

From: [Greg Olson](#)
To: [Goetze, Phillip, EMNRD](#)
Cc: [Chris Longwell](#); [Alex Campbell](#)
Subject: [EXTERNAL] EndurinChris Longwell <clongwell@enduringresources.com>g NEU 2207 16B SWD No. 1 Application
Date: Wednesday, September 20, 2023 2:37:54 PM
Attachments: [Copy of NEU Water Testing Wellbore Diagram.pdf](#)

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Mr. Goetze,

Enduring will be performing another water sampling of the Enduring NEU 2207 16B SWD No. 1 to fulfill the additional testing request. We will be carrying out the flow test and sampling beginning this coming Monday, the 25th of September. Could you please let us know who will be witnessing the testing and their contact information. Estimated time to complete the flow and testing is between 1 and 3 days.

Below is a basic procedure to accomplish the testing.

The well does not have a pump in it currently but we have identified a way to produce the required purging volume. Procedure and cost below.

- 1) RU pump truck capable of 8 bpm pump rate. Test lines to 3,000 psi. Reset pop off to 2,800 psi and re-test.
- 2) Pressure up to shear pump out plug set in packer (set for 1945 psi shear) while pumping at ± 4 bpm
- 3) RD pump truck and lines and release.
- 4) Rig up lines to flow to water pit. RU Air Drilling Associates. Using no chemicals, pump down back side and begin lifting water. Continue lifting water until approximately 800 bbls has been produced.
- 5) Have Creedence sample the water for full chemical analysis after 739 bbls are lifted.
- 6) RDMO air equipment and secure well.

Cost Estimate - \$21,800

Greg Olson
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From: "Goetze, Phillip, EMNRD" <phillip.goetze@emnrd.nm.gov>
Date: September 19, 2023 at 11:22:00 AM MDT

To: Alex Campbell <ACampbell@enduringresources.com>

Cc: "Wrinkle, Justin, EMNRD" <Justin.Wrinkle@emnrd.nm.gov>, "Powell, Brandon, EMNRD" <Brandon.Powell@emnrd.nm.gov>, "Moander, Chris, EMNRD" <Chris.Moander@emnrd.nm.gov>, "Fuge, Dylan, EMNRD" <Dylan.Fuge@emnrd.nm.gov>, Brian Egolf <Brian@egolfaw.com>

Subject: Enduring NEU 2207 16B SWD No. 1 Application

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Good morning Mr. Campbell. I have been asked by the Director to follow up on the two items that were requested regarding the application for the conversion of the POD 1 to a UIC Class II disposal well.

1. Notice Requirements: the information provided by Enduring to the Director has satisfied the notice requirements for the application and is now complete.
2. Formation Water Sampling: I am reminding Enduring that the requested re-sampling of the Entrada waters is necessary for the OCD to comply with the Exempt Aquifer program and the EPA UIC regulations for characterization of USDW. The same level of effort conducted for the POD 3 sampling event should be followed for this sampling event. This would include the same basic procedures included in the Sampling and Analysis Plan for the POD 3 and approved by OCD. I would also request that if the sampling event has not been conducted, that Enduring provide the opportunity for an OCD representative to witness the event. Again, as with the POD 3 sampling, the final report should include a copy of the SAP along with the laboratory analytical reports, all field measurements, and any additional information to support the sampling event.
3. I will be meeting with Chris Angel of the OSE regarding any concerns they have with their model for the POD 1 and its operation as a UIC Class II disposal well. I have the information submitted Enduring for this subject including John's summary of the model interpretation. I will contact you should I have any questions or concerns.

If you have any questions regarding the content of this e-mail or have questions on the sampling event procedures, please contact me at your convenience. Thank you. PRG

Phillip R. Goetze
UIC Group Manager
Oil Conservation Division
Energy, Minerals and Natural Resources Department
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Direct: 505.660.8274
Email: phillip.goetze@emnrd.nm.gov

OPERATOR: ENDURING RESOURCES IV, LLC

WELL: NEU 2207-16B WSW

FIELD: North Escavada Unit

API #: _____

LEASE #: _____

OSE File & POD #: SJ-4301 POD1

CNTY: Sandoval

STATE: NM

SPUD: 9.20.2018

COMP: _____

STATUS: WSW

WBD DATE: 09/19/23

FTG: _____

Q-Q: NWNE

SEC.: 16

TWS: 22N

RGE: 7W

BY: JTC

WELLBORE DIAGRAM

KBE: 6931 '

KB: 14 '

GLE: 6917 '

TD (ft): 7392 '

PBTD (ft): 7303 '

13-3/8", 54½# J-55 Csg @ 387.7 '

Cemented w/ 440 sxs

17½" Hole

Top Ojo Alamo @ 747 '

Top Kirtland @ 804 '

Top Pictured Cliffs @ 1297 '

Top Menefee @ 2815 '

Top Mancos @ 3872 '

Top Dakota @ 5760 '

Top Entrada @ 6901 '

Packer at 6859 '

EOT @ 6864 '

ENTRADA

ENTRADA

ENTRADA

ENTRADA

ENTRADA

TOP

6925

6991

7049

7109

BTM

6930

6996

7059

7114

PBTD @ 7303 '

7", 23# HCL-80 Csg @ 7392 '

Cmtd w/ 945 sxs

TD @ 7392 '

12½" Hole

CASING RECORD

HOLE (in)	SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	BTM (ft)	JTS
17½	13 3/8	54.5	J-55	0	387.7	
12 1/4	7	26	L-80	0	7392	

TUBING RECORD

COND: NEW

DATE: _____

SIZE (in)	WT (lb/ft)	GRADE	TOP (ft)	TALLY (ft)	JTS
2 3/8"	4.6	L-80	0	3013.00	93

ITEM	MAKE/MODEL	SIZE (in)	TALLY (ft)	DEPTH (ft)	JTS
KB			0.00	14.00	
HANGER			0.00	14.00	
TUBING	J-55	2 3/8"		3013.00	
Packer		2 7/8"		6859.00	
EOT @				6864.00	

PERFORATION & STIMULATION RECORD

ZONE	TOP (ft)	BTM (ft)	SPF	TOTAL SHOTS	STATUS	VOL / PROP
Entrada	6925	6930	4	16	OPEN	
Entrada	6991	6996	5	20	OPEN	
Entrada	7049	7059	5	20	OPEN	
Entrada	7109	7114	5	20	OPEN	

Purging Calculations

Static Fluid level is 568' below surface

2 3/8" Volume = (3013'-568')*0.00387bbl/ft = 9.5 bbls

2 3/8" x 7" Volume = (3013'-568')*0.0328bbl/ft = 80.2 bbls

7" Volume = (7114'-3013')*0.0382bbl/ft = 156.7 bbls

Wellbore Volume = 246.4 bbls

3 Wellbore Volume Flush = 739.2 bbls

Released to Imaging: 1/7/2024 12:01:09 PM

NEU Water Testing Wellbore Diagram.xlsx

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

Action 300692

CONDITIONS

Operator: NEW MEXICO ENERGY MINERALS & NATURAL RESOURCE 1220 S St Francis Dr Santa Fe , NM 87504	OGRID: 264235
	Action Number: 300692
	Action Type: [IM-SD] Well File Support Doc (ENG) (IM-AWF)

CONDITIONS

Created By	Condition	Condition Date
pgoetze	None	1/7/2024