Ceceived by OCD: 7/25/2024 1:40:27 Office	State of New Mic			Form C-103
<u>District I</u> – (575) 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natu	ral Resources	WELL API NO.	Revised July 18, 2013
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATION	DIVISION	5. Indicate Type of Le	15-42356
<u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fran		STATE $\overline{X}$	FEE
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 87	7505	6. State Oil & Gas Lease No.	
87505 SUNDRY NOT	ICES AND REPORTS ON WELLS		7. Lease Name or Uni	t Agreement Name
	SALS TO DRILL OR TO DEEPEN OR PLU CATION FOR PERMIT'' (FORM C-101) FO		Cottonwood 2 Stat	0
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			10. Pool name or Wild	lcat
9651 Katy Freeway, Suite 400,	Houston, TX 77024		SWD; Devonian	
4. Well Location				
	400 feet from the <u>South</u>	line and1400	feet from the _E	
Section 2		inge 26 E		unty Eddy
	11. Elevation ( <i>Show whether DR</i> , 3,963.5' GR	, RKB, RT, GR, etc.,		
12 Check	Appropriate Box to Indicate N	ature of Notice	Report or Other Dat	a
			•	
_				
PERFORM REMEDIAL WORK X TEMPORARILY ABANDON	PLUG AND ABANDON	REMEDIAL WOR		ERING CASING
PULL OR ALTER CASING		CASING/CEMENT		
DOWNHOLE COMMINGLE		o, ton to, oemert		
CLOSED-LOOP SYSTEM				
OTHER:		OTHER:		
	bleted operations. (Clearly state all p EE RULE 19.15.7.14 NMAC. For Multiple			
Solaris would like to give notice of	of intent for a remedial workover on the abov casing annulus. The plan is to rig up a pulli	e captioned well to repair	r a suspected tubing leak along	g with pressure build-up of
		1 (2.250) D		"
	firm previously located TOC in the 7" x 9-5/ assembly will be utilized to pump cement the			
	cementer retainer equipment an MIT will be			
	n expandable liner of ~125' in length from a	pproximately 2,185' – 2,	310' to cover the perforations.	A second MIT will be
performed on the entire casing str	ing to ensure wellbore integrity.			
by 3-1/2", 9.30#, HCP-110, EZGO	lentical to the previously installed string with D FJ3-SWD, IPC from 10,625' to 13,185' alc			
be called out and performed after	the workover to ensure wellbore integrity.			
Spud Date: 07/12/2014	Rig Release Da	ute: 09/18/2014		
Spud Date. 07/12/2014		03/10/2011		
I hereby certify that the information	above is true and complete to the be	est of my knowledge	e and belief.	
SIGNATURE Lauren N. Be	M TITLE Sr. Eng	ineering Tech	_DATE_(	07/25/2024
		lauren haar @a	water.com PHONE	F. 201 722 0705
Type or print name <u>Lauren N. Bean</u> For State Use Only		s. <u>iauren.dean(<i>w</i>aris</u>	water.com PHON	2. <u>201-/32-8/83</u>
APPROVED BY:	TITLE		DATE	
Conditions of Approval (if any):				

•

## **Solaris**

Submitted by: Billy Gideon 432-561-5970 7/12/2024

Prepared for: Chris Giese Drilling Engineer



# SOLARIS - COTTONWOOD 2 STATE SWD 1 - SQUEEZE

### WELLBORE DETAILS

Size		Depth (ft)		
			TMD	
			TMD	
			TVD	
			КОР	
Casing				
Size	Depth (ft)	Grade	Weight	Thread
0120				

Size Depth (ft) Grade Weight   9 5/8 5559 HCP-110 43.5	Previous Cas	ing		
95/8 5559 HCP-110 43.5	Size	Depth (ft)	Grade	Weight
	9 5/8	5559	HCP-110	43.5

Size	Depth (ft)	Grade	Weight
2 7/8	2150		
Retainer	2150		
Perforations	2225		

Formation	
Mud Weight/Type	BH Temp
	97 °F BHST
	87 °F BHCT



Solaris - Cottonwood 2 State SWD 1 - Squeeze

### JOB AND FLUID DETAILS

#### Job Details

Set Cement Retainer at +- 2,150' (Perforations at 2225')

Pump well fluid to establish circulation out 2 7/8" X 7" annulus (pump a minimum of 40 bbls)

Sting tubing into the tubing test position on the retainer and pressure test tubing to 5000 psi

Sting completely into retainer and pressure 2 7/8" X 7" annulus to 500 psi (actual annulus pressure determined on location)

Pump well fluid to establish circulation through perforations and out 7" x 9 5/8" annulus, pump 60 bbls of fresh water

Pump 40 bbls of gel Spacer

Mix and pump 315 sks of Primary slurry mixed @ 14.8 ppg, yielding 371.7 ft^3 (66.2 bbls)

Displace cement with 10 bbls of fresh water and then shutdown (actual volume determined on location)

Close surface valve for 7" x 9 5/8" annulus and apply pressure to tubing to attempt to squeeze cement into perforations.

Do not exceed 12 bbls of total displacement, then shutdown.

Sting tubing out of retainer and reverse circulate with well fluid (pump a minimum of 50 bbls)

Slurry Properties	Yield	Density	Mix Water
olully riopellies	(ft³/sk)	(ppg)	(gps)
Primary Cement	1.18	14.8	5.31

Primary Cement Slurry - 315 sks (0% Excess) TOC Surface					
60:40% Class C Premium:Compass Poz-Mix					
C-51 Suspension Agent	0.03 %				
Magnesium Oxide	0.10 %				
C-49 Expanding Gas Flow Cont	0.20 %				
CFL-2	0.40 %				



Solaris - Cottonwood 2 State SWD 1 - Squeeze

### **Volume Calculations**

Slurry	(ft)	% Excess	(ft³/ft Factor)	(ft³)	Volume (sks)	Total (sks)
Primary Cement	2250	10	0.166	373.23	316	315
						_
						_
						-
						-
						-
						-
						-
		TOTAL SLUR	RY VOLUME=	373.2	2 ft <sup>3</sup>	



### COST ESTIMATE

Description	Quantity		Units Gross Amo	ount Net Amount
Pump Charge 2001' to 3000'	1	\$3,700.00 EA	\$3,7	00.00 \$1,665.00
Pump Charge - Additional Hours	-	\$2,250.00 HR		\$0.00 \$0.00
HV Mileage	200	\$13.75 MI	\$2,7	50.00 \$1,237.50
LV Mileage	200	\$8.13 MI	\$1,6	26.00 \$731.70
Data Acquisition	1	\$1,305.00 EA	\$1,3	05.00 \$587.25
Thickening Time Test, Field Blend	1	\$2,485.00 EA	\$2,4	85.00 \$1,118.25
Diesel Fuel Surcharge	1	\$1,090.00 EA	\$1,0	90.00 \$490.50
Squeeze Manifold	1	\$1,325.00 EA	\$1,3	25.00 \$596.25
Tubing Swage	1	\$415.00 EA	\$4	15.00 \$186.75

Soda Ash - PH Buffer	25	\$1.72 LB	\$43.00	\$19.35
C-51 Suspension Agent	25	\$48.55 LB	\$1,213.75	\$546.19
Citric Acid	1	\$20.11 LB	\$20.11	\$9.05
Subtotal for Pumping & Equipment Charges			\$15,972.86	\$7,187.79
Compass Poz-Mix	126	\$33.95 SACKS	\$4,277.70	\$1,924.97
Class C Premium	189	\$61.10 SACKS	\$11,547.90	\$5,196.56
CFL-2	109	\$72.81 LB	\$7,936.29	\$3,571.33
C-49 Expanding Gas Flow Control	55	\$69.28 LB	\$3,810.40	\$1,714.68
C-51 Suspension Agent	9	\$48.55 LB	\$436.95	\$196.63
Magnesium Oxide	28	\$5.02 LB	\$140.56	\$63.25

DFL-1		\$159.42 GA	\$0.00	\$0.00
Sugar		\$6.45 LB	\$0.00	\$0.00
Materials Handling	320	\$4.35 CF	\$1,392.00	\$626.40
Drayage	63,000	\$0.10 SK x MI	\$6,552.00	\$2,948.40
Subtotal for Materials Charges			\$36,093.80	\$16,242.21
Gross Price Subtotal				\$52,066.66
Discount			55.0%	(\$28,636.66)
Pre-tax Total				\$23.430.00





July 23, 2024

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

To Whom It May Concern:

Solaris would like to give notice of intent for a remedial workover on the above captioned well to repair a suspected tubing leak along with pressure build-up of 350 psi between the 7" and 9-5/8" casing annulus. The plan is to rig up a pulling unit with hydraulic BOPs and pull the existing tubing and retrievable packer.

A new CBL log will be ran to confirm previously located TOC in the 7" x 9-5/8" annulus at 2,250'. Perforations will be shot in the 7" casing at ~2,250' pending new CBL log. A cement retainer assembly will be utilized to pump cement through the perforations and behind the 7" casing to surface to isolate the pressure in the annulus. After drilling out the cementer retainer equipment an MIT will be performed on the entire casing string to ensure wellbore integrity. If integrity is not present, it is proposed to run an expandable liner of ~125' in length from approximately 2,185' – 2,310' to cover the perforations. A second MIT will be performed on the entire casing string to ensure wellbore integrity.

A new tubing string will be ran, identical to the previously installed string with 4-1/2", 11.6#, P-110, BTC, GRE from surface to 10,625' (~200' above liner top) by 3-1/2", 9.30#, HCP-110, EZGO FJ3-SWD, IPC from 10,625' to 13,185' along with a new retrievable packer with proposed COE @ 13,185'. A new MIT will be called out and performed after the workover to ensure wellbore integrity.

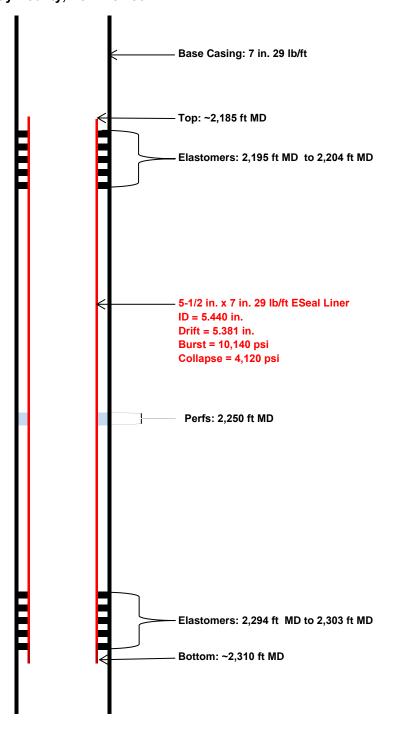
Thank you.

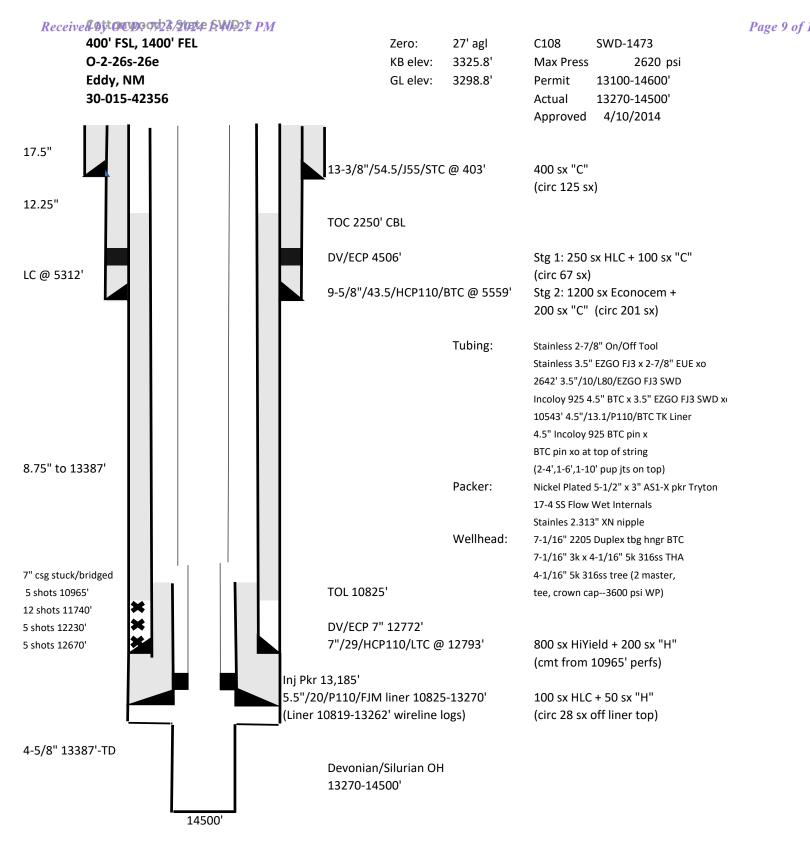
Sincerely,

Christopher Giese Drilling Engineer chris.giese@ariswater.com

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

### Solaris Water Cottonwood 2 ST SWD #1 Eddy County, New Mexico





Jan 2015: Went into service.

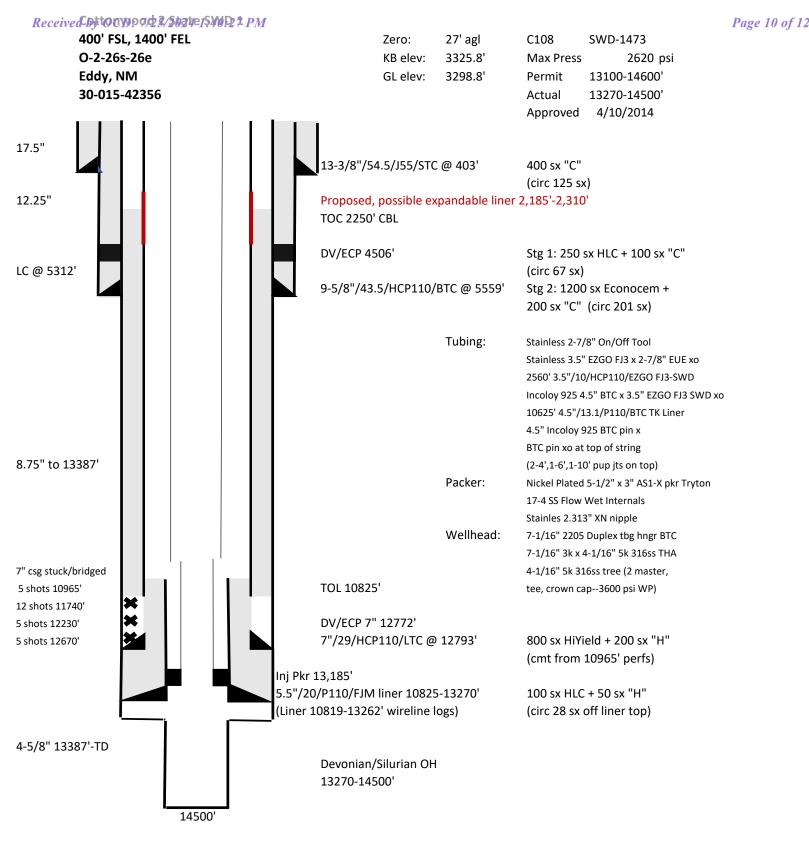
Mar 2019: Repair WO tbg/pkr leak. New tbg and new CRA perm pkr run.

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.

9-Aug-22

cgiese



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.

cgiese

9-Aug-22

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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	367391
	Action Type:
	[C-103] NOI Workover (C-103G)

CONDITIONS		
Created By	Condition	Condition Date
mgebremichael	If the workover plan changes, please inform OCD of any modifications. Additionally, provide OCD with the complete wellbore construction details after the workover is completed.	8/12/2024

CONDITIONS

Page 12 of 12

Action 367391