

Striker 4 SWD # 1 (30-025-49364)
NGL Water Solutions Permian (OGRID # 372338)
Lea County, New Mexico

Step Rate Test Procedure

1. Have 2,500 Bbls of saltwater available to perform the test.
2. Install lubricator on well head. GIH w/ slickline and dual quartz crystal BHP recording bombs. Set BHP bombs at 5586' (i.e., top perforation). BHP bombs should be rated for a pressure range from atmospheric to 5000 psi, and set for a pressure sampling rate of one pressure recording event 15 seconds.
3. Install a quartz crystal recording pressure gauge well head to measure the surface injection pressure of the tubing string. This gauge should be rated for a pressure range from atmospheric to 5000 psi and record one pressure record every 15 seconds. The BHP bomb internal time shall be synchronized with the internal time of the surface recording device.
4. The well should be left shutin for at least 1 hour after the BHP pressure gauge and surface pressure gauges have been installed, so that the initial static pressures can be measured.
5. Pump into the well at the following 11 step rates. Each rate/step should be for 20 minutes. It is important that all steps be roughly for the same time duration of approximately 20 minutes.
 - a. 0.5 Bbl/min
 - b. 1 Bbl/min
 - c. 2 Bbl/min
 - d. 3 Bbl/min
 - e. 4 Bbl/min
 - f. 5 Bbls/min
 - g. 8 Bbl/min
 - h. 10 Bbl/min
 - i. 12 Bbl/min
 - j. 14 Bbl/min
 - k. 16 Bbl/min
6. At the end of the last step, perform a hard shut down, and record the ISIP and continue to measure the pressures for 30 minutes after injection shut down.
7. Retrieve the BHP bombs and download BHP data.
8. Rig down all equipment.

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NGL Water Solutions Permian

Step Rate Test - Water Calculation

Rate (Bbl/Min)	Step Time (Min.)	Step Volume (Bbls)
0.5	20	10
1	20	20
2	20	40
3	20	60
4	20	80
5	20	100
8	20	160
10	20	200
12	20	240
14	20	280
16	20	320
Total =		1510

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

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

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

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-49364
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Saltwater Disposal Well		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator NGL Waste Services, LLC		6. State Oil & Gas Lease No.
3. Address of Operator 865 N. Albion Street, Suite 400, Denver CO, 80220		7. Lease Name or Unit Agreement Name Striker 4 SWD
4. Well Location Unit Letter M : 850 feet from the South line and 174 feet from the West line Section 24 Township 24S Range 34E NMPM 6th County Lea		8. Well Number 1
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 333302
10. Pool name or Wildcat		

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
DOWNHOLE COMMINGLE <input type="checkbox"/>	P AND A <input type="checkbox"/>
CLOSED-LOOP SYSTEM <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>
OTHER: <input checked="" type="checkbox"/>	OTHER: <input type="checkbox"/>

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

NGL is seeking to increase the permitted injection pressure of this well.

Step Rate Test to be performed following the attached SRT procedure.

NGL proposes to conduct SRT without MIT on grounds that:

Well is new;

Well passed MIT in 2022; and

No injection has occurred at the Well.

Spud Date:

Rig Release Date:

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

SIGNATURE  TITLE **Regulatory Director** DATE **12.14.2022**

Type or print name **Joseph Vargo** E-mail address: **joseph.vargo@nglep.com** PHONE: **303-815-1010**

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

District I

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

CONDITIONS

Action 167318

CONDITIONS

Operator: NGL Waste Services, LLC 1008 Southview Circle Center, TX 75935	OGRID: 329268
	Action Number: 167318
	Action Type: [C-103] NOI General Sundry (C-103X)

CONDITIONS

Created By	Condition	Condition Date
mgebremichael	The operator shall install pressure and temperature sensors on tubing and annulus and take measurements before the well is shut-in, during 48 hours shut-in and during SRT stepwise injections. These steps are conditions for waiving pre SRT MIT given the well is new and never injected fluid and also a successful MIT was conducted.	12/21/2022