

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

State of New Mexico
Energy, Minerals and Natural Resources

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. 30-039-31257
1. Type of Well: Oil Well ☐ Gas Well ☒ Other		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator TnT Environmental Inc.		6. State Oil & Gas Lease No. Fee/NMNM 023041
3. Address of Operator HC 74 Box 113, Lindrieth, NM 87029		7. Lease Name or Unit Agreement Name
4. Well Location Unit Letter <u>L</u> : <u>439'</u> feet from the <u>FWL</u> line and <u>1761'</u> feet from the <u>FSL</u> line Section <u>8</u> Township <u>25N</u> Range <u>3W</u> NMPM <u>Rio Arriba</u> County		8. Well Number TnT SWD #1
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 7148' GL		9. OGRID Number 308209
		10. Pool name or Wildcat Entrada SWD

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

NOTICE OF INTENTION TO:

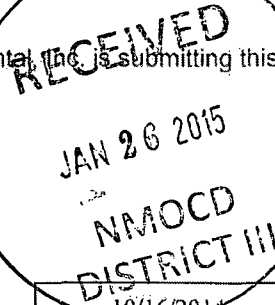
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: Formation Water Sample Analysis ☒

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.

As per Administrative Order SWD - 1498 (part 4), TnT Environmental Inc. is submitting this water analysis of the water that is a representative sample of the disposal fluid.



Spud Date:

9/25/2014

Rig Release Date:

10/16/2014

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

SIGNATURE

TITLE

Engineer/Agent

DATE

11/28/2014

Type or print name: John Thompson

E-mail address: john@walsheng.net

PHONE: 505-327-4892

For State Use Only

DEPUTY OIL & GAS INSPECTOR

APPROVED BY:

TITLE

DISTRICT #3

DATE

1/26/15

Conditions of Approval (if any):

Units of Measurement: Standard

Water Analysis Report

Production Company: TNT Environmental

Well Name: SWD POND 4

Sample Point: SWD

Sample Date: 11/20/2014

Sample ID: WA-294315

Sales Rep: Greg Ramalho

Lab Tech: Andrew Callaghan

Scaling potential predicted using ScaleSoftPitzer from
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	11/25/2014	Cations		Anions	
		mg/L		mg/L	
System Temperature 1 (°F):	31	Sodium (Na):	19500.65	Chloride (Cl):	32000.00
System Pressure 1 (psig):	15	Potassium (K):	1980.50	Sulfate (SO ₄):	462.00
System Temperature 2 (°F):	300	Magnesium (Mg):	88.17	Bicarbonate (HCO ₃):	0.00
System Pressure 2 (psig):	300	Calcium (Ca):	101.20	Carbonate (CO ₃):	0.00
Calculated Density (g/ml):	1.0336	Strontium (Sr):	34.49	Acetic Acid (CH ₃ COO):	
pH:	5.30	Barium (Ba):	9.48	Propionic Acid (C ₂ H ₅ COO):	
Calculated TDS (mg/L):	54242.42	Iron (Fe):	1.93	Butanoic Acid (C ₃ H ₇ COO):	
CO ₂ in Gas (%):		Zinc (Zn):	0.01	Isobutyric Acid ((CH ₃) ₂ CHCOO):	
Dissolved CO ₂ (mg/L):	320.00	Lead (Pb):	0.00	Fluoride (F):	
H ₂ S in Gas (%):	7.000000	Ammonia NH ₃ :		Bromine (Br):	
H ₂ S in Water (mg/L):	7.50	Manganese (Mn):	1.02	Silica (SiO ₂):	62.97

Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO ₄ ·2H ₂ O		Celestite SrSO ₄		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
300.00	300.00	0.00	0.00	0.78	4.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82	0.00
270.00	268.00	0.00	0.00	0.81	4.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.04	0.00
240.00	236.00	0.00	0.00	0.85	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27	0.00
210.00	205.00	0.00	0.00	0.91	4.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.52	0.00
180.00	173.00	0.00	0.00	0.99	5.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.79	0.00
150.00	141.00	0.00	0.00	1.11	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10	0.00
120.00	110.00	0.00	0.00	1.27	5.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.44	0.00
90.00	78.00	0.00	0.00	1.48	5.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.83	0.00
60.00	46.00	0.00	0.00	1.75	5.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.28	0.00
31.00	15.00	0.00	0.00	2.08	5.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.81	0.00

		Hemihydrate CaSO ₄ ·0.5H ₂ O		Anhydrite CaSO ₄		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca/Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
300.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.00	268.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.00	236.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.00	205.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	173.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	141.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.00	110.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.00	78.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.00	46.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00