.

A. CASING

Casing Design:

- 1. The **13-3/8** inch surface casing shall be set at approximately **450** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The **7-5/8** inch intermediate casing shall be set at approximately **9258** feet The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- In <u>Medium Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 13-3/8" X 7-5/8" annulus. <u>Operator must run</u> a CBL/ ECHOMETER from TD of the 7-5/8" casing to surface. Submit results to BLM. Excess calculates to 7% - additional cement might be required.

- 3. The minimum required fill of cement behind the 5-1/2 inch production liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification. **Excess calculates to 3% additional cement might be required.**

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000** (**5M**) psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

C. SPECIAL REQUIREMENT (S)

BOP Break Testing Variance

- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOP Break Testing operations.
- A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

Offline Cementing

• Contact the BLM prior to the commencement of any offline cementing procedure.

Communitization Agreement

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

OTA11132019

OXY USA Inc. - Salt Flat CC 20-29 Federal Com 37H-38H - Amended Drill Plan

This is a bulk sundry request for the Salt Flat CC 20-29 Federal Com#37H, but includes the following Salt Flat CC 20-29 Federal Com #38H well in the Cedar Canyon area.

API #	Well Name
3001546369	Salt Flat CC 20-29 Fed Com 37H
3001546399	Salt Flat CC 20-29 Fed Com 38H

1. Casing Program

Oxy requests to run a production liner. The updated casing table is shown below:

Hale Cine (in)	Casing I	nterval	Csg. Size	Weight	Curda	Curda	Com	SF	CE Darrest	Body SF	Joint SF
Hole Size (in)	From (ft)	To (ft)	(in)	(lbs)	Grade	Conn.	Collapse	SF Burst	Tension	Tension	
17.5	0	475	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4	
9.875	0	9472	7.625	26.4	L-80	BTC	1.125	1.2	1.4	1.4	
6.75	9372	20552	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4	
SF Values will meet or Exceed					1						

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

*OXY requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run in case hole conditions merit pumping a second stage cement job to comply with permitted top of cement. If cement circulated to surface during first stage we will drop a cancelation cone and not pump the second stage.

*OXY requests the option to run production casing with DQX, SF TORQ, and/or DQW TORQ connections to accommodate hole conditions or drilling operations.

Annular Clearance Variance Request

As per the agreement reached in the OXY/BLM meeting on Feb 22, 2018, OXY requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

- 1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
- 2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

OXY USA Inc. - Salt Flat CC 20-29 Federal Com 37H-38H - Amended Drill Plan

2. Cementing Program

Oxy requests to change the production cement job. The tables below highlight the changes.

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	508	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate 1st Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate 1st Stage (Tail)	587	13.2	1.65	8.640	11:54	Class H Cement, Retarder, Dispersant, Salt
Intermediate 2nd Sta	ge (Tail Slurr	y) to be pumpe	ed as Bradenh	ead Squeeze f	rom surface,	down the Intermediate annulus
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	722	12.9	1.92	10.41	23:10	Class C Cement, Accelerator
Production (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Production (Tail)	719	13.2	1.38	6.686	3:39	Class H Cement, Retarder, Dispersant, Salt

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	475	100%
Intermediate 1st Stage (Lead)	N/A	N/A	N/A
Intermediate 1st Stage (Tail)	5227	9472	5%
Intermediate 2nd Stage (Lead)	N/A	N/A	N/A
Intermediate 2nd Stage (Tail)	0	5227	10%
Production (Lead)	N/A	N/A	N/A
Production (Tail)	9372	20552	5%

Cement Top and Liner Overlap

- 1. OXY is requesting permission to have minimum fill of cement behind the 5-1/2" production liner to be 100' into previous casing string. The reason for this is so that we can come back and develop shallower benches from the same 7-5/8" mainbore in the future.
- 2. Our plan is to use a whipstock for our exit through the mainbore. Based on our lateral target, we are planning a whipstock cased/hole exit so that kick-off point will allow for roughly 10deg/100' doglegs needed for the curve.
- 3. Cement will be brought to the top of this liner hanger.
- 4. See attached for additional casing tie-back information.

*OXY requests a variance to cement the 9-5/8" and/or 7-5/8" intermediate casing strings offline, see attached for additional information.

OXY USA Inc. – Salt Flat CC 20-29 Federal Com 37H-38H – Amended Drill Plan

Bradenhead CBL - OXY requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

Three string wells:

- 1. CBL will be required on one well per pad
- 2. If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- 3. Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	~	Tested to:	
		3M		Annular	✓	70% of working pressure	
				Blind Ram	✓		
9.875" Hole	13-5/8"	214	Pipe Ram				
		3M		Double Ram	✓	250 psi / 3000 psi	
			Other*				
		5M		Annular	✓	70% of working pressure	
	13-5/8"				Blind Ram		
6.75" Hole		514		Pipe Ram		250 psi / 5000 psi	
		5M		Double Ram			
			Other*				

3. Pressure Control Equipment

*Specify if additional ram is utilized.

Oxy will utilize a 5M annular with a 10M BOPE stack. The BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	On Ex greater	tion integrity test will be performed per Onshore Order #2. ploratory wells or on that portion of any well approved for a 5M BOPE system or r, a pressure integrity test of each casing shoe shall be performed. Will be tested in lance with Onshore Oil and Gas Order #2 III.B.1.i.				
	A vari	A variance is requested for the use of a flexible choke line from the BOP to Choke				
	Manifold. See attached for specs and hydrostatic test chart.					
1	Y	Are anchors required by manufacturer?				

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015. See attached schematics.

BOP Break Testing Request

OXY requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

BOP break test under the following conditions:

- 1. After a full BOP test is conducted
- 2. When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.
- 3. When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper.

If the kill line is broken prior to skid, two tests will be performed.

- 1. Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2. Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

1. Wellhead flange, co-flex hose, check valve, upper pipe rams

	Hole		Shoe Depth			Mud	Shell
Well	Size	Casing String	(TVD)	Formation	Intermediate/Production	Weight	Test
SALT FLAT CC 20-29				2nd Bone			
FED COM 38H	9.875"	26.4# - 7.625"	9,222	Spring	Intermediate	9.0-9.4	Yes
SALT FLAT CC 20-29				2nd Bone			
FED COM 37H	9.875"	26.4# - 7.625"	9,418	Spring	Intermediate	9.0-9.4	Yes
SALT FLAT CC 20-29						12.0-	
FED COM 37H	6.75"	20# - 5.5"	10,014	Wolfcamp	Production	13.0	No
SALT FLAT CC 20-29						11.0-	
FED COM 38H	6.75"	20# - 5.5"	9,874	Wolfcamp	Production	12.0	No

OXY USA Inc. APD Attachment Offline Cementing

OXY respectfully requests a variance to cement the 9-5/8" and/or 7-5/8" intermediate casing strings offline.

The summarized operational sequence will be as follows:

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
- 2. Land casing.
- 3. Fill pipe with kill weight fluid, and confirm well is static.
 - a. If well is not static notify BLM and kill well.
 - b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
- 4. Set and pressure test annular packoff.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed.
- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange.
- 8. If well is not static notify BLM and kill well prior to cementing or nippling up for further remediation.
- 9. Install offline cement tool.
- 10. Rig up cement equipment.
 - a. Notify BLM prior to cement job.
- 11. Perform cement job.
- 12. Confirm well is static and floats are holding after cement job.
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

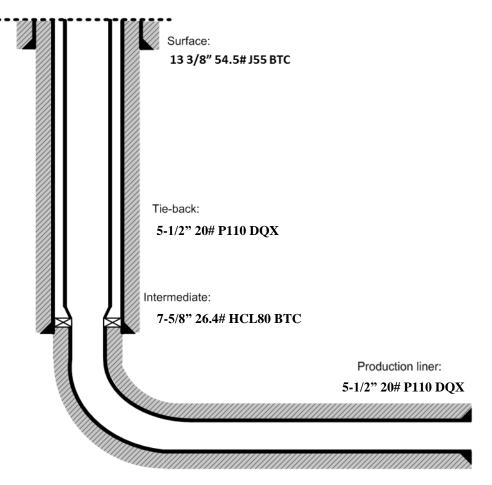
OXY USA Inc. Oxbow CC 17-8 Federal Com Salt Flat CC 20-29 Federal Com

Below is a summary that describes the general operational steps to drill and complete the well.

- Drill 17-1/2" hole x 13-3/8" casing for surface section. Cement to surface.
- Drill 9-7/8" hole x 7-5/8" casing for intermediate section. Cement to surface.
- Drill 6-3/4" hole x 5-1/2" liner for production section. Cement to top of liner, 100' inside 7-5/8" shoe.
- Release drilling rig from location.
- Move in workover rig and run a 5-1/2" 20# P110 DQX tie-back frack string and seal assembly (see connection specs below). Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
- Pump hydraulic fracture job.
- Flowback and produce well.

When a decision is made to develop a secondary bench from this wellbore, a workover rig will be moved to location. The workover rig will then retrieve the tie-back frack string and seal assembly before temporarily abandoning the initial lateral.

General well schematic:



5 ¹/₂" 20# P110 DQX Tie-back string specifications:

PERFORMANCE DATA

TMK	UP	D	QX		
Tech	nica	al	Data	Sheet	

Tubular Parameters

Nominal Weight

Wall Thickness

Drift Diameter

Nom. Pipe Body Area

Size

Grade

PE Weight

Nominal ID

5.500 in 20.00 lbs/ft P-110

5.500	in	Minimum Yield	110,000
20.00	lbs/ft	Minimum Tensile	125,000
P-110		Yield Load	641,000
19.81	lbs/ft	Tensile Load	729,000
0.361	in	Min. Internal Yield Pressure	12,600
4,778	in	Collapse Pressure	11,100
4.653	in		

Connection OD	6.050	in
Connection ID	4.778	in
Make-Up Loss	4.122	in
Critical Section Area	5.828	in²
Tension Efficiency	100.0	%
Compression Efficiency	100.0	%
Yield Load In Tension	641,000	lbs
Min. Internal Yield Pressure	12,600	psi
Collapse Pressure	11,100	psi

5.828

in2

Make-Up Torques					
Min. Make-Up Torque	11,600	ft-lbs			
Opt, Make-Up Torque	12,900	ft-lbs			
Max. Make-Up Torque	14,100	ft-lbs			
Yield Torque	20,600	ft-lbs			

0 psi 0 psi 0 lbs 0 lbs 0 psi D psi



Printed on: July-29-2014

NOTE:

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