Ceined by Opp 2/26/2024 9:26 Office	:44 AM Sta	te of New Mexi	со		Form C-963
<u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Min	erals and Natural	I Resources	WELL API N	NO. 30.015.42356
$\frac{\text{District II}}{811 \text{ S. First St., Artesia, NM 88210}}$	OIL CONS	SERVATION D	DIVISION	5. Indicate T	ype of Lease
$\frac{\text{District III}}{1000 \text{ Rio Brazos Rd., Aztec, NM 8741}}$) 1220 S	South St. Franci	ls Dr.	STAT	E X FEE
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	Sal	lia re, inivi 8750	05	6. State Oil &	& Gas Lease No.
SUNDRY N	OTICES AND REPOR	TS ON WELLS	DAGW TO A	7. Lease Nar	ne or Unit Agreement Name
(DO NOT USE THIS FORM FOR PRO DIFFERENT RESERVOIR. USE "AP PROPOSALS.)	POSALS TO DRILL OR TO PLICATION FOR PERMIT	UDEEPEN OR PLUG (FORM C-101) FOR S	BACK TO A SUCH	Cottonwo	ood 2 State SWD
1. Type of Well: Oil Well	Gas Well 🗌 Oth	er SWD		8. Well Num	iber 1
2. Name of Operator Solaris Water Midstream, L	LC			9. OGRID N 371643	lumber
3. Address of Operator				10. Pool nam	ne or Wildcat
9651 Katy Freeway, Suite 4	00, Houston, TX 77024	ł		SWD; D	evonian
4. Well Location Unit LetterO:_	feet from th	e <u>South</u>	line and _1400	feet fro	om the <u>East</u> line
Section 2	Townsh	nip 26 S Rang	ge 26 E	NMPM	County Eddy
	11. Elevation (Sh	ow whether DR, R	KB, RT, GR, etc.)		
	3,963.5' GR				
12. Chec	k Appropriate Box	to Indicate Nati	ure of Notice, I	Report or Ot	her Data
NOTICE OF PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING DOWNHOLE COMMINGLE CLOSED-LOOP SYSTEM OTHER: 13. Describe proposed or co of starting any proposed work	INTENTION TO: PLUG AND ABAI CHANGE PLANS MULTIPLE COM mpleted operations. (C) SEE RULE 19.15.7.14 NI	NDON F S C PL C Clearly state all pert MAC. For Multiple Co	SUBS REMEDIAL WORK COMMENCE DRIL CASING/CEMENT DTHER: tinent details, and mpletions: Attach we	SEQUENT ([LING OPNS.[JOB [give pertinent llbore diagram of	REPORT OF: ALTERING CASING P AND A dates, including estimated date proposed completion or recompletion.
Solaris Water Midstream has the originally approved worke the retrievable AS1-X packer. A more detailed summary is i	completed the workover on to ver NOI, a drilling rig with h n the attached work plan.	he above captioned wel nydraulic BOPs was rigg	l, finished with a succ ged up and the existing	essful bradenhead g injection tubing	and MIT test on 09.24.2024. As per was pulled out of the hole, including
Spud Date: 07/12/2014		Rig Release Date:	09/18/2014		
		C			
I hereby certify that the information	on above is true and co	omplete to the best	of my knowledge	and belief.	
I hereby certify that the informat	on above is true and co	TITLE Sr. Engine	of my knowledge	and belief.	DATE 00/26/2024
I hereby certify that the informat SIGNATURE Lauren N.	on above is true and co	_ TITLE Sr. Engine	of my knowledge eering Tech	and belief.	_DATE_09/26/2024
I hereby certify that the informat SIGNATURE <u>Lawren N.</u> Type or print name <u>Lauren N. Be</u> For State Use Only	ion above is true and co Bean can	TITLE Sr. Engine	of my knowledge eering Tech lauren.bean@aris	water.com	_DATE_09/26/2024 PHONE: <u>281-732-8785</u>
I hereby certify that the informat SIGNATURE <u>Lawren N.</u> Type or print name <u>Lauren N. Br For State Use Only</u> APPROVED BY:	on above is true and co	TITLE Sr. Engine E-mail address:	of my knowledge eering Tech lauren.bean@aris	water.com	_DATE_09/26/2024 PHONE: <u>281-732-8785</u> DATE

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Received by OCD: 9/26/2024 9:26:44 AM



Date	9/1/2024			Bill To:	Solaris
Ticket Number		11412060	Cementer:		
Location	Midland		Balente Gonzales	_	

Company	Solaris		Well Name	Cottonwood 2 State SWD 1				
County	Eddy	State	New Mexico	Rig	Workover			
Јор Туре	Squeeze	Casing Size	7	Casing Depth				
Description	Quantity	Unit Cost	Units	Gross Amount	Net Amount			
Pump Charge O' to 1000'	1	\$3,020.0) EA	\$3,020.00	\$1,359.00			
Pump Charge - Additional Hours	0	\$2,250.0) HR	\$0.00	\$0.00			
HV Mileage	200	\$13.7	5 MI	\$2,750.00	\$1,237.50			
LV Mileage	200	\$8.1	3 MI	\$1,626.00	\$731.70			
Data Acquisition	1	\$1,305.0) EA	\$1,305.00	\$587.25			
Thickening Time Test, Field Blend	1	\$2,485.0	D EA	\$2,485.00	\$1,118.25			
Diesel Fuel Surcharge	1	\$1,090.0	D EA	\$1,090.00	\$490.50			
Squeeze Manifold	1	\$1,325.0	D EA	\$1,325.00	\$596.25			
Tubing Swage	0	\$415.00) EA	\$0.00	\$0.00			
* *								
Subtotal for Pumping & Equipment Charges				\$13,601.00	\$6,120.45			
Compass Poz-Mix	120	\$33.9	SACKS	\$4,074.00	\$1,833.30			
Class C Premium	180	\$61.10	SACKS	\$10,998.00	\$4,949.10			
Calcium Chloride	516	\$2.68	B LB	\$1,382.88	\$622.30			
C-51 Suspension Agent	8	\$48.55	5 LB	\$388.40	\$174.78			
Magnesium Oxide	1,290	\$5.02	LB	\$6,475.80	\$2,914.11			
CFL-1	104	\$72.81	LB	\$7,572.24	\$3,407.51			
Solaris Water Midstream Well/Pipeline Cotton Wood 2 57500 #1 AFE# Project # EXP 202408100 GL Account# _/655_Date: 9-1-24 SOLARIS Rep:								
DFL-1	5	\$159.42	GA	\$797.10	\$358.70			
Sugar	300	6.45	LB	\$1,935.00	\$870.75			
				a transfer and the second s				
Materials Handling	333	4.35	CF	\$1,448.55	\$651.85			
Drayage	60,000	0.10	SK x MI	\$6,240.00	\$2,808.00			
Subtotal for Materials Charges				\$41,311.97	\$18,590.39			
Gross Price Subtotal					\$54,912.97			
Discount					55.0% (\$30,202.13)			
Pre-tax Total					\$24,710.84			

Service Receipt: I certify that the materials and services listed were received and all services performed in a workmanlike manner.

Company Rep: ____

Printed:

COMP	ASS JC	OB LOG	6		Solaris				Cottonwood 2 State SWD 1	Squeeze	Ticket Number	11412060
Date	Time	PRESSL	JRES PSI	1	FLUID PUN	APED DATA		RETURNS		1		
oute		DRILL PIPE/	ANNULUS	TOTAL STAGE	VOLUME	RATE	FLUID TYPE	WELL		REMARKS		
00/04/24		CASING		VOLUME	PUMPED	(BBLS MIN.)		(F, P, NR)				
09/01/24	4:00								Cement Crew Left Compass Vard			
	8:30							1	Cement Crew Arrived On Location			
	9:00								Hazard Assesment/Spot Trucks			
	9:15			ļ					Pre-Rig Up Safety Meeting/Rig Up			
	9:55								Rig Up Completed			
									lob Information:			
								-				
									Casing: 7" Weight: 29# Grade: P	-110		-
									Previous Casing: 9.625" Weight: 4	43.5# Grade: P-110		
									Weber Tests Chilesides 500 Sulfat			
									Water Test: Chiorides-500 Sulfate	es-200 PH-6 Iron-5 Temp-75		
	10:10								Pre-Job Safety Meeting			
	10:15	5		1	1	2	H2O	NR	Prime Lines With Fresh Water			
	10:19	750		1	1	1	H2O	NR	Test Lines			
	10:21	160		6.5	6.5	4	H2O	NR	Break Circulation And Pump 6 bbls	s Of Fresh Water		
	10:25	100		15	15	4	cement	F	Shutdown/Wash Lin	4 DDIS TO Get Cement To Surface		
	10:32	50		1	1	1	H2O	<u> </u>	Displaced 1 bbl of Fresh Water Do	wn 7" Casing		
	10:48								Shutdown			
	10:50	100							Closed In Well With 100 PSI			
	11:00								Pre-Rig Down Safety Meeting			
	11:50								Departure			
				1								
											A CONTRACT OF	
				+							and the second se	
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				<u> </u>								
									C. F 410 A 1 10			
									0 X 5-110 4 X 4- 40			
											10 10 10 10 10 10 10 10 10 10 10 10 10 1	
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Received by QCD: 9/26/2024 9:26:44 AM-

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rage	4	IJ	55

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JOB TYPE			Bid Pr	epared By	Joseph Ke	ler	Ticket Nun	nber 114
		L Liner		n 🗌 PTA	[⊻] Squeeze	└ Surface		
CASING DAT	A			en norden i ser en				
Size		Depth	Grade	Weight	Bbl/Ft Factor	Cuft/Ft Fact	or Max	imum Pre
7"			P-110	29#	0.0371	0.2086		
9.025			P-110	45.5#	0.0745	0.4181		
DRILL PIPE /	TUBING DATA							
Size	1	Depth	Grade	Weight	Bbl/Ft Factor	Cuft/Ft Fact	or Max	imum P
OPEN HOLE	DATA							
Size		Depth	Excess %		Bbl/Ft Factor	Cuft/Ft Fact	or	
OPEN HOLE	ANNULUS DATA							
Size	1	Depth	Excess %		Bbl/Ft Factor	Cuft/Ft Fact	or Max	imum I
PREVIOUS CA	ASING ANNULUS	DATA						
Size	(Depth	Grade	Weight	Bbl/Ft Factor	Cuft/Ft Fact	or Max	imum
		TDATA						
VIUD / SPA	ACER / CEIVIEN	DATA		DACED		JOB	WATER REQU	IREMI
Type	Density		Туре	DFALEK	Density Volu	ne / BBLs Tota	Spacer Water (Bb	(Bbls)
		Fi	resh Water		8.3	6.5 Tota	Disp Water (Bb	ols)
						Tota	Wash Up Wate	er (Bbls
						Tota	Additional Wat	ter (Bb
					l	Tank	Bottoms	
			Spacer 3	additives				
			Space	, J uuditives		Tota	Water Require	ed
CEMENT SI	LURRIES							
Тур	e Sacks	s Dens	ity Yie	ld cuft/sk	Gal/Sk Ex	cess % Thick	ening Time	
ASING / F	CLOATING EQUI	IPMENT Depth	Man	ufacturer	Туре	0	Jantity	
ASING / F ype loat Shoe	CLOATING EQUI	IPMENT Depth	Man	ufacturer	Type Centeralizers	Qe	uantity	
CASING / F ype loat Shoe loat Collar	CLOATING EQUI	IPMENT Depth	Man	ufacturer	Type Centeralizers Top Plug	Qe	uantity	
ASING / F ype loat Shoe loat Collar tage Tool(s)	CLOATING EQU	IPMENT Depth	Man	ufacturer	Type Centeralizers Top Plug Bottom Plug	Qu	uantity	
CASING / F ype loat Shoe loat Collar tage Tool(s) xternal Casing iner Hanner	CLOATING EQUI	IPMENT Depth	Man	ufacturer	Type Centeralizers Top Plug Bottom Plug Foam Wiper Ball	Qe	uantity	
CASING / F ype loat Shoe loat Collar tage Tool(s) xternal Casing iner Hanger	FLOATING EQUI	IPMENT Depth	Man	ufacturer	Type Centeralizers Top Plug Bottom Plug Foam Wiper Ball	Qı	uantity	
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CASING / F ype loat Shoe loat Collar tage Tool(s) xternal Casing iner Hanger JISPLACEN isp. Fluid Type	s Packer Packer Packer Fresh V	IPMENT Depth ID VOLUME Water	Man	ufacturer	Type Centeralizers Top Plug Bottom Plug Foam Wiper Ball	Q.	Jantity 8.33	
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CEMENTING SUMMARY



Released to Imaging: 10/23/2024 1:09:57 PM

Field Test - Water Analysis Report

9/1/2024	11412060	Squeeze	Midland
Date Recorded	#OS	Job Type	Camp Location
Solaris	Balente Gonzales	Cottonwood 2 State SWD 1	
COMPANY:	SUBMITTED BY:	LEASE and WELL#:	Test Kit Number:

CEMENT MIX WATER REQUIREMENTS

			Max.	
	Recorded		Acceptabl	
ltem	Test Value	Units	e Limit	Potential Problems in Exceeding Limit
рН	9		6.0 - 8.0	Chemicals in the water can cause severe acceleration or retardation
Chlorides	500	mdd	3000 ppm	Can shorten thickening time of cement
Sulfates	200	mdd	2000 ppm	Will greatly reduce Cement Compressive Strength
Iron	5	mdd	300 mg/L	Can reduce Cement Compressive Strength
Temperature	75	oF	40-100 °F	High temps will accelerate; Low temps may risk freezing in cold weather

Received by OCD: 9/26/2024 9:26:44 AM

• OCD: 9	9/26/2024 9:26	5:44 AM						h I	Page 7 of 55
Date	9/4/2024	Cementer:	Bill To:	Solaris Ticket Number	11412080		(neuting
Location	Midland	ART MEDINA							
Company	Solaris		Well Name	Cottonwood 2 Sta	te SWD 1				
County	Eddy	State	New Mexico		Rig	Wo	rkover		
Job Type	Squeeze	Casing Size	0	Casing Depth		5	0		
w/s	Item Code	Description	Quantit	y Unit Cost	Unit	Gross Amount	N	let Amount	
	10001-10	Pump Charge 0' to 1000'	1	\$3,020.00	EA	\$3,020.00	\$	1,359.00	
	10024-10	Pump Charge - Additional Hours	(52,250.00	HR	\$0.00	Ş	1 227 50	
	30002-10	HV Mileage	200) \$13./5	ivii Nai	\$2,750.00	2 c	721 70	
	30001-10	LV Mileage	200) \$8.13	IVII E A	\$1,020.00	4	587 25	
	10045-10	Data Acquisition		L \$1,305.00	EA EA	\$1,505.00	, k	1 118 25	
	10052-10	Thickening Time Test, Fleid Blend	-	L \$2,465.00	EA	\$2,485.00	š	490.50	
	10031-10	Diesei Fuel Surcharge	-	1 \$1,030.00	FΔ	\$1,325.00	Ś	596.25	
	10090-10	Squeeze Manifold		\$415.00 \$415.00	FΔ	\$0.00	Ś	-	
	1001-10	торид змаде				,			
	20003-10 20010-10	Subtotal for Pumping & Equipment Cha Compass Poz-Mix Class C Premium	arges 128 192	3 \$33.95 2 \$61.10	SACKS	\$13,601.00 \$4,345.60 \$11,731.20	\$ \$ \$	6,120.45 1,955.52 5,279.04	
1	21001-10	Calcium Chloride	551	\$2.68	LB	\$1,476.68	\$	664.51	
	29013-10	C-51 Suspension Agent	9	\$48.55	LB	\$436.95	\$	196.63	
	29036-10	Magnesium Oxide	1,376	5 \$5.02	LB	\$6,907.52	\$	3,108.38	
	29059-10	CFL-1	11:	L \$72.81	LB	\$8,081.91	\$	3,636.86	
	V	Solaris Water Mic	istream Jood 2	<u>57</u> 3W1	,#/				
	ŀ	AFE# Project # \underline{EXP}	2024	<u>08/00</u>)				
	C	GL Account# _//@55	_Date:	1-424	4			,	
	S	SOLARIS Rep:	Marc	D					
	30003-10	Materials Handling	356	5 \$4.35	CF	\$1,548.60	\$	696.87	
	30004-10	Drayage	160,000	\$0.10	SK x MI	\$16,640.00	\$	7,488.00	
		Subtotal for Materials Charges				301,108.40	12	6A 760 AC	
		Gross Price Subtotal				EE 00/		(35 623 20)	
l l		Discount	from Sauceze #1			33.0%		(11,127.67)	
		Creuit for Gluseu 240 Sacks of Cement					Ś	18,018.59	
				andan Banstahi		matorials and so	nuicor	listed were	

received and all services performed in a workmanlike manner.

Company Rep:

Printed: _

COMP	ASS J	DR FOG		1	Solaris			Larrie	Cottonwood 2 state SWD 1	oqueeze	licket Number	11412080	
Date	Time	PRESSU	JRES PSI	TOTAL STAGE	FLUID PUN VOLUME	RATE		WELL		REMARKS			
		CASING	ANNULUS	VOLUME	PUMPED	(BBLS MIN.)	FLOID TYPE	(F, P, NR)					
09/04/24	3:00								CREW CALLED OUT				
	7:00								CREW LOADED AND LEAVING YARD				
	10:30								CREW ARRIVED ON LOCATION				
	10:35								PRE RIG UP SAFETY MEETING WITT	H ALL CWS EMPLOYEES			
	10:45		-						GROUND RIG UP COMPLETE				
	11.50												
									WELL INFORMATION:				
									PREVIOUS CASING- 50' 13 3/8 J	-55 54.5#			
	_								CASING - 7" 29				
									DISPLACEMENT06 BBLS				
									PERFS AT 50				
									SAFETY MEETING WITH ALL CWS,	SOLARIS MIDSTREAM EMPLOY	/EES		
									RIG UP REMAINDER OF CWS EQUI	PMENT			
									DRESSURE TEST DUMADS AND UNES	TO 1600 PSI			
	8:45							-	RELEASE PRESSURE	10 1000 1 51			
	0.55												
	9:02	190		5	5	2	WATER	F	ESTABLISHED CIRCULATION/ BATCHED UP CEMENT				
	9:04								SHUTDOWN				
	9:09	190		5	5	2	PRIMARY	F	PUMPED 7 BBLS OF GOOD CEMEN	T TO FILL CASING AND BACKSI	DE		
	9:12								SHUTDOWN/ AND SHUT IN CASING	G			
	9:13			1.5	1.2	0.5	DDIMADY	ND	OPENED THE BACKSIDE				
	9:15	990		1.6	1.2	0.5	PRIVIANT	INIT	SHUT DOWN TO HESITATE				
	9:23	1040			0.1	0.5	PRIMARY	NR	PUMPED 0.1 BBL DOWN THE BRADENHEAD				
	9:24			l					SHUTDOWN TO HESITATE				
	9:25	980			0.1	0.5	PRIMARY	NR	SHUTDOWN TO HESITATE				
	9:26	1020			0.1	0.5	PRIMARY	NR	R PUMPED 0.1 BBLS DOWN THE BRADENHEAD				
	9:52								SHUTDOWN TO HESITATE				
	10:29	1030			0.1	0.5	PRIMARY	NR	PUMPED 0.1 BBLS DOWN THE BRADENHEAD				
	10:30								Shorbown to histikite				
	10:36								WASHED PUMPS AND LINES TO PI	Т			
	10.10	070		0.05		0.5	MATER	ND	DUMD DISPLACEMENT OF BRISD	OWN THE BRADENHEAD			
	10:43	970		0.05	0.1	0.5	WATER	NR	PUMPED 0.1 BBLS DOWN THE BRA	DEN HEAD			
	10:48	1500			0		WATER	NR	PUMPED 0 BBLS DOWN				
				ļ									
	10:49	1500											
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Tune lob Saucera		Lease and W	ell Number	Cottonwood	2 State SWD	1		
Ahe ion 2dneeze		Bid Prepared	і Вү	Billy Gideon	1	Ticke	t Number 1141208	0
JOB TYPE	nediate 🗌 🗌 Une			Squeeze	L] Surface			
CASING DATA								
Size	Depth	Grade We	ight Bbl/F	t Factor	Cuft/Ft	Factor	Maximum Pressure	
7	50	2	9					
	ATA							
DRILL PIPE / TUBING DA	Death	Grade We	ight Bhl/F	t Factor	Cuft/Ft	Factor	Maximum Pressure	
5120	Depth	diluc inc	1911. 0041					
						_		
OPEN HOLE DATA					0.1./5	F		
Size	Depth	Excess %	Bbl/f	t Factor	Cutt/H	Factor		
OPEN HOLE ANNULUS I	DATA							
Size	Depth	Excess %	Bbi/F	t Factor	Cuft/Ft	Factor	Maximum Pressure	
PREVIOUS CASING ANN								
Size	Depth	Grade Weie	ht Bbl/i	t Factor	Cuft/Ft	Factor	Maximum Pressure	
13 3/8	50	J-55 54	1.5		and the second			
MUD / SPACER / CE	MENT DATA					JOB WATER	REQUIREMENTS (B	BLS)
MUD		SPACE	2		. /	Total Mix Wa	ter (Bbls) Motor (Bbls)	47
Type Density		Туре	Density	Volum	IE / BBLS	Total Disn Wa	ter (Bbis)	1
WATEK 8.33				1		Total Wash U	p Water (Bbls)	20
						Total Addition	al Water (Bbls)	0
				1		Safety Factor	- 20%	14
						FOLIN DUCTORINS		20
		Spacer 3	1	T				
		Spacer 3 add	litives					122
				-		Total Water H	equirea	134
CEMENT SLURRIES	Contra D	white Viold out /	ck Gal/Sk	Evo	000 %	Thickening Ti	me	
Type Sausona Compart	320 1	4 50 1.32	6.10	10	0.0%			
CASING / FLOATING	6 EQUIPMENT							
CASING / FLOATING	6 EQUIPMENT Depth	Manufactur	er Type			Quantity	Manufac	turer
CASING / FLOATING Type Float Shoe	6 EQUIPMENT Depth	Manufactur	er Type Centr			Quantity	Manufac	turer
CASING / FLOATING Type Float Shoe Float Collar Starge Tool(c)	6 EQUIPMENT Depth	Manufactur	er Type Centr Top F Both	eralizers lug m Plug		Quantity	Manufac	turer
CASING / FLOATING Type Float Shoe Float Collar Stage Tool(s) External Casing Packer	EQUIPMENT Depth	Manufactur	er Type Centr Top F Botte Foar	eralizers lug m Plug Wiper Ball		Quantity	Manufac	turer
CASING / FLOATING Type Float Shoe Float Collar Stage Tool(s) External Casing Packer Liner Hanger	EQUIPMENT Depth	Manufactur	er Type Centr Top F Botto Foarr	eralizers lug m Plug Wiper Ball		Quantity	Manufac	turer
CASING / FLOATING Type Float Shoe Float Collar Stage Tool(s) External Casing Packer Liner Hanger	EQUIPMENT Depth	Manufactur	er Type Centr Top F Botte Foar	eralizers lug m Plug Wiper Ball		Quantity	Manufac	turer
CASING / FLOATING Type Float Shoe Float Collar Stage Tool(s) External Casing Packer Liner Hanger DISPLACEMENT FLU	EQUIPMENT Depth	Manufactur	er Type Centr Botto Foar	eralizers lug m Plug Wiper Ball	sity (PPG)	Quantity	Manufac	turer
CASING / FLOATING Type Float Shoe Float Collar Stage Tool(s) External Casing Packer Liner Hanger DISP. Fluid Type Disp. Fluid Type Disp. Fluid Type	EQUIPMENT Depth Depth IID AND VOLUME Fresh Water	Volume (Bbls. Volume (Bbls.	er Type Centr Top F Botto Foarr	eralizers lug m Plug Wiper Ball Den Den Den	sity (PPG)	Quantity	Manufac	turer
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Date and Time Requested on Location:

8:00

09/04/24

Date and Time Arrived on Location:

7:00

09/04/24

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Field Test - Water Analysis Report

	LEASE and WELL#:	SUBMITTED BY:	COMPANY:	
	Cottonwood 2 State SWD 1	ART MEDINA	Solaris	
Camp Location	Job Type	SO#	Date Recorded	
Midland	Squeeze	11412080	9/4/2024	

CEMENT MIX WATER REQUIREMENTS

High temps will accelerate; Low temps may risk freezing in cold	40-100 °	9	69	Temperature
Can reduce Cement Compressive Strength	300 mg/l	mdd	0	Iron
Will greatly reduce Cement Compressive Strength	2000 ppn	ppm	800	Sulfates
Can shorten thickening time of cement	3000 ppn	ppm	500	Chlorides
Chemicals in the water can cause severe acceleration or retarc	6.0 - 8.0		7	Нd
Potential Problems in Exceeding Limit	Max. Acceptab e Limit	Units	Recorded Test Value	ltem

1 1 1



Post-Job Report

5.5 x 7 in. 29.0 lb/ft ESeal Liner- upper liner

Solaris Water LLC

Cottonwood 2 ST SWD Lower liner Permian Basin Eddy County, NM

September 6, 2024 – September 13, 2024

Prepared by	:	Richard Breaux
Mobile	:	713-294-0091
Office	:	281-552-2200
Fax	:	281-552-2201
E-mail	:	richard.breaux@enventuregt.com

Version: 1.0

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Expandable Pipe Tally	
Elastomer Details.	11
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This document contains information that is confidential and proprietary to ENVENTURE GLOBAL TECHNOLOGY and should not be disclosed to third parties without prior written permission from ENVENTURE GLOBAL TECHNOLOGY.

Purpose

To safely and successfully install a 5-1/2 in. x 7 in. 29 lb./ft. ESeal Liner. The liner will be used to cover up and isolate squeezed perforations in 7 in. 29 ppf casing at 2,250 ft MD. The ESeal Liner e set from ~2,185 ft MD (top of liner post expansion) to ~2,310 ft MD (bottom of liner post expansion). The exact setting depth will be determined on location after tallies have been completed and will be communicated and approved by the Solaris Water Engineer and Enventure's operations in office.

Scope

This process applies to all operations personnel of Enventure Global Technology, Inc. (EGT) and its global locations.

Responsibility

- **Operations Management -** Responsible for reviewing and ensuring training and implementation of this process for relevant operation installations
- **Operations / Project Managers** Responsible for adjusting the generic installation procedures as applicable for relevant jobs, communicating the procedure internally and externally, and following the requirements during operations
- **Sales Manager** Responsible for maintaining client relationships and dispersing customer information and requirements to relevant EGT stakeholders.
- Engineering Provides technical support, such as but not limited to evaluation of customer technical information and development of EGT System Design Specifications.

References

- API Specification Q2
- ISO 9001

Customer's WBS:

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Enventure's WBS:

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5.500 11. 00	Solaris Cottonwood	Water 2 St SWD 1	
	Prelin	ninary	
External Base Casing		SET Liner Pre-Expansion (2)	
Nominal OD	7.000 in.	SET Liner Grade	EX-80
Weight	29.00 lb/ft	Connection Type	GIIC
Nominal ID	6.184 in.	Nominal Yield Strength	80,000 ps
API Drift	6.059 in.	Minimum Ultimate Strength	95,000 ps
Connection Type	LTC	Nominal OD	5.500 in.
Connection ID	6.184 in.	Nominal ID	4.840 in.
Other ID Restriction	6.184 in.	API Drift	4.715 in.
		Nominal Wall Thickness	0.330 in.
Launcher		Weight	18.24 lb/f
Launcher OD - Pre Exp	5.969 in.		
		SET Liner Post-Expansion (2,3)	
Connection Sleeves		Nominal OD	6.071 in.
Set in Base Casing - Pre Exp OD	5.651 in.	Nominal ID	5.440 in.
Set in Base Casing - Expanded OD	6.151 in.	Drift	5.381 in.
		Nominal Wall Thickness	0.316 in.
		Nominal Weight	19.42 lb/f
		Internal Yield	7,490 psi
XPC Pre-Expansion Connection Specific	ations	Burst (4)	10,140 ps
Tension Load Yield Rating	241,800 lb	Collapse Rating (5)	4,120 ps
Compressive Load Rating	241,800 lb	Expansion Ratio	12.4%
Minimum Parting Load	287,200 lb	Pipe Body Yield Strength	402,600 I
Dogleg Severity Rating While Running	19.9 deg/100 ft		
		Anchor Hanger	
XPC Post-Expansion Connection Specifi	cations	Set in Base Casing - Elastomer Thickness	0.120 in.
lension Load Yield Rating	202,500 lb	Pre-Exp Seal OD	5.740 in.
Compression Load Rating	166,700 lb	Clad in Base Casing (nominal)	48.7%
Minimum Parting Load	250,600 lb		
Dogleg Severity Rating During Expansion	16.0 deg/100 ft	Limits while RIH	
		Max. Running OD	5.969 in.
Well Bore Conditions (1)		Max. Pump Rate (unlimited time)	2.5 BPM
SET String Length	125ft		
Wellbore Maximum Dogleg Severity	0.0 deg/100 ft		
Deviation	0°		
Mud Weight	8.5 lb/gal		
Bottomhole Temperature (BHT)	150 F		
 Changes in wellbore conditions require de All the published liner ratings and strengt 	isign review. hs are based on room te	emperature (75F), and not adjusted for BHT.	
(3) Liner ratings are based on standlone liner	without any support fro	om base or external parent casing	
(4) Hill's Fully-Plastic Burst Limit - Hill, R,. "Th	ne Mathematical Theory	of Plasticity", Oxford University Press, 1950.	
(5) Design collapse strength is calculated for and ISO 10400 collapse calculation method G ENVENTURE DOES NOT GUARANTEE THE ACCURACY BASED UP/M ANY RECOMMENDATIONS THAT MAY BE C	99.5% reliability (0.5% 6.4.1. All testing procedu OF ANY WELL DESIGN BASI SIVEN BY ENVENTURE'S PERS	target reliability level) using post-expansion SET® (ures followed API 5C3 / ISO 10400 guidelines. ED UPON THIS TOOL OR ANY INTERPRETATION THAT THIS SONNEL OR IN ANY OTHER FORM.	collapse test da TOOL MAY ALLO
ANY USER OF THIS TOOL OR THE DATA OR DESIGN	S CREATED BY IT OR BY E	WENTURE'S PERSONNEL AGREES THAT ENVENTURE IS NOT	RESPONSIBLE, E
WHERE DUE TO ENVENTORES GROSS NEGLIGENCE OR	WILLFOL PHILOCONDUCT, FOR	CANT LOSS, DANAGES, OK EXPENSES RESULTING HIGH SOUN	0.00

Loadout List:

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			1	C 5-1/2 i	Solaris Water ottonwood 2 ST SWD #1 in. x 7 in. 29 lb/ft ESeal Liner	
				En	Version 1 Venture: 832-259-2130	
Item	Qtv	Part/Serial #	Siz	e	Description	Supplier
1	10 joints		5-1/2	in.	Casing: 18.24 lb/ft, EX-80, XPC GIIC connection, SET	Enventure
2	1		5.969 ir	n. OD	Launcher w/lower hanger joint with 0.120 in. Thick Viton Enastomers (5.440 in. OD cone) - ball seat. open ended	Enventure
3	3		5-1/2	in.	Anchor hanger joint 0.120 in. Viton elastomers	Enventure
4	1		5-1/2 in.	x 12 ft	Pup joint: 18.24 lb/ft, EX-80, XPC GIIC connection, SET	Enventure
5	2		5-1/2	in.	Tapered guide (primary): 18.24 lb/ft, EX-80, XPC GIIC connection, SET	Enventure
6	15		5-1/2	in.	Connection sleeves: for 5-1/2 in. casing, 0.030 in. wall thickness	Enventure
7	1		2-7/8 i	n. in.	Safety sub: 2-7/8 in. PH6 (B) x Acme (P) w/protective cap	Enventure
8	1		5-1/2	in.	Debris catcher: 2-7/8 in. PH6 (B x P)	Enventure
9	1		5 ft x 3 ft	x 2.5 ft	Gang box with miscellaneous tools & supplies	Enventure
10	2 each		13/16 & 1	5/16 in.	Brass and aluminum balls	Enventure
11	3		Tub	es	Flex Lube (SET thread compound)	Enventure
12	1		5-1/2	in.	Casing drift for 5-1/2 in., 18.24 lb/ft, EX-80, XPC connection, SET	Enventure
13	3		12 oz	can	Pitless spray	Enventure
14	3		12 oz	can	Spray cleaner	Enventure
15	1		1.90	in.	Drillpipe drift (pump-through)	Enventure
16	20		5-1/2	in.	Seal rings for connectors	Enventure
17	2		5-1/2	in.	Lift_nubbins: 5-1/2 in. XPC GIIC connection, left hand, box	Enventure
18	1		5-1/2	in.	Circulation crossover: 2-7/8 in. PH6 (B x P) x 5-1/2 in. XPC (B)	Enventure
19	2		3 ir	۱.	Foam balls	Enventure
20	3		NA	1	Application brushes	Enventure
21	1		NA	1	Spin-on table to run innerstring	Enventure
22	2		6.050 ii	n. OD	Watermelon mills	Enventure
23	1		6.050 ii	n. OD	Tapered Mill	Enventure
24	1		7 in. 29 pp	f Casing	String Magnet	Enventure
25	1		5.380 ii	n. OD	Bladed Mill	Enventure
26	1		5.530 ii	n. OD	Watermelon Mill with smooth edges	Enventure
					Rig	
1 In H	ole V	/orkstring	3-1/2 in.	Tubing w	ith 3-1/2 in. PH6 connections	Rig
2 1			2 in.	Drift for d	Irifting drillpipe (hollow)	Rig
3 2			XO	Crossove	ers - 3-1/2 in.PH6 (B) x 2-7/8 in. PH6 (P) - 1 in. minimum ID	Rig
4 1			3-1/2 in.	12 ft Pup	Joint with 3-1/2 in. PH6 connection	Rig
5 1			3-1/2 in.	6 ft Pup J	Joint with 3-1/2 in. PH6 connection	Rig
7 2			3-1/2 in.	Molded P	Pump-in subs - 3-1/2 in. PH6 (Pin) x 2 in. 1502 Weco Union	Rig
8 2			3-1/2 in.	TIW with	3-1/2 in. PH6 (B x P) connections	Rig
15 1			NA	Mud Buc	ket	Rig
16 1			NA	Vacum T	ruck	Rig
17 1			NA	Casing C	Crew	Rig
18 1			NA	Forklift/la	ydown machine/hydraulic catwalk for handling equipment	Rig
19 1			NA	Pump Tr	uck, chiksans, accessories	Rig
	Ĵ _e	ι,		4	Rig	
1 In H	ole V	Vorkstring	3-1/2 in	Tubing w	vith 3-1/2 in PH6 connections	Rig
2 1			2 in	Drift for o	drifting drillpipe (hollow)	Rig
3 2)		XO	Crossov	ers - 3-1/2 in PH6 (B) x 2-7/8 in PH6 (P) - 1 in minimum ID	Rig
4 1			3-1/2 in	12 ft Pun	Joint with 3-1/2 in PH6 connection	Rig
5 1			3-1/2 in	6 ft Pup	loint with 3-1/2 in PH6 connection	Rig
7 2)	••••••	3-1/2 in	Molded F	Pump-in subs - 3-1/2 in PH6 (Pin) x 2 in 1502 Weco Union	Ria
8 2	·		3-1/2 in	TIM/ with	2.1/2 in PH6 (B x P) connections	Rig
15 1	-		NIA	Mud Buo		Dia
16 1				Vacum 7		
17 4				Vacum I		Rig
1/ 1			NA	Casing (Kig
18 1			NA	Forklift/la	ydown machine/hydraulic catwalk for handling equipment	Rig
19 1			NA	Pump Tr	uck, chiksans, accessories	Rig

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		PUMPING SERVICE FOR EXPANDING SET SYSTEM	
1	1	Pump truckwith pressure lines (working pressure 8,000 psi)	Pumping
2	NA	Chiksans and accessories (two lead swivel chiksans)	Pumping
3	2	Lo-torque valves - 1502 WECO	Pumping
4	1	Portable gauges for pressure and rate that can be located near the drillers console.	Pumping
5	3	Radios with head sets for communication between Enventure and pumping company during expansion.	Pumping

Wellbore Preparations:

An Enventure PM (Project Manager), Operations Manager, Sales Manager, third party vendors involved, operator, and Company Man will perform ESOP (Expand SET on Paper) in Solaris Water's office or teleconference call prior to installation.

NOTE
Any deviation from agreed upon installation procedure must be approved and documented by Enventure operations and the operator's office. Enventure Lead Project Manager will shut down operations any time a request to change is made by EGT, CO man, third-party, or Solaris Water's office. The request must be discussed, documented, and an educated final decision will be made by operator.

- 1. Make sure there are no leaks below the planned setting depth of post-expanded liner shoe (most important) and top. No other liner can be run through the expanded liner and be expanded below it.
- 2. Run and share caliper log results with Enventure to make sure hanger joints are placed in appropriate ID in the 7 in. 29 ppf casing.
- 3. Clean out wellbore as per fishing company procedures and BHAs to achieve:
 - wellbore free of debris
 - wellbore free of metal debris
 - free passage of dummy BHA (below) to setting depth without rotation (sliding only).
- 4. RIH with a casing scraper BHA (**Rig provided**), work scraper from 2,100 ft MD to 2,400 ft MD.

NOTE Depending on wellbore conditions (amount of sand, metal debris on magnet, etc.), more than one run may be required.

5. Run in hole with dummy BHA (Enventure provided) as the following:

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Operator:			Solaris Water	Operation:	5-1/2 in. x 7 in. 29 lb/ft ESea	l Liner
Rig:				Casing Size:	7 in.	
Well Name:			Cottonwood 2 ST SWD #1	Weight:	26 lb/ft	
A	FE:			Drift:	6.059 in.	
BHA	ITEM	SIZE	DESCRIPTION	CONN.	OD"	LENGTH (feet)
	3	xx	String Magnet	xxx	for 7 in. 29 lb/ft	ххх
	2	6.050"	Watermelon Mill	XXX	6.050"	xxx
V	1	6.050"	Tapered Mill or Bladed mill	XXX	6.050"	xxx

NOTE

Crossovers will need to be added where applicable.

6. Run this BHA down to 2,320 ft MD. NOTE

If the above BHA cannot make it to setting depth, ream down to setting depth, POOH to above tight spot, then repeat run from kickoff point to setting depth till free passage without rotation (sliding/slacking off only) is observed.

- 7. Circulate well clean, pump sweeps.
- 8. POOH with the above BHA and gauge mills. Inspect magnets for metal debris.
- 9. Go to Installation Procedure section.

Pre-Installation Activities:

- 1. A pump truck/unit (8,000 psi work pressure) and accessories (chiksans, etc.) will be needed to expand liner. Co Man to source. Make sure pump rate, pressure, and volume is measurable and recordable during the job. Radio communication is essential between the pump truck and the rig floor. Pump truck to supply radios.
- Upon arrival, all parties / service hands (Enventure, Casing Crew, and pump Operator) will inspect and verify that all their equipment is in excellent working order and that nothing is missing or damaged.
- 3. Report any problems or concerns ASAP to Enventure's Project Manager. It is imperative the job is done safe and correctly the first time.

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NOTE

No operation will be rushed due to time constraints; there are none when it comes to safety and success.

- 4. The expandable liner will be received on location and will be unloaded using Enventure handling procedures to prevent any damage.
- 5. The threads will be visually inspected on location by Enventure Project Managers. The XPC seal rings in the box end threads will be installed at Enventure's shop in

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Houston. Enventure's Project Managers will help offload pipe and witness the final drift run.

NOTE	
No rig	equipment is to be placed on the SET liner after it is laid out.
6.	All workstring components needed must be drifted with their standard drift for the 3- 1/2 in. PH6 tubing (inner string). All of the tubing and BHA components must be clean, drifted and free of scale internally.
7.	Prior to making up the expandable liner, make up the Enventure circulation crossover

7. Prior to making up the expandable liner, make up the Enventure circulation crossover assembly with a TIW valve on top and have it ready. This crossover (6 ft. long) has a 3-1/2 in. PH6 (Box x Pin) x 5-1/2 in. XPC (Box). This crossover will make up both the expandable casing and inner-string tubing. Details regarding this crossover will be discussed at pre-job meetings and on the rig floor.

	NOTE
Ð	The rig will supply the TIW valve for 3-1/2 in. PH6 to be made up to top of EGT circulation crossover assembly.

Installation Procedure:

Conduct safety meeting and discuss JSA prior to rigging up casing tools and at any tour change or change of personnel. Record all attendees on a sign-in sheet. STOP work authority procedures must be applied by Enventure Project Managers and anyone else involved with operations anytime an unsafe act or operation is observed. Enventure's Operations and Operator's office must be notified and involved immediately and come up with a solution prior to resuming operations.

- Rig up 5-1/2 in. liner running equipment, lay-down machine, and torque turn equipment. Liner will be run using 5-1/2 in. center latch or side-door elevators and hand slips. A safety clamp with low penetration dies will be used as per casing crew recommendation. A power tong with low penetration dies and integral backup will be used to make-up the XPC connections. The makeup torque will be from 3,200 ft-lb minimum to 6,400 ft-lb maximum. The yield torque is 7,900 ft-lb. Enventure Project Manager will have final call on a properly made-up connection. Baker-Lock will be used as thread compound and be provided by Enventure.
- 2. All joints will be run with Enventure lift nubbins bumped-up tight. The nubbin will support the entire weight of the string.
- 3. When making up the liner joints, make sure that the elevators are slacked-off of the lift nubbin to ensure that the nubbin is not backed out. One man will be assigned to watch these nubbins as the liner joints are being made up.

NOTE Make sure the P-110 XPC lift nubbins are always tight and remain free from dirt. Do not grab the inside of these nubbins with dirty gloves; the XPC GIIC -E threads may become galled. Keep rig floor clear of loose objects and follow good "housekeeping" practices running SET.

4. Pick up launcher and lower anchor hanger joint assembly and install in the well head. Carefully guide the launcher and lower anchor hanger through the well head.

NOTE

The bottom anchor hanger and launcher will be assembled at the Enventure's shop prior to delivery to the location. Total length of this assembly will be approximately ~24 ft. Assembly will include

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	launcher with expansion cone, mandrel and safety sub installed. The launcher will be run with a ball seat and will be self-filling. The top connection of the anchor hanger will be an XPC LH pin. The launcher and the anchor hanger will be thread-locked with Flex-LubeX and torqued to 5,500 ft-lb at Enventure's shop.
	 Pick up and run range III joints and middle hanger joint of 5-1/2 in. liner and the upper hanger joint as per tally.
	NOTE
	Safety clamp will be used on casing as per casing companies' recommendation.
	 Land upper hanger joint low in the slips. Install Enventure XPC slip-on table over the upper anchor hanger joint. Rig down casing tools. Rig up 3-1/2 in. PH6 inner-sting elevators. Rig up tubing tongs, bowl and 3-1/2 in. tubing slips on slip on table. Pick up and run following inner-string BHA that has been drifted. Upper safety sub – 3-1/2 in. PH6 (Box) x ACME (Pin) – Enventure provided Debris catcher – 3-1/2 in. PH6 (Box x Pin) – Enventure provided Crossover – 3-1/2 in. PH6 (B) x 2-7/8 in. PH6 (P) – Rig Provided ~90 ft of 3-1/2 in. tubing – 3-1/2 in. PH6 (Box x Pin) – Rig provided
	NOTE
	 Look in tubing pin end on all stands to be sure there is no debris from wooden mats that can cause aluminum ball not to seat. Dope only pins. Strip on the taper guide prior to making up the last stand of 3 1/2 in PH6 tubing
	 3-1/2 in. PH6 pup joints (6 ft, 12 ft) may be needed for space out.
	 11. Tag the top of the expansion cone assembly with the inner string. Make sure block/bails rotate freely ahead of time. 12. Make up inner string to cone assembly using power tongs with ~10 turns to right. Apply ~2,500 ft-lb torque.
	NOTE
	If block/bails do not rotate freely, a rental swivel will be needed. Verify with Tool pusher.
	 Once inner string is made up, fill up the annulus between the ID of liner and the OD of the 3-1/2 in. PH6 tubing with clean fluid. Carefully pick up on the workstring and pull liner from slips. Record weight indicator reading. Remove the Enventure false table and strip on the Enventure tapered guide. Thread- lock (FlexLubeX) the tapered guide using Flex-Lube on the top of the upper anchor hanger joint.
E	NOTE
	Liner may be circulated to clear sand, fill if any. Do not exceed 3,400 psi and 3 bpm.
	 17. RIH with liner on 3-1/2 in. PH6 tubing to 2,310 ft MD. 18. Verify tallies with Co Man and Toolpusher. If there is an error, shut down and have a meeting with both offices (Operator and Enventure). 19. Pick up and set the shoe at 2,306 ft MD (to allow for scoping). 20. Check to see that the mud bucket is rigged up and functional. During the expansion process the tubing will be full of fluid. A vacuum truck may be needed as per Solaris Water's requirements. 21. Conduct safety meeting and review procedure for expansion. Ensure that all necessary personnel are in communications with each other. Two-way radios will be used. Pump truck to supply.
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EΡ	NOTE
	3-1/2 in. PH6 tubing will be spaced out where the 3-1/2 in. PH6 box connection is near rig floor.
	 Rig up pump truck, chiksans, chiksan swivel, Enventure's high pressure hose, chiksan swivel, low-torque valve, and 3-1/2 in. PH6 integral pump-in sub. Pressure test lines to 6,000 psi for 5 minutes. Circulate one tubing volume at 2 bpm - do not exceed 2 bpm and 2,400 psi. Remove pump-in sub and drop 13/16 in. brass ball inside tubing. Pump the ball down at 3 bpm. Land ball at the bottom of liner with 2,400 psi, hold for 2 minutes.
	NOTE
	 27. Start pumping at 1.5 bpm; expansion will begin at 4,500 psi. When expansion begins, the cone will move up showing a slight drop on the weight indicator. The driller will start picking up on the workstring as per Enventure Project Manager's advice, maintaining the workstring weight. Do not use overpull during expansion at any time. 28. Continue expansion until the first elastomers are anchored into the 7 in. casing. At that
	point the liner will be anchored in the base casing.
	NOTE
	First pull/expansion must be 30 ft. minimum. Enventure Project Manager will direct expansion operations as needed for a smooth expansion.
	 29. Expand the first single until the tool joint is at an appropriate height above the rig floor to break out connection. 30. Stop pumping and release pressure slowly. Expansion will be done pulling singles. 31. Record weight of the inner string while off expansion face. Slack off to set slips and break out connection. Break out and lay down joint.
	NOTE
Ð	If fluid level in well is low, fluid may drain out of tubing should the cone be slacked off the cone face during expansion. This is not detrimental but slows down the expansion process. This can be mitigated by holding the cone on the cone face.
	 32. Start pumping at 1.5 bpm and pressure up and continue expansion of liner as directed by Enventure Project Manager until the expansion cone exits the top of the liner. 33. After the liner has been completely expanded, the well can be circulated as per Operator's requirement. 34. Pull out of the hole and lay down the expansion assembly. 35. Pressure-test the expanded liner to 2,500 psi. 36. Run in hole with 5.380 in. mill-out BHA (Enventure provided). 37. Mill out shoe of expanded liner on bottom but not the composite bridge plug yet. 38. Pressure test wellbore as per requirements. 39. Mill out composite bridge plug. 40. Circulate hole clean, POOH and lay down millout BHA.

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Ope	rator:		Solaris Water	Operation:	5-1/2 in. x 7 in. 29 lb/ft ESe	al Liner
R	lig:			Casing Size:	5-1/2 in. Expanded	l.
Well	Name:		Cottonwood 2 ST SWD #1	Weight:	19.42 lb/ft	
A	FE:			Drift:	5.381 in.	
BHA	ITEM	SIZE	DESCRIPTION	CONN.	OD"	LENGTH (feet)
(1)	3	5.380"	Watermelon Mill (SmoothOD)	xx	5.380"	xx
	1	5.380"	Junk (Bladed) Mill	xx	5.380"	xx

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Detail Schematic Solaris Water Midstream

7.000 OD



3.5in

7 29 lb 7" Casing

2,142.10

2,165.02

2,306.71

2,310.00

2,148.04

2,170.14

2,306.76

2,310.00

Displace

(bbl):

1.11

9.80 0.58

Ann. Vol.

(bbl):

1.30

0.22 2.46

3.33

0.19

53.92

7.000 in. OD				in OD 6 its 18 24 lb EX-8(Evn Pine
Weight (lb/ft): ID (in.):	Drift (in	.):		0D	Exp. 1 ipe
29.00.7" Casing 6.184	6.059			Expansion 5 500	10
Z5.00 / Casily 0.104	Set (ft): 5000.00				4.840
10p (it). 0.00	Length (ft): 5000.00			Гор	2,142
	Longar (it). 0000.00			Bottom of Hanger	2,165
5.500 in. OD 6 jts 18.24 ll	b EX-80 Exp. Pi	ipe		Bottom of Hanger	2,306
Description	Length (ft)	C T	op (ft):	Bottom	2,310
132703-A TG	3.23	3 2,1	42.10		
132680 - 20 Hanger	19.69	2,1	45.33	OD	ID
3 Jts	106.47	2,1	65.02	xpansion 6.071	5,440
123041	35.22	2 2,2	71.49	Top	2 148
Launcher	3.20	2,3	06.71	Bottom of Hangor	2,140
Shoe	0.09	2,3	09.91	Bottom of Hanger	2,170
Set At	0.00	2,3	10.00	Bottom of Hanger	2,306
3-1/2 PH6 Workstring 3.500 in. OD	Length (ft): 0 69 2,150.54	Top (ft): -16.02	Jt# 8	Conscil	Dianlas
Crossover 4 313 in OD / 1 0 ft	1.00	2 134 52	7	Capacit	Displac
2-7/8 PH6 Innerstring 2.875 in. OD 31.11 ft	31.11	2,135.52	6	Casing 185.7	aa) :
Upper Debris Catcher 4.700 in. OD 3.95 ft	0/ 3.95	2,166.63	5	3.8	! 1.
2-7/8 PH6 Innerstring 2.875 in. OD	4 126.98	2,170.58	4	4.6	9.
Lower Debris Catcher 4.700 in. OD 3.95 ft	0/ 3.95	2,297.56	3	0.8	0.
3.5 in. OD Latch S/N 13039 / 2478	7 1.05	2,301.51	2		
Exp. Cone 5.440 in. / 6.42 ft	6.42	2,302.56	1		
					Ann. Vo
				In String	(bb
				7 29 lb 7" Casing	1.3
				7 29 lb 7" Casing	0.2
				5.5 Pre	2.
				5.5 POSI	3.
				7 29 lb 7" Casing	0.1

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		Expande 5.500 in. OD 6 jts	ed Pipe	e Tally 80 Exp. Pipe	ENVENTUR Str. The Su	E andard:"
Operat	tor Solaris W	/ater Midstream		County Ed	ldy	
Fie	eld Permian		L	ocation La	ind	
W	ell Cottonwo	od 2 ST SWD #	1	State Ne	ew Mexico	
Project	No P3356			Project 5-	1/2 x 7 in Liner	
		Length me	asurements ir	r Feet		
		Exp Fa	ce Set At:	2,308.08	Liner Set At:	2,309.91
			Pre-E	xpansion	Post E	kpansion
Component	Description	CS Thickness	Length	Тор	Length	Тор
Shoe	35144-1		0.09	2,309.91		
Launcher	35144		3.20	2,306.71	3.15	2,306.76
1	123041		35.22	2,271.49	33.96	2,272.80
2	132806		33.72	2,237.77	32.51	2,240.29
3	123318		35.44	2,202.33	34.17	2,206.12
4	140587		37.31	2,165.02	35.97	2,170.15
5	132680 - 20 Har	ıger	19.69	2,145.33	18.99	2,151.16
6	132703-A TG		3.23	2,142.10	3.11	2,148.05

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	5.5	Elastom	er Details 8.24 lb EX-80 Exp. Pip		ITURE T. The Standard."
Operator	Solaris Water	Midstream	County E	ddy	
Field	Permian		Location La	and	
Well	Cottonwood 2	ST SWD #1	State N	ew Mexico	
Project No	P3356		Project 5-	1/2 x 7 in Line	er
Joint # 1	Serial	# 123041	Comment		
Thickness 0	Tur		••••		
I NICKNESS U	тур	e			
	Pre-Expansion		Po	st-Expansion	
Bottom	Length	Тор	Bottom	Length	Тор
2304.67	1.00	2303.67	2304.79	0.96	2303.83
2302.67	1.00	2301.67	2302.86	0.96	2301.90
2300.67	1.00	2299.67	2300.94	0.96	2299.97
2298.67	1.00	2297.67	2299.01	0.96	2298.04
2296.67	1.00	2295.67	2297.08	0.96	2296.11
Joint # 5	Serial	# 132680 - 20 Hanger	Comment		
Thickness 0	Тур	e			
	Pre-Expansion		Po	st-Expansion	
Bottom	Length	Тор	Bottom	Length	Тор
2161.95	1.00	2160.95	2167. <mark>1</mark> 8	0.96	2166.22
2159.95	1.00	2158.95	2165.25	0.96	2164.29
2157.95	1.00	2156.95	2163.32	0.96	2162.36
2155.95	1.00	2154.95	2161.40	0.96	2160.43
2153.95	1.00	2152.95	2159.47	0.96	2158.50

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Personnel

Operator: Richard Breaux Field: Permian Field Well: Cottonwood 2 ST SWD Project No: 3356 County: Eddy County Location: Carlsbad State: New Mexico Project: 5-1/2 in. x 7 in. 29 lb/ft ESeal liner

Name:	Phone	On Location	Off Location
Company	Email		
Richard Breaux	Richard.breaux@enventuregt.com	9/6/2024	9/13/2024
Raymond Johnson	Raymond Johnson@enventuregt.com	9/6/2024	9/15/2024

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Customer	Solaris Water Midstream LLC
Field	Carlsbad Field
Well	Cottonwood #2 ST SWD
Basin Service CMT	Delaware Basin
Stock / Equipment GMT if different	3814 Ν/Δ
Project Number	P3356
Work Order Number, if applicable	24-08-006
Country	USA
County/City/State or Province	Eddy County/Carlsbad/New Mexico
Operating Environment Water Depth (if applicable)	Land
System	ESeal Liner
Size	5-1/2" x 7" x 0.330
XPC Connection	GIIC
Base Casing Weight (lb./ft)	29 ppf
Pre-Expanded Length	167.90 ft
Spacer Pipe Length (ESeal Elex only)	(1) 19.69 IL; (1) 35.22 IL. N/A
Category	Planned-Contingency
Application	CS: Casing Repair
Swellables	N/A
Sidetrack/Window Exit	No
Launcher OD/Type	5/5/2024 at 11:00 AW
(Compact, Pressed)	5.969 inch, compact
Cone OD/Type	5.440 inch 10 deg
(SR Cone, 10 deg)	(0) 0 425 with a
Liner Hangers (#, size, type)	(2) 0.125 Viton (5) 030 inch
Centralizers	No
Initiation Pressure/Overpull	4,500 psi with no overpull
Initiation Pressure on Launcher Calculations	3,580 psi
Avg. Expansion Pressure/Overpull	4,000 psi with 30K overpull
Slip-sticking observed? (Yes or No)	Yes 2 148 ft
Shoe Depth	2,310 ft
Cement	No
Mud Type	Brine
Mud Weight	8.3 ppg
Dogleg Severity (Deg/100ft.)	0 deg/100 ft Straight
Pilot Hole or/and Open Hole Size	N/A
Bottom Hole Static Temp	100 F
Float Position	Open
Dart or ball displaced and landed	Ball
Liner Top Test	TBD
Total Revolutions (ESET only)	N/A
Post Job Report (PJR) Provided to Customer	
Service Design & Development Met	Yes
Requirements	1
(Design and Execution Validation)	,
Installation Team	Richard Breaux and Raymond Johnson
DOCO Tier Rating	1
Clean Out BHA String Components	
Clean Out Start Depth	
Taper Mill ESN	
String #1 Mill ESN	
Magnet ESN	
Scraper ESN	Rental by customer
Cleanout Completion Date & Time (POOH Time)	9/1/2023
Mill Out BHA String Components	Mill, watermelon mill
Mill Out Start Depth	2,308 ft
Mill Out End Depth	2,310 ft.
String #2 Mill ESN	
Drillout Completion Date & Time (POOH Time)	9-13-2024 @ 1600 hours
Average RPM	60 rpm
Hours to Mill Out Shoe	4 hours
Average Weight On Bit	2,000 lbs
Average Torque	0.5 bbls/min
Equipment Returning	Equipment will return after drill out
Additional Comments or Issues	

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September 24, 2024

Re: Post Workover NOI Cottonwood 2 St SWD 1 30-015-42356 Property Code - 40518 Eddy Co., NM

To Whom It May Concern:

Solaris Water Midstream has completed the workover on the above captioned well, finished with a successful bradenhead and MIT test on 09.24.2024. As per the originally approved workover NOI, a drilling rig with hydraulic BOPs was rigged up and the existing injection tubing was pulled out of the hole, including the retrievable AS1-X packer.

A CBL log was ran across the entire wellbore showing TOC near surface with spotty cement from ~6,050' to surface. The 7" was perforated in three locations at 2,275', 2,225', and 2,190' attempting to circulate to surface up the 7" x 9-5/8" annulus after each location was perforated. No success on any of the three attempts. Next it was attempted to run a local expander tool from Renegade wireline (https://renegadewls.com/local-expander/) as a micro annulus was suspected. The 7" casing was expanded in multiple spots as per attached from 3,591.5' to 2,627' and 1,964' to 837'. No success, pressure still building in 7" x 9-5/8" annulus at surface. Perforations were then shot at 50' and 70' and were able to circulate up 7" x 9-5/8" annulus to surface. Cement was pumped down annulus receiving 9 bbls of cement to surface. No pressure seen at surface on 7" x 9-5/8" annulus for remainder of job. It was then discovered that the original perforations at 70' shot through the 9-5/8" casing. Cement was pumped down the 9-5/8" x 13-3/8" annulus with 2 bbls of clean cement seen to surface. The well was shut in at the end of this cement job and an attempt was made to squeeze cement further into the annulus but it was pressure locked. After a 36 hr cure time, both annuli were showing zero psi.

Subsequently, two expandable patches were ran to cover both sets of perforations in the 7" casing. The deeper patch was ran from 2,310' to 2,148' and the upper patch was ran from 115' to 19.2'. Both patches were tested successfully, then drilled out.

Cont.

3300 N. A St., Building 6, Unit 120, Midland, TX 79705 432.203.9020



A new tubing string was ran along with a new retrievable packer set with COE at 13,175'. The new injection tubing string is 4-1/2", 11.6#, P-110, BTC, GRE from surface to 10,617' by 3-1/2", 9.30#, HCP-110, EZGO FJ3-SWD, IPC from 10,617' to 13,175'. A new MIT and bradenhead test was called out and successfully performed after the workover to ensure wellbore integrity. A final installation wellbore diagram is attached for reference.

Thank you.

Sincerely,

Christopher Giese Drilling Engineer chris.giese@ariswater.com

3300 N. A St., Building 6, Unit 120, Midland, TX 79705 432.203.9020



Post-Job Report

5.5 x 7 in. 29.0 lb/ft ESeal Liner- upper liner

Solaris Water LLC

Cottonwood 2 ST SWD Permian Basin Eddy County, NM

September 6, 2024 – September 13, 2024

Prepared by	:	Richard Breaux
Mobile	:	713-294-0091
Office	:	281-552-2200
Fax	:	281-552-2201
E-mail	:	richard.breaux@enventuregt.com

Version: 1.0

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This document contains information that is confidential and proprietary to ENVENTURE GLOBAL TECHNOLOGY and should not be disclosed to third parties without prior written permission from ENVENTURE GLOBAL TECHNOLOGY.

Purpose:

To safely and successfully install a ~40 ft x 5-1/2 in. x 7 in. 29 lb/ft ESeal HP liner to cover up and isolate a leak in 7 in. 29 lb/ft casing at 50 ft & 70 ft. MD. ESeal HP Patch will be set from 10 ft MD (top of liner after expansion) to 115 ft MD (bottom of patch after expansion). After initiation, the liner will be expanded with casing jacks.

Scope

This process applies to all operations personnel of Enventure Global Technology, Inc. (EGT) and its global locations.

Responsibility

- **Operations Management** Responsible for reviewing and ensuring training and implementation of this process for relevant operation installations
- **Operations / Project Managers** Responsible for adjusting the generic installation procedures as applicable for relevant jobs, communicating the procedure internally and externally, and following the requirements during operations
- **Sales Manager –** Responsible for maintaining client relationships and dispersing customer information and requirements to relevant EGT stakeholders.
- Engineering Provides technical support, such as but not limited to evaluation of customer technical information and development of EGT System Design Specifications.

References

- API Specification Q2
- ISO 9001

Specification Sheet:

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5.500 m. OD	18.24 ID/π X 7.00 Solari	SWater	
	Cottonwoo	d 2 St SWD 1	
	GMT I	D: 3814	
External Base Casing		SET Liner Pre-Expansion (2)	
Nominal OD	7.000 in.	SET Liner Grade	EX-80
Weight	29.00 lb/ft	Connection Type	GIIC
Nominal ID	6.184 in.	Nominal Yield Strength	80.000 psi
API Drift	6.059 in.	Minimum Ultimate Strength	95,000 psi
Connection Type	LTC	Nominal OD	5.500 in.
Connection ID	6.184 in.	Nominal ID	4.840 in.
Other ID Restriction	6.184 in.	API Drift	4.715 in.
		Nominal Wall Thickness	0.330 in.
auncher		Weight	18.24 lb/ft
auncher OD - Pre Exp	5.969 in.	······································	1012 1 10/10
		SET Liner Post-Expansion (2,3)	
Connection Sleeves		Nominal OD	6.071 in.
et in Base Casing - Pre Exp OD	5.651 in.	Nominal ID	5.440 in.
Set in Base Casing - Expanded OD	6.151 in.	Drift	5.381 in.
		Nominal Wall Thickness	0.316 in.
		Nominal Weight	19.42 lb/ft
		Internal Yield	7,490 psi
(PC Pre-Expansion Connection Specific	ations	Burst (4)	10,140 psi
ension Load Yield Rating	241.800 lb	Collapse Rating (5)	4.120 psi
compressive Load Bating	241.800 lb	Expansion Ratio	12.4%
linimum Parting Load	287 200 lb	Pipe Body Yield Strength	402 600 lb
ogleg Severity Rating While Running	19.9 dea/100 ft	The body field backgar	102,000 15
by bevenue wating while wating	19.9 deg, 100 ft	Anchor Hanger	
PC Post-Expansion Connection Specific	cations	Set in Base Casing - Flastomer Thickness	0 125 in
ension I oad Yield Rating	202.500 lb	Pre-Exp Seal OD	5.750 in.
Compression Load Rating	166 700 lb	Clad in Base Casing (nominal)	50.6%
Ainimum Parting Load	250,600 lb	ciad in base casing (noniniar)	50.070
	250,000 lD	Limite while DTH	
logieg Sevency Rating During Expansion	10.0 deg/ 100 ft	Limits while RIH	F 060 in
			5.969 in.
Vell Bore Conditions (1)	105 8	Max. Pump Rate (unlimited time)	2.5 BPM
	125 ft		
Vellbore Maximum Dogleg Severity	0.0 deg/100 ft		
Deviation	0°		
1ud Weight	8.5 lb/gal		
ottomhole Temperature (BHT)	150 F		
(1) Changes in wellbore conditions require de	esian review		
(2) All the published liner ratings and strengt	ths are based on roon	temperature (75E), and not adjusted for BHT.	
(3) Liner ratings are based on standlone line	r without any support	from base or external parent casing	
(4) Hill's Fully-Plastic Burst Limit - Hill R "T	he Mathematical The	non plasticity" Oxford University Press 1950	
(5) Design collapse strength is calculated for	00 E% roliability (0 E	20% target reliability level) using port-expansion SET/	® collance tect
data and ISO 10400 collapse calculation met	hod G.4.1. All testing	procedures followed API 5C3 / ISO 10400 guidelines	
ENVENTURE DOES NOT GUARANTEE THE ACCURACY BASED UPON ANY RECOMMENDATIONS THAT MAY BE	GIVEN BY ENVENTURE'S	DED OPON THIS FOOL OR ANY INTERPRETATION THAT THIS PERSONNEL OR IN ANY OTHER FORM.	TOOL MAY ALLOW O
ANY USER OF THIS TOOL OR THE DATA OR DESIGN: WHERE DUE TO ENVENTURE'S GROSS NEGLIGENCE OF	S CREATED BY IT OR BY R WILLFUL MISCONDUCT,	ENVENTURE'S PERSONNEL AGREES THAT ENVENTURE IS NOT FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM SU	RESPONSIBLE, EXCEP JCH USE.

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WBS with ESeal Patch Installed:



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Pre-Installation Activities:

An Enventure PM (Project Manager), operations manager, sales manager, third party vendors involved, operator, and company man to perform an ESOP (Expand SET on Paper) in Solaris office or teleconference call prior to installation.

NOTE
Any deviation from agreed upon installation procedure must be approved and documented by Enventure operations and operator's office. Enventure lead Project Manager will shut down operations any time a request to change is made by EGT, CO Man, third-party, or client's office. The request must be discussed, documented, and an educated final decision will be made by Client.

The following items have been discussed and agreed upon in order to maximize the chances for safe and successful installation:

- 1. Determine exact depth of the area to be covered by the ESeal HP Patch. There is only ~20 ft of sealing coverage per side.
- 2. Enventure PM to measure the blank pipe distance between the elastomers. Half of that distance will be the allowable error/discrepancy with tallies/coil tubing allowed. If the error or discrepancy in tallies or coil when tagging composite bridge plug, or logs, is greater than half of the distance of the blank pipe between the elastomers, the Patch will be POOH.
- 3. Make sure there are no leaks in the base casing below and at least 10 ft above the ESeal HP Patch setting depth (bottom and top of expanded ESeal HP Patch). No other system can be run through and expanded below an installed one. Also, in order to install another ESeal HP Patch above a previously installed one, a minimum of 10 ft good pipe is required.
- 4. If the leak path has been squeezed with cement, a scraper run must be performed to scrape off any cement sheath in the base casing where the elastomers are to be set.
- 5. Verify the ID of base casing at the area where ESeal HP Patch will be set (caliper logs). Elastomer thickness is designed to be clad in the nominal ID of the new casing any greater ID caused by milling, corrosion, wear, could cause elastomer not to clad.

NOTE

Pump sweeps if milling took place.

- 6. The base casing must be inspected for adequate clearance and all the dimensions must be verified. The OD of the seals is 5.750 in. The OD of the launcher is 5.969 in. Maximum OD of the system running in hole will be 5.969 in.
- 7. The expandable patch will be received on location and will be unloaded using the specified Enventure handling procedures to prevent any damage.

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ED	NOTE
	Enventure project manager will be on location to witness unloading.
	 All workstring components that might be needed must be drifted with their standard drift. If possible, they should be made up and racked back in stands. All of the tubing and BHA components must be clean, drifted and free of scale internally and if possible pressure tested prior to the expansion. All the workstring components must be designed for the required specifications regarding pressure and tensile strength. Two joints of 2-7/8 in. PH6 connection tubing will be used for the inner-string and 2-7/8 in. PH6 connection tubing for the work string (rig work string). A 2-7/8 in. (B) will be sticking out of the patch. The ESeal HP Patch is open and a ball is required to be seated before beginning expansion. There is no active float in this system. The shoe of the system is designed to have minimal debris fall off during drill out of set shoe. The hole should be well circulated, if possible. The fluid should be properly conditioned for running the patch. Clean fluid should be used for the expansion process.
	NOTE This system can be expanded with a variety of fluids (i.e. brine, production water, and/or
	 11. Circulate hole clean. If possible, drop a pump-through drift in the workstring if the conditions allow and pull out of the hole to run the patch. All tubing and BHA components must be clean, drifted and free of scale internally. 12. All union connections in pumping lines from pump truck to the tubing tool joints must be 1502 WECO integral, not threaded. The requirement on pressure rating for all surface equipment (pumping lines and connections) will be 10,000 psi working pressure. The lines have to be pressure tested to at least 1,000 psi greater than the anticipated highest expansion pressure. Data acquisition is required to record pressure. A certified Coil-Flex high pressure hose with a working pressure of 13,500 psi is recommended for expansion operations and can be sourced and provided by Enventure.
	Installation Procedure:
	NOTE
	Conduct a safety meeting prior to rigging up and at any or change of personnel. Record all attendees on sign-in sheet. STOP Work Authority procedures must be applied any time an unsafe act/operation/confusion is observed. Enventure operations and client office must be involved immediately.
	1. Pick up the ESeal HP Patch with 0.125 in. thick Viton elastomers and carefully guide ESeal HP Patch the BOP stack. Any well control situation needs to

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consider that there is no float in the system and would require a TIW valve or some other system to mitigate the risk, should it develop.

NOTE
• The ESeal HP Patch will be assembled in the shop prior to delivery to location. Total length of this assembly will be approximately 40 ft. Assembly will include launcher with expansion cone, mandrel with safety sub made up and one joint of 2-7/8 in. PH6 connection tubing sticking up out of the Patch.
 Run patch in the hole at on rig tubing to 70 ft MD. Verify tallies with pipe mark, get approvals from Company Man. Pick up and space out the shoe at 70 ft MD. Enventure PM will be present on rig floor to watch weight indicator. Record pickup and slack-off weights at setting depth. (Fluid may "come over the top" as the string is lowered into the wellbore due to auto-fill position at the shoe of the system).
NOTE
If the tallies depth does not match the wireline depth of composite bridge plug, shut down operations, call Enventure's operations manager and operator's engineer in office to discuss options. If the error or discrepancy of tallies depth when tagging composite bridge plug is greater than half of the distance of the blank pipe between the elastomers, the Patch will be POOH. If there are errors or discrepancy is smaller, options will be discussed with Enventure and operator's office and decisions will be made accordingly.
 Rig up pump truck, chiksans, lead chiksan swivel, Enventure hi-pressure nose, lead chiksan swivel, Lo-Torque valve, 2-7/8 in. PH6 molded pump-in sub. Open the low torque valve and circulate for at least one tubing volume to clean the hole. Circulation rate should not exceed 1.5 bbl/min and 3,200 psi circulation pressure. Break out the 2-7/8 in. PH6 pump-in sub. Drop 13/16 in. aluminum ball in the workstring. Prior to dropping ball, well must be static. Make up the 2-7/8 in. pump-in sub on tubing box looking up at rig floor. Close low-torque valve. Pressure test pump and line to 8,000 psi for 5 minutes. Open low-torque valve. Conduct a safety meeting and review procedure for expansion. Ensure that all necessary personnel are in communications with each other. A pressure monitor must to be placed close to the drillers' position on the rig to be viewed by the Enventure PM and a record (chart) of the pressures and times will be requested by Enventure after the expansion. Start pumping ball down at 0.5 bbl/min. Land ball with 3,200 psi. Start pumping at 1 bbl/min and pressure up to initiate expansion (rupture discs of 4 000 psi will rupture first, but will not be noted at surface): expansion should

well bore. This document contains information that is confidential and proprietary to ENVENTURE GLOBAL TECHNOLOGY and should not be disclosed to third parties without prior written permission from ENVENTURE GLOBAL TECHNOLOGY.

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- 19. Continue pumping at 0.5 bbl/min and pressure up tubing string. As the expansion begins, the patch will scope off of the cone 0.5 ft until the first elastomer is expanded into the 7 in. casing. At that point the system will be anchored.
- 20. Stop pumping, bleed off pressure.
- 21. Rig up casing jacks to complete expansion.
- 22. Pull out of the hole and lay down the expansion assembly.
- 23. Close the annulus and pressure test the expanded patch to 3,000 psi.
- 24. Make up the 5.381 in. mill-out assembly and run in the hole. The drift ID of the expanded patch is 5.440 in.
- 25. Mill out the shoe of ESeal HP Patch (~12 in. long). The 4 or 5-bladed mills have been most successful in milling out ESeal HP Patch shoe in the past.
- 26. The entire ESeal HP Patch can be pressure tested as per customer specifications at this time if a bridge plug is set below, or casing below has pressure integrity.
- 27. Mill out composite bridge plug.
- 28. Circulate hole clean, POOH with millout BHA.

		5	Sol	am	ENVENTURE SET. The Standard."	
7.000 in. OD				5.500 in. OD 4	jts 18.30 lb EX-80 E	xp. Pipe
Weight (lb/ft): ID (in.):	Drift (in.	.):			OD	ID
29.00 P-110 6.184	6.059			Before Expansion	5.500	4.840
Top (ft): 0.00	Set (ft): 10000.00	2			Тор	15.71
Len	gui (ii). 10000.00	,		Bo	ottom of Hanger	54.37
5.500 in. OD 4 jts 18.30 lb E	X-80 Exp. Pi	ре	on (ft):	Bc	ttom of Hanger	111.67
125703-A	3.22		15.71		Bottom	115.00
123419	35.44		18.93		OD	ID
1 Jts	37.61		54.37	After Expansion	6.071	5.440
132979 Launcher	19.69	1	91.98		Тор	19.20
Shoe	0.09	1	14.91	Bo	ottom of Hanger	56.47
Set At	0.00	1	15.00	Bo	ottom of Hanger	111.72
Work String Run 1					Bottom	115.00
5	Length (ft):	Top (ft):	11##			
Tubing 2.875 in. OD 3 jts/ 94.82 ft	94.82	3.82	5			
Debris Catcher 4.700 in. OD / 3.95 ft	3.95	98.64	4		Capacity	Displace
Debris Catcher 4.700 in. OD / 3.95 ft	3.95	102.59	3	String	(bbl):	(bbl):
Exp Cone 5 440 in / 6 42 ft	6.42	107.59	1	7 29 lb P-110	371.50	0.00
-,				Pre 5.500	2.26	0.66
				2.875in	0.55	0.39
				String In 5	String 9 Ib P-110	Ann. Vol. (bbl): 0.77
				5.5 Post 7 2	9 lb P-110	0.13

Sep 12,2024 8:56 AM

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		5.500 in. OD 4 jts	18.30 lb EX	-80 Exp. Pipe	SET. The Stan	dard."
Opera F	ator Solaris W ield Permian	ater Midstream	I	County Ede	dy nd	
V	Vell Cottonwo	od 2 ST SWD #	1	State Net	w Mexico	
Project	No P3356-1			Project 5.5	x 7 in. Surface	liner
		Length me	asurements i	n Feet		
		Exp Fa	ce Set At:	113.11	Liner Set At:	114.91
			Pre-E	xpansion	Post Ex	pansion
Component	Description	CS Thickness	Length	Тор	Length	Тор
Shoe	Ht# 201116525		0.09	114.91		
Launcher	36186		3.24	111.67	3.19	111.72
1	132979		19.69	91.98	18.99	92.73
2	132828		37.61	54.37	36.26	56.47
3	123419		35.44	18.93	34.17	22.30
4	125703-A		3.22	15.71	3.10	19.20

Expanded Pipe Tally

ENVENTURE

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	5.5	Elastom	er Details 3.30 lb EX-80 Exp. Pipe		NTURE SET. The Standard."
Operator	Solaris Water	Midstream	County E	ddy	
Field	Permian		Location La	and	
Well	Cottonwood 2	ST SWD #1	State N	ew Mexico	
Project No	P3356-1		Project 5.	5 x 7 in. Surfa	ace liner
Joint # 1	Serial	# 132979	Comment		
Thickness 0.125	Тур	e Viton			
Pre-Expansion		Po	st-Expansion		
Bottom	Length	Тор	Bottom	Length	Тор
108.67	1.00	107.67	108.83	0.96	107.86
106.67	1.00	105.67	106.90	0.96	105.94
104.67	1.00	103.67	104.97	0.96	104.01
102.67	1.00	101.67	103.04	0.96	102.08
100.67	1.00	99.67	101. <mark>1</mark> 2	0.96	100. 1 5
Joint # 3	Serial	# 123419	Comment		
Thickness 0.125	Тур	e			
	Pre-Expansion		Po	st-Expansion	
Bottom	Length	Тор	Bottom	Length	Тор
34.52	1.00	33.52	37.33	0.96	36.37
32.52	1.00	31.52	35.41	0.96	34.44
30.52	1.00	29.52	33.48	0.96	32.51
27.52	1.00	26.52	30.58	0.96	29.62
25.52	1.00	24.52	28.66	0.96	27.69

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Personnel

Operator: Richard Breaux Field: Permian Field Well: Cottonwood 2 ST SWD Project No: 3356 County: Eddy County Location: Carlsbad State: New Mexico Project: 5-1/2 in. x 7 in. 29 lb/ft ESeal liner

Name:	Phone	On Location	Off Location
Company	Email		
Richard Breaux	Richard.breaux@enventuregt.com	9/6/2024	9/13/2024
Raymond Johnson	Raymond Johnson@enventuregt.com	9/6/2024	9/15/2024

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Information contained in this messag	ge should be considered confidential.
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Field	Carlsbad Field
Well	Cottonwood #2 ST SWD
Basin	Delaware Basin
Service GMT	3814
Stock / Equipment GMT, if different	N/A D2256
Work Order Number, if applicable	24-08-006
Country	USA
County/City/State or Province	Eddy County/Carlsbad/New Mexico
Operating Environment	Land
System	N/A ESeal Liner
Size	5-1/2" x 7" x 0.330
XPC Connection	GIIC
Base Casing Weight (Ib./ft)	29 ppf
Pre-Expanded Length	99.29 ft
# & Pre-Expanded Length of Anchor Hangers Spacer Pipe Length (ESeal Elex only)	(1) 19.69 ft.; (1) 35.44 ft. N/A
Category	Planned-Contingency
Application	CS: Casing Repair
Swellables	N/A
Sidetrack/Window Exit	No 9/12/2024 at 12:00 PM
Launcher OD/Type	5/12/2024 at 12:00 PW
(Compact, Pressed)	5.969 inch, compact
Cone OD/Type	5.440 inch 10 deg
(SR Cone, 10 deg)	(2) 0 125 vitop
Connections: # & size of sleeves	(1) .030 inch
Centralizers	No
Initiation Pressure/Overpull	7,000 psi with no overpull
Initiation Pressure on Launcher Calculations	3,580 psi
Avg. Expansion Pressure/Overpuli	5,000 psi with 30K overpuil
Top of Liner	19 ft
Shoe Depth	115 ft
Cement	No
Mud Type	Brine
Dogleg Severity (Deg/100ft)	8.3 ppg 0 deg/100 ft
Hole Angle	Straight
Pilot Hole or/and Open Hole Size	N/A
Bottom Hole Static Temp	100 F
Ploat Position	Open Ball
Foam Ball Used?	No
Liner Top Test	TBD
Total Revolutions (ESET only)	N/A
Post Job Report (PJR) Provided to Customer	Yas
Requirements	765
SET Overall Tier Rating	1
(Design and Execution Validation)	
Installation Team	Richard Breaux and Raymond Johnson
Clean Out BHA String Components	1
Clean Out Start Depth	
Clean Out End Depth	
Taper Mill ESN	
String #1 Mill ESN	
Scraper FSN	Rental by customer
	9/7/2023
Cleanout Completion Date & Time (POOH Time)	
Mill Out BHA String Components	Mill, watermelon mill
Mill Out Start Depth	113 IL 115 ft
Bladed Mill ESN	
String #2 Mill ESN	
Drillout Completion Date & Time (POOH Time)	9-14-2024 @ 1600 hours
Average RPM	60 rpm
Average Weight On Bit	4 nours 2 000 lbs
Average Torque	1200 ft. lbs
Pump Rate	0.5 bbls/min
Equipment Returning	Equipment will return after drill out
Additional Comments or Issues	

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	Expa	nsion Interv	als
Run 1	Sequence 1	Expansion 1	3591.5 Bottom
Run 1	Sequence 1	Expansion 2	3588.5 Top
Run 1	Sequence 1	Expansion 3	3590 Middle
Run 1	Sequence 2	Expansion 1	2981.5 Bottom
Run 1	Sequence 2	Expansion 2	2978.5 Top
Run 1	Sequence 2	Expansion 3	2980 Middle
Run 1	Sequence 3	Expansion 1	2887.5 Bottom
Run 1	Sequence 3	Expansion 2	2884.5 Top
Run 1	Sequence 3	Expansion 3	2886 Middle
Run 1	Sequence 4	Expansion 1	2851.5 Bottom
Run 1	Sequence 4	Expansion 2	2848.5 Top
Run 1	Sequence 4	Expansion 3	2850 Middle
Run 1	Sequence 5	Expansion 1	2761.5 Bottom
Run 1	Sequence 5	Expansion 2	2758.5 Top
Run 1	Sequence 5	Expansion 3	2760 Middle
		Potential	
Run 1	Sequence 6	Expansion 1	2628.5 Bottom
Run 1	Sequence 6	Expansion 2	2625.5 Top
Run 1	Sequence 6	Expansion 3	2627 Middle
	RE		7 J -=

		R		Local Expa	ander Annular Squeeze Tool Annular Isolation Service
			exic	Company: Solaris Midst	ream
			Me	Well: Cottonwood 2	2 State Swd 1
	~		New	Field: County / Parish: Eddy	State: New Mexico
tream	e Swd		State:	Location:	API: 30-015-42356
lids	Stat			Date of Service:	
ris N	d 2			Number of Runs: Number of Sequences:	
Sola	oowu			Expansions Correlated to:	Renegade R CBL 8/27/2024
y:	Cotto		Eddy	Casing Detail	OD/In Wt/Ft Grade Special 7 29 P-100
Compan	Well:	Field:	County:	LET Specialist: Witnessed By: Hoist Provided By:	

All intervals recommended are opinions based on inferences from electrical or other measurements and RWLS, LLC DBA Renegade Services cannot and do not guarantee the accuracy or correctness of those interpretations, RWLS, LLC DBA Renegade Services will not, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation or recommended operation made by any of our officers, agents, or employees.

Expansion Intervals					
Run 1	Sequence 1	Expansion 1	838.5 Botto	m	
Run 1	Sequence 1	Expansion 2	835.5 Top		
Run 1	Sequence 1	Expansion 3	837 Middl	е	
Dup 1		Expansion 1	022 5 Dotto		
Run 1	Sequence 2	Expansion 2	933.5 DUILU		
Run 1	Sequence 2	Expansion 2	930.3 TOP	~	
Run I	Sequence 2	Expansion 5	932 Wildui	e	
Run 1	Sequence 3	Expansion 1	1061.5 Botto	m	
Run 1	Sequence 3	Expansion 2	1058.5 Top		
Run 1	Sequence 3	Expansion 3	1060 Middl	е	
		— · · ·			
Run 1	Sequence 4	Expansion 1	1341.5 Botto	m	
Run 1	Sequence 4	Expansion 2	1338.5 Top		
Run 1	Sequence 4	Expansion 3	1340 Middl	е	
Run 1	Sequence 5	Expansion 1	1601.5 Botto	m	
Run 1	Sequence 5	Expansion 2	1598.5 Top		
Run 1	Sequence 5	Expansion 3	1600 Middl	е	
Run 1	Sequence 6	Expansion 1	1805.5 Botto	m	
Run 1	Sequence 6	Expansion 2	1802.5 Top		
Run 1	Sequence 6	Expansion 3	1804 Middl	е	
		Potential			
Run 1	Sequence 7	Expansion 1	1965.5 Botto	m	
Run 1	Sequence 7	Expansion 2	1962.5 Top		
Run 1	Sequence 7	Expansion 3	1964 Middl	е	
	ERE		7		





CALIBRATION CERTIFICATE			
Cert Date;	3/18/2024		
Due Date:	3/18/2025		

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 T	Input Type/ Range: 1000#		Color:RED	
F	en Number. 2	Descending		
Applied:	Reading:	Applied:	Reading:	
0	0	999	1000	
199	200	798	800	
499	500	498	500	
798	800	199	200	
999	1000	0	0	

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

Technician:



Jan 2015: Went into service.

Mar 2019: Repair WO tbg/pkr leak. New tbg and new CRA perm pkr run.

Pumped 4000 g solvent soak + 40000 g 15% HCL + 15000 g 2500ppm ClO2 4 stgs. Aug 2022: Repair WO tbg leak. Repaired tubing and new AS1-X pkr ran. Sept 2024: Repair WO tbg leak, csg leak, squeeze annulus new AS1-X pkr ran.

cgiese

25-Sep-24

×

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

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 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

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	387162
	Action Type:
	[C-103] Sub. Workover (C-103R)
CONDITIONS	

	Created By	Condition	Condition Date
	mgebremichael	None	10/23/2024

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Action 387162