Office	State of New Mexico	Form <i>C-103</i> of 1
<u>District I</u> – (575) 393-6161 Ene 1625 N. French Dr., Hobbs, NM 88240	ergy, Minerals and Natural Resources	Revised July 18, 2013 WELL API NO.
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	L CONSERVATION DIVISION	30-025-42461
<u>District III</u> – (505) 334-6178	1220 South St. Francis Dr.	5. Indicate Type of Lease STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV – (505) 476-3460	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		
SUNDRY NOTICES AND (DO NOT USE THIS FORM FOR PROPOSALS TO D.)		7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLICATION FO PROPOSALS.)	R PERMIT" (FORM C-101) FOR SUCH	Wild Cobra 1 State SWD
1. Type of Well: Oil Well Gas Well	Other SWD	8. Well Number 2
2. Name of Operator Solaris Water Midstream, LLC		9. OGRID Number 371643
3. Address of Operator		10. Pool name or Wildcat
907 Tradewinds Blvd, Midland, TX 79	706	
4. Well Location Unit Letter C: 660	feet from the North line and _1	650feet from the Westline
Section 1	Township 19S Range 34E	NMPM County Lea
I I	vation (Show whether DR, RKB, RT, GR, et	,
	3963.5' (GR)	
12 Check Appropri	ate Box to Indicate Nature of Notice	Report or Other Data
11 1		•
NOTICE OF INTENTION		BSEQUENT REPORT OF:
	AND ABANDON REMEDIAL WO	PRK □ ALTERING CASING □ RILLING OPNS.□ P AND A □
 -	PLE COMPL CASING/CEME	
DOWNHOLE COMMINGLE		_
CLOSED-LOOP SYSTEM	EI OTUED	
OTHER: Step-Rate Test 13 Describe proposed or completed open	ations (Clearly state all pertinent details a	and give pertinent dates, including estimated date
	RULE 19.15.7.14 NMAC. For Multiple C	
proposed completion or recompletion		
		est (SRT) on the Wild Cobra 1 State SWD #2 to
		The test results will be used to support a request to
		om 4.5" to 5" and request a maximum injection rate performed with a BHP gauge down the current 4.5"
		d, Eaton's equation will be used to calculate the
		"tubing. The following documents are included in
support of this Notice of Intent:	0 1 1	
1. Proposed SRT Procedure		
2. Expected Wellhead Diagram3. Current Wellbore Diagram		
4. Injection History Table		
5. Summary of Well Treatment a	nd Historical ISIP	
Card Data	Pi- Palassa Datas	
Spud Date: 3/29/2015	Rig Release Date: 5/29/2015	5
I hereby certify that the information above is to	rue and complete to the best of my knowled	dge and belief.
SIGNATURE Nothern Alleman	_{TITLE} Regulatory Consu	ltant _{DATE} 11/11/2024
Type or print name Nathan Alleman	E-mail address: nate.alleman@a	
For State Use Only	L-man address	THORE. 3.5 25. 5365
APPROVED BY:	TITLE	DATE
Conditions of Approval (if any):		

Attachment 1 SRT Procedure



Proposed Step-Rate Test (SRT) Procedure

General Well Information

Operator Name: Solaris Water Midstream, LLC (OGRID# 371643)

Well Name: Wild Cobra 1 State SWD #2

API#: 30-025-42461

Injection Permit Order#: SWD-1525

Permitted Injection Formation: Devonian, Silurian, and Upper Ordovician formations

Permitted Injection Interval Depths: 14,400 – 16,100 ft **Permitted Maximum Injection Pressure:** 2,880 psi

Permitted Maximum Injection Rate: Not Included in Permit

Testing Procedure

Acid Job

- 1. Rig up goathead with sleeve and pump 26,100 gallons (gal) of 20% HCL below the expected fracture pressure. Divert with Rock Salt, over-flush with fresh water, let sit for 2-4 hours, then over-displace with approximately 2 well volumes of produced water.
- 2. Run in hole and tag bottom of hole to confirm the hole is still open. If still open, proceed with SRT.

Step-Rate Test

- 1. Notify OCD of Bradenhead Test, Mechanical Integrity Test (MIT), and SRT at least 72 hours before the SRT.
- 2. Shut in well for at least 48 hours to allow bottomhole pressure to stabilize.
- 3. Perform Bradenhead Test with OCD witness, if available.
- 4. Perform MIT, at expected SRT pressures, with OCD witness, if available.
- 5. MIRU pumping equipment and produced water sufficient to perform test at proposed pressures and volumes.
- 6. RIH with BHP
- 7. Perform SRT according to pump schedule included in Exhibit A below. Bottomhole and surface pressures will be monitored and logged throughout the entirety of the testing using a Viatran Model 511 for surface pressures and bottomhole pressures will be measured using a MEMS Model P583275 10K Sapphire gauge.
 - The SRT pump schedule is designed to achieve at least three (3) injection steps below and above the expected fracture pressure. Injection rate, surface pressures, bottomhole pressure, casing pressure, and bradenhead pressure will be monitored throughout the test. The test will conclude three (3) steps after observing a clear indication that the formation fracture pressure has been exceeded or at the end of the proposed pump schedule.
- 8. Grab samples of water and perform density measurement utilizing a calibrated hydrometer and take digital density readings with frac equipment during each pump stage.
- 9. Perform hard shutdown and let the pressure falloff, obtaining Instantaneous Shut-In Pressure (ISIP) as well as subsequent pressures at 5, 10, 15, 20, 25, and 30 minutes.
- 10. Monitor and record BHP falloff for 12 hours.

- 11. Rig down remaining equipment and conclude test.
- 12. Data will be reviewed and analyzed and an SRT Report will be prepared and submitted to OCD in accordance with OCD's Guidance for Conducting a Step-Rate Test Ver. 2023.

SRT Pump Schedule

	Time	Rate	Rate	Water Vol. Per Step		Water Vol. Pe	er Step
Step #	(min)	(bpm)	(bpd)	(bbl)	(gal)		
1	30	2.08	3,000	62.50	2,625		
2	30	5.56	8,000	166.67	7,000		
3	30	9.03	13,000	270.83	11,375		
4	30	12.50	18,000	375.00	15,750		
5	30	15.97	23,000	479.17	20,125		
6	30	19.44	28,000	583.33	24,500		
7	30	22.92	33,000	687.50	28,875		
8	30	26.39	38,000	791.67	33,250		
9	30	29.86	43,000	895.83	37,625		
10	30	33.33	48,000	1000.00	42,000		
11	30	36.81	53,000	1104.17	46,375		
Total	330			6,416.7	269,500		

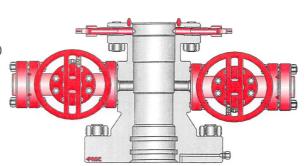
Attachment 2 Diagrams of Christmas Tree, Wellhead, and Wellbore

CUSTOMER: COG

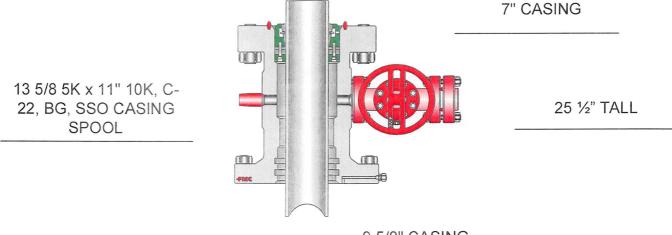
LOCATION: WILD COBRA 1 STATE SWD 2

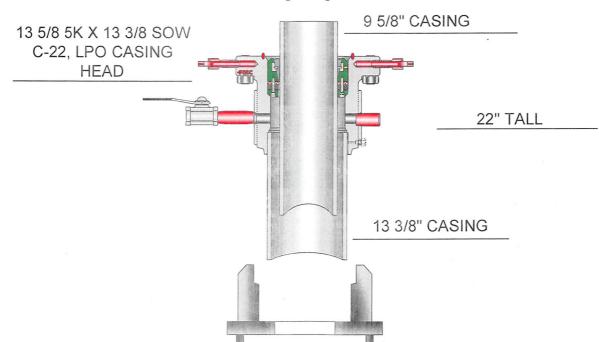
ATTN: TIM SMITH

11" 10K X 7 1/16" 10K
TUBING HEAD. COG
OWNS THIS HEAD,
TRAVELS FROM WELL TO
WELL. WILL BE
REPLACED ON PULLING
UNIT WITH 11" 3K X 7" 3K
HEAD



25 1/2" TALL

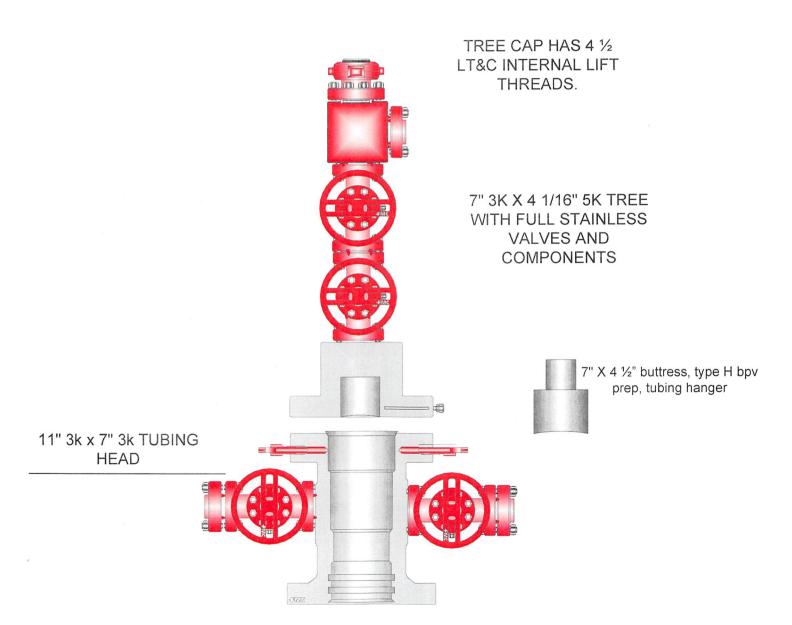


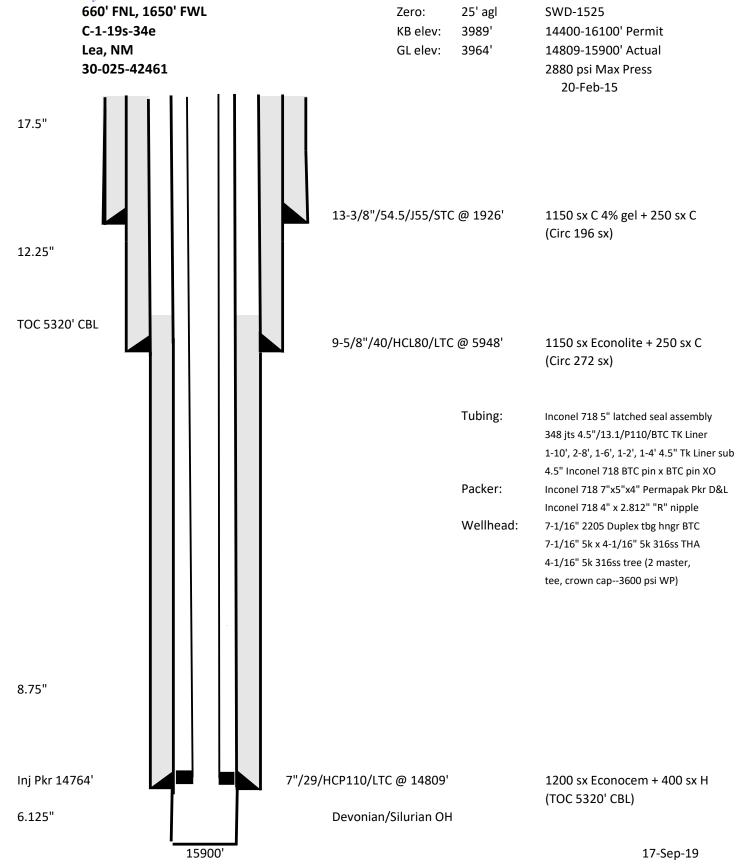


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ASSEMBLY DRAWING

CUSTOMER	DATE	
WELLNAME	B/L#	
ORDERED BY		
	·	
LOOSE MATERIAL	ASSEMBLY MATERIA	V



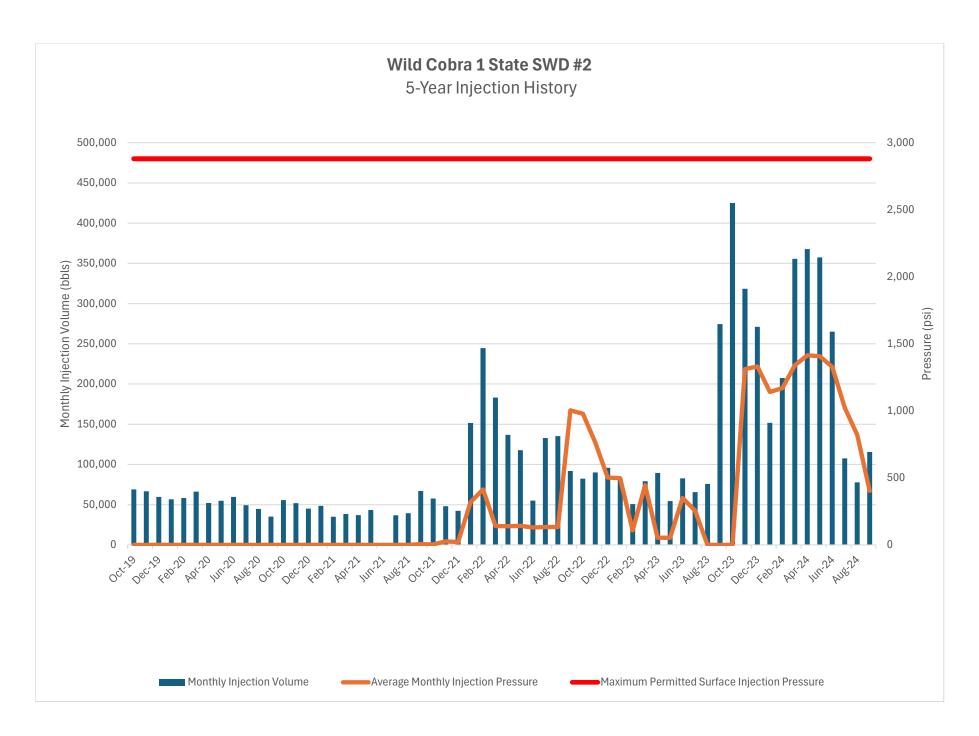


Aug 2015: In service.

Mar 2019: Return to service after extended shut in.

Attachment 3 5-Year Injection Rate and Pressure Data

Date	Injection Volume (bbls)	Average Surface Injection Pressure (psig)	Maximum Permitted Surface Injection Pressure (psi)
10/1/2019	69,022	0	2,880
11/1/2019	66,555	0	2,880
12/1/2019	59,730	0	2,880
1/1/2020	56,742	0	2,880
2/1/2020	58,285	0	2,880
3/1/2020	66,176	0	2,880
4/1/2020	52,083	0	2,880
5/1/2020	54,874	0	2,880
6/1/2020	59,626	0	2,880
7/1/2020	49,257	0	2,880
8/1/2020	44,668	0	2,880
9/1/2020	35,227	0	2,880
10/1/2020	55,638	0	2,880
11/1/2020	51,891	0	2,880
12/1/2020	45,138	0	2,880
1/1/2021	48,459	0	2,880
2/1/2021	34,970	0	2,880
3/1/2021	38,334	0	2,880
4/1/2021	36,959	0	2,880
5/1/2021	43,428	0	2,880
6/1/2021	0	0	2,880
7/1/2021	36,841	0	2,880
8/1/2021	39,456	0	2,880
9/1/2021	67,008	6	2,880
10/1/2021	57,741	4	2,880
11/1/2021	48,101	26	2,880
12/1/2021	42,387	21	2,880
1/1/2022	151,506 244,689	319 414	2,880 2,880
2/1/2022 3/1/2022	183,133	141	2,880
4/1/2022	136,796	139	2,880
5/1/2022	117,827	142	2,880
6/1/2022	55,078	130	2,880
7/1/2022	132,866	134	2,880
8/1/2022	135,179	134	2,880
9/1/2022	91,909	1,003	2,880
10/1/2022	82,334	979	2,880
11/1/2022	90,019	763	2,880
12/1/2022	95,794	502	2,880
1/1/2023	82,089	497	2,880
2/1/2023	50,663	109	2,880
3/1/2023	79,165	445	2,880
4/1/2023	89,479	54	2,880
5/1/2023	54,563	54	2,880
6/1/2023	82,817	350	2,880
7/1/2023	65,608	256	2,880
8/1/2023	75,753	0	2,880
9/1/2023	274,405	0	2,880
10/1/2023	424,967	0	2,880
11/1/2023	318,386	1,311	2,880
12/1/2023	271,036	1,330	2,880
1/1/2024	151,812	1,141	2,880
2/1/2024	207,452	1,169	2,880
3/1/2024	355,640	1,340	2,880
4/1/2024	367,847	1,414	2,880
5/1/2024	357,347	1,407	2,880
6/1/2024	265,145	1,327	2,880
7/1/2024	107,511	1,023	2,880
8/1/2024 9/1/2024	77,718 115,573	820 403	2,880 2,880
3/1/2024	110,073	403	2,080



Attachment 4 Summary of Past Well Treatments

Summary of Well Treatments

Two well treatments, both acid treatments, have been conducted on this well to-date.

The first acid treatment was performed as a part of completion operations on 07/21/2015 with 40,000 gallons of 20% HCl and 2,000 lbs of rock salt.

The second acid treatment was performed 10/16/2018 - 10/18/2018 and included the following general steps:

- Pump acid treatment with 400 gal of flowtec green solvent,
- flush with 238 bbls of treated produced water,
- SI for 1 hour to soak,
- pump 20K gal of 15% HCL acid and 20K gal of 2500 PPM CLO2 in 16 stages,
- flush with 700 BBLS of treated produced water, max injection rate of 8.6 BPM, avg rate of 7.5 BPM

No tests have been performed to-date that resulted in the Instantaneous Shut-In Pressures (ISIP) being determined.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 401401

CONDITIONS

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	401401
	Action Type:
	[C-103] NOI General Sundry (C-103X)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	None	11/14/2024