Received by 10CD: S/22/2025 7:23:25 AM

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Well Name	Well Number	US Well Number	Lease Number	Case Number	Operator
GOLD LOG 4-9	22H	3002553818	NMNM86710	NMNM86710	OXY USA
GOLD LOG 4-9	16H	3002553811	NMNM86710	NMNM86710	OXY USA
GOLD LOG 4_9	2H	3002553807	NMNM86710	NMNM86710	OXY USA
GOLD LOG 4-9	25H	3002553813	NMNM86710	NMNM86710	OXY USA
GOLD LOG 4-9	23H	3002553812	NMNM86710	NMNM86710	OXY USA
GOLD LOG 4-9	ЗH	3002553808	NMNM86710	NMNM86710	OXY USA
GOLD LOG 4_9	1H	3002553815	NMNM86710	NMNM86710	OXY USA
GOLD LOG 4_9	12H	3002553809	NMNM86710	NMNM86710	OXY USA
GOLD LOG 4-9	4H	3002553816	NMNM104687	NMNM104687	OXY USA
GOLD LOG 4-9	13H	3002553817	NMNM86710	NMNM86710	OXY USA
GOLD LOG 4-9	26H	3002553814	NMNM86710	NMNM86710	OXY USA

Notice of Intent

Sundry ID: 2820581 Type of Submission: Notice of Intent Date Sundry Submitted: 11/04/2024 Date proposed operation will begin: 11/07/2024

Type of Action: APD Change Time Sundry Submitted: 11:48

Sundry Print Report 01/22/2025

29

Procedure Description: OXY USA Inc. respectfully requests approval to amend the subject wells AAPD to change the casing design to our Blanket A design. See the attached verbal email approval and the Blanket A design document.

NOI Attachments

Procedure Description

Blanket_Design_A___OXY___3S_Slim_v7.1_20241104113836.pdf

GoldLogEmailApproval11_4_2024_20241104113752.pdf

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

Operator Electronic Signature: LESLIE REEVES
Name: OXY USA INCORPORATED
Title: Advisor Regulatory
Street Address: 5 GREENWAY PLAZA, SUITE 110
City: HOUSTON State: TX
Phone: (713) 497-2492
Email address: LESLIE_REEVES@OXY.COM

Field

Representative Name: Street Address: City: State: Phone: Email address:

Zip:

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY BLM POC Phone: 5759884722 Disposition: Approved Signature: KEITH IMMATTY BLM POC Title: ENGINEER

BLM POC Email Address: KIMMATTY@BLM.GOV

Disposition Date: 01/21/2025

Signed on: NOV 04, 2024 11:39 AM

Received by OCD: 1/22/2025 7:23:25 AM

eceived by 0 CD. 1/22/20				I uge 5 of		
Form 3160-5 (June 2019)	UNITED STAT DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021 5. Lease Serial No.			
Do not use	RY NOTICES AND REP this form for proposals vell. Use Form 3160-3 (A	6. If Indian, Allottee or Tribe Name				
	IT IN TRIPLICATE - Other inst	ructions on page 2	7. If Unit of CA/Agreement, N	ame and/or No.		
1. Type of Well Oil Well	Gas Well Other	8. Well Name and No.				
2. Name of Operator		9. API Well No.				
3a. Address		3b. Phone No. <i>(include area code)</i>	10. Field and Pool or Explorate	bry Area		
4. Location of Well (Footage, Se	c., T.,R.,M., or Survey Description	ı)	11. Country or Parish, State			
	. CHECK THE APPROPRIATE I	BOX(ES) TO INDICATE NATURE	OF NOTICE, REPORT OR OTH	ER DATA		
TYPE OF SUBMISSION		TYP	E OF ACTION			
Notice of Intent	Acidize	Deepen Hydraulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity		
Subsequent Report	Casing Repair Change Plans	New Construction Plug and Abandon	Recomplete	Other		
Final Abandonment Notic	e Convert to Injection	n Plug Back	Water Disposal			
the proposal is to deepen dir the Bond under which the w completion of the involved of	ectionally or recomplete horizonta ork will be perfonned or provide the perations. If the operation results ent Notices must be filed only after	Ily, give subsurface locations and me he Bond No. on file with BLM/BIA. in a multiple completion or recomple	easured and true vertical depths o Required subsequent reports mus etion in a new interval, a Form 31	rk and approximate duration thereof. If f all pertinent markers and zones. Attach st be filed within 30 days following 60-4 must be filed once testing has been ne operator has detennined that the site		

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)		
	Title	
	2	
Signature	Date	
THE SPACE FOR FEDE	RAL OR STATE O	FICE USE
Approved by		
	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject lead which would entitle the applicant to conduct operations thereon.		
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within		llfully to make to any department or agency of the United States

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Batch Well Data

GOLD LOG 4_9 FEDERAL COM 1H, US Well Number: 3002553815, Case Number: NMNM86710, Lease Number: NMNM86710, Operator:OXY USA INCORPORATED

GOLD LOG 4_9 FEDERAL COM 2H, US Well Number: 3002553807, Case Number: NMNM86710, Lease Number: NMNM86710, Operator:OXY USA INCORPORATED

GOLD LOG 4_9 FEDERAL COM 12H, US Well Number: 3002553809, Case Number: NMNM86710, Lease Number: NMNM86710, Operator:OXY USA INCORPORATED

GOLD LOG 4-9 FEDERAL COM 13H, US Well Number: 3002553817, Case Number: NMNM86710, Lease Number: NMNM86710, Operator:OXY USA INCORPORATED

GOLD LOG 4-9 FEDERAL COM 22H, US Well Number: 3002553818, Case Number: NMNM86710, Lease Number: NMNM86710, Operator:OXY USA INCORPORATED

GOLD LOG 4-9 FEDERAL COM 23H, US Well Number: 3002553812, Case Number: NMNM86710, Lease Number: NMNM86710, Operator:OXY USA INCORPORATED

GOLD LOG 4-9 FEDERAL COM 16H, US Well Number: 3002553811, Case Number: NMNM86710, Lease Number: NMNM86710, Operator:OXY USA INCORPORATED

GOLD LOG 4-9 FEDERAL COM 25H, US Well Number: 3002553813, Case Number: NMNM86710, Lease Number: NMNM86710, Operator:OXY USA INCORPORATED

GOLD LOG 4-9 FEDERAL COM 26H, US Well Number: 3002553814, Case Number: NMNM86710, Lease Number: NMNM86710, Operator:OXY USA INCORPORATED

GOLD LOG 4-9 FEDERAL COM 3H, US Well Number: 3002553808, Case Number: NMNM86710, Lease Number: NMNM86710, Operator:OXY USA INCORPORATED

GOLD LOG 4-9 FEDERAL COM 4H, US Well Number: 3002553816, Case Number: NMNM104687, Lease Number: NMNM104687, Operator:OXY USA INCORPORATED



1. Casing Program

The designs and associated details listed in this document are the "worst case scenario" boundaries for design safety factors.

Location and lithology have NOT been accounted for in these designs; however, the designs are NOT valid for wells within KPLA Boundaries or Capitan Reef areas. The specific well details will be based on the APD/Sundry package and the information listed in the COA.

The mud program listed below will remain the same between each design variation.

Hole will be full during casing run for well control and tensile SF.

Casing will be kept at least half full during run for these designs to meet BLM collapse SF requirement.

Design Variation "A1"

			MD	Т	TVD				
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	14.75	0	1200	0	1200	10.75	45.5	J-55	BTC
Intermediate	9.875	0	13111*	0	12775*	7.625	26.4	L-80 HC	BTC Axis HT
Production	6.75	0	23361	0	12775	5.5	20	P-110	Wedge 461 Sprint SF DWC/C-HT-IS

*Curve could be in intermediate or production section

Design Variation "A2" - Option to Pivot to Design "B" for Contingency 4S

			MD	-	TVD				
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	17.5	0	1200	0	1200	13.375	54.5	J-55	BTC
Intermediate	12.25†	0	13111*	0	12775*	7.625	26.4	L-80 HC	BTC Axis HT
Production	6.75	0	23361	0	12775	5.5	20	P-110	Wedge 461 Sprint SF DWC/C-HT-IS

*Curve could be in intermediate or production section

⁺If 4S Contingency is not required, Oxy requests permission to transition from 12.25" to 9.875" Intermediate at some point during the hole section. Cement volumes will be updated on C103 submission.

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

All Casing SF Values will meet or								
exceed those below								
SF	SF	Body SF	Joint SF					
Collapse	Burst	Tension	Tension					
1.00	1.00 1.100 1.4 1.4							





§Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement. Please see Annular Clearance Variance attachment for further details.

§Annular Clearance Variance Request may not apply to all connections used or presented.

2. Trajectory / Boundary Conditions

	MD)	TV	D		
Section	Deepest KOP (ft)	End Build (ft)	Deepest KOP (ft)	End Build (ft)	Max. Angle	Max. Planned DLS
Surface	0	1200	0	1200	5°	1°/100 ft
Intermediate	5000 (inside Cherry Canyon)	6500	4980	6390	20°	2°/100 ft
	12211	13111	12202	12775	92° ‡	12°/100 ft ‡
Production	12211 (~100' MD past ICP)	13111	12202	12775	92° ‡	12°/100 ft ‡

‡ Applies only when intermediate casing depth is deepened to landing point to match TVD of production in some areas where required to accommodate higher MWs in depleted areas.

Oxy has reviewed casing burst, collapse, and axial loadcases in Landmark StressCheck with the boundary conditions in the table above which satisfies Oxy and BLM minimum design criteria. Triaxial plots for each casing string is shown in Section 7 and intermediate load case inputs are shown in Section 8.



3. Cementing Program

NOTE: Blanket design is for technical review only. The cement volumes will be adjusted to ensure cement tops meet BLM requirements.

Design Variation "A1"

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	819	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	658	1.68	13.2	5%	7,206	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1111	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	665	1.84	13.3	25%	11,611	Circulate	Class C+Ret.
Prod.	2*	Production - Tail BH*	TBD	1.84	13.3	50%	500' inside prev csg	Circulate	Class C+Ret.

*Only applies in scenario where planned single stage job TOC is not 500' above previous shoe as designed/programmed requiring bradenhead 2nd stage to meet requirements

Design Variation "A2"

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	1023	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	658	1.68	13.2	5%	7,206	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1293	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	665	1.84	13.3	25%	11,611	Circulate	Class C+Ret.
Prod.	2*	Production - Tail BH*	TBD	1.84	13.3	50%	500' inside prev csg	Circulate	Class C+Ret.

*Only applies in scenario where planned single stage job TOC is not 500' above previous shoe as designed/programmed requiring bradenhead 2nd stage to meet requirements

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

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. Please see Bradenhead CBL Variance attachment for further details.







4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	~	Tested to:	Deepest TVD Depth (ft) per Section:
		5M		Annular	✓	70% of working pressure	
				Blind Ram	<		
9.875" Hole	13-5/8"	5M	Pipe Ram			250 psi / 5000 psi	12775**
				Double Ram	✓	230 p317 3000 p31	
			Other*				
		5M		Annular	✓	100% of working pressure	
				Blind Ram			12775
6.75" Hole	13-5/8"	10M		Pipe Ram		250 psi / 10000 psi	
				Double Ram		200 psi/ 10000 psi	
			Other*				

*Specify if additional ram is utilized

**Curve could be in intermediate or production section

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 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.

5M Annular BOP Request

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack,* Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are





Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Coflex hoses are in compliance with API 16C and meets inspection and testing requirements. See attached for specs and hydrostatic test chart.

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 43 CFR part 3170 Subpart 3172 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. Please see BOP Break Testing Variance attachment for further details.

Hammer Union Variance

Oxy requests permission for hammer unions behind the choke to be routed to the gas buster. The hammer unions will not be subject to wellbore pressure in compliance with API STD 53.

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.





G	Depth	- MD	Depth - TVD		Tours	Weight	1 7°	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	1200	0	1200	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	1200	13111*	1200	12775*	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	13111	23361	12775	12775	Water-Based or Oil- Based Mud	9.5 - 13.5	38-50	N/C

5. Mud Program & Drilling Conditions

Curve could be in intermediate or production section

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

Drilling Blind Request

In the event total losses are encountered in the intermediate section, Oxy requests permission to drill blind due to depleted formations where risk of hydrocarbon kicks are unlikely.

- Oxy will first attempt to cure losses before proceeding with drilling blind
- Drilling blind will only be allowed in the Castille and formations below
- While drilling blind, will monitor backside by filling-up on connections and utilize gas monitors
- Depths at which losses occurred and attempt to cure losses with relevant details (LCM sweep info, etc.) will be documented in the drillers log and Subsequent Reports to the BLM.
- If a well control event (hydrocarbon kick) occurs while drilling blind, the BLM will be notified after the well is secured and returned to static.

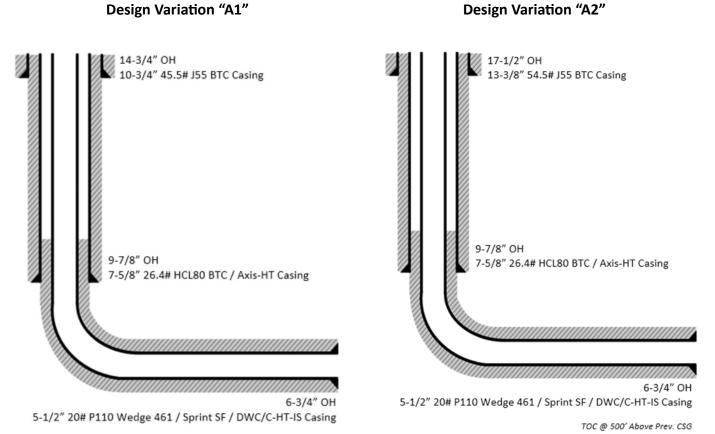
What will be used to monitor the loss or gain of fluid? PVT/MD Totco/Visual Monitoring

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.





6. Wellbore Diagram(s)



TOC @ 500' Above Prev. CSG

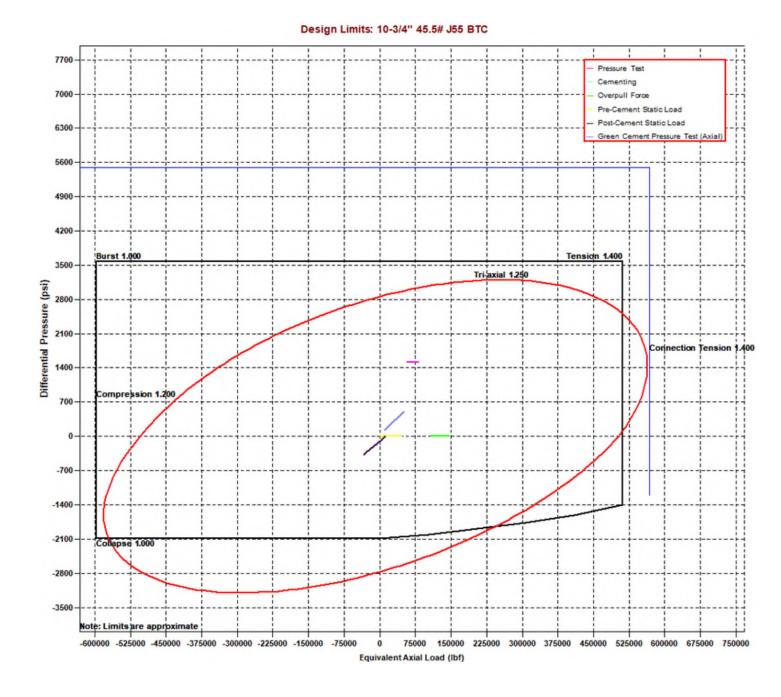
Page 13 of 29



Oxy Bulk Design - Casing Design "A"



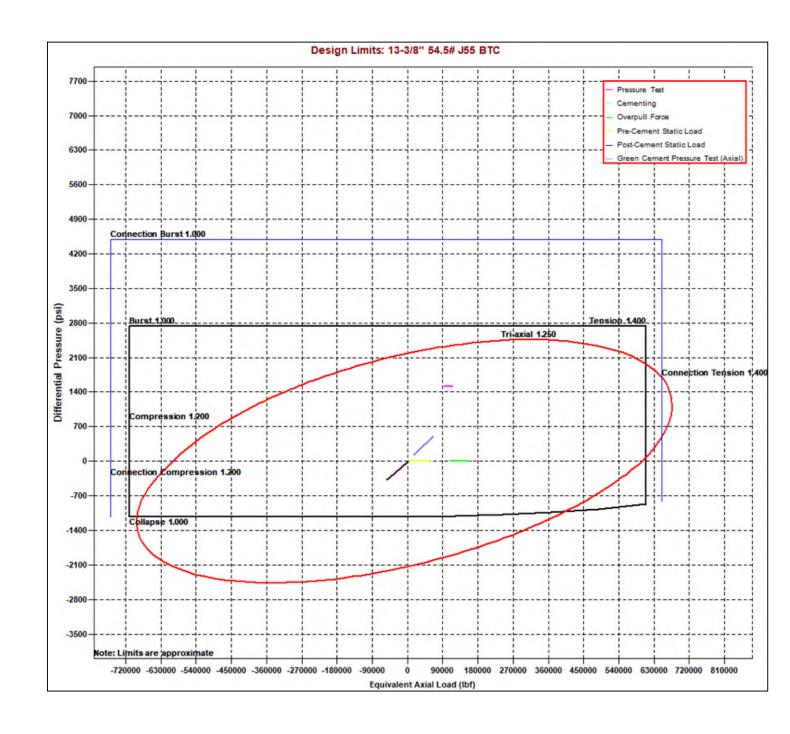
7. Landmark StressCheck Screenshots – Triaxial Output















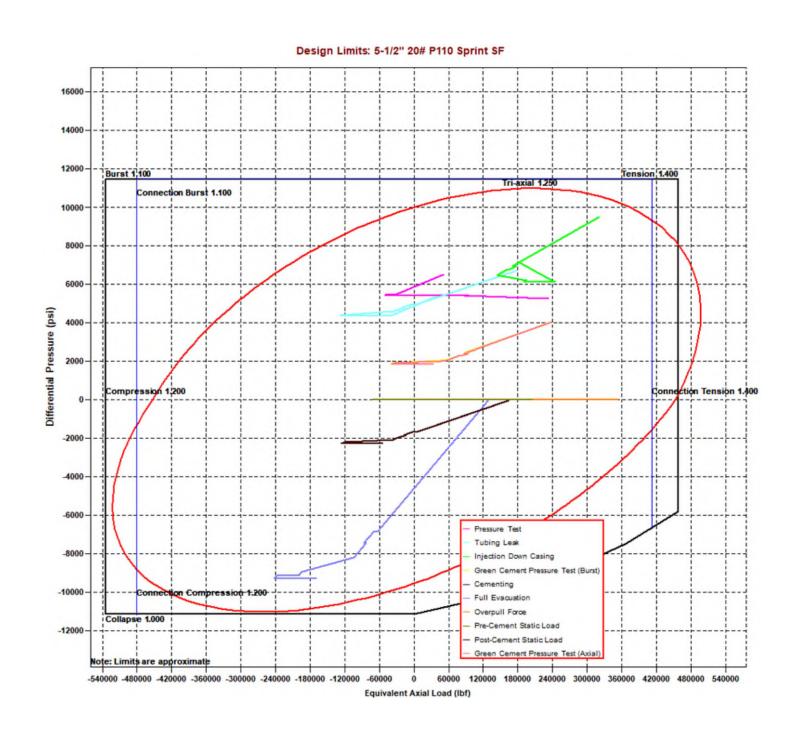


Design Limits: 7-5/8" 26.4# HC-L80 BTC 12000 Lost Returns with Water 10500 Gas Hidk (50.0 bbl, 0.50 ppg) Pressure Test Green Cement Pressure Test (Burst) Connection Burst 1.100. 9000 Lost Returns with Mud Drop Cementing Overpull Force 7500 Pre-Cement Static Load Post-Cement Static Load en Cement Pressure Test (Arial 6000 Burst 1.100 Tension 1.400 Differential Pressure (psi) 4500 3000 ction ension 1400 1500 ompression 1.200 0 -1500 -3000 ion Compression 1.200 Co -4500 Collapse 1.000 -6000 Note: Limits are approximate -540000 -480000 -420000 -360000 -300000 -240000 -180000 -120000 -60000 120000 180000 240000 300000 360000 420000 480000 540000 600000 60000 0 Equivalent Axial Load (lbf)













8. Landmark StressCheck Screenshots – Inputs for Intermediate CSG Load Cases

Burst Load Cases

General	
	-
Burst Loads Data	
Drilling Load:	Lost Returns with Water
Fracture at Shoe (MD= 13111.00 ft):	10591 psi
Mud/Water Interface, MD:	0.00 ft
Mud Weight	11.28 ppg
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)
Drilling Load:	Gas Kick Profile
Influx Depth, MD:	23361.00 ft
Kick Volume:	50.0 bbl
Kick Intensity	0.50 ppg
Maximum Mud Weight:	13.50 ppg
Kick Gas Gravity:	0.55 (0.1159 psi/ft @ 182 °F & 9291 psi)
Fracture at Shoe (MD= 13111.00 ft):	10591 psi
Drill Pipe OD:	5.000 in
Collar OD:	5.500 in
Collar Length:	200.00 ft
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)
Drilling Load:	Pressure Test
Test Pressure:	3120 psi
Mud Weight:	10.00 ppg
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)
Drilling Load:	Green Cement Pressure Test
Test Pressure:	2000 psi
Mud Weight at Shoe:	10.00 ppg
TOC, MD:	25.00 ft
Lead Slurry Density:	13.30 ppg
Tail Slurry Density:	13.30 ppg
Tail Slurry Length:	5906.00 ft
Displacement Fluid Density:	10.00 ppg
Float Collar Depth, MD:	12800.00 ft
External Pressure:	Fluid Gradients (w/ Pore Pressure)
TOC, MD:	25.00 ft
Prior Shoe, MD:	1200.00 ft
Mud Weight Above TOC:	10.00 ppg
Fluid Gradient Below TOC:	8.33 ppg
Wellhead Pressure:	13 psi
Pore Pressure In Open Hole:	Yes





.



Collapse Load Cases

General	
	-
Collapse Loads Data	_
Drilling Load:	Cementing
Mud Weight at Shoe:	10.00 ppg
TOC, MD:	25.00 ft
Lead Slurry Density:	13.30 ppg
Tail Slurry Density:	13.30 ppg
Tail Slurry Length:	5906.00 ft
Displacement Fluid Density:	10.00 ppg
Float Collar Depth, MD:	12800.00 ft
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)
Drilling Load:	Lost Returns with Mud Drop
Lost Returns Depth, MD:	13110.89 ft
Pore Pressure at Lost Returns Depth:	8183 psi
Pore Pressure Gradient at Lost Returns Depth:	12.33 ppg
Mud Weight:	13.50 ppg
Mud Drop Level, MD:	1106.39 ft
Assigned External Pressure:	Fluid Gradients (w/ Pore Pressure)
External Pressure:	Fluid Gradients (w/ Pore Pressure)
TOC, MD:	25.00 ft
Prior Shoe, MD:	1200.00 ft
Fluid Gradient Above TOC:	10.00 ppg
Fluid Gradient Below TOC:	10.00 ppg
Wellhead Pressure:	13 psi
Pore Pressure In Open Hole Below TOC:	No

Axial Load Cases

General	
	•
Axial Loads Data	
Overpull Force:	100000 lbf
Pre-Cement Static Load:	Yes
Pickup Force:	0 lbf
Post-Cement Static Load:	Yes
Green Cement Pressure Test:	2000 psi
Service Loads:	Yes





9. Landmark StressCheck Screenshot – Int. Casing Triaxial Results Table (Pressure Test)

		∽ <u>%</u> ∎		11	·		Intermediate C	- I and I							
4	II ···· 😳	MD 🔟 .	X * 🗷			M	- <u> </u>	🖳 🔜 Pre	ssure Test		•				
T	riaxial Resu	lts	Autol	arra (lb0	F (1 k	D ()		Absolute C	afatu Faster			Deesew	(
	Dep	th (MD)		Force (lbf)	Equivalent Axial Load	Bending Stress		Absolute S	afety Factor		Temperature	Pressur	re (psi)	Addt'l Pickup To	Buckle
		(ft)	Apparent (w/Bending)	Actual (w/o Bending)	(lbf)	at OD (psi)	Triaxial	Burst	Collapse (V)	Axial	(°F)	Internal	External	Prevent Buck. (lbf)	Length
2	8	12300	-142410	-17423	-94936	16622.5	1.79	2.10	N/A	(4.09)	178	9505	6732		
2	9	12400	-149639	-24652	-100590	16622.5	1.87	2.25	N/A	(3.89)	179	9555	6970		
3	0	12400	-149640	-24653	-100591	16622.5	1.87	2.25	N/A	(3.89)	179	9555	6970		
3	1	12500	-156448	-31461	-105919	16622.5	1.95	2.42	N/A	(3.72)	180	9603	7193		
3	2	12500	-156449	-31462	-105920	16622.5	1.95	2.42	N/A	(3.72)	180	9603	7193		
3	3	12550	-159630	-34643	-108410	16622.5	1.99	2.50	N/A	(3.64)	180	9625	7298		
3		12550	-159631	-34644	-108411	16622.5	1.99	2.50	N/A	(3.64)	180	9625	7298		
3		12600	-162630	-37643	-110759	16622.5	2.03	2.59	N/A	(3.58)	180	9646	7396		
3		12600	-162631	-37644	-110760	16622.5	2.03	2.59	N/A	(3.58)	180	9646	7396		
3		12650	-165426	-40439	-112949	16622.5	2.07	2.67	N/A	(3.52)	181	9665	7488		
3		12650	-165427	-40440	-112950	16622.5	2.07	2.67	N/A	(3.52)	181	9665	7488		
3		12700	-167997	-43010	-114963	16622.5	2.10	2.76	N/A	(3.46)	181	9683	7573		
4		12700	-167998	-43011	-114963	16622.5	2.10	2.76	N/A	(3.46)	181	9683	7573		
4		12750	-170322	-45335	-116784	16622.5	2.13	2.84	N/A	(3.41)	181	9699	7649		
4		12750	-170323	-45336	-116785	16622.5	2.13	2.84	N/A	(3.41)	181	9699	7649		
4		12800	-172385	-47398	-118401	16622.5	2.16	2.91	N/A	(3.37)	181	9714	7717		
4		12800	-172386	-47399	-118401	16622.5	2.16	2.91	N/A	(3.37)	181	9714	7717		
4		12850	-174169	-49183	-119799	16622.5	2.19	2.98	N/A	(3.34)	182	9726	7775		
4		12850	-174170	-49183	-119800	16622.5	2.19	2.98	N/A	(3.34)	182	9726	7775		
4		12900	-175662	-50675	-120969	16622.5	2.21	3.04	N/A	(3.31)	182	9736	7824		
4		12950	-176851	-51864	-121901	16622.5	2.23	3.09	N/A	(3.29)	182	9745	7863		
4		13000	-177727	-52740	-122588	16622.5	2.24	3.13	N/A	(3.27)	182	9751	7892		
5		13000	-177728	-52741	-122588	16622.5	2.24	3.13	N/A	(3.27)	182	9751	7892		
5		13050	-178285	-53298	-123025	16622.5	2.25	3.15	N/A	(3.26)	182	9755	7910		
5		13111	-178527	-53540	-123214	16622.5	2.25	3.16	N/A	(3.26)	182	9756	7918		

Internal Pressure = Surface Pressure + Hydrostatic = 9756 psi External Pressure = Fluid Gradient w/ Pore Pressure = 7918 psi Burst SF = 3.16

NOTE: Specific load case inputs for the pressure test can be seen in **Section 8** above. The test pressure does not exceed 70% of the minimum internal yield.





10. Intermediate Non-API Casing Spec Sheet



Technical Data Sheet

7 5/8" 26.40 lbs/ft. L80HC - Axis HT

Мес	hanical	Properties	
Minimum Yield Strength	psi.	80,000	
Maximum Yield Strength	psi.	95,000	
Minimum Tensile Strength	psi.	95,000	
	Dimer	nsions	
		Pipe	AXIS HT
Outside Diameter	in.	7.625	8.500
Wall Thickness	in.	0.328	-
Inside Diameter	in.	6.969	-
Standard Drift	in.	6.844	6.844
Alternate Drift	in.	-	-
Plain End Weight	lbs/ft.	-	-
Nominal Linear Weight	lbs/ft.	26.40	-
	Perfor	mance	
		Pipe	AXIS HT
Minimum Collapse Pressure	psi.	4,320	-
Minimum Internal Yield Pressure	psi.	6,020	6,020
Minimum Pipe Body Yield Strength	lbs.	602 x 1,000	-
Joint Strength	lbs.	-	635 x 1,000
M	ake-Up	Torques	
		Pipe	AXIS HT
Optimum Make-Up Torque	ft/lbs.	-	8,000
Maximum Operational Torque	ft/lbs.	-	25,000

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Oxy Bulk Design - Casing Design "A"



11. Production Non-API Casing Spec Sheets

TenarisHyc 461 [®] MS	dril Wedg		Body:	nd: Pale Green 2nd Band: Pa and: - 3rd Band: Pa	ite Ile Green
Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-IC1
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	MS				
Pipe Body Data					
Geometry				Performance	
lominal OD	5.500 in.	Wall Thickness	0.361 in.	Body Yield Strength	729 x1000 I
Nominal Weight	20 lb/ft	Plain End Weight	19.83 lb/ft	Min. Internal Yield Pressure	14,360 ps
Drift	4.653 in.	OD Tolerance	API	SMYS	125,000 ps
Nominal ID	4.778 in.			Collapse Pressure	12,300 ps
Connection Data					
Geometry		Performance		Make-Up Torques	
Connection OD	6.050 in.	Tension Efficiency	100 %	Minimum	17,000 ft-lt
Coupling Length	7.714 in.	Joint Yield Strength	729 x1000 lb	Optimum	18,000 ft-lt
Connection ID	4.778 in.	Internal Pressure Capacity	14,360 psi	Maximum	21,600 ft-lb
Make-up Loss	3.775 in.	Compression Efficiency	100 %	Operation Limit Torques	
Threads per inch	3.40	Compression Strength	729 x1000 lb		42,000,6 1
Connection OD Option	Ms	Max. Allowable Bending	104 °/100 ft	Operating Torque	43,000 ft-lt
		External Pressure Capacity	12,300 psi	Yield Torque	51,000 ft-lt
		Coupling Face Load	273,000 lb	Buck-On	
				Minimum	21.600 ft-lt

Wedge 4410°-5.5 in. - 0.304 / 0.415 / 0.476 in. Wedge 4410°-5.5 in. - 0.304 / 0.415 / 0.476 in. Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchargeable interchangeable

For the lastest performance data, always visit our website: www.tenaris.com

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Generated on May 21, 2024

5.500

4.778

11,100 psi

in.

in.



CONNECTION DATA SHEET

OD: 5.500 in.	Grade: P110
Weight: 20.00 lb/ft	Drift: 4.653 in. (API)
Wall Th.: 0.361 in.	

VAM[®] SPRINT-SF

Semi-Flush

Nominal Wall Thickness	0.361	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	20.00	lb/ft
Plain End Weight	19.83	lb/ft
Drift	4.653	in.
Grade Type	API 5CT	
Minimum Yield Strength	110	ksi
Maximum Yield Strength	140	ksi
Minimum Ultimate Tensile Strength	125	ksi
Pipe Body Yield Strength	641	klb
Internal Yield Pressure	12,640	psi

CONNECTION PROPERTIES -

Collapse Pressure

PIPE BODY PROPERTIES

Nominal OD

Nominal ID

Connection Type	Semi-Pr	emium Integral
Nominal Connection OD	5.783	in.
Nominal Connection ID	4.718	in.
Make-up Loss	5.965	in.
Tension Efficiency	90	% Pipe Body
Compression Efficiency	90	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

JOINT PERFORMANCES

Tension Strength	577	klb
Compression Strength	577	klb
Internal Pressure Resistance	12,640	psi
External Pressure Resistance	11,100	psi
Maximum Bending, Structural	78	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft

to contact us

(1) Sealability rating demonstrated as per API RP 5C5 / ISO 13679



Make-up Torque (ft-lb) 20,000 MIN 22,500 OPTI 25,000 MAX

Torque with Sealability (ft-lb)

Locked Flank Torque (ft-lb)

4,500 MIN 15,750 MAX

(2) MTS: Maximum Torque with Sealability.

36,000 MTS

BOOST YOUR EFFICIENCY, REDUCE COSTS AND ENSURE 100% WELL INTEGRITY WITH VAM[®] FIELD SERVICE



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Plain End: 19.83 PIPE PROPERTIES Nominal 00 5.00 in, Nominal 10 4.778 in, Nominal Vaea 6.828 sign Connection 17 ype See Carled Type APT SCT Connection 10 (rom) 6.4 Min. Yeld Strength 125 ksi Connection 00 (rom) 6.4 Min. Yeld Strength 125 ksi Connection 00 (rom) 6.4 Min. Yeld Strength 125 ksi Compact Jongton 6.4 Min. Termal Velo Dessure File D TOR QUE VALUES Compact Jongton 6.8 Connection Performance Pressure 12.090 psi File D TOR QUE VALUES Yeld Strength 649 kb Min. Make-up torque 17 Connection Performances 12.090 psi Min. Make-up torque 17 Yeld Strength 649 kb Min. Make-up torque 17 Main Internal Vide Pressure 12.090 psi Min. Make-up torque 17 Main Make-up torque 13 Max Max Subular Torque 14 Maxe Matin	Plan End: 19.83 PIPE PROPERTIES CONNECTION PROPERTIES Connection 70 (com) 6 deg Nominal Area 5.500 in Connection 70 (com) 6 deg Connection 70 (com) 6 deg Make Up Loss A PI SCT Make Up Loss A PI SCT Make Up Loss Coupting Length 9 deg Make Up Loss Coupting Length 9 deg Coupting Length 1 deg Make Up Loss Coupting Length 9 deg Coupting Length 1 deg Make Up Loss Coupting Length 1 deg Visid Strength 1 deg Make Up Loss Coupting Length 1 deg Coupting Length 1 deg Make Up Loss Coupting Length 1 deg Coupting Length 1 deg Make Up Loss<	OD (in.) WEI	GHT (lbs./ft.) WALL (in.)	1	GRADE	API DRIFT (in.) RBW%	CONNECTI
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† Maximum Operational Torque and Maximum Torsional Value only valid with Vallourec P110MY Material. ‡ P110MY - Coupling Min Yield Strength is 110ksi and Coupling Max Yield is 125ksi. "VST = Vallourec Star as the mill source for the pipe, "P110EC" is the grade name" Need Help? Contact: tech.support@vam-usa.com For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s). Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection spe dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "*AS IS"* base is a file of the pipe. Mechanical properties of properties or properties for each All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "*AS IS"* base is a properties of mill proprietary pipe mechanical properties for each and properties of properties are advised to obtain current connection specifications and verify pipe mechanical properties for each and the properties of mill proprietary pipe grades or injury resulting from the use thereof; and on an "*AS IS"* base is a properties of properties of properties for each and properties of properties of properties of properties or properties of proper	† Maximum Operational Torque and Maximum Torsional Value only valid with Vallourec P110MY Material. ‡ P110MY - Coupling Min Yield Strength is 110ksi and Coupling Max Yield is 125ksi. "VST = Vallourec Star as the mill source for the pipe, "P110EC" is the grade name" Need Help? Contact: tech.support@vam-usa.com For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s). Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications and are subject to change of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "*AS IS" ba warranty or representation of any kind, whether express or impled, including without limitation any warranty of merchantability, fitness for purpose or completeness. This and its contents are subject to change (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and wheth			91.7	°/100 ft	Max. Deita Turr	0.2
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and its contants are subject to change without notice. In no event shall VAM LISA or its affiliates he reasonable for any indirect encoded insidental subject or any indirect encoded insidental subject of the statement of the st	consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and wheth	Maximum Uniaxial Bend Rating Reference String Length w 1.4 De † Maximum Operational Torr ‡ P110MY - Coupling Min Yiel "VST = Vallourec Star as the m Need Help? Contact: tech.sup For detailed information on Connection specifications withi	que and Maximum Torsional Value d Strength is 110ksi and Coupling M iill source for the pipe, "P110EC" is th port@vam-usa.com performance properties, refer to D in the control of VAM USA were corre	22,890 only valid w lax Yield is 12 he grade nam WC Connec ect as of the o	ft. rith Vallourec 25ksi. we ⁿ tion Data Note date printed. Sp	†Maximum Operational Torque †Maximum Torsional Value (MTV) P110MY Material. es on following page(s). becifications are subject to change without notice	23,8 26,1 e. Certain connection spec









VAM USA 2107 CityWest Boulevard Suite 1300 Houston, TX 77042 Phone: 713-479-3200 Fax: 713-479-3234 VAM[®] USA Sales E-mail: <u>VAMUSAsales@vam-usa.com</u> Tech Support Email: tech.support@vam-usa.com

DWC Connection Data Sheet Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- 2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
 - 3. Connection performance properties are based on nominal pipe body and connection dimensions 4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas
 - 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- 8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection vield torque is not to be exceeded.
- 10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc. 11. DWC connections will accommodate API standard drift diameters.
- 12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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03/04/2024 08:36:50 PM



outlook 🔄

RE: [EXTERNAL] Blanket Design A2 - Bulk Surface Casing Sundry - Gold Log

From Immatty, Keith P <kimmatty@blm.gov>

Date Mon 11/4/2024 11:44 AM

- To Swafford, Kurt D <Kurt_Swafford@oxy.com>
- Cc Pelton, Ben R <Ben_Pelton@oxy.com>; Keith, Kyle <Kyle_Keith@oxy.com>; Reeves, Leslie T <Leslie_Reeves@oxy.com>; Mathew, Roni <Roni_Mathew@oxy.com>

Reviewed and OK as proposed for the listed wells.

Leslie, can we batch sundry these with a priority assignment for 11/13?

Regards,

Keith Immatty

From: Swafford, Kurt D <Kurt_Swafford@oxy.com>
Sent: Monday, November 4, 2024 6:17 AM
To: Immatty, Keith P <kimmatty@blm.gov>
Cc: Pelton, Ben R <Ben_Pelton@oxy.com>; Keith, Kyle <Kyle_Keith@oxy.com>; Reeves, Leslie T <Leslie_Reeves@oxy.com>; Mathew, Roni
<Roni_Mathew@oxy.com>
Subject: [EXTERNAL] Blanket Design A2 - Bulk Surface Casing Sundry - Gold Log

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Hi Keith,

We submitted all the Gold Log APDs just before rolling out our blanket design(s) — we just found that all the original permits approved have 10.75in Surf Csg, however we will need to do 13-3/8in Surf Csg (Blanket Design A2) to give us the contingency option of pivoting to 4S Design (Blanket Design "B").

As such, we are requesting a blanket sundry of surf casing for all wells to 13-3/8in Surf Casing per Blanket Design A2. I have our full upcoming well list below, highlighting surf csg depths (not changing from orig permits/COAS) and showing these are within the approved "Casing Design A" envelope. We will adjust cement volumes as required to meet all requirements with the larger 17.5in hole x 13-3/8in annulus as established w/ Blanket Design.

We are trying to spud these wells with the spudder rig by end of this week — with your email/verbal approval we will route this request w/ blanket sundry ASAP to get this in the system and officially papered up.

Let me know if you have any questions or need anything else to review this---thanks!

Blanket Design A2 - Sundry Well List:

	Ded Norre	A DI#		Surface Cas	ing Depths
Well Name	Pad Name	API#	APD #	MD	TVD
GOLD LOG 4_9 FED COM 3H	LSTTNK-0402	30-025-53808	10400094440	1037	1037
GOLD LOG 4_9 FED COM 4H	LSTTNK-0402	30-025-53816	10400094456	1043	1043
GOLD LOG 4_9 FED COM 16H	LSTTNK-0402	30-025-53811	10400094120	1040	1040
GOLD LOG 4_9 FED COM 25H	LSTTNK-0402	30-025-53813	10400094213	1038	1038
GOLD LOG 4_9 FED COM 26H	LSTTNK-0402	30-025-53814	10400094276	1042	1042
GOLD LOG 4_9 FED COM 22H	LSTTNK-0401	30-025-53818	10400093859	1029	1029
GOLD LOG 4_9 FED COM 23H	LSTTNK-0401	30-025-53812	10400094091	1034	1034
GOLD LOG 4_9 FED COM 1H	LSTTNK-0401	30-025-53815	10400093363	1031	1031
GOLD LOG 4_9 FED COM 2H	LSTTNK-0401	30-025-53807	10400093478	1031	1031
GOLD LOG 4_9 FED COM 12H	LSTTNK-0401	30-025-53809	10400093568	1030	1030
GOLD LOG 4_9 FED COM 13H	LSTTNK-0401	30-025-53817	10400093836	1032	1032

Original Permitted Plan:

		N	ID	TVD					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	14.75	0	1043	0	1043	10.75	45.5	J-55	BTC
Intermediate	9.875	0	9404	0	9238	7.625	26.4	L-80 HC	BTC
Production	6.75	0	20938	0	9998	5.5	20	P-110	Sprint-SF

Revised Plan - Update Surf Csg to Blanket Design A2 (highlighted in Yellow):

Section	Hole Size (in)	MD		TVD					
		From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	17.5	0	1043	0	1043	13.375	54.5	J-55	BTĆ
Intermediate	9.875	0	9404	0	9238	7.625	26.4	L-80 HC	BTĊ
Production	6.75	0	20938	0	9998	5.5	20	P-110	Sprint-SF

Kurt Swafford

Mobile: 281.685.8405 | Houston Greenway 5 - 25.065

Received by OCD: 1/22/2025 7:23:25 AM

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Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	423263
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	1/27/2025
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/27/2025

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Action 423263