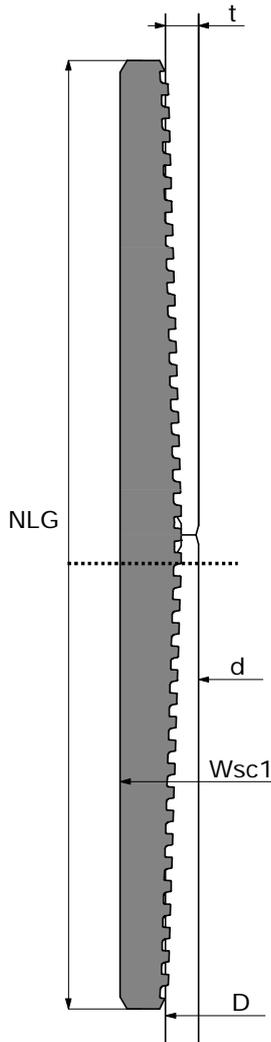


GEOCONN-SC



Geometry

Imperial

S.I.

Pipe Body

Grade	P110		P110	
Pipe OD (D)	5 1/2	in	139.70	mm
Weight	20.00	lb/ft	29.76	kg/m
Wall Thickness (t)	0.361	in	9.17	mm
Pipe ID (d)	4.778	in	121.36	mm
Drift Dia.	4.653	in	118.19	mm

Connection

Coupling OD (Wsc1)	6.050	in	153.67	mm
Coupling Length (NLG)	8.350	in	212.09	mm
Make up Loss	4.125	in	104.78	mm
Pipe Critical Area	5.825	in ²	3,758	mm ²
Box Critical Area	6.102	in ²	3,937	mm ²
Thread Taper	1 / 16 (3/4" per ft)			
Number of Threads	5 TPI			

Performance

Performance Properties for Pipe Body

S.M.Y.S.	641	kips	2,850	kN
M.I.Y.P.	12,640	psi	87.0	MPa
Collapse Strength	11,100	psi	76.5	MPa

Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body
M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body

Performance Properties for Connection

Min. Connection Joint Strength	100% of S.M.Y.S.			
Min. Compression Yield	100% of S.M.Y.S.			
Internal Pressure	100% of M.I.Y.P.			
External Pressure	100% of Collapse Strength			
Max. DLS (deg. /100ft)	>90			

Recommended Torque

Min.	14,600	ft-lb	19,700	N-m
Opti.	16,200	ft-lb	21,900	N-m
Max.	17,800	ft-lb	24,100	N-m
Operational Max.	19,500	ft-lb	26,400	N-m

Note : Operational Max. torque can be applied for high torque application

Connection Yield Torque	22,900	ft-lb	31,000	N-m
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Legal Notice
The use of this information is at the reader/user's risk and no warranty is implied or expressed by Metal One Corporation or its parents, subsidiaries or affiliates (herein collectively referred to as "Metal One") with respect to the use of information contained herein. The information provided on this Connection Data Sheet is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safety-related factors, all of which are the sole responsibility of the operators and users of the subject connectors. Metal One assumes no responsibility for any errors with respect to this information.

Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application
The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.mtlo.co.jp/mo-con/images/top/WebsiteTerms_Active_20333287_1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.

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State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-44866
5. Indicate Type of Lease STATE [] FEE [x]
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Johelen SWD
8. Well Number 1
9. OGRID Number 371643
10. Pool name or Wildcat
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3245' GR

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)
1. Type of Well: Oil Well [] Gas Well [x] Other SWD
2. Name of Operator Solaris Water Midstream, LLC
3. Address of Operator 907 Tradewinds Blvd., Suite B, Midland, TX 79705
4. Well Location Unit Letter N : 975' feet from the South line and 2373' feet from the West line
Section 12 Township 26S Range 26E NMPM County Eddy

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK [] PLUG AND ABANDON []
TEMPORARILY ABANDON [] CHANGE PLANS []
PULL OR ALTER CASING [] MULTIPLE COMPL []
DOWNHOLE COMMINGLE []
CLOSED-LOOP SYSTEM []
OTHER: Packer setting depth [x]
SUBSEQUENT REPORT OF:
REMEDIAL WORK [] ALTERING CASING []
COMMENCE DRILLING OPNS. [] P AND A []
CASING/CEMENT JOB []
OTHER: []

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Solaris would like to request a packer setting depth exception and to repair the original 7-5/8", 39#, P-110, Liberty Flush Joint liner utilizing the attached repair system consisting of a new 9-5/8" liner top packer, 5-1/2" casing, and a 7-5/8" permanent packer.

Spud Date: []

Rig Release Date: []

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE [Signature] TITLE Regulatory Specialist DATE 3/9/23

Type or print name Whitney McKee E-mail address: whitney.mckee@solariswater.com PHONE: 432-203-9020

For State Use Only

APPROVED BY: [] TITLE [] DATE []

Conditions of Approval (if any):

03/09/2023

Johelen SWD #1 Casing Repair Request

Solaris would like to request a packer setting depth exception and to repair the original 7-5/8", 39#, P-110, Liberty Flush Joint liner utilizing the attached repair system consisting of a new 9-5/8" liner top packer, 5-1/2" casing, and a 7-5/8" permanent packer.

This original workover was planned to repair a suspected tubing leak, set an RBP to isolate the formation and packer, and perform a single positive/negative casing test since this is a newly acquired well. The well has a 7-5/8" permanent packer set at 13,198' with a landed seal assembly. The landed seal assembly was stuck in the packer and parted at the stainless-steel crossover directly above the seal assembly when the injection tubing string was pulled out of the hole. The existing permanent packer has an OD (post expansion) that is equal to the ID of the 7-5/8", 39# casing at 6.625". The max OD of the permanent packer at time of running was 6.25". The OD of the drilled open hole section from 13,278' – 14,310' is 6.50". Given the max ODs of the packer, the fish stuck inside the top of the packer, and the extremely tight tolerances with the open section, we deemed it too risky to attempt to fish out the existing permanent packer. If we chose to mill over the slips of the packer, there is no overshot option due to the tolerances and a spear option is questionable with the fish that sheared off inside of the packer and the unknown condition of the top of the fish.

After the injection tubing string was pulled out of hole, a retrievable bridge plug (RBP) was set directly above the permanent packer and fish to isolate the packer and formation. It was found that the RBP was not holding so it was replaced with a new one. A positive pressure test was performed to 1,200 psi with no pressure loss over 30 min. A negative pressure test was performed with the well building to 1,450 psi over 24 hours, failed test. An RTTS style test packer was ran over key possible failure points in the wellbore with the leak appearing to come from the 7-5/8" liner top. A repair 9-5/8" x 7-5/8" liner top (Halliburton Versaflex) was ran on 2023.01.05 to cover the existing Baker 7-5/8" liner top utilizing a Baker seal assembly to sting into the existing 7-5/8" liner top (installation diagram attached). This repair did not fix the leak as there was 350 psi on the wellbore the next morning on 2023.01.06. A positive pressure test was performed to 1,100 psi for 1 hour, good test. An RTTS style test packer was again used to isolate the pressure/leak source as coming from the 7-5/8" liner itself between the RBP (set directly above the permanent packer and fish) and the newly ran 9-5/8" x 7-5/8" liner top (8,678').

With this data of a leak in the 7-5/8" liner, Solaris proposes to pull the existing RBP and run a 9-5/8" liner top x 5-1/2" liner (casing) that will be stung into a newly ran 7-5/8" permanent packer set directly above the existing fish and permanent packer. The proposed repair assembly is attached for reference. The proposed assembly would be cemented in place with 14.5 ppg Class "H" cement + additives for gas control and corrosion resistance. The proposed assembly would cover not only the original 7-5/8" liner top but also the previous liner top repair along with the entirety of the original 7-5/8" casing (liner) down to directly above the original fish and permanent packer. The use of a new liner top as well as the new 7-5/8" permanent packer will create a primary isolation barrier (both top and bottom) for the leak in the 7-5/8" casing along with having cement as an additional barrier. Once a new permanent injection

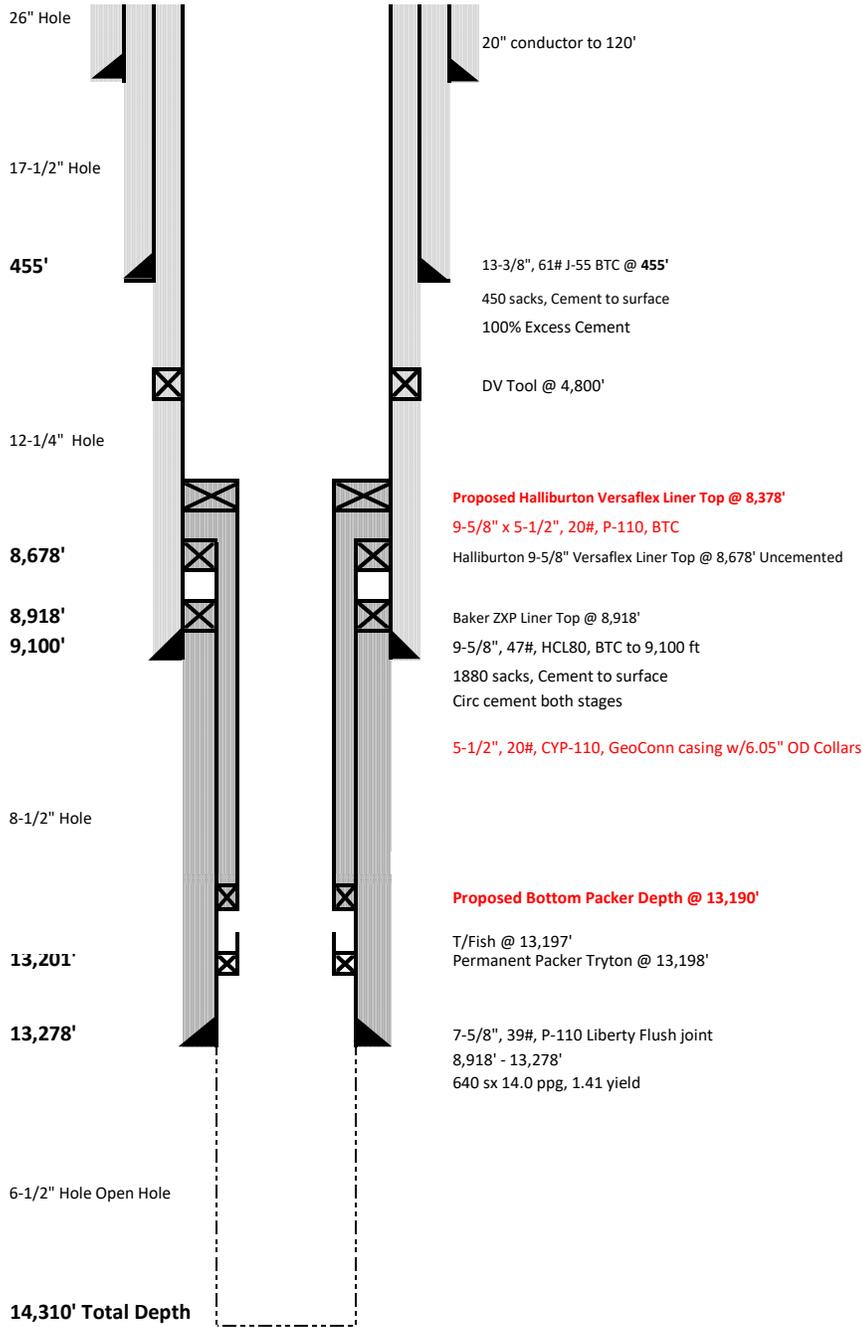
packer and injection tubing is run in hole, this will allow three barriers to exist between the injected fluid and formations uphole of the approved injection formation. Proposed depths of this repair assembly are shown on the attached, proposed WBD.

As previously discussed with Mr. Rose-Coss of the EMNRD, a CBL log of the new 5-1/2" liner will be ran after cementing and installation of the proposed repair assembly. After installation of the repair assembly, an MIT will be called in for witness and subsequently performed to ensure wellbore integrity.

The proposed final injection string is as follows: new 5-1/2" permanent packer will be ran with a 5-1/2", 20#, P-110, BTC, GRE x 3-1/2", 9.3#, L-80, EZGO HT-SWD, IPC injection tubing string with a final crossover point ~200' above the final setting depth of the 9-5/8" repair liner top.

Christopher Giese
Drilling Engineer
Solaris Midstream

Johelen SWD No 1
 975' FSL & 2,373' FWL, UL N, SEC. 12, T-26S R-28E, Eddy County, NM
 API # 30-015-44866



Geologic Tops:	
Lamar	2,012'
Bell Canyon	2,055'
Cherry Canyon	3,043'
Brushy Canyon	4,084'
Bone Spring	5,573'
Dean	8,360'
Wolfcamp	8,736'
Strawn	10,947'
Atoka	11,092'
Morrow	11,870'
Mississippian	12,946'
Woodford	13,231'
Devonian	13,345'

Solaris Midstream

Submitted by:
Eutimia Valdez
432-561-5970
2/1/2023

Prepared for:
Chris Giese
Drilling Engineer



SOLARIS MIDSTREAM - JOHELEN SWD 1 - LINER

WELLBORE DETAILS

Previous Casing

Size	Depth (ft)	Grade	Weight
9 5/8	8678		47
7 5/8	13190		39

Casing

Size	Depth (ft)	Grade	Weight	Thread
9 5/8	8678	HCL80	47	BTC
5 1/2	13190	P-110	20	BTC

TOL

Size	Depth (ft)	Grade	Weight
9 5/8	8378		

Formation

Mud Weight/Type	BH Temp
WBM	176°F BHST
	140°F BHCT



JOB AND FLUID DETAILS

Job Details

Pump 30 bbls of 14.0 ppg Weighted Spacer with Surfactants

Mix and pump 370 sks of Primary slurry mixed @ 14.5 ppg, yielding 469.9 ft³ (83.7 bbls) @ 4 bpm

Shutdown drop DP Plug

Start pumping displacement, pump 115 bbls of fresh water followed by 10 bbls of 14.0 ppg Weighted Spacer and 144.8 bbls of Well Fluid in the drill pipe, totaling 269.8 bbls (actual volume determined on location resulting in 10 bbls of Spacer in DP above liner hanger) Pump displacement @ 4 bpm, slow rate 3 bpm 20 Bbls before landing plug. Bring pressure 1,000 psi over final circulating pressure. Follow Tool Hand's instructions for setting of versaflex liner hanger.

Slurry Properties	Yield (ft ³ /sk)	Density (ppg)	Mix Water (gps)
Primary Cement	1.27	14.5	5.73

Primary Cement Slurry - 370 sks (15% Excess) TOC 8378

60:20:20% Class H Premium:Compass Poz-Mix:CPO-18

STE	4.00 %
Citric Acid	0.10 %
CSA-1000 - Fluid Loss Additive	0.04 %
C-49 Expanding Gas Flow Control	0.20 %
CFL-2	0.30 %



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

CONDITIONS

Action 195259

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 195259
	Action Type: [C-103] NOI General Sundry (C-103X)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	3/21/2023