Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-015-43979

5. Indicate Type of Lease STATE [x] FEE [ ]

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name: Lobo 285 State SWD

1. Type of Well: Oil Well [ ] Gas Well [ ] Other SWD

8. Well Number 1

2. Name of Operator: Solaris Water Midstream, LLC

9. OGRID Number: 371643

3. Address of Operator: 9811 Katy Freeway, Suite 700, Houston, TX 77024

10. Pool name or Wildcat: SWD; Slurian-Ordovican

4. Well Location
Unit Letter A : 330 feet from the North line and 1310 feet from the East line
Section 22 Township 25S Range 28E NMPM Eddy County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*: 2994' GR

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[ ]	CHANGE PLANS	[ ]	COMMENCE DRILLING OPNS.	[ ]	P AND A	[ ]
PULL OR ALTER CASING	[ ]	MULTIPLE COMPL	[ ]	CASING/CEMENT JOB	[ ]		
DOWNHOLE COMMINGLE	[ ]						
CLOSED-LOOP SYSTEM	[ ]						
OTHER:		workover	[x]	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 on the above captioned well. As per the attached, final, completion wellbore diagram, the permanent packer setting depth (center element) is 14,371' which is in the first full length joint of 5-1/2" casing in the repair liner. This places the base of the packer tail pipe 8.5' above the top of fish detailed below. The top of the injection zone (7-5/8" shoe) is 14,533', which would place the proposed packer setting depth at 162' above the top of the injection zone, outside of the typically required 100' window. After installation of the injection packer and injection tubing, a final MIT was called out for witness and subsequently performed to ensure wellbore integrity. Please see below for the history of this workover to date. Please also see the included, approved NOI for the workover, MIT, and bradenhead test.

Spud Date: 2/9/2018 Rig Release Date: 7/10/2018

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 10/12/23

Type or print name Whitney McKee E-mail address: whitney.mckee@ariswater.com PHONE: 281-501-3070

For State Use Only

APPROVED BY: TITLE DATE

Conditions of Approval (if any):

EZGO™ Connection Data Sheet
SWD APPLICATION

Your Requirements

Pipe Size (OD): **3.50 in** Weight: **9.30 lb/ft** Grade: **L-80** Connection: **EZGO™HTGT-SWD**

Material	
Grade	L-80
Minimum Yield Strength	80,000 psi
Minimum Ultimate Strength	95,000 psi

Pipe Dimensions	
Nominal OD	3.5 in
Nominal ID	2.992 in
Nominal Wall Thickness	0.254 in
Nominal Weight	9.30 lbs/ft
Plain End Weight	8.81 lbs/ft
Nominal Pipe Body Area	2.59 sq in

Pipe Body Performance	
Minimum Pipe Body Yield Strength	207,000 lbs
Minimum Collapse Pressure	10,540 psi
Minimum Internal Yield Pressure	10,160 psi
Hydrostatic Test Pressure	9,300 psi

Torque Values	
Minimum Final Torque	500 ft-lbs
The EZGO-HT SWD design concept requires that the connection be made up to shoulder torque	
Maximum final Torque	2000 ft-lbs

EZGO™ Connection Dimensions	
Connection OD	3.875 in
Connection ID	2.942 in
Connection Drift Diameter	2.867 in
Make-Up Loss	3.68 in
Joint Efficiency	100%

EZGO™ Connection Performance	
Joint Strength	207,000 lbs
Compression Rating	207,000 lbs
Collapse Pressure Rating	10,540 psi
Internal Pressure Resistance	10,160 psi
Maximum Uniaxial Bend Rating	72.1°/100 ft

Received by OCD: 10/12/2023 1:58:29 PM

RENEGADE SERVICES

60-Arm Caliper Segmented Metal Thickness Casing Inspection Log

Company	Solaris Midstream
Well	Lobo 285 SWD #1
Field	N/A
County	Eddy
State	NM

Company Solaris Midstream
Well Lobo 285 SWD #1
Field N/A
County Eddy State NM
API #

Location:
SEC TWP RGE

Other Services

Permanent Datum	GL	Elevation N/A
Log Measured From	KB	
Drilling Measured From	KB	

Elevation
K.B. N/A
D.F. N/A
G.L. N/A

Date	2 October 2023	3 October 2023
Run Number	One	Two
Depth Driller	15696'	
Depth Logger	Not Logged	
Bottom Logged Interval	14390'	12490'
Top Log Interval	12450'	Surface
Open Hole Size	N/A	
Type Fluid	N/A	
Density / Viscosity		
Max. Recorded Temp.		
Estimated Cement Top		
Time Well Ready		
Time Logger on Bottom		
Equipment Number		
Location	Snyder, TX	
Recorded By	Adam Webster	
Witnessed By	Tyler Gregory	

Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	13.375"	68#	Surface	2620'
Prot. String	9.875"	62.8#	Surface	10584'
Production String	7.625"	39#	10223'	12622'
Liner	5.5"	23#	12460'	15696'

Processing Applied

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

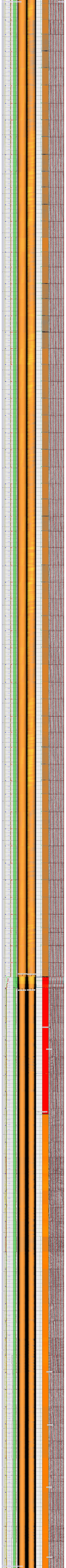
All Measurements are wireline measured from KB.

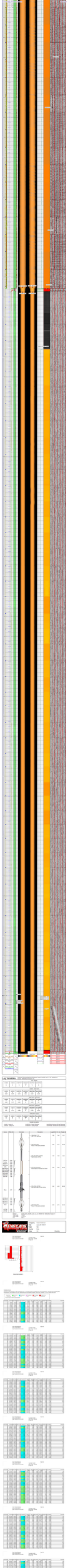
RENEGADE SERVICES

Composite Main Log Pass

Post Processing Applied

Database File	warr8_solaris_lobo285_swd1_cil_55_10022023.db
Dataset Pathname	merge4
Presentation Format	pr60im9625iqmpt_imgcombo_djh
Dataset Creation	Tue Oct 03 12:29:20 2023
Charted by	Depth in Feet scaled 1:240





Log Descriptions

Depth	Description
0.00 - 0.50	Soil
0.50 - 1.00	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
1.00 - 1.50	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
1.50 - 2.00	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
2.00 - 2.50	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
2.50 - 3.00	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
3.00 - 3.50	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
3.50 - 4.00	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
4.00 - 4.50	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
4.50 - 5.00	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
5.00 - 5.50	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
5.50 - 6.00	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
6.00 - 6.50	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
6.50 - 7.00	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
7.00 - 7.50	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.
7.50 - 8.00	Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.

Total Depth: 8.00 m

Logged: 16/05/2011 Checked: 16/05/2011 Approved: Mr Kevin Mc Donnell

Depth	Graphic	Description	Water Loss	Gas	Fluorescence
0.00		Soil			
0.50		Sandstone: Medium grey, very fine grained, quartz, moderately cemented, poor visible porosity, no visible hydrocarbons.			
1.00					
1.50					
2.00					
2.50					
3.00					
3.50					
4.00					
4.50					
5.00					
5.50					
6.00					
6.50					
7.00					
7.50					
8.00					

Total Depth: 8.00 m

Logged: 16/05/2011 Checked: 16/05/2011 Approved: Mr Kevin Mc Donnell

Project: Cross Hill Quarry
Hole: CH-BH-2011-08
Date: 16/05/2011
Scale: 1:50
Depth: 8.00 m

Project: Cross Hill Quarry
Hole: CH-BH-2011-08
Date: 16/05/2011
Scale: 1:50
Depth: 8.00 m

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Date: 16/05/2011
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Date: 16/05/2011
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Date: 16/05/2011
Scale: 1:50
Depth: 8.00 m

Project: Cross Hill Quarry
Hole: CH-BH-2011-08
Date: 16/05/2011
Scale: 1:50
Depth: 8.00 m

Client: Solaris Midstream
Well: Lobo 285 SWD #1
Date: Tue Oct 03 07-37-09 2023
Top Depth: 46.4625
Bottom Depth: 12494.25
Fingers: 60
Field: N/A

Item Number	Top Body	Bottom Body	Max Pen Ins	Max Pen %	Max Pen Depth	Max Loss Ins Sq	Max Loss %	Max Loss Depth	Min Wall Ins	Min Wall %	Comments
160	6982.525	7020.425	8.737	8.233	6983.663	0.340	1.889	6983.612	0.569	91.767	Good
161	7021.375	7064.425	8.816	10.236	7062.900	0.248	1.442	7064.013	0.530	89.764	Fair
162	7065.363	7107.913	8.800	12.204	7105.025	0.396	2.222	7096.938	0.537	87.796	Fair
163	7108.837	7149.563	8.786	14.004	7149.263	0.630	3.427	7109.275	0.544	85.996	Fair
164	7150.500	7194.813	8.816	11.013	7159.487	0.239	1.379	7155.712	0.530	88.987	Fair
165	7195.738	7237.663	8.774	10.261	7221.875	0.328	1.840	7234.813	0.550	89.739	Fair
166	7238.600	7274.650	8.812	13.296	7261.112	0.426	2.386	7261.087	0.531	86.704	Fair
167	7275.575	7317.475	8.753	11.788	7295.700	0.625	3.386	7283.862	0.561	88.212	Fair
168	7318.400	7362.075	8.795	12.494	7359.475	0.459	2.555	7360.900	0.540	87.506	Fair
169	7363.063	7402.587	8.816	12.606	7397.925	0.278	1.577	7387.938	0.530	87.394	Fair
170	7403.512	7439.525	8.779	11.317	7434.163	0.435	2.421	7438.925	0.548	88.683	Fair
171	7440.462	7480.087	8.781	12.641	7467.325	0.501	2.751	7463.112	0.547	87.359	Fair
172	7481.012	7517.587	8.887	14.362	7501.700	0.300	1.781	7492.600	0.494	85.638	Fair
173	7518.525	7560.425	8.777	11.729	7541.325	0.504	2.788	7528.900	0.549	88.271	Fair
174	7561.363	7602.575	8.812	14.680	7573.300	0.502	2.772	7573.663	0.531	85.320	Fair
175	7603.512	7644.250	8.723	8.551	7636.737	0.360	1.967	7611.438	0.576	91.449	Good
176	7645.212	7681.200	8.801	13.649	7664.712	0.490	2.713	7679.625	0.537	86.351	Fair
177	7682.137	7724.250	8.758	10.653	7718.425	0.329	1.809	7692.188	0.558	89.347	Fair
178	7725.212	7765.587	8.847	17.616	7731.900	0.453	2.496	7738.400	0.514	82.384	Fair
179	7766.550	7806.825	8.789	13.436	7780.075	0.526	2.885	7798.000	0.543	86.564	Fair
180	7807.762	7843.725	8.771	11.040	7810.462	0.422	2.338	7810.462	0.552	88.960	Fair
181	7844.675	7886.575	8.742	8.023	7850.300	0.314	1.750	7846.263	0.567	91.977	Good
182	7887.525	7929.625	8.792	12.599	7888.538	0.470	2.608	7888.100	0.542	87.401	Fair
183	7930.563	7974.363	8.759	9.801	7972.388	0.560	3.114	7932.138	0.558	90.199	Good

Client: Solaris Midstream
Well: Lobo 285 SWD #1
Date: Tue Oct 03 07-37-09 2023
Top Depth: 46.4625
Bottom Depth: 12494.25
Fingers: 60
Field: N/A

Item Number	Top Body	Bottom Body	Max Pen Ins	Max Pen %	Max Pen Depth	Max Loss Ins Sq	Max Loss %	Max Loss Depth	Min Wall Ins	Min Wall %	Comments
184	7975.313	8019.325	8.806	10.101	7978.587	0.282	1.626	7975.487	0.535	89.899	Fair
185	8020.275	8062.025	8.780	11.008	8060.375	0.470	2.629	8060.375	0.548	88.993	Fair
186	8062.962	8105.288	8.824	16.653	8072.100	0.580	3.168	8066.013	0.525	83.347	Fair
187	8106.238	8150.575	8.799	12.618	8118.138	0.343	1.914	8108.612	0.538	87.382	Fair
188	8151.563	8193.875	8.702	8.340	8155.813	0.558	3.005	8160.063	0.587	91.660	Good
189	8194.888	8233.962	8.784	12.480	8219.588	0.428	2.360	8218.813	0.545	87.520	Fair
190	8234.913	8277.950	8.807	13.543	8272.987	0.441	2.453	8245.675	0.534	86.457	Fair
191	8278.962	8320.525	8.794	12.982	8286.900	0.526	2.913	8317.975	0.541	87.018	Fair
192	8321.475	8362.138	8.743	8.852	8322.825	0.313	1.732	8331.862	0.566	91.148	Good
193	8363.150	8398.688	8.796	7.606	8372.112	0.222	1.303	8375.987	0.540	92.394	Good
194	8399.638	8436.925	8.788	12.073	8399.775	0.442	2.457	8402.200	0.543	87.927	Fair
195	8437.938	8479.375	8.788	11.518	8477.425	0.394	2.206	8477.862	0.543	88.482	Fair
196	8480.313	8517.950	8.781	9.776	8496.063	0.241	1.363	8517.175	0.547	90.224	Good
197	8518.888	8561.438	8.774	9.468	8544.575	0.299	1.690	8553.862	0.550	90.532	Good
198	8562.450	8603.337	8.764	11.493	8602.300	0.482	2.642	8571.188	0.556	88.507	Fair
199	8604.275	8644.888	8.771	9.136	8605.225	0.207	1.168	8623.612	0.552	90.864	Good
200	8645.850	8685.563	8.859	15.629	8664.500	0.551	3.142	8683.950	0.508	84.371	Fair
201	8686.513	8728.725	8.755	8.658	8727.063	0.267	1.497	8719.750	0.560	91.342	Good
202	8729.725	8772.375	8.745	7.926	8765.375	0.308	1.723	8729.763	0.565	92.074	Good
203	8773.325	8815.625	8.766	10.327	8774.950	0.371	2.064	8782.963	0.555	89.673	Fair
204	8816.625	8859.725	8.746	7.990	8826.063	0.318	1.783	8819.425	0.564	92.010	Good
205	8860.663	8903.175	8.788	10.986	8902.263	0.316	1.777	8866.450	0.543	89.014	Fair
206	8904.125	8947.275	8.768	8.804	8913.463	0.261	1.479	8910.662	0.554	91.196	Good
207	8948.225	8990.075	8.743	7.647	8951.638	0.431	2.419	8950.138	0.566	92.353	Good

Client: Solaris Midstream
Well: Lobo 285 SWD #1
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Bottom Depth: 12494.25
Fingers: 60
Field: N/A

Item Number	Top Body	Bottom Body	Max Pen Ins	Max Pen %	Max Pen Depth	Max Loss Ins Sq	Max Loss %	Max Loss Depth	Min Wall Ins	Min Wall %	Comments
208	8991.013	9029.413	8.822	14.015	9002.750	0.306	1.719	8991.513	0.527	85.985	Fair
209	9030.362	9073.450	8.788	11.553	9043.713	0.329	1.841	9039.513	0.543	88.447	Fair
210	9074.400	9110.938	8.744	7.554	9076.662	0.272	1.530	9081.612	0.565	92.446	Good
211	9111.888	9152.725	8.765	9.369	9120.875	0.262	1.472	9120.487	0.555	90.631	Good
212	9153.663	9197.425	8.771	9.775	9154.338	0.402	2.258	9155.338	0.552	90.225	Good
213	9198.362	9241.075	8.760	9.156	9238.463	0.256	1.435	9234.787	0.557	90.844	Good
214	9242.025	9283.275	8.813	11.656	9275.662	0.271	1.546	9275.662	0.531	88.344	Fair
215	9284.212	9327.025	8.785	11.173	9292.200	0.313	1.755	9292.475	0.545	88.827	Fair
216	9327.975	9364.663	8.781	10.561	9361.537	0.248	1.392	9349.675	0.547	89.439	Fair
217	9365.700	9407.825	8.800	11.748	9405.800	0.294	1.656	9398.225	0.537	88.252	Fair
218	9408.775	9451.138	8.786	8.852	9434.938	0.245	1.406	9412.362	0.544	91.148	Good
219	9452.138	9496.138	8.792	9.818	9459.300	0.175	0.999	9459.275	0.542	90.182	Good
220	9497.075	9539.063	8.780	10.542	9517.737	0.520	2.921	9499.487	0.548	89.458	Fair
221	9540.000	9583.462	8.763	9.089	9570.350	0.290	1.628	9547.463	0.556	90.911	Good
222	9584.400	9623.975	8.788	12.362	9622.050	0.523	2.900	9620.563	0.543	87.638	Fair
223	9624.962	9662.138	8.772	10.608	9629.350	0.390	2.172	9628.362	0.551	89.392	Fair
224	9663.075	9705.663	8.774	8.868	9682.025	0.156	0.886	9698.912	0.550	91.132	Good
225	9706.650	9746.987	8.785	11.337	9745.563	0.309	1.727	9721.713	0.545	88.663	Fair
226	9747.950	9781.875	8.762	9.606	9753.325	0.368	2.053	9748.737	0.556	90.394	Good
227	9782.813	9826.712	8.753	8.756	9812.362	0.407	2.273	9784.088	0.561	91.244	Good
228	9827.663	9869.938	8.796	12.654	9868.375	0.420	2.337	9867.537	0.540	87.346	Fair
229	9870.888	9913.712	8.786	11.726	9911.975	0.447	2.494	9872.838	0.544	88.274	Fair
230	9914.650	9957.563	8.827	14.037	9956.162	0.262	1.475	9956.612	0.524	85.963	Fair
231	9958.500	10000.750	8.754	10.244	9997.513	0.385	2.120	9969.313	0.561	89.756	Fair

Client: Solaris Midstream
Well: Lobo 285 SWD #1
Date: Tue Oct 03 07-37-09 2023
Top Depth: 46.4625
Bottom Depth: 12494.25
Fingers: 60
Field: N/A

Item Number	Top Body	Bottom Body	Max Pen Ins	Max Pen %	Max Pen Depth	Max Loss Ins Sq	Max Loss %	Max Loss Depth	Min Wall Ins	Min Wall %	Comments
232	10001.700	10044.800	8.787	10.983	10016.213	0.328	1.844	10034.850	0.544	89.017	Fair
233	10045.763	10088.325	8.775	10.699	10046.250	0.313	1.748	10077.688	0.550	89.301	Fair
234	10089.325	10123.625	8.743	8.204	10094.362	0.219	1.222	10096.737	0.566	91.796	Good
235	10124.613	10168.300	8.897	20.655	10134.412	1.932	10.779	10134.400	0.489	79.345	Bad
236	10169.237	10211.525	8.771	10.859	10200.925	0.364	2.023	10179.188	0.552	89.141	Fair
237	10212.463	10247.544	8.807	12.880	10245.013	0.311	1.747	10222.912	0.534	87.120	Fair
238	10278.651	10321.137	6.720	16.683	10308.112	0.946	7.830	10284.475	0.453	83.317	Fair
239	10322.137	10364.957	6.763	24.476	10354.563	1.479	11.698	10354.563	0.431	75.524	Bad
240	10365.957	10408.610	6.691	15.791	10394.350	1.147	9.313	10391.912	0.467	84.209	Fair
241	10409.610	10451.594	6.711	18.272	10448.013	1.260	10.153	10436.213	0.457	81.728	Fair
242	10452.594	10495.916	6.785	27.813	10458.963	1.736	13.487	10490.513	0.420	72.187	Bad
243	10496.916	10540.070	6.706	17.064	10528.875	1.168	9.493	10507.225	0.460	82.936	Fair
244	10541.070	10583.054	6.777	21.982	10548.025	0.978	8.085	10548.063	0.424	78.018	Bad
245	10584.054	10626.373	6.764	19.579	10594.588	0.816	6.847	10621.338	0.431	80.421	Fair
246	10627.373	10669.190	6.733	16.910	10642.638	0.856	7.164	10642.537	0.446	83.090	Fair
247	10670.190	10707.658	6.691	16.695	10673.625	1.275	10.250	10674.213	0.467	83.305	Fair
248	10708.658	10749.805	6.671	22.482	10747.100	2.367	17.466	10747.100	0.477	77.518	Bad
249	10750.805	10794.295	6.710	21.947	10791.075	1.784	13.767	10791.075	0.457	78.053	Bad
250	10795.295	10827.912	6.675	18.929	10826.875	1.777	13.716	10816.350	0.475	81.071	Fair
251	10828.912	10871.565	6.767	25.709	10829.575	1.727	13.510	10830.025	0.429	74.291	Bad
252	10872.565	10911.372	6.568	14.992	10907.162	2.487	18.179	10911.375	0.529	85.008	Fair
253	10912.372	10949.171	6.479	12.821	10933.925	3.196	22.211	10949.175	0.573	87.179	Fair
254	10950.171	10993.158	6.746	19.959	10957.612	1.078	8.829	10972.375	0.440	80.041	Fair
255	10994.158	11037.146	6.668	14.229	11012.862	1.217	9.827	11012.850	0.478	85.771	Fair

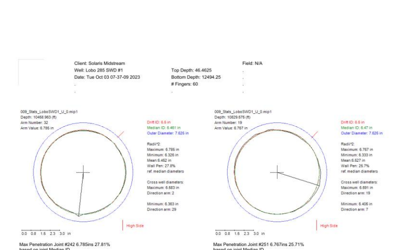
Client: Solaris Midstream
Well: Lobo 285 SWD #1
Date: Tue Oct 03 07-37-09 2023
Top Depth: 46.4625
Bottom Depth: 12494.25
Fingers: 60
Field: N/A

Item Number	Top Body	Bottom Body	Max Pen Ins	Max Pen %	Max Pen Depth	Max Loss Ins Sq	Max Loss %	Max Loss Depth	Min Wall Ins	Min Wall %	Comments
256	11038.146	11081.468	6.660	13.771	11039.063	1.241	9.986	11039.162	0.483	86.229	Fair
257	11082.468	11125.455	6.726	17.698	11124.350	1.016	8.368	11124.537	0.450	82.302	Fair
258	11126.455	11168.941	6.732	16.505	11155.912	0.811	6.812	11164.213	0.447	83.495	Fair
259	11169.941	11213.263	6.651	16.746	11178.675	1.756	13.570	11178.675	0.487	83.254	Fair
260	11214.263	11256.749	6.721	22.678	11238.763	1.791	13.850	11238.700	0.452	77.322	Bad
261	11257.749	11300.402	6.713	15.569	11258.412	0.910	7.573	11294.313	0.456	84.431	Fair
262	11301.402	11344.389	6.717	16.726	11302.862	1.020	8.413	11344.325	0.454	83.274	Fair
263	11345.389	11387.707	6.696	18.842	11375.050	1.511	11.916	11375.013	0.464	81.158	Fair
264	11388.707	11431.695	6.640	15.528	11400.963	1.709	13.251	11400.963	0.493	84.472	Fair
265	11432.695	11475.348	6.677	19.646	11446.025	1.855	14.225	11446.025	0.474	80.354	Fair
266	11476.348	11519.001	6.724	16.855	11477.963	0.922	7.647	11478.737	0.451	83.145	Fair
267	11520.001	11562.654	6.719	17.529	11522.263	1.068	8.744	11525.525	0.453	82.471	Fair
268	11563.654	11606.641	6.657	15.387	11579.987	1.490	11.756	11597.662	0.484	84.613	Fair
269	11607.641	11649.124	6.728	17.832	11646.625	1.013	8.347	11630.888	0.448	82.168	Fair
270	11650.124	11687.592	6.655	17.087	11676.013	1.751	13.534	11676.013	0.485	82.913	Fair
271	11688.592	11731.412	6.704	17.205	11717.063	1.209	9.785	11727.037	0.461	82.795	Fair
272	11732.412	11774.730	6.770	22.354	11736.675	1.169	9.555	11746.525	0.428	77.646	Bad
273	11775.730	11817.882	6.679	16.379	11795.125	1.370	10.919	11795.125	0.473	83.621	Fair
274	11818.882	11861.869	6.656	17.523	11847.388	1.808	13.918	11858.662	0.484	82.477	Fair
275	11862.869	11905.355	6.628	14.225	11868.675	1.669	12.980	11868.675	0.499	85.775	Fair
276	11906.355	11949.342	6.645	16.907	11921.350	1.848	14.176	11921.350	0.490	83.093	Fair
277	11950.342	11993.497	6.630	13.215	11992.900	1.509	11.880	11992.900	0.497	86.785	Fair
278	11994.497	12036.648	6.710	19.219	12003.963	1.394	11.100	12003.963	0.457	80.781	Fair
279	12037.648	12080.970	6.641	13.970	12080.375	1.483	11.707	12080.375	0.492	86.030	Fair

Client: Solaris Midstream
Well: Lobo 285 SWD #1
Date: Tue Oct 03 07-37-09 2023
Top Depth: 46.4625
Bottom Depth: 12494.25
Fingers: 60
Field: N/A

Item Number	Top Body	Bottom Body	Max Pen Ins	Max Pen %	Max Pen Depth	Max Loss Ins Sq	Max Loss %	Max Loss Depth	Min Wall Ins	Min Wall %	Comments
280	12081.970	12124.289	6.639	14.232	12124.287	1.542	12.110	12124.287	0.493	85.768	Fair
281	12125.289	12168.276	6.663	14.725	12125.563	1.340	10.706	12125.612	0.481	85.275	Fair
282	12169.276	12211.595	6.634	15.905	12186.162	1.834	14.079	12186.162	0.496	84.095	Fair
283	12212.595	12255.415	6.635	16.793	12255.412	1.949	14.831	12255.412	0.495	83.207	Fair
284	12256.415	12299.068	6.679	17.550	12281.175	1.581	12.406	12283.638	0.474	82.450	Fair
285	12300.068	12342.554	6.725	20.849	12316.963	1.454	11.539	12321.313	0.450	79.151	Bad
286	12343.554	12385.537	6.628	16.242	12346.075	1.953	14.859	12346.075	0.499	83.758	Fair
287	12386.537	12430.696	6.631	15.445	12423.862	1.804	13.881	12423.862	0.497	84.555	Fair
288	12431.696	12473.512	6.678	15.488	12455.125	1.268	10.195	12455.125	0.474	84.512	Fair
289	12474.512	12489.232	6.666	17.191	12476.787	1.643	12.819	12476.800	0.480	82.809	Fair

Client: Solaris Midstream
Well: Lobo 285 SWD #1
Date: Tue Oct 03 07-37-09 2023
Top Depth: 46.4625
Bottom Depth: 12494.25
Fingers: 60
Field: N/A

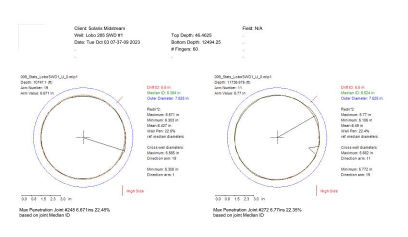


Max Penetration Joint #242 6.785ins 27.81% based on joint Median ID

Max Penetration Joint #251 6.767ins 25.71% based on joint Median ID

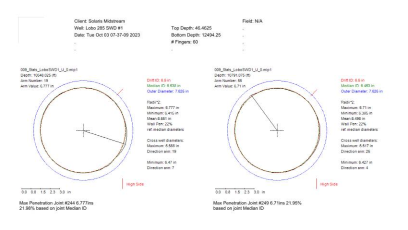
Max Penetration Joint #239 6.763ins 24.48% based on joint Median ID

Max Penetration Joint #260 6.721ins 22.68% based on joint Median ID



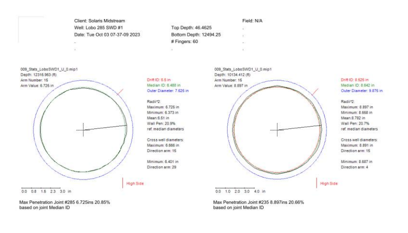
Max Penetration Joint #248 6.671ins 22.48% based on joint Median ID

Max Penetration Joint #272 6.77ins 22.35% based on joint Median ID



Max Penetration Joint #244 6.777ins 21.98% based on joint Median ID

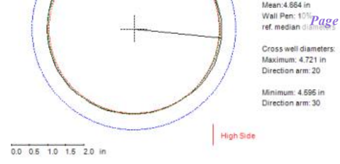
Max Penetration Joint #249 6.71ins 21.95% based on joint Median ID



Max Penetration Joint #285 6.725ins 20.85% based on joint Median ID

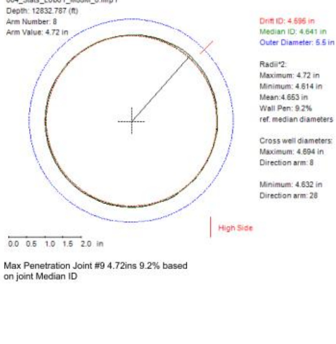
Max Penetration Joint #235 6.897ins 20.66% based on joint Median ID

Max Penetration Joint #10 4.726ins 10.71% based on joint Median ID

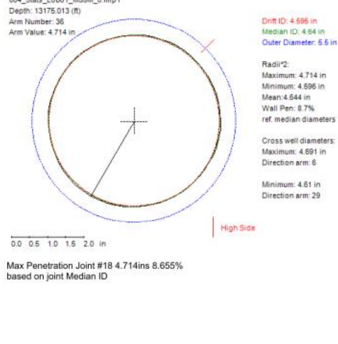


Max Penetration Joint #4 4.743ins 9.983% based on joint Median ID

Date: Mon Oct 02 21-32-00 2023
Top Depth: 12450
Bottom Depth: 14395
Fingers: 60

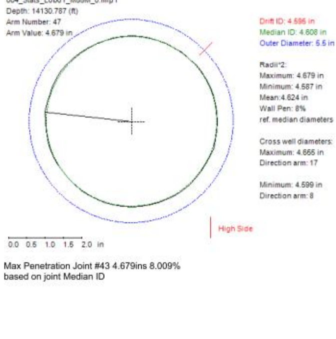


Max Penetration Joint #9 4.72ins 9.2% based on joint Median ID

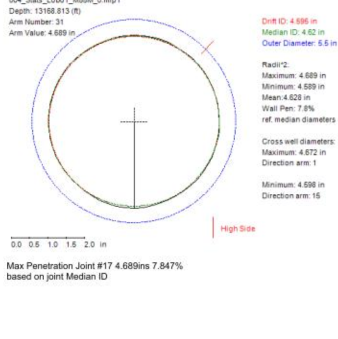


Max Penetration Joint #18 4.714ins 8.655% based on joint Median ID

Date: Mon Oct 02 21-32-00 2023
Top Depth: 12450
Bottom Depth: 14395
Fingers: 60

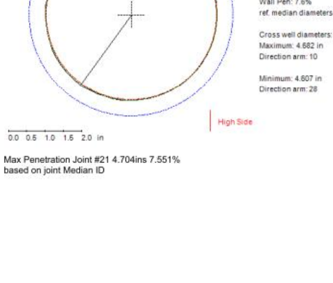


Max Penetration Joint #43 4.679ins 8.009% based on joint Median ID

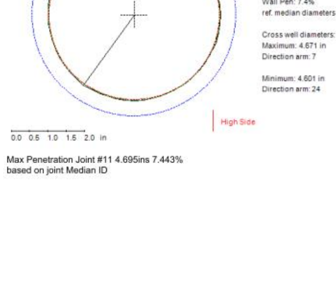


Max Penetration Joint #17 4.689ins 7.847% based on joint Median ID

Date: Mon Oct 02 21-32-00 2023
Top Depth: 12450
Bottom Depth: 14395
Fingers: 60

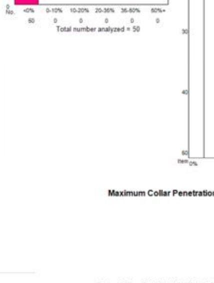


Max Penetration Joint #21 4.704ins 7.551% based on joint Median ID



Max Penetration Joint #11 4.695ins 7.443% based on joint Median ID

Date: Mon Oct 02 21-32-00 2023
Top Depth: 12450
Bottom Depth: 14395
Fingers: 60



Maximum Collar Penetration %

Date: Mon Oct 02 21-32-00 2023
Top Depth: 12450
Bottom Depth: 14395
Fingers: 60

Collar pen & loss

Extended Joint Collar Penetration - MIPS JointAnalysisX v2.57; C:\Users\hutch\OneDrive - Renegade Services\Desktop\MIPs Projects\Solaris_Lobo 285 SWD #1 CIL 10022023 \Project\processing\MFC\Lobo1_M55M\004_Stats_Lobo1_M55M_0.mip1

Less than 0 — Possible Scale; From 0 to 10 — Good; From 10 to 20 — Fair; From 20 to 35 — Bad; From 35 to 50 — Severe; Greater than 50 — Possible hole

Pipe grading based on Max Percentage Penetration

Item Number	Top Collar	Bottom Collar	Max Pen Ins	Max Pen %	Max Pen Depth	Max Loss Ins Sq	Max Loss %	Max Loss Depth	Min Wall Ins	Min Wall %	Comments
1	12486.594	12487.594	4.704	0.000	12487.313	-6.426	0.000	12487.600	0.418	100.000	
2	12526.719	12527.719	4.680	0.000	12526.737	-6.414	0.000	12527.463	0.430	100.000	
3	12567.928	12568.928	4.679	0.000	12568.925	-6.452	0.000	12568.925	0.431	100.000	
4	12608.595	12609.595	4.693	0.000	12609.537	-6.373	0.000	12609.537	0.424	100.000	
5	12642.394	12643.394	4.695	0.000	12643.112	-6.292	0.000	12643.112	0.422	100.000	
6	12685.049	12686.049	4.681	0.000	12685.487	-6.429	0.000	12685.638	0.429	100.000	
7	12724.631	12725.631	4.687	0.000	12725.237	-6.402	0.000	12725.588	0.427	100.000	
8	12766.744	12767.744	4.698	0.000	12767.525	-6.405	0.000	12767.537	0.421	100.000	
9	12809.580	12810.580	4.687	0.000	12810.438	-6.463	0.000	12810.425	0.427	100.000	
10	12851.874	12852.874	4.701	0.000	12852.875	-6.492	0.000	12852.813	0.419	100.000	
11	12893.444	12894.444	4.671	0.000	12894.112	-6.534	0.000	12893.662	0.434	100.000	
12	12931.581	12932.581	4.672	0.000	12932.438	-6.510	0.000	12932.300	0.434	100.000	
13	12972.067	12973.067	4.668	0.000	12973.037	-6.595	0.000	12973.037	0.436	100.000	
14	13012.372	13013.372	4.673	0.000	13012.763	-6.602	0.000	13012.375	0.434	100.000	
15	13050.328	13051.328	4.652	0.000	13051.313	-6.685	0.000	13051.313	0.444	100.000	

Date: Mon Oct 02 21-32-00 2023
Top Depth: 12450
Bottom Depth: 14395
Fingers: 60

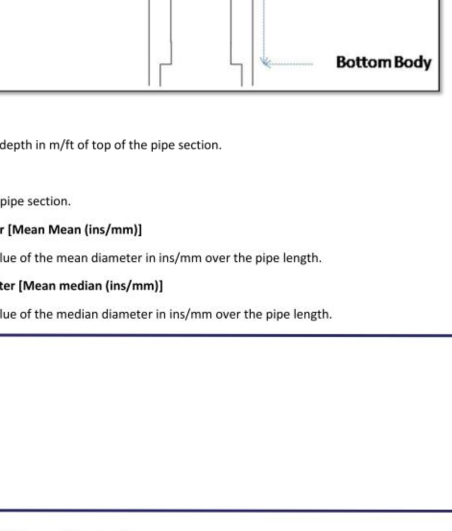
Item Number	Top Collar	Bottom Collar	Max Pen Ins	Max Pen %	Max Pen Depth	Max Loss Ins Sq	Max Loss %	Max Loss Depth	Min Wall Ins	Min Wall %	Comments
16	13089.549	13090.549	4.654	0.000	13090.338	-6.567	0.000	13090.525	0.443	100.000	
17	13130.577	13131.577	4.655	0.000	13130.700	-6.587	0.000	13131.513	0.442	100.000	
18	13172.871	13173.871	4.703	0.000	13173.775	-6.445	0.000	13173.800	0.418	100.000	
19	13211.007	13212.007	4.664	0.000	13211.650	-6.591	0.000	13212.013	0.438	100.000	
20	13249.325	13250.325	4.659	0.000	13250.325	-6.576	0.000	13250.325	0.441	100.000	
21	13292.160	13293.160	4.668	0.000	13293.138	-6.552	0.000	13293.100	0.436	100.000	
22	13331.201	13332.201	4.696	0.000	13331.325	-6.525	0.000	13331.237	0.422	100.000	
23	13368.253	13369.253	4.671	0.000	13369.162	-6.471	0.000	13369.162	0.434	100.000	
24	13410.727	13411.727	4.675	0.000	13411.725	-6.479	0.000	13411.713	0.432	100.000	
25	13450.490	13451.490	4.678	0.000	13451.362	-6.394	0.000	13451.313	0.431	100.000	
26	13489.169	13490.169	4.683	0.000	13489.175	-6.513	0.000	13489.175	0.428	100.000	
27	13523.148	13524.148	4.666	0.000	13523.688	-6.522	0.000	13524.075	0.437	100.000	
28	13564.900	13565.900	4.673	0.000	13565.850	-6.418	0.000	13565.850	0.434	100.000	
29	13603.578	13604.578	4.683	0.000	13603.763	-6.423	0.000	13604.463	0.428	100.000	
30	13642.980	13643.980	4.661	0.000	13643.075	-6.620	0.000	13643.950	0.440	100.000	
31	13676.056	13677.056	4.690	0.000	13676.850	-6.439	0.000	13677.013	0.425	100.000	
32	13715.096	13716.096	4.682	0.000	13716.088	-6.435	0.000	13715.963	0.429	100.000	
33	13748.946	13749.946	4.692	0.000	13749.625	-6.436	0.000	13749.412	0.424	100.000	
34	13786.230	13787.230	4.666	0.000	13787.225	-6.556	0.000	13786.963	0.437	100.000	
35	13820.679	13821.679	4.674	0.000	13821.513	-6.465	0.000	13821.525	0.433	100.000	
36	13854.986	13855.986	4.709	0.000	13855.787	-6.453	0.000	13855.813	0.415	100.000	
37	13891.137	13892.137	4.672	0.000	13891.813	-6.490	0.000	13891.688	0.434	100.000	
38	13928.421	13929.421	4.677	0.000	13929.250	-6.493	0.000	13929.350	0.431	100.000	
39	13969.816	13970.816	4.676	0.000	13970.412	-6.437	0.000	13970.425	0.432	100.000	

Date: Mon Oct 02 21-32-00 2023
Top Depth: 12450
Bottom Depth: 14395
Fingers: 60

Item Number	Top Collar	Bottom Collar	Max Pen Ins	Max Pen %	Max Pen Depth	Max Loss Ins Sq	Max Loss %	Max Loss Depth	Min Wall Ins	Min Wall %	Comments
40	14008.802	14009.802	4.656	0.000	14009.800	-6.548	0.000	14009.800	0.442	100.000	
41	14048.921	14049.921	4.681	0.000	14049.900	-6.461	0.000	14049.763	0.429	100.000	
42	14091.252	14092.252	4.662	0.000	14091.250	-6.564	0.000	14091.250	0.439	100.000	
43	14129.447	14130.447	4.677	0.000	14130.450	-6.703	0.000	14130.450	0.431	100.000	
44	14164.723	14165.723	4.653	0.000	14165.463	-6.628	0.000	14165.725	0.444	100.000	
45	14200.485	14201.485	4.661	0.000	14201.263	-6.570	0.000	14201.162	0.440	100.000	
46	14234.422	14235.422	4.658	0.000	14234.612	-6.656	0.000	14235.175	0.441	100.000	
47	14268.481	14269.481	4.663	0.000	14269.362	-6.571	0.000	14269.475	0.438	100.000	
48	14303.392	14304.392	4.644	0.000	14303.425	-6.728	0.000	14303.425	0.448	100.000	
49	14341.465	14342.465	4.652	0.000	14342.263	-6.636	0.000	14342.263	0.444	100.000	
50	14374.551	14375.551	4.660	0.000	14374.888	-6.609	0.000	14375.263	0.440	100.000	

Definition of Terms in Pipe Analysis Report

Pipe Dimensions



Top Body (ft/m)

Processed measured depth in m/ft of top of the pipe section.

Body Length (ft/m)

Length in m/ft of the pipe section.

Mean mean diameter [Mean Mean (ins/mm)]

The mean average value of the mean diameter in ins/mm over the pipe length.

Mean median diameter [Mean median (ins/mm)]

The mean average value of the median diameter in ins/mm over the pipe length.

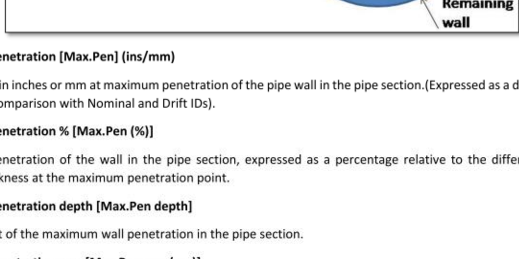
Mean remaining wall [Mean wall (ins/mm)]

The average remaining wall thickness in ins/mm of this pipe length.

Mean remaining wall [Mean wall (%)]

The average remaining wall thickness in % of nominal thickness of this pipe length.

Maximum Penetration



Maximum penetration [Max.Pen] (ins/mm)

Twice radius in inches or mm at maximum penetration of the pipe wall in the pipe section.(Expressed as a diameter - twice radius - for comparison with Nominal and Drift IDs).

Maximum penetration % [Max.Pen (%)]

Maximum penetration of the wall in the pipe section, expressed as a percentage relative to the difference between Nominal thickness at the maximum penetration point.

Maximum penetration depth [Max.Pen depth]

Depth in m/ft of the maximum wall penetration in the pipe section.

Maximum penetration arm [Max.Pen arm (no.)]

Arm number with maximum wall penetration in the pipe section.

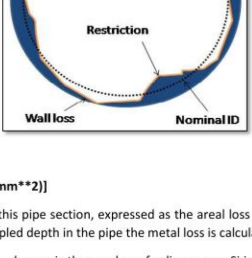
Minimum remaining wall [Min Wall (ins/mm)]

Minimum wall thickness in the pipe section in inches or mm. Negative value implies wall is fully penetrated.

Minimum remaining wall % [Min Wall (%)]

Minimum wall thickness in the pipe section as % of wall thickness at maximum penetration point. Negative value implies wall is fully penetrated.

Wall Loss



Maximum loss [Max.Loss (ins2 or mm**2)]**

The maximum value of metal loss in this pipe section, expressed as the areal loss of wall relative to the outer diameter and nominal diameters. For each sampled depth in the pipe the metal loss is calculated as:

Absolute wall loss = $(\pi/4n)\Sigma(Si^2 - ID^2)$, where n is the number of caliper arms, Si is twice the radius measured by caliper arm i, ID is the Nominal ID of the pipe.

The joint analysis module reports the maximum of the wall loss in the pipe section independent of the maximum penetration.

Maximum loss % [Max.Loss (%)]

The maximum value of metal loss in the pipe, expressed as the percentage areal loss of wall relative to the outer diameter and nominal diameters. For each sampled depth in the pipe the loss is calculated as:

Percentage wall loss = $(100/n)\ \Sigma(Si^2-ID^2)/(OD^2-ID^2)$, where n is the number of caliper arms, Si is twice the radius measured by caliper arm i, ID is the Nominal ID of the pipe.

Maximum Loss depth [Max.Loss Depth]

Depth in m/ft of maximum metal loss in the pipe.

Mean Wall Loss [Mean Loss (%)]

The mean average value of the areal wall loss wrt inner and outer nominal diameters over the pipe length (%).

Restriction volume (ins3 or m*3)**

The integrated restriction in cubic inches or mm or cubic metres of the borehole over this pipe length.

Restriction volume (%)

The integrated restriction of the borehole as a %age of the bore volume over this pipe length Restrictions.

Minimum radial restriction [Min Res (ins/mm)]

Smallest arm reading in inches or mm in the pipe section, (expressed as twice radius for comparison with Nominal and Drift IDs).

Minimum radial restriction % [Min Res (%)]

Smallest arm reading in the pipe section, expressed as a percentage relative to the Nominal ID and Outer diameters. If a negative percentage is reported, the minimum radius is smaller than the Nominal Inside Radius of the pipe.

Minimum radial restriction depth [Min Res. Depth]

Depth in m/ft of smallest arm reading in the pipe section.

Minimum radial restriction arm [Min. Res. arm]

Arm number showing minimum radial restriction in the pipe section.

Minimum radial restriction orientation [Min. Res. dirn]

Orientation in degrees of arm with minimum radial restriction in the pipe section. *Tool upside curve required in input .mip1 data file.

Maximum wall thickness [Max Wall (Ins/mm)]

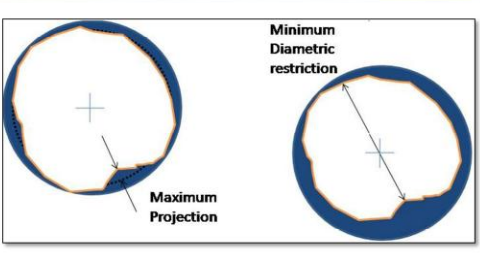
Maximum wall thickness in the pipe section in inches or mm.

Maximum remaining wall % [Max Wall (%)]

Maximum wall thickness in the pipe section as %age of wall thickness at minimum restriction point.

Maximum projection [Max Proj (ins/mm)].

Largest projection into the well bore from the pipe wall in ins/mm based on Nominal IR.



Maximum projection % [Max Proj (%)].

Largest projection into the well bore from the pipe wall as a %age of Nominal IR.

Minimum diametric restriction [Min Diam. (ins/mm)]

Smallest diameter in inches or mm of the pipe section measured on opposing arms.

Minimum diametric restriction % [Min Diam. (%)]

Smallest diameter in the pipe section measured on opposing arms as a %age of Nominal ID.

Minimum diametric restriction depth [Min Diam. Depth]

Depth of smallest diameter in the pipe section measured on opposing arms

Minimum diametric restriction arm [Min Diam. arm]

First arm with smallest diameter in the pipe section measured on opposing arms

Minimum diametric restriction orientation [Min Diam. dirn]

Orientation in degrees of first arm with smallest diameter in the pipe section measured on opposing arms. *Tool upside curve required in input .mip1 data file.

District I
1625 N French Dr, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division Hobbs District Office

BRADENHEAD TEST REPORT

Operator Name	API Number
Solaris Water Midstream	30-015-43979
Property Name	**Well No.**
Lobo 285 SWD	#1

Surface Location

UL - Lot	Section	Township	Range		Feet from	N/S Line	Feet From	E/W Line	County
A	22	25-S	28-E		330	N	1310	E	Eddy

Well Status

TA'D WELL	SHUT-IN	INJECTOR	PRODUCER	DATE
YES NO (NO)	YES (YES) NO	INJ SWD (SWD)	OIL GAS	10·11·2023

OBSERVED DATA

	(A)Surface	(B)Interm(1)	(C)Interm(2)	(D)Prod Csng	(E)Tubing
Pressure	Cemented	Cemented		Zero	Zero
Flow Characteristics					
Puff	Y / N	Y / N	Y / N	Y / (N)	CO2 ___
Steady Flow	Y / N	Y / N	Y / N	Y / (N)	WTR ✓
Surges	Y / N	Y / N	Y / N	Y / (N)	GAS ___
Down to nothing	Y / N	Y / N	Y / N	(Y) / N	Type of Fluid Injected for Waterflood if applies.
Gas or Oil	Y / N	Y / N	Y / N	Y / (N)	
Water	Y / N	Y / N	Y / N	Y / (N)	

Remarks -- Please state for each string (A,B,C,D,E) pertinent information regarding bleed down or continuous build up if applies.

		OIL CONSERVATION DIVISION
Signature:		
Printed name: Tyler Gregory		Entered into RBDMS
Title: Workover Consultant		Re-test
E-mail Address: tyler.gregory93@yahoo.com		
Date: 10·11·2023	Phone: 318-519-0112	
	Witness:	

INSTRUCTIONS ON BACK OF THIS FORM

Charts ltd.

CALIBRATION CERTIFICATE

Cert Date; 9/22/2023
Due Date: 9/22/2024

Customer: MAN WELDING
Model: RECORDER 8"
serial: 8463

This is to certify that this instrument has been inspected and tested against ADDITEL Digital Gauge ADT680-GP30K, SN: 218183B0028 Calibrated (03/30/2023) Due Date (03/30/2025) Reference Standard used in this calibration are traceable to the SI Units through NIST. This calibration is compliant to ISO/IEC 17025:2017 and ANSI/NCSL Z540-

This instrument is cerified to be accurate within +/- 1% of Full Scale

Input Type/ Range: 1000# **Color: Red**
Pen Number: 2

		Descending	
Applied:	Reading:	Applied:	Reading:
0	0	1007	1000
200	200	800	800
501	500	501	500
801	800	200	200
1007	1000	0	0

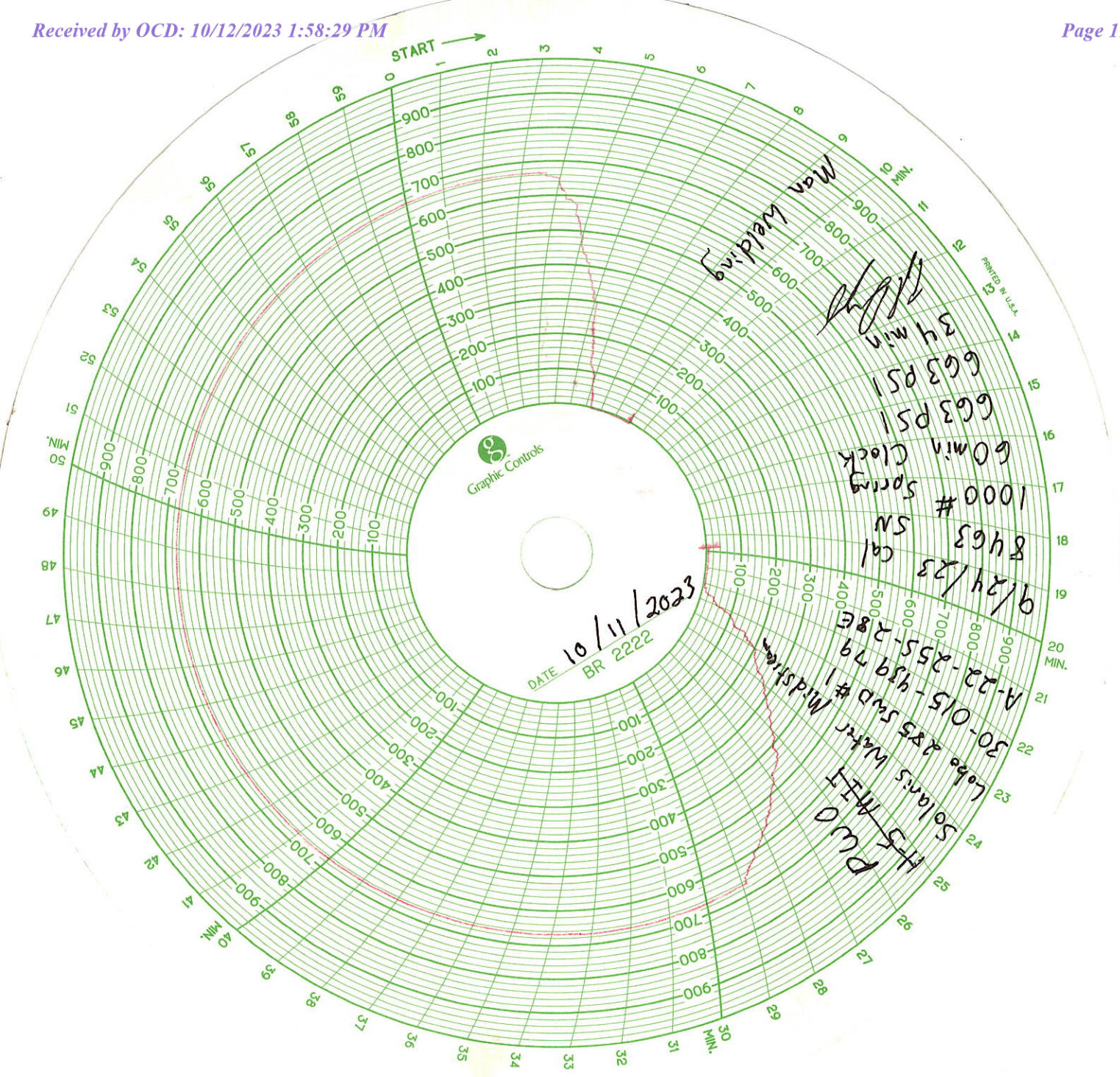
0

2031 TRADE DR.
MIDLAND, TX 79706
(432) 697-7801 (432) 520-3564

Technician: Susanna Happy

Received by OCD: 10/12/2023 1:58:29 PM

Released to Imaging: 2/22/2024 11:54:12 AM


START
Graphic Controls
DATE 10/11/2023
BR 2222
PRINTED IN U.S.A.
Man Welding
34 min
663 PSI
663 PSI
60 min Clock
1000 # Spring
8463 Cal SN
9/24/23
A-22-255-28E
30-015-439 79
Lobo 285 SWD #1
Solanis Water Midstream
PWO
15 MIT

HALLIBURTON

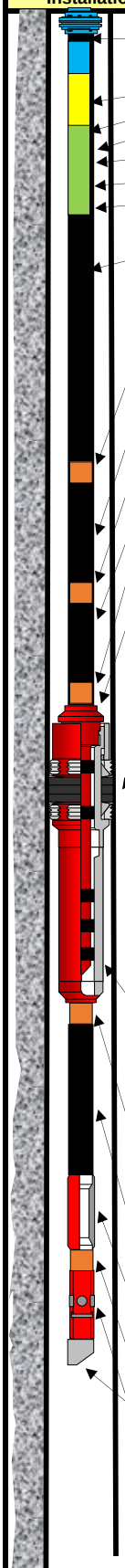
Solaris

FINAL INSTALLATION

Lobo 285 State SWD #1
Eddy Co., NM
8-Oct-23

Company Rep.
Tool Specialist
Office

Tyler Gregory / Dennis Wiggins
J. Rey
ODESSA



Installation	Length	Depth	NUM	Description	OD	ID
1	32.00	32.00	1	KB	NA	NA
2	4.08	36.08	1	TUBING HANGER AND SUB		
3	42.14	78.22	1	5 1/2" 20# P-110 SLICK JOINT OR (TOP JOINT) JT# 369	5.500	4.688
4	10.32	88.54	1	5 1/2" 20# P-110 CERAMIC COATED CASING SUB	5.500	4.688
5	8.25	96.79	1	5 1/2" 20# P-110 CERAMIC COATED CASING SUB	5.500	4.688
6	6.25	103.04	1	5 1/2" 20# P-110 CERAMIC COATED CASING SUB	5.500	4.688
7	4.28	107.32	1	5 1/2" 20# P-110 CERAMIC COATED CASING SUB	5.500	4.688
8	2.29	109.61	1	5 1/2" 20# P-110 CERAMIC COATED CASING SUB	5.500	4.688
9	9,922.64	10,032.25	245	5 1/2" 20# P-110 CERAMIC COATED CASING 246 JOINTS RAN IN THE HOLE INCLUDING SLICK JOINT TOTAL JOINTS DOWNHOLE--369	5.500	4.688
10	0.93	10,033.18	1	5 1/2" CTSWDBOX X 5" CTSWD PIN XO 3RD PARTY	6.250	4.125
11	2,238.57	12,271.75	54	5" 18# P-110 CERAMIC COATED TUBING	5.000	4.250
12	1.06	12,272.81	1	5" CTSWD BOX X 3 1/2" FJ PIN XO 3RD PARTY	5.500	3.000
13	2,095.21	14,368.02	69	3 1/2" 9.3# L-80 CERAMIC COATED TUBING	3.500	2.938
14	0.53	14,368.55	1	3 1/2" FJ BOX X 2 7/8" EUE PIN XO 3RD PARTY	3.500	2.375
15	0.80	14,369.35	1	2 7/8" 12' X 3.00" NICKEL ALLOY 925 LANDED SEAL ASSEMBLY HNBR WITH 4 SEALS ASSY# 103026481	3.420	2.330
	TOP OF PACKER					
16	1.65	14,371.00	1	5 1/2" 20-26# X 3.00" 41XX LOW ALLOY STEEL CWA PERMA-SERIES PACKER HNBR ELEMENT ASSY# 102736296 PACKER IS 3.05' OVERALL 1.65' FROM TOOL TOP TO CENT. ELEMENT. 1.40' FROM CENTER ELEMENT TO BOTTOM OF PACKER	4.360	3.000
	CENTER ELEMENT					
	1.40					
	Cent. Element to end of packer			CENTER ELEMENT@ 14,371' (WIRELINE MEASUREMENT) 40 PTS DOWN IN COMPRESSION ON PACKER		
17	9.36	14,372.40	1	10' X 3.00" SEAL BORE EXTENSION NICKEL ALLOY 925	3.770	3.000
18	1.09	14,381.76	1	SEAL BORE EXTENSION XO 2 7/8" VAMTOP BOX NICKEL ALLOY 925	4.250	2.400
19	7.83	14,382.85	1	2 7/8" X 8' 6.4# VAMTOP PUP NICKEL ALLOY 925	2.890	2.420
20	1.49	14,390.68	1	2.313 XN LANDING NIPPLE WITH 2.205 NO-GO ID 2 7/8" 6.4# VAMTOP NICKEL ALLOY 925	3.240	2.205
21	1.01	14392.17	1	2 7/8" 6.4# VAMTOP BOX X 2 7/8" EUE PIN XO	3.240	2.400
22	1.27	14393.18	1	2 7/8" NINE DUAL CERAMIC DISC SUB MSG BOTTOM	3.670	2.500
					MAX OD	MIN ID
		14,394.45		END OF HALLIBURTON BHA TOTAL LENGTH 25.90' FT.	4.360	2.205

HALLIBURTON | Completion Tools

Job Log Activity

INFORMATION

Customer Name
SOLARIS WATER MIDSTREAM LLC-EBUS

Well Name and Number
LOBO 285 STATE SWD 1

Rig Name

Sales Order Number
908881120

Operator's Name	Date & Time	Operation Details
Jeremy Rey	04 Oct 2023 13:00	Leave to location.
Jeremy Rey	04 Oct 2023 15:30	Arrived at location.
Jeremy Rey	04 Oct 2023 15:31	TGSM, Co-man Tyler Gregory working days with Sendero 19 drilling rig crew, Confirm tools to be ran with co-man, We will be setting CWA pkr above previous pkr and some tubing that they could not fish out, Casing is 5 1/2" 23# P-110, They already made a gauge ring and junk basket run and also ran a 4.50" OD RBP, Well fluid is FW and hole is full, CWA pkr and seal assembly were hotshotted to location on 10/2/23, Measure tools, Wait for Renegade braided line to POOH with RBP
Jeremy Rey	04 Oct 2023 16:20	OOH, Rig down braided line unit, Rig up Renegade wireline equipment
Jeremy Rey	04 Oct 2023 17:30	Make up BHA consisting of: 5 1/2" 20-26# x 3.00" CWA Packer 41xx low alloy steel with HNBR element, 10' x 3.00" Seal Bore Extension Nickel Alloy 925, Seal Bore Extension, Crossover 2 7/8" VAMTOP Box Nickel Alloy 925, 8' x 2 7/8" 6.4# VAMTOP PxP G3 Or Equivalent 110K, 2.313 XN Nipple x 2 7/8" 6.4# VAMTOP BxP with a 2.205" No-Go ID Nickel Alloy 925, 2 7/8" 6.4# VAMTOP Box x 2 7/8" EUE Pin Crossover, 2 7/8" Nine Dual Ceramic Disc Sub with MSG Bottom 10k X 10k, All made up with a WLAK to Baker 20 setting tool (See attachments for drawing
Jeremy Rey	04 Oct 2023 17:44	Pick up BHA, Stab onto well and equalize
Jeremy Rey	04 Oct 2023 18:06	TIH with pkr and BHA on wireline @ 200 ft/min, 264 psi on well
Jeremy Rey	04 Oct 2023 19:00	Try to go thru LT @ 10,223' @ 50 ft/min, Tagged LT, Work wireline up and down to try and get tools to go thru LT
Jeremy Rey	04 Oct 2023 19:05	Made it thru LT, Continue TIH @ 120 ft/min
Jeremy Rey	04 Oct 2023 19:20	Go thru 2nd LT @ 12,460' @ 50 ft/min, Continue TIH
Jeremy Rey	04 Oct 2023 19:41	Correlate with casing collar @ 14,342', 5' adjustment, Continue TIH
Jeremy Rey	04 Oct 2023 19:44	On depth @ 14,371' with pkr MR (14,360.5' CCL depth), Set pkr, Tension fell 2,900-2,600#, 45 seconds burn time, Pick up and tag pkr, Good, POOH
Jeremy Rey	04 Oct 2023 20:24	OOH, Lay down tools, Rig down wireline, Clean and load up tools
Jeremy Rey	04 Oct 2023 21:06	Per co-man Dennis Wiggins we will start TIH with seal assembly and tubing @ 0600, I will stay on location until ready
Jeremy Rey	05 Oct 2023 05:30	Byrd torque and turn crew arrive, ISS casing crew arrive, Thread rep. arrive, Wait for all crews to get ready
Jeremy Rey	05 Oct 2023 08:00	TGSM with all crews
Jeremy Rey	05 Oct 2023 08:33	Make up 3 1/2" FJ box x 2 7/8" EUE pin XO and 12' x 3.00" HNBR seal assembly nickel ally 925
Jeremy Rey	05 Oct 2023 08:56	TIH with 69 jts 3 1/2" 9.3# L-80 FJ ceramic coated tubing, and 54 jts 5" 18# P-110 EZGO CTSWD ceramic coated tubing
Jeremy Rey	05 Oct 2023 16:45	Elevators for 5" tubing not working, Wait for them to get new elevators on location
Jeremy Rey	05 Oct 2023 21:50	New 5" tubing elevators arrive, Rig up elevators and continue TIH
Jeremy Rey	06 Oct 2023 02:30	Start TIH with 5 1/2" 20# P-110 EZGO CTSWD ceramic coated tubing - 247 jts
Jeremy Rey	07 Oct 2023 01:45	Tubing weights @ 159k down / 170k up, Tag LT @ 10,223' with jt# 270, Set down 4k and put 2 right hand turns and weight went to 165k, We are thru LT, Continue TIH

HALLIBURTON | Completion Tools

Operator's Name	Date & Time	Operation Details
Jeremy Rey	07 Oct 2023 08:03	Tubing weights @ 175k down / 192k up, Made it thru 2nd LT @ 12,460' with jt# 324 with no problems, Continue TIH
Jeremy Rey	07 Oct 2023 14:48	Tubing weights @ 224k down / 249k up, Tag pkr with 370 jts total (5' stick up), Set down 10k, Line up to test backside to make sure seal assembly is stung into pkr
Jeremy Rey	07 Oct 2023 15:08	Start pumping down backside and fluid is flowing out tubing - Not stung into pkr, Shut down
Jeremy Rey	07 Oct 2023 15:16	Pick up so there is only 4k down on top of pkr, Put 4 rounds to the right and seal assembly stung into pkr, Weight came up to 240k, Go down 4' and make up another jt to be able to space out
Jeremy Rey	07 Oct 2023 15:52	Stung into pkr, Set down 40k, Measure for space out, BOP stack and tubing hanger with sub is 17.68', Will need 32.24' of subs - Will use 2',4' 6', 8', and 10' subs (all subs on location), Lay down 3 jts tubing
Jeremy Rey	07 Oct 2023 16:37	Make up subs, Pick up 1 jt tubing for top jt (or slick jt), 369 jts total in well
Jeremy Rey	07 Oct 2023 17:24	Make up tubing hanger and landing jt, Rig up hose and lines to reverse out pkr fluid - Landing jt and hanger connection leaking, Fix leak
Jeremy Rey	07 Oct 2023 20:14	Start reversing out with pkr fluid @ 2.6 bpm @ 1,760 psi, Broke circulation right away, Pumped 490 bbls
Jeremy Rey	07 Oct 2023 22:37	Shut down, Bleed off pressure, Get tubing and hanger centered
Jeremy Rey	07 Oct 2023 23:19	Tubing weights @ 212k down / 232k up, Sting into pkr freely, Land hanger with 38k down on pkr, See attachments for final drawing, AFS wellhead tech run in pins in wellhead, Rig up Mann Welding testers and chart
Jeremy Rey	08 Oct 2023 00:09	Test backside to 600 psi, Pressure dropped 15 psi in 30 mins, Good
Jeremy Rey	08 Oct 2023 00:48	Per co-man chart is good, Bleed off pressure
Jeremy Rey	08 Oct 2023 00:55	Job is finished, Get ticket signed, Left co-man a hard copy of the drawing
Jeremy Rey	08 Oct 2023 01:30	Departed from location.
Jeremy Rey	08 Oct 2023 04:30	Arrived from location.

Date:	10/4/2023	Company Name:	Solaris
Tool Company:	HES HCT	Well Name / Number	Lobo State SWD 1
Wellsite Supervisor:	Tyler Gregory / Dennis Wiggins	County & State	Eddy, NM
Tally Run by:	J. Rey	Well Type:	

Casing	5 1/2"	Notable Depths: Perfs. / T.O.L. / T.D. / Etc.	PACKER	Pipe	3 1/2	KB:	32.00
Weight	20			Weight:	9.3	K.B. Correction	
Grade	P-110	Packer Depth *Insert Depth Here -->*	14,365	Grade:	L-80	Total Pipe	
Thread				Thread:			

JOINT NUMBER	JOINTS IN	CATEGORY	IN / OUT	TALLY INPUT	PIPE LENGTH ONLY	Accumulative LENGTH	Total Length w/ K.B. Cor.	Setting Depth 14365.00	ITEM DESCRIPTION NOTES	JOINTS OUT
		ACCESSORY	IN	0.80	0.00	0.80	0.80	14364.20	Seal Assembly No-Go	0
		X-OVER	IN	0.53	0.00	1.33	1.33	14363.67	3 1/2 x 2 7/8 XO	0
1	1	PIPE	IN	31.14	31.14	32.47	32.47	14332.53	3 1/2" 9.3# L-80 Ceramic Coated	-1
2	2	PIPE	IN	30.42	61.56	62.89	62.89	14302.11		-2
3	3	PIPE	IN	31.33	92.89	94.22	94.22	14270.78		-3
4	4	PIPE	IN	30.30	123.19	124.52	124.52	14240.48		-4
5	5	PIPE	IN	31.20	154.39	155.72	155.72	14209.28		-5
6	6	PIPE	IN	30.35	184.74	186.07	186.07	14178.93		-6
7	7	PIPE	IN	30.34	215.08	216.41	216.41	14148.59		-7
8	8	PIPE	IN	30.82	245.90	247.23	247.23	14117.77		-8
9	9	PIPE	IN	31.15	277.05	278.38	278.38	14086.62		-9
10	10	PIPE	IN	30.72	307.77	309.10	309.10	14055.90		-10
11	11	PIPE	IN	28.39	336.16	337.49	337.49	14027.51		-11
12	12	PIPE	IN	30.33	366.49	367.82	367.82	13997.18		-12
13	13	PIPE	IN	29.52	396.01	397.34	397.34	13967.66		-13
14	14	PIPE	IN	30.94	426.95	428.28	428.28	13936.72		-14
15	15	PIPE	IN	30.77	457.72	459.05	459.05	13905.95		-15
16	16	PIPE	IN	29.54	487.26	488.59	488.59	13876.41		-16
17	17	PIPE	IN	30.36	517.62	518.95	518.95	13846.05		-17
18	18	PIPE	IN	30.52	548.14	549.47	549.47	13815.53		-18
19	19	PIPE	IN	28.65	576.79	578.12	578.12	13786.88		-19
20	20	PIPE	IN	28.59	605.38	606.71	606.71	13758.29		-20
21	21	PIPE	IN	29.86	635.24	636.57	636.57	13728.43		-21
22	22	PIPE	IN	30.10	665.34	666.67	666.67	13698.33		-22
23	23	PIPE	IN	31.08	696.42	697.75	697.75	13667.25		-23
24	24	PIPE	IN	28.65	725.07	726.40	726.40	13638.60		-24
25	25	PIPE	IN	30.90	755.97	757.30	757.30	13607.70		-25
26	26	PIPE	IN	31.19	787.16	788.49	788.49	13576.51		-26
27	27	PIPE	IN	30.68	817.84	819.17	819.17	13545.83		-27
28	28	PIPE	IN	30.63	848.47	849.80	849.80	13515.20		-28
29	29	PIPE	IN	30.77	879.24	880.57	880.57	13484.43		-29
30	30	PIPE	IN	31.27	910.51	911.84	911.84	13453.16		-30
31	31	PIPE	IN	30.55	941.06	942.39	942.39	13422.61		-31
32	32	PIPE	IN	30.92	971.98	973.31	973.31	13391.69		-32
33	33	PIPE	IN	27.73	999.71	1001.04	1001.04	13363.96		-33
34	34	PIPE	IN	30.62	1030.33	1031.66	1031.66	13333.34		-34
35	35	PIPE	IN	30.76	1061.09	1062.42	1062.42	13302.58		-35
36	36	PIPE	IN	30.74	1091.83	1093.16	1093.16	13271.84		-36
37	37	PIPE	IN	30.92	1122.75	1124.08	1124.08	13240.92		-37
38	38	PIPE	IN	30.84	1153.59	1154.92	1154.92	13210.08		-38
39	39	PIPE	IN	30.32	1183.91	1185.24	1185.24	13179.76		-39
40	40	PIPE	IN	31.24	1215.15	1216.48	1216.48	13148.52		-40
41	41	PIPE	IN	31.40	1246.55	1247.88	1247.88	13117.12		-41
42	42	PIPE	IN	31.13	1277.68	1279.01	1279.01	13085.99		-42
43	43	PIPE	IN	28.59	1306.27	1307.60	1307.60	13057.40		-43
44	44	PIPE	IN	30.85	1337.12	1338.45	1338.45	13026.55		-44
45	45	PIPE	IN	30.31	1367.43	1368.76	1368.76	12996.24		-45
46	46	PIPE	IN	31.05	1398.48	1399.81	1399.81	12965.19		-46
47	47	PIPE	IN	29.05	1427.53	1428.86	1428.86	12936.14		-47
48	48	PIPE	IN	30.18	1457.71	1459.04	1459.04	12905.96		-48

49	49	PIPE	IN	31.70	1489.41	1490.74	1490.74	12874.26		-49
50	50	PIPE	IN	30.70	1520.11	1521.44	1521.44	12843.56		-50
51	51	PIPE	IN	31.29	1551.40	1552.73	1552.73	12812.27		-51
52	52	PIPE	IN	28.00	1579.40	1580.73	1580.73	12784.27		-52
53	53	PIPE	IN	30.81	1610.21	1611.54	1611.54	12753.46		-53
54	54	PIPE	IN	30.97	1641.18	1642.51	1642.51	12722.49		-54
55	55	PIPE	IN	30.15	1671.33	1672.66	1672.66	12692.34		-55
56	56	PIPE	IN	28.18	1699.51	1700.84	1700.84	12664.16		-56
57	57	PIPE	IN	30.64	1730.15	1731.48	1731.48	12633.52		-57
58	58	PIPE	IN	31.02	1761.17	1762.50	1762.50	12602.50		-58
59	59	PIPE	IN	30.35	1791.52	1792.85	1792.85	12572.15		-59
60	60	PIPE	IN	31.38	1822.90	1824.23	1824.23	12540.77		-60
61	61	PIPE	IN	30.90	1853.80	1855.13	1855.13	12509.87		-61
62	62	PIPE	IN	30.97	1884.77	1886.10	1886.10	12478.90		-62
63	63	PIPE	IN	30.37	1915.14	1916.47	1916.47	12448.53		-63
64	64	PIPE	IN	30.71	1945.85	1947.18	1947.18	12417.82		-64
65	65	PIPE	IN	30.74	1976.59	1977.92	1977.92	12387.08		-65
66	66	PIPE	IN	28.93	2005.52	2006.85	2006.85	12358.15		-66
67	67	PIPE	IN	30.69	2036.21	2037.54	2037.54	12327.46		-67
68	68	PIPE	IN	31.00	2067.21	2068.54	2068.54	12296.46		-68
69	69	PIPE	IN	28.00	2095.21	2096.54	2096.54	12268.46		-69
		X-OVER	IN	1.06	2095.21	2097.60	2097.60	12267.40	5" x 3 1/2" XO	-69
70	70	PIPE	IN	40.94	2136.15	2138.54	2138.54	12226.46	5" 18# P-110 Ceramic Coated	-70
71	71	PIPE	IN	41.42	2177.57	2179.96	2179.96	12185.04		-71
72	72	PIPE	IN	44.23	2221.80	2224.19	2224.19	12140.81		-72
73	73	PIPE	IN	41.53	2263.33	2265.72	2265.72	12099.28		-73
74	74	PIPE	IN	42.02	2305.35	2307.74	2307.74	12057.26		-74
75	75	PIPE	IN	41.42	2346.77	2349.16	2349.16	12015.84		-75
76	76	PIPE	IN	41.50	2388.27	2390.66	2390.66	11974.34		-76
77	77	PIPE	IN	42.09	2430.36	2432.75	2432.75	11932.25		-77
78	78	PIPE	IN	41.66	2472.02	2474.41	2474.41	11890.59		-78
79	79	PIPE	IN	41.73	2513.75	2516.14	2516.14	11848.86		-79
80	80	PIPE	IN	40.72	2554.47	2556.86	2556.86	11808.14		-80
81	81	PIPE	IN	41.44	2595.91	2598.30	2598.30	11766.70		-81
82	82	PIPE	IN	43.95	2639.86	2642.25	2642.25	11722.75		-82
83	83	PIPE	IN	41.92	2681.78	2684.17	2684.17	11680.83		-83
84	84	PIPE	IN	43.80	2725.58	2727.97	2727.97	11637.03		-84
85	85	PIPE	IN	41.04	2766.62	2769.01	2769.01	11595.99		-85
86	86	PIPE	IN	41.08	2807.70	2810.09	2810.09	11554.91		-86
87	87	PIPE	IN	41.95	2849.65	2852.04	2852.04	11512.96		-87
88	88	PIPE	IN	42.14	2891.79	2894.18	2894.18	11470.82		-88
89	89	PIPE	IN	41.50	2933.29	2935.68	2935.68	11429.32		-89
90	90	PIPE	IN	41.75	2975.04	2977.43	2977.43	11387.57		-90
91	91	PIPE	IN	43.35	3018.39	3020.78	3020.78	11344.22		-91
92	92	PIPE	IN	41.48	3059.87	3062.26	3062.26	11302.74		-92
93	93	PIPE	IN	42.10	3101.97	3104.36	3104.36	11260.64		-93
94	94	PIPE	IN	41.45	3143.42	3145.81	3145.81	11219.19		-94
95	95	PIPE	IN	42.46	3185.88	3188.27	3188.27	11176.73		-95
96	96	PIPE	IN	44.00	3229.88	3232.27	3232.27	11132.73		-96
97	97	PIPE	IN	41.52	3271.40	3273.79	3273.79	11091.21		-97
98	98	PIPE	IN	40.32	3311.72	3314.11	3314.11	11050.89		-98
99	99	PIPE	IN	41.50	3353.22	3355.61	3355.61	11009.39		-99
100	100	PIPE	IN	41.95	3395.17	3397.56	3397.56	10967.44		-100
101	101	PIPE	IN	41.70	3436.87	3439.26	3439.26	10925.74		-101
102	102	PIPE	IN	41.25	3478.12	3480.51	3480.51	10884.49		-102
103	103	PIPE	IN	41.15	3519.27	3521.66	3521.66	10843.34		-103
104	104	PIPE	IN	41.92	3561.19	3563.58	3563.58	10801.42		-104
105	105	PIPE	IN	41.50	3602.69	3605.08	3605.08	10759.92		-105
106	106	PIPE	IN	41.92	3644.61	3647.00	3647.00	10718.00		-106
107	107	PIPE	IN	41.02	3685.63	3688.02	3688.02	10676.98		-107

108	108	PIPE	IN	41.54	3727.17	3729.56	3729.56	10635.44		-108
109	109	PIPE	IN	41.60	3768.77	3771.16	3771.16	10593.84		-109
110	110	PIPE	IN	41.98	3810.75	3813.14	3813.14	10551.86		-110
111	111	PIPE	IN	33.22	3843.97	3846.36	3846.36	10518.64		-111
112	112	PIPE	IN	41.58	3885.55	3887.94	3887.94	10477.06		-112
113	113	PIPE	IN	42.05	3927.60	3929.99	3929.99	10435.01		-113
114	114	PIPE	IN	36.90	3964.50	3966.89	3966.89	10398.11		-114
115	115	PIPE	IN	41.54	4006.04	4008.43	4008.43	10356.57		-115
116	116	PIPE	IN	32.83	4038.87	4041.26	4041.26	10323.74		-116
117	117	PIPE	IN	42.08	4080.95	4083.34	4083.34	10281.66		-117
118	118	PIPE	IN	42.00	4122.95	4125.34	4125.34	10239.66		-118
119	119	PIPE	IN	41.57	4164.52	4166.91	4166.91	10198.09		-119
120	120	PIPE	IN	41.32	4205.84	4208.23	4208.23	10156.77		-120
121	121	PIPE	IN	41.87	4247.71	4250.10	4250.10	10114.90		-121
122	122	PIPE	IN	42.02	4289.73	4292.12	4292.12	10072.88		-122
123	123	PIPE	IN	44.05	4333.78	4336.17	4336.17	10028.83		-123
		X-OVER	IN	0.93	4333.78	4337.10	4337.10	10027.90	5 1/2" x 5" XO	-123
124	124	PIPE	IN	40.82	4374.60	4377.92	4377.92	9987.08	5 1/2" 20# P-110 Ceramic Coated	-124
125	125	PIPE	IN	42.79	4417.39	4420.71	4420.71	9944.29		-125
126	126	PIPE	IN	38.68	4456.07	4459.39	4459.39	9905.61		-126
127	127	PIPE	IN	41.12	4497.19	4500.51	4500.51	9864.49		-127
128	128	PIPE	IN	39.14	4536.33	4539.65	4539.65	9825.35		-128
129	129	PIPE	IN	38.16	4574.49	4577.81	4577.81	9787.19		-129
130	130	PIPE	IN	43.12	4617.61	4620.93	4620.93	9744.07		-130
131	131	PIPE	IN	40.83	4658.44	4661.76	4661.76	9703.24		-131
132	132	PIPE	IN	32.81	4691.25	4694.57	4694.57	9670.43		-132
133	133	PIPE	IN	39.92	4731.17	4734.49	4734.49	9630.51		-133
134	134	PIPE	IN	40.82	4771.99	4775.31	4775.31	9589.69		-134
135	135	PIPE	IN	40.64	4812.63	4815.95	4815.95	9549.05		-135
136	136	PIPE	IN	42.84	4855.47	4858.79	4858.79	9506.21		-136
137	137	PIPE	IN	40.16	4895.63	4898.95	4898.95	9466.05		-137
138	138	PIPE	IN	42.53	4938.16	4941.48	4941.48	9423.52		-138
139	139	PIPE	IN	41.50	4979.66	4982.98	4982.98	9382.02		-139
140	140	PIPE	IN	41.95	5021.61	5024.93	5024.93	9340.07		-140
141	141	PIPE	IN	42.70	5064.31	5067.63	5067.63	9297.37		-141
142	142	PIPE	IN	39.75	5104.06	5107.38	5107.38	9257.62		-142
143	143	PIPE	IN	39.62	5143.68	5147.00	5147.00	9218.00		-143
144	144	PIPE	IN	40.51	5184.19	5187.51	5187.51	9177.49		-144
145	145	PIPE	IN	42.02	5226.21	5229.53	5229.53	9135.47		-145
146	146	PIPE	IN	42.67	5268.88	5272.20	5272.20	9092.80		-146
147	147	PIPE	IN	40.77	5309.65	5312.97	5312.97	9052.03		-147
148	148	PIPE	IN	41.00	5350.65	5353.97	5353.97	9011.03		-148
149	149	PIPE	IN	33.34	5383.99	5387.31	5387.31	8977.69		-149
150	150	PIPE	IN	35.33	5419.32	5422.64	5422.64	8942.36		-150
151	151	PIPE	IN	34.15	5453.47	5456.79	5456.79	8908.21		-151
152	152	PIPE	IN	40.65	5494.12	5497.44	5497.44	8867.56		-152
153	153	PIPE	IN	35.02	5529.14	5532.46	5532.46	8832.54		-153
154	154	PIPE	IN	40.92	5570.06	5573.38	5573.38	8791.62		-154
155	155	PIPE	IN	32.83	5602.89	5606.21	5606.21	8758.79		-155
156	156	PIPE	IN	45.41	5648.30	5651.62	5651.62	8713.38		-156
157	157	PIPE	IN	45.26	5693.56	5696.88	5696.88	8668.12		-157
158	158	PIPE	IN	45.53	5739.09	5742.41	5742.41	8622.59		-158
159	159	PIPE	IN	45.60	5784.69	5788.01	5788.01	8576.99		-159
160	160	PIPE	IN	46.14	5830.83	5834.15	5834.15	8530.85		-160
161	161	PIPE	IN	46.38	5877.21	5880.53	5880.53	8484.47		-161
162	162	PIPE	IN	33.21	5910.42	5913.74	5913.74	8451.26		-162
163	163	PIPE	IN	36.15	5946.57	5949.89	5949.89	8415.11		-163
164	164	PIPE	IN	40.50	5987.07	5990.39	5990.39	8374.61		-164
165	165	PIPE	IN	42.21	6029.28	6032.60	6032.60	8332.40		-165
166	166	PIPE	IN	42.10	6071.38	6074.70	6074.70	8290.30		-166

167	167	PIPE	IN	42.20	6113.58	6116.90	6116.90	8248.10		-167
168	168	PIPE	IN	34.55	6148.13	6151.45	6151.45	8213.55		-168
169	169	PIPE	IN	32.95	6181.08	6184.40	6184.40	8180.60		-169
170	170	PIPE	IN	35.35	6216.43	6219.75	6219.75	8145.25		-170
171	171	PIPE	IN	43.34	6259.77	6263.09	6263.09	8101.91		-171
172	172	PIPE	IN	41.80	6301.57	6304.89	6304.89	8060.11		-172
173	173	PIPE	IN	41.06	6342.63	6345.95	6345.95	8019.05		-173
174	174	PIPE	IN	41.75	6384.38	6387.70	6387.70	7977.30		-174
175	175	PIPE	IN	33.93	6418.31	6421.63	6421.63	7943.37		-175
176	176	PIPE	IN	34.53	6452.84	6456.16	6456.16	7908.84		-176
177	177	PIPE	IN	41.34	6494.18	6497.50	6497.50	7867.50		-177
178	178	PIPE	IN	32.75	6526.93	6530.25	6530.25	7834.75		-178
179	179	PIPE	IN	40.68	6567.61	6570.93	6570.93	7794.07		-179
180	180	PIPE	IN	39.44	6607.05	6610.37	6610.37	7754.63		-180
181	181	PIPE	IN	34.00	6641.05	6644.37	6644.37	7720.63		-181
182	182	PIPE	IN	33.70	6674.75	6678.07	6678.07	7686.93		-182
183	183	PIPE	IN	35.02	6709.77	6713.09	6713.09	7651.91		-183
184	184	PIPE	IN	41.98	6751.75	6755.07	6755.07	7609.93		-184
185	185	PIPE	IN	38.25	6790.00	6793.32	6793.32	7571.68		-185
186	186	PIPE	IN	33.56	6823.56	6826.88	6826.88	7538.12		-186
187	187	PIPE	IN	41.70	6865.26	6868.58	6868.58	7496.42		-187
188	188	PIPE	IN	33.98	6899.24	6902.56	6902.56	7462.44		-188
189	189	PIPE	IN	35.43	6934.67	6937.99	6937.99	7427.01		-189
190	190	PIPE	IN	41.09	6975.76	6979.08	6979.08	7385.92		-190
191	191	PIPE	IN	41.13	7016.89	7020.21	7020.21	7344.79		-191
192	192	PIPE	IN	41.15	7058.04	7061.36	7061.36	7303.64		-192
193	193	PIPE	IN	40.42	7098.46	7101.78	7101.78	7263.22		-193
194	194	PIPE	IN	39.80	7138.26	7141.58	7141.58	7223.42		-194
195	195	PIPE	IN	39.08	7177.34	7180.66	7180.66	7184.34		-195
196	196	PIPE	IN	46.74	7224.08	7227.40	7227.40	7137.60		-196
197	197	PIPE	IN	44.94	7269.02	7272.34	7272.34	7092.66		-197
198	198	PIPE	IN	38.48	7307.50	7310.82	7310.82	7054.18		-198
199	199	PIPE	IN	43.95	7351.45	7354.77	7354.77	7010.23		-199
200	200	PIPE	IN	42.78	7394.23	7397.55	7397.55	6967.45		-200
201	201	PIPE	IN	35.24	7429.47	7432.79	7432.79	6932.21		-201
202	202	PIPE	IN	44.21	7473.68	7477.00	7477.00	6888.00		-202
203	203	PIPE	IN	43.59	7517.27	7520.59	7520.59	6844.41		-203
204	204	PIPE	IN	40.72	7557.99	7561.31	7561.31	6803.69		-204
205	205	PIPE	IN	43.92	7601.91	7605.23	7605.23	6759.77		-205
206	206	PIPE	IN	40.93	7642.84	7646.16	7646.16	6718.84		-206
207	207	PIPE	IN	44.05	7686.89	7690.21	7690.21	6674.79		-207
208	208	PIPE	IN	44.32	7731.21	7734.53	7734.53	6630.47		-208
209	209	PIPE	IN	43.16	7774.37	7777.69	7777.69	6587.31		-209
210	210	PIPE	IN	39.68	7814.05	7817.37	7817.37	6547.63		-210
211	211	PIPE	IN	43.83	7857.88	7861.20	7861.20	6503.80		-211
212	212	PIPE	IN	42.94	7900.82	7904.14	7904.14	6460.86		-212
213	213	PIPE	IN	33.07	7933.89	7937.21	7937.21	6427.79		-213
214	214	PIPE	IN	41.63	7975.52	7978.84	7978.84	6386.16		-214
215	215	PIPE	IN	38.73	8014.25	8017.57	8017.57	6347.43		-215
216	216	PIPE	IN	43.00	8057.25	8060.57	8060.57	6304.43		-216
217	217	PIPE	IN	33.83	8091.08	8094.40	8094.40	6270.60		-217
218	218	PIPE	IN	38.48	8129.56	8132.88	8132.88	6232.12		-218
219	219	PIPE	IN	41.14	8170.70	8174.02	8174.02	6190.98		-219
220	220	PIPE	IN	37.25	8207.95	8211.27	8211.27	6153.73		-220
221	221	PIPE	IN	34.36	8242.31	8245.63	8245.63	6119.37		-221
222	222	PIPE	IN	35.05	8277.36	8280.68	8280.68	6084.32		-222
223	223	PIPE	IN	40.54	8317.90	8321.22	8321.22	6043.78		-223
224	224	PIPE	IN	45.55	8363.45	8366.77	8366.77	5998.23		-224
225	225	PIPE	IN	40.63	8404.08	8407.40	8407.40	5957.60		-225
226	226	PIPE	IN	40.27	8444.35	8447.67	8447.67	5917.33		-226

227	227	PIPE	IN	43.59	8487.94	8491.26	8491.26	5873.74		-227
228	228	PIPE	IN	43.48	8531.42	8534.74	8534.74	5830.26		-228
229	229	PIPE	IN	43.76	8575.18	8578.50	8578.50	5786.50		-229
230	230	PIPE	IN	34.65	8609.83	8613.15	8613.15	5751.85		-230
231	231	PIPE	IN	35.23	8645.06	8648.38	8648.38	5716.62		-231
232	232	PIPE	IN	39.90	8684.96	8688.28	8688.28	5676.72		-232
233	233	PIPE	IN	41.26	8726.22	8729.54	8729.54	5635.46		-233
234	234	PIPE	IN	42.16	8768.38	8771.70	8771.70	5593.30		-234
235	235	PIPE	IN	42.42	8810.80	8814.12	8814.12	5550.88		-235
236	236	PIPE	IN	40.83	8851.63	8854.95	8854.95	5510.05		-236
237	237	PIPE	IN	39.35	8890.98	8894.30	8894.30	5470.70		-237
238	238	PIPE	IN	38.61	8929.59	8932.91	8932.91	5432.09		-238
239	239	PIPE	IN	37.54	8967.13	8970.45	8970.45	5394.55		-239
240	240	PIPE	IN	34.74	9001.87	9005.19	9005.19	5359.81		-240
241	241	PIPE	IN	34.16	9036.03	9039.35	9039.35	5325.65		-241
242	242	PIPE	IN	34.95	9070.98	9074.30	9074.30	5290.70		-242
243	243	PIPE	IN	41.90	9112.88	9116.20	9116.20	5248.80		-243
244	244	PIPE	IN	45.93	9158.81	9162.13	9162.13	5202.87		-244
245	245	PIPE	IN	43.56	9202.37	9205.69	9205.69	5159.31		-245
246	246	PIPE	IN	43.68	9246.05	9249.37	9249.37	5115.63		-246
247	247	PIPE	IN	41.46	9287.51	9290.83	9290.83	5074.17		-247
248	248	PIPE	IN	41.43	9328.94	9332.26	9332.26	5032.74		-248
249	249	PIPE	IN	32.04	9360.98	9364.30	9364.30	5000.70		-249
250	250	PIPE	IN	43.34	9404.32	9407.64	9407.64	4957.36		-250
251	251	PIPE	IN	35.09	9439.41	9442.73	9442.73	4922.27		-251
252	252	PIPE	IN	38.25	9477.66	9480.98	9480.98	4884.02		-252
253	253	PIPE	IN	40.88	9518.54	9521.86	9521.86	4843.14		-253
254	254	PIPE	IN	39.79	9558.33	9561.65	9561.65	4803.35		-254
255	255	PIPE	IN	42.49	9600.82	9604.14	9604.14	4760.86		-255
256	256	PIPE	IN	41.56	9642.38	9645.70	9645.70	4719.30		-256
257	257	PIPE	IN	41.63	9684.01	9687.33	9687.33	4677.67		-257
258	258	PIPE	IN	39.86	9723.87	9727.19	9727.19	4637.81		-258
259	259	PIPE	IN	44.00	9767.87	9771.19	9771.19	4593.81		-259
260	260	PIPE	IN	41.87	9809.74	9813.06	9813.06	4551.94		-260
261	261	PIPE	IN	41.32	9851.06	9854.38	9854.38	4510.62		-261
262	262	PIPE	IN	41.52	9892.58	9895.90	9895.90	4469.10		-262
263	263	PIPE	IN	43.20	9935.78	9939.10	9939.10	4425.90		-263
264	264	PIPE	IN	41.40	9977.18	9980.50	9980.50	4384.50		-264
265	265	PIPE	IN	40.87	10018.05	10021.37	10021.37	4343.63		-265
266	266	PIPE	IN	34.44	10052.49	10055.81	10055.81	4309.19		-266
267	267	PIPE	IN	41.08	10093.57	10096.89	10096.89	4268.11		-267
268	268	PIPE	IN	42.90	10136.47	10139.79	10139.79	4225.21		-268
269	269	PIPE	IN	41.45	10177.92	10181.24	10181.24	4183.76	1st LT @ 10,223'	-269
270	270	PIPE	IN	41.45	10219.37	10222.69	10222.69	4142.31		-270
271	271	PIPE	IN	41.60	10260.97	10264.29	10264.29	4100.71		-271
272	272	PIPE	IN	41.47	10302.44	10305.76	10305.76	4059.24		-272
273	273	PIPE	IN	41.26	10343.70	10347.02	10347.02	4017.98		-273
274	274	PIPE	IN	41.47	10385.17	10388.49	10388.49	3976.51		-274
275	275	PIPE	IN	43.92	10429.09	10432.41	10432.41	3932.59		-275
276	276	PIPE	IN	46.14	10475.23	10478.55	10478.55	3886.45		-276
277	277	PIPE	IN	34.57	10509.80	10513.12	10513.12	3851.88		-277
278	278	PIPE	IN	41.22	10551.02	10554.34	10554.34	3810.66		-278
279	279	PIPE	IN	39.68	10590.70	10594.02	10594.02	3770.98		-279
280	280	PIPE	IN	35.46	10626.16	10629.48	10629.48	3735.52		-280
281	281	PIPE	IN	34.42	10660.58	10663.90	10663.90	3701.10		-281
282	282	PIPE	IN	35.88	10696.46	10699.78	10699.78	3665.22		-282
283	283	PIPE	IN	45.69	10742.15	10745.47	10745.47	3619.53		-283
284	284	PIPE	IN	42.00	10784.15	10787.47	10787.47	3577.53		-284
285	285	PIPE	IN	38.82	10822.97	10826.29	10826.29	3538.71		-285
286	286	PIPE	IN	36.89	10859.86	10863.18	10863.18	3501.82		-286

287	287	PIPE	IN	39.08	10898.94	10902.26	10902.26	3462.74		-287
288	288	PIPE	IN	32.28	10931.22	10934.54	10934.54	3430.46		-288
289	289	PIPE	IN	38.91	10970.13	10973.45	10973.45	3391.55		-289
290	290	PIPE	IN	38.60	11008.73	11012.05	11012.05	3352.95		-290
291	291	PIPE	IN	41.26	11049.99	11053.31	11053.31	3311.69		-291
292	292	PIPE	IN	45.44	11095.43	11098.75	11098.75	3266.25		-292
293	293	PIPE	IN	44.79	11140.22	11143.54	11143.54	3221.46		-293
294	294	PIPE	IN	34.33	11174.55	11177.87	11177.87	3187.13		-294
295	295	PIPE	IN	34.37	11208.92	11212.24	11212.24	3152.76		-295
296	296	PIPE	IN	45.33	11254.25	11257.57	11257.57	3107.43		-296
297	297	PIPE	IN	45.12	11299.37	11302.69	11302.69	3062.31		-297
298	298	PIPE	IN	45.65	11345.02	11348.34	11348.34	3016.66		-298
299	299	PIPE	IN	41.00	11386.02	11389.34	11389.34	2975.66		-299
300	300	PIPE	IN	45.62	11431.64	11434.96	11434.96	2930.04		-300
301	301	PIPE	IN	45.71	11477.35	11480.67	11480.67	2884.33		-301
302	302	PIPE	IN	45.64	11522.99	11526.31	11526.31	2838.69		-302
303	303	PIPE	IN	45.64	11568.63	11571.95	11571.95	2793.05		-303
304	304	PIPE	IN	43.10	11611.73	11615.05	11615.05	2749.95		-304
305	305	PIPE	IN	45.97	11657.70	11661.02	11661.02	2703.98		-305
306	306	PIPE	IN	46.36	11704.06	11707.38	11707.38	2657.62		-306
307	307	PIPE	IN	37.76	11741.82	11745.14	11745.14	2619.86		-307
308	308	PIPE	IN	40.54	11782.36	11785.68	11785.68	2579.32		-308
309	309	PIPE	IN	42.43	11824.79	11828.11	11828.11	2536.89		-309
310	310	PIPE	IN	41.77	11866.56	11869.88	11869.88	2495.12		-310
311	311	PIPE	IN	41.60	11908.16	11911.48	11911.48	2453.52		-311
312	312	PIPE	IN	45.42	11953.58	11956.90	11956.90	2408.10		-312
313	313	PIPE	IN	40.25	11993.83	11997.15	11997.15	2367.85		-313
314	314	PIPE	IN	46.10	12039.93	12043.25	12043.25	2321.75		-314
315	315	PIPE	IN	40.40	12080.33	12083.65	12083.65	2281.35		-315
316	316	PIPE	IN	42.63	12122.96	12126.28	12126.28	2238.72		-316
317	317	PIPE	IN	45.18	12168.14	12171.46	12171.46	2193.54		-317
318	318	PIPE	IN	41.26	12209.40	12212.72	12212.72	2152.28		-318
319	319	PIPE	IN	40.93	12250.33	12253.65	12253.65	2111.35		-319
320	320	PIPE	IN	40.65	12290.98	12294.30	12294.30	2070.70		-320
321	321	PIPE	IN	40.88	12331.86	12335.18	12335.18	2029.82		-321
322	322	PIPE	IN	43.18	12375.04	12378.36	12378.36	1986.64		-322
323	323	PIPE	IN	45.63	12420.67	12423.99	12423.99	1941.01	2nd LT @ 12,460'	-323
324	324	PIPE	IN	42.24	12462.91	12466.23	12466.23	1898.77		-324
325	325	PIPE	IN	40.75	12503.66	12506.98	12506.98	1858.02		-325
326	326	PIPE	IN	41.37	12545.03	12548.35	12548.35	1816.65		-326
327	327	PIPE	IN	37.96	12582.99	12586.31	12586.31	1778.69		-327
328	328	PIPE	IN	39.17	12622.16	12625.48	12625.48	1739.52		-328
329	329	PIPE	IN	38.97	12661.13	12664.45	12664.45	1700.55		-329
330	330	PIPE	IN	40.18	12701.31	12704.63	12704.63	1660.37		-330
331	331	PIPE	IN	37.80	12739.11	12742.43	12742.43	1622.57		-331
332	332	PIPE	IN	43.14	12782.25	12785.57	12785.57	1579.43		-332
333	333	PIPE	IN	33.82	12816.07	12819.39	12819.39	1545.61		-333
334	334	PIPE	IN	40.43	12856.50	12859.82	12859.82	1505.18		-334
335	335	PIPE	IN	40.68	12897.18	12900.50	12900.50	1464.50		-335
336	336	PIPE	IN	42.73	12939.91	12943.23	12943.23	1421.77		-336
337	337	PIPE	IN	41.12	12981.03	12984.35	12984.35	1380.65		-337
338	338	PIPE	IN	42.75	13023.78	13027.10	13027.10	1337.90		-338
339	339	PIPE	IN	35.58	13059.36	13062.68	13062.68	1302.32		-339
340	340	PIPE	IN	42.24	13101.60	13104.92	13104.92	1260.08		-340
341	341	PIPE	IN	39.28	13140.88	13144.20	13144.20	1220.80		-341
342	342	PIPE	IN	34.27	13175.15	13178.47	13178.47	1186.53		-342
343	343	PIPE	IN	42.92	13218.07	13221.39	13221.39	1143.61		-343
344	344	PIPE	IN	40.94	13259.01	13262.33	13262.33	1102.67		-344
345	345	PIPE	IN	43.24	13302.25	13305.57	13305.57	1059.43		-345
346	346	PIPE	IN	41.48	13343.73	13347.05	13347.05	1017.95		-346

347	347	PIPE	IN	39.45	13383.18	13386.50	13386.50	978.50		-347
348	348	PIPE	IN	40.52	13423.70	13427.02	13427.02	937.98		-348
349	349	PIPE	IN	43.31	13467.01	13470.33	13470.33	894.67		-349
350	350	PIPE	IN	40.84	13507.85	13511.17	13511.17	853.83		-350
351	351	PIPE	IN	34.71	13542.56	13545.88	13545.88	819.12		-351
352	352	PIPE	IN	44.38	13586.94	13590.26	13590.26	774.74		-352
353	353	PIPE	IN	45.79	13632.73	13636.05	13636.05	728.95		-353
354	354	PIPE	IN	41.70	13674.43	13677.75	13677.75	687.25		-354
355	355	PIPE	IN	40.26	13714.69	13718.01	13718.01	646.99		-355
356	356	PIPE	IN	41.80	13756.49	13759.81	13759.81	605.19		-356
357	357	PIPE	IN	42.20	13798.69	13802.01	13802.01	562.99		-357
358	358	PIPE	IN	43.22	13841.91	13845.23	13845.23	519.77		-358
359	359	PIPE	IN	46.23	13888.14	13891.46	13891.46	473.54		-359
360	360	PIPE	IN	45.51	13933.65	13936.97	13936.97	428.03		-360
361	361	PIPE	IN	40.87	13974.52	13977.84	13977.84	387.16		-361
362	362	PIPE	IN	42.83	14017.35	14020.67	14020.67	344.33		-362
363	363	PIPE	IN	43.24	14060.59	14063.91	14063.91	301.09		-363
364	364	PIPE	IN	38.63	14099.22	14102.54	14102.54	262.46		-364
365	365	PIPE	IN	37.88	14137.10	14140.42	14140.42	224.58		-365
366	366	PIPE	IN	40.01	14177.11	14180.43	14180.43	184.57		-366
367	367	PIPE	IN	42.98	14220.09	14223.41	14223.41	141.59		-367
368	368	PIPE	IN	41.13	14261.22	14264.54	14264.54	100.46		-368
369	369	PIPE	IN	42.14	14303.36	14306.68	14306.68	58.32		-369
		PUP JOINT	IN	31.39	14303.36	14338.07	14338.07	26.93	2,4,6,8,10' subs	-369
		HANGER	IN	4.08	14303.36	14342.15	14342.15	22.85	Hanger and sub	-369
		ACCESSORY	IN	32.00	14303.36	14374.15	14374.15	-9.15	KB	-369
370	370	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-370
371	371	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-371
372	372	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-372
373	373	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-373
374	374	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-374
375	375	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-375
376	376	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-376
377	377	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-377
378	378	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-378
379	379	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-379
380	380	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-380
381	381	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-381
382	382	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-382
383	383	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-383
384	384	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-384
385	385	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-385
386	386	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-386
387	387	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-387
388	388	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-388
389	389	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-389
390	390	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-390
391	391	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-391
392	392	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-392
393	393	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-393
394	394	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-394
395	395	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-395
396	396	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-396
397	397	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-397
398	398	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-398
399	399	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-399
400	400	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-400
401	401	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-401
402	402	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-402
403	403	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-403
404	404	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-404
405	405	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-405
406	406	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-406
407	407	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-407

408	408	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-408
409	409	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-409
410	410	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-410
411	411	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-411
412	412	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-412
413	413	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-413
414	414	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-414
415	415	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-415
416	416	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-416
417	417	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-417
418	418	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-418
419	419	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-419
420	420	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-420
421	421	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-421
422	422	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-422
423	423	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-423
424	424	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-424
425	425	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-425
426	426	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-426
427	427	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-427
428	428	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-428
429	429	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-429
430	430	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-430
431	431	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-431
432	432	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-432
433	433	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-433
434	434	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-434
435	435	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-435
436	436	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-436
437	437	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-437
438	438	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-438
439	439	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-439
440	440	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-440
441	441	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-441
442	442	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-442
443	443	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-443
444	444	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-444
445	445	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-445
446	446	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-446
447	447	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-447
448	448	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-448
449	449	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-449
450	450	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-450
451	451	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-451
452	452	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-452
453	453	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-453
454	454	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-454
455	455	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-455
456	456	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-456
457	457	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-457
458	458	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-458
459	459	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-459
460	460	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-460
461	461	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-461
462	462	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-462
463	463	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-463
464	464	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-464
465	465	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-465
466	466	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-466
467	467	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-467
468	468	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-468
469	469	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-469
470	470	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-470
471	471	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-471

472	472	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-472
473	473	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-473
474	474	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-474
475	475	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-475
476	476	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-476
477	477	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-477
478	478	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-478
479	479	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-479
480	480	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-480
481	481	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-481
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499	499	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-499
500	500	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-500
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502	502	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-502
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504	504	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-504
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509	509	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-509
510	510	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-510
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517	517	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-517
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530	530	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-530
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673	673	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-673
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675	675	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-675
676	676	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-676
677	677	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-677
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683	683	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-683
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686	686	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-686
687	687	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-687
688	688	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-688
689	689	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-689
690	690	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-690
691	691	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-691
692	692	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-692
693	693	PIPE	IN		14303.36	14374.15	14374.15	-9.15		-693

10/11/2023

Lobo 285 SWD #1 Packer Setting Exception Request

Solaris would like to request a packer setting depth exception on the above captioned well. As per the attached, final, completion wellbore diagram, the permanent packer setting depth (center element) is 14,371' which is in the first full length joint of 5-1/2" casing in the repair liner. This places the base of the packer tail pipe 8.5' above the top of fish detailed below. The top of the injection zone (7-5/8" shoe) is 14,533' which would place the proposed packer setting depth at 162' above the top of the injection zone, outside of the typically required 100' window. After installation of the injection packer and injection tubing, a final MIT was called out for witness and subsequently performed to ensure wellbore integrity. Please see below for the history of this workover to date. Please see also the included, approved NOI for the workover, MIT, and bradenhead test.

This original workover was planned to repair a suspected tubing leak. There was and still is a permanent packer in the hole (as shown on the WBD) set at 14,496' with a landed seal assembly requiring a straight pull up to remove the seal assembly from the packer. After NU the hydraulic BOPs we were unable to pull the injection tubing string free after multiple attempts.

It was decided to attempt to use wireline to jet cut the injection tubing string such that we could remove the injection tubing string and mill out the existing permanent packer or set a new one above and still be within the 100' window. A free point log was ran showing stuck pipe up to a 100% free depth of 13,147'. The first cut was attempted approximately 20' above the top of the packer at 14,471' but was unsuccessful. A second jet cut was made at 13,826' and was successful. The 5-1/2", 5", and a portion of the 3-1/2" injection tubing was tripped out of the hole and laid down. This left 665' of 3-1/2" injection tubing, the seal assembly, and permanent packer still in the hole.

A wash shoe fishing/clean out run was subsequently made with good success reaching a depth of 14,403' cleaning out between the 3-1/2" tubing and the 5-1/2" casing. A second wash shoe run was made only making an additional 5' to a depth of 14,408'. After these first two runs, 582' of the 3-1/2" tubing was swallowed and cleaned around. The next run was an overshot with a primary goal of pulling the entire fish free and a secondary goal of making another jet cut to remove additional fish from the hole. The overshot was never able to get a good bite and kept slipping off at 20k lbs of overpull. The first overshot was pulled from the hole and a hardened steel version was ran next. This overshot was able to get a good bite on the fish. While attempting to pull the entire fish free, the 3-1/2" tubing string parted. Once out of the hole it was found a pin broke off inside of the next box at 14,403' and getting an additional 577' of 3-1/2" injection tubing out of the hole.

After laying down the additional 3-1/2" fish, a third wash shoe run was made reaching a depth of 14,408' or swallowing 5' of remaining 3-1/2" fish. Top of fish remained at 14,403'. The final attempt at retrieving the fish was made via an overshot and jars. The fish was jarred on until the overshot was no longer biting on the fish and slipping off. The overshot/jar assembly was tripped out of the hole with no additional fish retrieved to surface, top of fish still at 14,403'. We were unable to successfully remove

the entire fish from the wellbore leaving the permanent packer, seal assembly, and 90' of 3-1/2", 9.3#, P-110, EZGO FJ3 tubing still in the hole.

A gauge ring and 60 arm caliper log were ran from top of fish to surface with no issues and no signs of damage to parent casing string. Subsequently, the wellbore was displaced with 8.3 ppg fresh water and an RBP ran and set at 14,386'. A positive test was performed to 1,500 psi and help for 30 minutes with no pressure loss/gain. A negative test was then performed for 13 hours with 0 psi pressure gain. The RBP was then retrieved with no issues. A permanent Halliburton packer was then ran and center element set at 14,371' and injection tubing ran as shown on the WBD.

An MIT was called out and performed along with a bradenhead test, both attached.

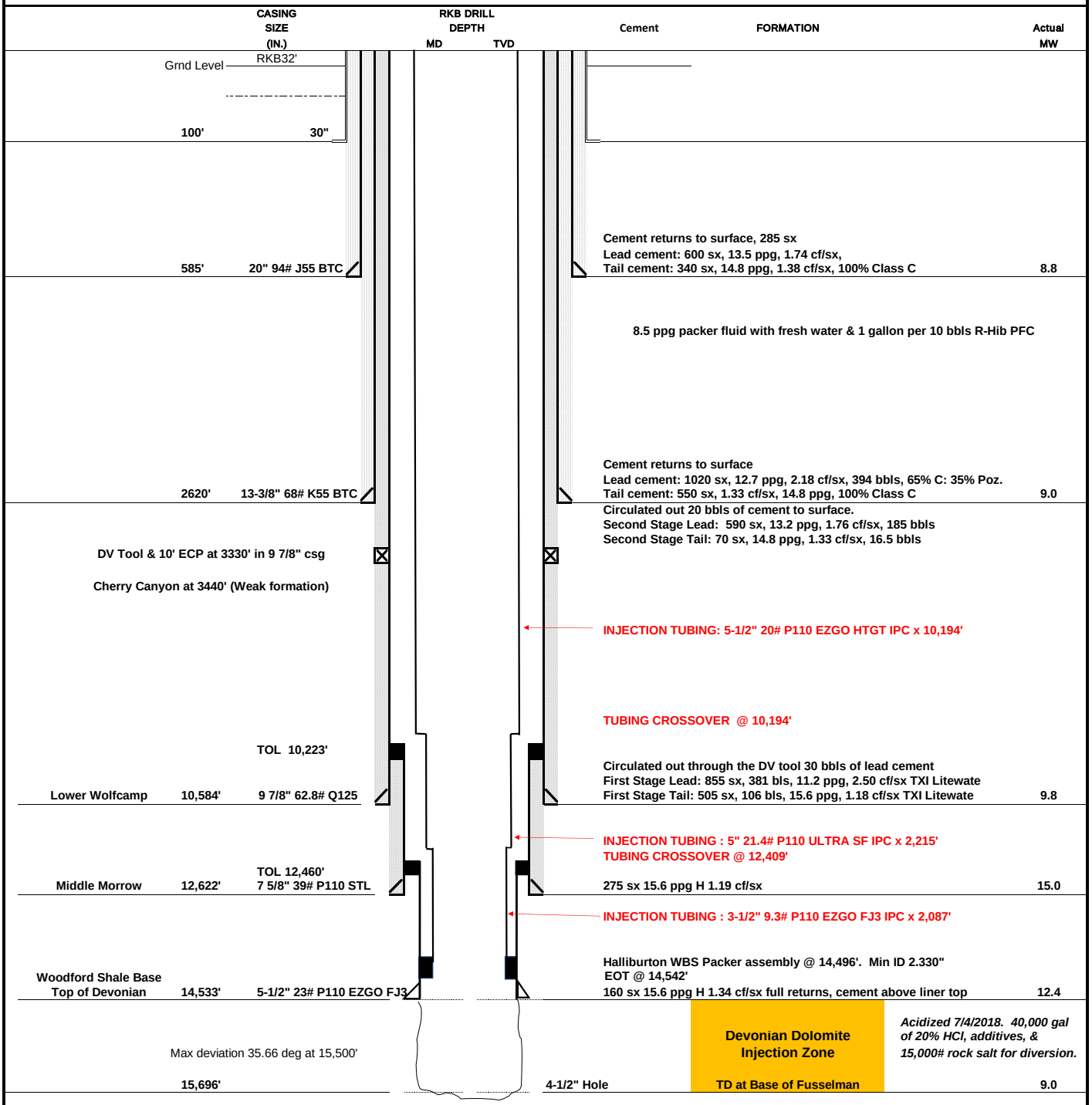
Christopher Giese
Drilling Engineer
Solaris Midstream

SOLARIS MIDSTREAM

LOBO 285 SWD #1

FINAL WELLBORE DATA SHEET AS OF 7/13/18

WELL:	**LOBO 285**	**TOTAL DEPTH:**	15,696'
LOCATION:	330 FNL and 1320 FEL, Sec. 22, UL B T25S R28E	**SURF. LOC'N:**	
	EDDY COUNTY, NEW MEXICO	**BTM. HOLE LOC'N:**	Same As Above
OBJECTIVE:	DEVONIAN SWD	**SURFACE ELEV.:**	2,994'
		DRAWN BY: JIM DOCHERTY	



INJECTION TUBULARS

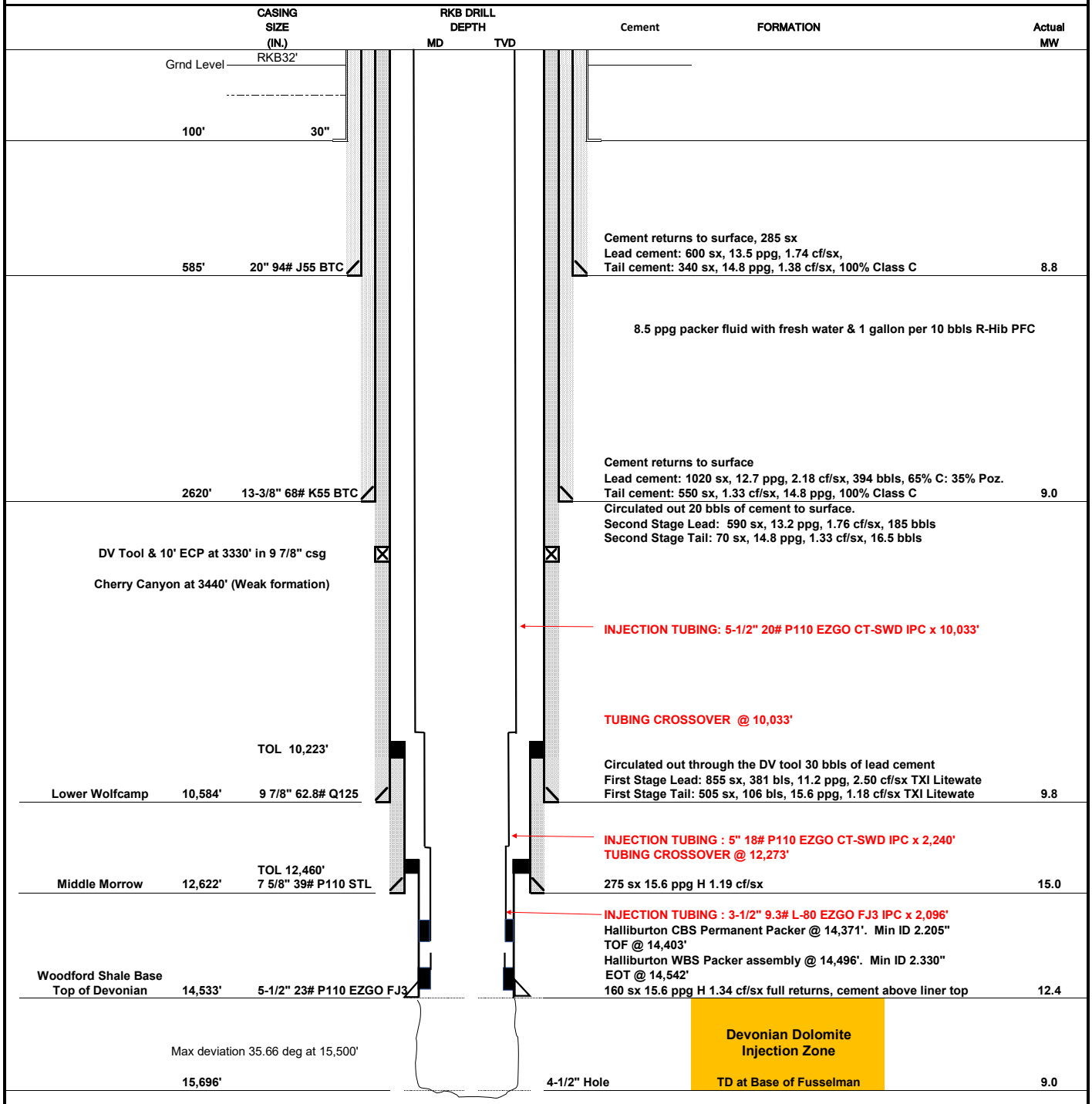
SIZE	WEIGHT & GRADE	THREAD	IPC?	TOP	BOTTOM	LENGTH
5-1/2"	20# P110	EZGO HTGT	YES	0'	10194'	10,194'
5"	21.4# P110	ULTRA SF	YES	10,194'	12,409'	2,215'
3-1/2"	9.3# P110	EZGO FJ3	YES	12,409'	14,496'	2,087'

SOLARIS MIDSTREAM

LOBO 285 SWD #1

PROPOSED WELLBORE DIAGRAM

		TOTAL DEPTH:	15,696'
WELL:	Lobo 285 SWD 1	SURF. LOC'N:	
LOCATION:	330 FNL and 1320 FEL, Sec. 22, UL B T25S R28E	BTM. HOLE LOC'N:	Same As Above
	EDDY COUNTY, NEW MEXICO	SURFACE ELEV.:	2,994'
OBJECTIVE:	DEVONIAN SWD	DRAWN BY: Chris Giese	



INJECTION TUBULARS

SIZE	WEIGHT & GRADE	THREAD	IPC?	TOP	BOTTOM	LENGTH
5-1/2"	20# P110	EZGO CT-SWD	YES	0'	10,033'	10,033'
5"	18# P110	EZGO CT-SWD	YES	10,033'	12,273'	2,240'
3-1/2"	9.3# L-80	EZGO FJ3	YES	12,273'	14,369'	2,096'

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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 275174

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 275174
	Action Type: [C-103] NOI Workover (C-103G)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	2/22/2024