RECEIVED: 3/29/2014 REVIEWER:	TYPE: Swo P	MAMI 408857961
- Geolo	(ICO OIL CONSERVATION DI ogical & Engineering Bureau Francis Drive, Santa Fe, NM	VISION
	STRATIVE APPLICATION CHEC	
	R ALL ADMINISTRATIVE APPLICATIONS FOR EX H REQUIRE PROCESSING AT THE DIVISION LEVI	
Applicant: Delaware Energy, LLC		OGRID Number: 371195
Well Name: Ruehle SWD #1		API:
Pool: SWD; Devonian		Pool Code:
1) TYPE OF APPLICATION: Check thos A. Location – Spacing Unit – Sim NSL NSF		5 C+D- MAR 29 2018 PH03:19 NIT) □SD
 [II] Injection – Disposal – Pre WFX PMX 2) NOTIFICATION REQUIRED TO: Check A. Offset operators or lease h B. Royalty, overriding royalty C. Application requires public D. Notification and/or concu E. Notification and/or concu 	-Measurement PLC PC OLS C ssure Increase – Enhanced Oil SWD IPI EOR F ck those which apply. holders y owners, revenue owners shed notice urrent approval by SLO	
 F. Surface owner G.For all of the above, proof H. No notice required 3) CERTIFICATION: I hereby certify the administrative approval is accurate understand that no action will be the standard statement. 	e and complete to the best of	vith this application for f my knowledge. I also

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Sarah Presley

Print or Type Name

 $\frac{3/26/2018}{\text{Date}}$

432-685-7005

Phone Number

s.presley@delawareenergy.com e-mail Address

gnature

notifications are submitted to the Division.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

	APPLICATION FOR AUTHORIZATION TO INJECT MAR 29 2018 PH03:1.9
I.	PURPOSE: Secondary Recovery Pressure Maintenance XXDisposal Storage Application qualifies for administrative approval? XXYes No
II.	OPERATOR:Delaware Energy, LLC
	ADDRESS: 405 North Marienfeld, Suite 250, Midland TX 79701
	CONTACT PARTY:PHONE:432-685-7005
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project?YesXXXX_No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME:Mike McCurdyTITLE:Vice-President
	SIGNATURE: DATE:03/15/2018

E-MAIL ADDRESS: ____m.mccurdy@delawareenergy.com_

If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.
 Please show the date and circumstances of the earlier submittal:

- III. WELL DATA
- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Additional Questions on C-108

VII.

- 1. Proposed average and maximum daily rate and volume of fluids to be injected; Average 15,000-20,000 BWPD, Max 25,000 BWPD
- 2. Whether the system is open or closed; Open System, Commercial SWD
- 3. Proposed average and maximum injection pressure; Average 1,500-1,800 PSI, Max 2,580 PSI

4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,

Bone Spring, Delaware, and Wolfcamp produced water. No known incompatibility exists with these produced water types and the Devonian. Devonian formation is used as a disposal interval throughout the Delaware Basin for Wolfcamp, Bone Springs, and Delaware produced water. See attached water analysis from Bone Spring, Wolfcamp, and Delaware produced water.

5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

Disposal interval tested Sulphur water by Mewbourne in nearby Top Gunn #1 SWD.

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed <u>injection</u> zone as well as any such sources known to be immediately underlying the injection interval.

The proposed disposal interval is in the Devonian formations 12,900'-13,900'. Devonian is an impermeable organic Shale at the very top (12,800ft, Woodford Shale) 100ft thick followed by permeable lime, dolomite, and small amount of shale 1000ft thick. There are no fresh water zones underlying the proposed injection zone. Usable water depth is from surface to 300', the water source is older alluvium (Quaternary). All of the fresh water wells in the area have an average depth to water of 172ft – 175ft. The Devonian was tested in the offset Top Gunn and produced Sulphur water.

IX. Describe the proposed stimulation program, if any.

60,000 gallons 20% HCL acid job with packer

X. Attach appropriate logging and test data on the well

Mud log will be filed after the well has been drilled. All cased hole and open hole Logs will be filed following drilling operations.

XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. No active water wells were found within a 1 mile radius.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Delaware Energy, L.L.C. has reviewed and examined available geologic and engineering data in the area of interest for the Ruehle SWD #1 and have found no evidence of faults or other hydrologic connections between Devonian disposal zone and the underground sources of drinking water. Furthermore, there exist many impermeable intervals between the injection interval and the fresh ground water from the top of the Devonian Carbonate and the base of the ground water.

Mike McCurdy	Vice President	03/15/2018
	Title	Date

III. WELL DATA

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section. Ruehle SWD #1, Sec. 28-T23S-R27E, 660' FSL & 660' FEL, UL P, Eddy County, New Mexico

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

Casing Size	Setting Depth	Sacks of Cement	Hole Size	Top of Cement	Determined
13-3/8″	500'	450	17-1/2"	Surface	CIRC
9-5/8″	9,000'	2500	12-1/4"	Surface	CIRC
7-5/8″	8,800'-12,900'	650	8-1/2"	Surface	CIRC

(3) A description of the tubing to be used including its size, lining material, and setting depth.

5-1/2" X 5" OD, Internally Fiber Glass Coated Tubing set 50 to 100ft above open hole

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Weatherford Arrow Set 1X injection packer with on/off tool

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

- Devonian Formation Pool Name: SWD (Devonian)
- (2) The injection interval and whether it is perforated or open-hole. 12,900' to 13,900' (OH)
- (3) State if the well was drilled for injection or, if not, the original purpose of the well. Well is a planned new drill for SWD

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

None, well is a planned new drill

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

Next Higher: Morrow 11,320'-12,000', Atoka 10,660'-11,320', Strawn 10,430'-10,660', Wolfcamp 8,620'-10,430', Bone Springs 5,130'-8,620'.

Next Lower: None

OPERATOR:	Delaware Energy, LLC				
WELL NAME & NUMBER:	MBER: Ruchle SWD #1				
WELL LOCATION: _	660' FSL & 660'FEL FOOTAGE LOCATION	P UNIT LETTER	28 SECTION	23S TOWNSHIP	27E RANGE
<u>NF</u>	WELLBORE SCHEMATIC see attached wellbore sketch	e sketch	<u>WELL CONSTRUC</u> Surface Casing	WELL CONSTRUCTION DATA Surface Casing	
		Hole Size: 17.5"		Casing Size: <u>13-3/8", 54.5#</u>	. 54.5#
	600	Cemented with: 450	SX.	or	ft3
	2000	Top of Cement: <u>surface</u>		Method Determined: Plan to Circulate	I: Plan to Circulate
			Intermediate Casing	e Casing	
	,000,6	Hole Size: 12-1/4"		Casing Size: 9-5	9-5/8°°, 47#, L-80
		Cemented with: 2,500	SX.	or	ft3
		Top of Cement: <u>surface</u>		Method Determined: Plan to Circulate	I: Plan to Circulate
			Production Casing	Casing	
	1	Hole Size: <u>8-1/2</u> "		Casing Size: 7-5/	<u>7-5/8", 39#, P-110</u>
		Cemented with: 650	SX.	or	
		Top of Cement: Surface		Method Determined: Plan to Circulate to liner top	I: Plan to Circulate
	14,200	Total Depth: <u>12,900'</u>			
			Injection Interval	interval	
		12,900' (OP	feet (OPEN HOLE)	feet to <u>13,900'</u>	I

INJECTION WELL DATA SHEET

Side 1

ECTION WELL DATA	SHEET	
CTION WEL	A	

-	Tubing Size: 5.5"x 5.0" tapered string Lining Material: Fiber Glass
Ty_{l}	Type of Packer: Weatherford Arrow Set 1X
Рас	Packer Setting Depth: 12,850'
Otł	Other Type of Tubing/Casing Seal (if applicable):
	<u>Additional Data</u>
	Is this a new well drilled for injection? XXXX Yes No
	If no, for what purpose was the well originally drilled? <u>N/A</u>
5.	Name of the Injection Formation: Devonian
Έ	Name of Field or Pool (if applicable): SWD; Devonian
4	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. <u>N/A</u>
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	Below: none
	Next Higher: Morrow 11,320'-12,000', Atoka 10,660'-11,320', Strawn 10,430'-10,660', Wolfcamp 8,620'-10,430', Bone Springs 5,130'-8,620'.



DISTRICT I 1825 N. French Dr., He Phone (575) 393-6161 Fan DISTRICT II 811 S. First St., Ar Phone (575) 748-1285 Fan DISTRICT III 1000 Rio Brazos Rd Phone (505) 334-6178 Fan Dane (505) 534-6178 Fan Dane (505) Fan Dane (505) 534-6178 Fan Dane (505) 545-6178 Fa	n: (575) 393-07 tesia, NM 8 n: (575) 748-97	8210 8210 20	OIL	CON 12	SERVA 20 South	TIC St.	v Mexico Resources Departmo ON DIVIS Francis Dr. Vexico 87505	Subr	Revised Augunit one copy to a		
DISTRICT IV 1220 S. St. Francis Dr. Phone (505) 476-3460 Fa	., Santa Fe, N x: (505) 478-34	NM 87505 462	WELL LO	CATION	AND AC	REA	GE DEDICATIO	ON PLAT	AMENDED	REPORT	
API 1	Number		1	Pool Code				Pool Name			
Property C	ode				Property RUEHLE				Well Nu	ımber	
OGRID No 371195					Operator OELAWARE	Nam	e			Elevation 3184'	
571195					Surface				, I		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/West line	County	
Р	28	23 S	27 E		660		SOUTH	660	EAST	EDDY	
			Bottom	Hole Lo	cation If	Diffe	rent From Sur				
UL or lot No.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/West line	County	
Dedicated Acres	Joint o	or Infill Co	onsolidation	Code 0	rder No.		1	I			
N:466710.5 E:581463.2 (NAD 83)					A_2'		APPROVED BY 7	OPERATO I hereby cer contained hereir the bast of my in interest of my in interest or unle land including ti- location or has or to a voluntar compulsory pooli- the division. Signature Sarah Pre Printed Name S.presley@ Email Address SURVEYO I hereby certify on this plat woo actual surveys supervison and correct to the MAR Date Surveys Signature i Professional	R CERTIFICA' that the well local is plotted from fiel made by me or d that the same is best of my beli DD, 100 MEX Serveyor	nation lete to , and that ting that ting that the well at with an , interest, or a entered by <u>3.15.18</u> Date By.com FION tion shown d notes of under my s true and of.	
N:461396.6 E:581479.4 (May B3)		 	N:461397. E:584122.	Long – NMSPCI 4 3,	N 32.270189 W 104.188516 E N 462058.0 E 586097.1 (NAD-83)		0 660'- 	4.7 SC	1000' 1500 ALE: 1" = 1000'	2000' ¹	

4











Located 660' FSL & 660' FEL Section 28, Township 23 South, Range 27 East, N.M.P.M., Eddy County, New Mexico.

Micin	P.O. Box 1786 1120 N. West County Rd.	0' 1000' 2000' 3000' 4000' SCALE: 1" = 2000'	1	
Surveys	Hobbs, New Mexico 88241 (575) 393-7316 - Office	W.O. Number: KJG - 33603 Survey Date: 03-06-2018		Delaware Energy
focused on excellence in the oilfield	(575) 392-2206 - Fax basinsurveys.com	YELLOW TINT – USA LAND BLUE TINT – STATE LAND NATURAL COLOR – FEE LAND		



Sec 22, T25, 5, R28E

Bone Spring

;

North Permian Basin Region P.O. Box 740 Sundown, TX 79372-0740 (806) 229-8121 Lab Team Leader - Shella Hernandez (432) 495-7240

Water Analysis Report by Baker Petrolite

Company:		Sales RDT:	33514.1
Region:	PERMIAN BASIN	Account Manager:	TONY HERNANDEZ (575) 910-7135
Area:	ARTESIA, NM	Sample #:	534665
Lease/Platform:	PINOCHLE 'BPN' STATE COM	Analysis ID #:	106795
Entity (or well #):	2 H	Analysis Cost:	\$90.00
Formation:	UNKNOWN		
Sample Point:	WELLHEAD		

Summary	Analysis of Sample 534665 @ 75 F							
Sampling Date: 03/10/11	Anions	mg/l	meq/i	Cations	mg/l	ñpem		
Analysis Date: 03/18/11	Chioride:	109618.0	3091.92	Sodium:	70275.7	3056.82		
Analyst: SANDRA GOMEZ	Bicarbonate:	2135.0	34.99	Magnesium:	195.0	16.04		
	Carbonate:	0.0	0.	Calcium:	844.0	42.12		
TDS (mg/t or g/m3): 184911.1	Sulfate:	747.0	15.55	Strontium:	220.0	5.02		
Density (g/cm3, tonne/m3): 1.113 Anion/Cation Ratio: 1	Phosphale:			Barlum:	0.8	0.01		
Aruon/Cation Ratio:	Borate:			Iron:	6.5	0.23		
	Silicale:			Polassium:	869.0	22.22		
				Aluminum:				
Carbon Dioxide: 0 50 PPM	Hydrogen Sullide:		0 PPM	Chromium:				
Oxygen:	all at time of exemplian		_	Copper:				
Comments:	pH at time of sampling:	•		Lead:				
	pH at time of analysis:			Manganese:	0.100	0,		
	pH used in Calculatio	n:	7	Nickel:				

Cond	Conditions Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl											
Temp Gauge Calcite Press. CaCO ₃		Gypsum CaSO42H2 0		Anhydrite CaSO		Celestite SrSO4		Barite BaSO		CO ₂ Press		
F	psi	Index	Amount	Index	Amount	index	Amount	Index	Amount	Index	Amount	psi
80	0	1.08	188.52	-1.20	0.00	-1.18	0.00	-0.11	0.00	0.56	0.29	1.72
100	0	1.10	206.05	-1.29	0.00	-1.20	0.00	-0.15	0.00	0.35	0.29	2.35
120	0	1.12	224.17	-1.36	0.00	-1.19	0.00	-0.17	0.00	0.16	0.00	3.17
140	0	1.13	243.17	-1,42	0.00	-1.18	0 00	-0.18	0.00	0.00	0.00	4.21

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and smount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.



Scale Predictions from Baker Petrolite

:

:

80

100

120

Temperature in F

140

-1

0

Temperature in F



Water Analysis

Date: 23-Aug-11

Company		Vell Name	Draw 1#		Cinto
Company		BD 8D	C	ounty Lea r	State New Mexico
Sample Source	Swab Sa		Sample #	dy	1-265-29
Formation		•	Depth		
Specific Gravity	1.170		SG @	60 °F	1.172
pН	6.30		S	ulfides	Absent
Temperature (*F)	70		Reducing /	Agents	
Cations					
Sodium (Calc)		in Mg/L	77,962	in PPM	66,520
Calcium		in Mg/L	4,000	in PPM	3,413
Magnesium		in Mg/L	1,200	in PPM	1,024
Soluable Iron (FE2)		in Mg/L	10.0	in PPM	9
Anions					
Chlorides		in Mg/L	130,000	in PPM	110,922
Suffates		in Mg/L	250	in PPM	213
Bicarbonates		in Mg/L	127	in PPM	108
otal Hardness (as CaCO	3)	in Mg/L	15,000	in PPM	12,799
otal Dissolved Solids (Ca	ic)	in Mg/L	213,549	in PPM	182,209
Equivalent NaCl Concentre	ation	in Mg/L	182,868	in PPM	156,031
caling Tendencies	-				
Calcium Carbonate Index					507,520
Below 500,000	Remote / 500,	.000 - 1,000,000) Possible / Above 1	,000,000 Probabl	ð
alcium Sulfate (Gyp) Inde	X				1,000,000

Report # 3188

CHEMICALS	16, T23,S CI PRODUCTION D and CONSULTING CONSULT	EPARTMENT	Post Office Box Artesia, N.M.	88211-0298 Artesia Office Hobbs Office
Compan Addres Lease Well Sample	-	Date Date Sau Analysi:	mpled : MARCH	17, 2008 17, 2008
	ANALYSIS	15g / 1	2	* meg/L
1.	p# 6.0 H2S 0			
	Specific Gravity 1.070			
	Total Dissolved Solids	304684.	Q	
	Suspended Solids	NR		
	Dissolved Oxygen	NR		
	Dissolved CO2	NR		
	Oil In Water	NR		
9.	Phenolphthalein Alkalinity (CaC03)		
10.	Methyl Orange Alkalinity (Ca	CO3)		
11.	Bicarbonate	HCO3 927.	0 HCO3	15.2
12.	Chloride	Cl 187440.	0 C1	5287.4
	Sulfate	SO4 500.	0 504	10.4
	Calcium	Ca 37200.		1856.3
	Magnesium	Mg 996.	-	82.0
	Sodium (calculated)	Na 77586.		3374.B
	Iron	Fe 35,	-	
	Barium	-	R .	
	Strontium		R	
20.	Total Hardness (CaCO3)	97000.	0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt	X meq/L	= mg/L
*				
1856 *Ca < *HCO3 15	Ca (HCO3) 2	81.0	15.2	1231
> >	CaSO	68.1	10.4	709
82 *Mg> *504 [10]	CaC12	55.5	1830.7	101584
[/ /	Ng (HCO3) 2	73.2		
1 33751 *Na> *C1 1 52871	NgSO4	60.2		
++ ++	MgC12	47.6	82.0	3902
Saturation Values Dist. Water 20 C	NaRCO3	84.0		
CaCO3 13 mg/L	Na2504	71.0		
CaSO4 * 2820 2090 mg/L	NaC1	58.4	3374.8	197223
BaSO4 2.4 mg/L				

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REMARKS :

April 13, 2018

Oil Conservation Division Attn: Mr. Phillip Goetze 1220 South St. Francis Drive Santa Fe, NM 87505

RE: Application of Delaware Energy, LLC for a Disposal Well Permit Ruehle SWD #1 660' FSL, 660' FEL, Unit Letter P Section 28, Township 23S, Range 27E Eddy County, TX

Dear Mr. Goetze:

Mewbourne Oil Company has negotiated terms, with Delaware Energy, LLC, that will minimize the impact of the Ruehle SWD #1 on our future development and production operations. We therefore drop our protest to this SWD application.

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Please contact me if you have any questions.

Very truly yours,

Juity R. Harright

Tim Harrington 903-561-2900 tharrington@mewbourne.com



Hollywood 28 33 W2LM Federal Com #1H (Active Permit) Mewbourne Oil Co. (OPERATOR) P.O. Box 7698 Tyler, Texas 75711

Pure Grace State #1 (Producing Well) Devon Production Company, LP (OPERATOR) 333 West Sheridan Avenue Oklahoma City, OK 73102



Santa Fe. New Mexico 87504

- Ogden Farms & Cattle
 159 W. Ogden Road
 Loving, NM 88256
- Leah Lewis Ruehle
 303 HillCrest Dr.
 Smithville, MO 64089



LEASES – ONE MILE RADIUS

SECTION 21-T23S-R27E

LO-0490 .

Mobil Producing Texas & NM Inc. (Lessee) P.O. Box 2305 Houston, TX 77252

SECTION 22-T23S-R27E

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VB-1659 Caza Petroleum, Inc (Lessee) 10077 Grogans Mill Road, Suite 200 The Wodlands, TX 77380

SECTION 27-T23S-R27E

VB-1139 • Caza Petroleum, Inc (Lessee) 10077 Grogans Mill Road, Suite 200 The Wodlands, TX 77380

SECTION 29-T23S-R27E

FEE .

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Devon Energy Production Company (Lessee) 333 W. Sheridan Avenue Oklahoma City, OK 73102

SECTION 32-T23S-R27E

NMNM 137020 Conoco Phillips Co. (Lessee) P.O. Box 2197 Houston, TX 77252

SECTION 33-T23S-R27E

NMNM 0275360 Conoco Phillips Co. (Lessee) P.O. Box 2197 Houston, TX 77252

NMNM 112915

Chevron USA, Inc. (Lessee) 6301 Deauville Blvd Midland, TX 79706

VB-1475

Devon Energy Production Company (Lessee) 333 W. Sheridan Avenue Oklahoma City, OK 73102

SECTION 28-T23S-R27E

• VO-8988

Devon Energy Production Company (Lessee) 333 W. Sheridan Avenue Oklahoma City, OK 73102

• NMNM 112915

Chevron USA, Inc. (Lessee) 6301 Deauville Blvd Midland, TX 79706

• FEE

Devon Energy Production Company (Lessee) 333 W. Sheridan Avenue Oklahoma City, OK 73102

• FEE

Chisholm Energy Holdings, LLC (Lessee) 801 Cherry Street, Suite 1200 Fort Worth, TX 76102

NMNM 117115

Chevron USA, Inc. 6301 Deauville Blvd. Midland, TX 77380

SECTION 34-T23S-R27E

•

- NMNM 117115 Chevron USA, Inc. 6301 Deauville Blvd. Midland, TX 77380
- VO-6959
 Devon Energy Production Company (Lessee)
 333 W. Sheridan Avenue
 Oklahoma City, OK 73102



Delaware Energy, L.L.C. 405 N. Marienfeld, Suite 250 Midland, TX 79701 Office: (432) 685-7005

March 15, 2018

Surface Owner / Offset Operators

Re: Notification of Application for Authorization to Inject Ruehle SWD #1 Well

Ladies and Gentlemen:

Delaware Energy, LLC is seeking administrative approval to utilize the proposed Ruehle SWD #1 as a Salt Water Disposal well. As required by the New Mexico Oil Conservation Division Rules, we are notifying you of the following proposed salt water disposal well. This letter is a notice only. No action is required unless you have questions or objections.

<u>Well</u> :	Ruehle SWD #1
Proposed Disposal Zone:	Devonian Formations (from 12,900'- 13,900')
Location:	660' FSL & 660' FEL, UL P, Sec. 28-T23S-R27E,
	Eddy Co., NM
Applicants Name:	Delaware Energy, L.L.C.
Applicants Address:	405 N. Marienfeld, Suite 250, Midland, TX 79701

This application for water disposal well will be filed with the New Mexico Oil Conservation Division. If they determine the application complies with the applicable regulations, then it will be approved. The New Mexico Conservation Division address is 1220 South St. Francis Dr., Santa Fe, NM 87505. And their phone number is 505-476-3460.

Please call Mike McCurdy with Delaware Energy, LLC if you have any questions at 432-312-5251.

Sincerely, Sarah Preslev

DISTRIBUTION LIST

Leah Lewis Ruehle 303 Hillcrest Dr. Smithville, MO 64089

Ogden Farms & Cattle 159 W. Ogden Road Loving, NM 88256

David & Kristi Squires 96 Stormy Lane Carlsbad, NM 88220

New Mexico Oil Corporation P.O. Box 1714 Roswell, NM 88202

Bureau of Land Management 301 Dinosaur Trail Santa Fe, New Mexico 87508

State of New Mexico 310 Old Santa Fe Trail Santa Fe, New Mexico 87504

Caza Operating, LLC 10077 Grogans Mill Road, Suite 200 The Woodlands, TX 77380

Mewbourne Oil Co. P.O. Box 7698 Tyler, Texas 75711

Devon Production Company, LP 333 West Sheridan Avenue Oklahoma City, OK 73102

Mobil Producing Texas & NM Inc. P.O. Box 2305 Houston, TX 77252

Chevron USA, Inc 6301 Deauville Blvd. Midland, TX 79706 Conoco Phillips Co. P.O. Box 2197 Houston, TX 77252

Chisholm Energy Holdings, LLC 801 Cherry Street, Suite 1200 – Unit 20 Fort Worth, TX 76102

State of New Mexico Oil Conservation Division District II 811 S. First St. Artesia, NM 88210

State of New Mexico Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No. 0001238814

DELAWARE ENERGY, L.L.C. 405 N. MARIENFELD SUITE 250 MIDLAND TX 79701

I, a legal clerk of the **Carlsbad Current-Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

<u>03/16/18</u>

Subscribed and sworn before me this 16th of March 2018.

County of Brown

NOTARY PUBLIC

My Commission Expires

Ad#:0001238814 P O : Ruehle SWD #1 # of Affidavits :0.00 Delaware Energy, L.L.C., 405 N. Marienfeld St. Suite 250. Midland. ТΧ 79701, has filed a form C-108 (Application for Authorization to Inject) with the Oil **Conservation** Division seeking administrative approval to drill Ruehle SWD #1 as a Salt Water Disposal well. The Ruehle #1 is located at 660' FSL and 660' FEL, Unit Letter P, Section 28, Town-ship 23 South, Range 27 East, Eddy County, New Mexico. The well will dispose of water produced from oil and gas wells into the Devonian Formation 12,900' from to 13,900' at a maximum rate of 25,000 barrels of water per day at a maximum pressure of 2,580 psi. Interested parties must file objections or requests for hearing with the Oil Conservations Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days. Additional information can be obtained by contacting Delaware Energy, L.L.C., at (432) 685-7005.



Ruehle SWD #1 API#: 30-015-Location: Sec. 28, T-23-S, R-27-E, UL P

Estimated Pre-Drill Formation Tops

Lamar	2,000'
Delaware Sand	2,100′
Bone Springs	5,130′
Wolfcamp	8,620'
Strawn	10,430'
Atoka	10,660'
Morrow	11,320'
Barnett/Upper Miss	12,000'
Mississippian Lime	12,300'
Woodford Shale	12,800'
Devonian	12,900'

MEMORANDUM OF SALT WATER DISPOSAL LEASE AND EASEMENT AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

This Memorandum of Salt Water Disposal Lease and Easement Agreement is made and entered into this 7th day of March, 2018, between Leah Lewis Ruehle, Trustee of the Leah Lewis Ruchle Trust under Trust Agreement dated September 13, 2000, whose address is 303 Hillcrest Drive, Smithville, Missouri 64089-9531, hereinafter called "Lessor", and Delaware Energy, LLC, a New Mexico limited liability company, whose address is 405 North Marienfeld, Suite 250, Midland, Texas, hereinafter called "Lessee":

WITNESSETH:

Lessor and Lessee have this day entered into a Salt Water Disposal Lease and Easement Agreement (hereinafter called the "Lease"), dated effective as of the date first-written above, covering the following described lands in Eddy County, New Mexico, to-wit:

Township 23 South, Range 27 East, N.M.P.M. Section 28: SE/4

Said Lease and, subject to certain termination provisions, contains a primary term of two (2) years and shall remain in force as long thereafter, subject to the further conditions and limitations stated in the terms and provisions of said Lease.

Lessor and Lessee are executing this Memorandum of Salt Water Disposal Lease and Easement Agreement for the purpose of placing the same of record in Eddy County, New Mexico, and in order to constitute constructive notice of said Lease in lieu of recording of said Lease in its entirety. A full and complete copy of said Lease will be maintained in the office of both Lessor and Lessee at the address shown above.

IN WITNESS WHEREOF, this Memorandum of Salt Water Disposal Lease and Easement Agreement is executed as of the day, month and year first hereinabove written.

Lessor:

LEAH LEWIS RUEHLE TRUST

Leak Lewis Ruchel, Iruster Leah Lewis Ruchle, Truster

Reception: 1804022 Book: 1105 Page: 0220 Pages: 2 Recorded: 03/12/2018 08:57 AM Fee: \$25.00 Eddy County, New Mexico ~ Robin Van Natta, County Clerk

Lessee:

DELAWARE ENERGY, LLC

resident Operations

STATE OF MISSOURI)) ss. COUNTY OF CLAY)

This instrument was acknowledged before me this <u>7</u> day of March, 2018, by Leah Lewis Ruehle, Trustee of the Leah Lewis Ruehle Trust under Trust Agreement dated September 13, 2000.

My commission expires: $05 \rightarrow 3 \rightarrow 0$ Notary Public

STATE OF TEXAS)) ss. COUNTY OF MIDLAND) JODI MCCORKENDALE Notary Public - Notary Seel STATE OF MISSOURI Clay County My Commission Expires: May 23, 2020 Commission # 12348450

This instrument was acknowledged before me this 3^{th} day of March, 2018, by Mike MCUVAL, VP of Operations f Delaware Energy, LLC, a New Mexico limited liability company, on behalf of said company.

My commission expires: July 1,2020



Delaware Energy, LLC Application for Injection/SWD

Ruehle SWD #1

UL P, Sec. 28, T-23-S, R-27-E, 660' FSL & 660' FEL, Eddy Co., NM

March 15, 2018

Contents:

- 1. Administrative Application Checklist
- 2. Form C-108: Application for Authority to Inject

MAR 29 2018 PM03:19

- 3. Form C-108 Additional Questions Answered
- 4. Form C-102
- 5. Chemical Analysis of Bone Springs Formation Water Sample from T25S, R28E, Eddy Co., NM
- 6. Chemical Analysis of Wolfcamp Formation Water Sample from T26S, R29E, Eddy Co., NM
- 7. Chemical Analysis of Delaware Formation Water Sample from T23S, R28E, Eddy Co., NM
- 8. Planned wellbore diagram for the Ruehle SWD #1
- 9. Tabular Data on All Wells of Public Record within the Area of Review which Penetrate the Proposed Injection Zone (No applicable wells)
- 10. No FW Sample No Fresh Water wells within 1 mile of the Ruehle SWD #1
- 11. Map Identifying all Wells and Leases within Two Miles of Any Proposed Injection Well with a One Mile Radius Circle Drawn Around Each Proposed Injection Well
- 12. Sample of Letter Sent with This Application Packet to Owner of Surface of the Land on Which the Well is to be Located and to each Leasehold Operator within One Mile of the Well Location
- 13. Affidavit of Publication of Legal Notice that was run as required in the Carlsbad Current-Argus
- 14. Formation Tops
- 15. Memorandum of Salt Water Disposal Agreement

McMillan, Michael, EMNRD

From:	McMillan, Michael, EMNRD
Sent:	Thursday, March 29, 2018 4:17 PM
То:	Mike McCurdy
Cc:	'Tim Harrington'; Jones, William V, EMNRD; Lowe, Leonard, EMNRD; Goetze, Phillip, EMNRD
Subject:	Notification of Protest for Application to Inject - Ruehle SWD No. 1

RE: Ruehle SWD Well No. 1 (API 30-015-Pending; Admin. Appl. No. pMAM1808857961) Unit P; Sec 28, T23S, R27E, NMPM, Eddy County

Mr. McCurdy:

OCD was notified by the Mewbourne Oil Company that they are protesting this application. This party is identified as an affected person for the location being considered for the application. You are being notified that if Delaware Energy, LLC wishes for this application to be considered, they must either go to hearing or may be reviewed administratively if the protest is withdrawn as a result of a negotiated resolution with this party. The application will be retained pending resolution of the protest. Please continue to provide OCD with information regarding the standing of this application. Please me call with any questions on this matter.

Contact Information:

Mr. Tim Harrington Mewbourne Oil Company P. O. Box 7698 Tyler, Texas 75711 903-561-2900 (phone) e-mail: Tim Harrington tharrington@mewbourne.com

Michael McMillan 1220 South St. Francis Santa Fe, New Mexico 505-476-3448 Michael.mcmillan@state.nm.us March 16, 2018

Oil Conservation Division Attn: Mr. Phillip Goetz 1220 South St. Francis Drive Santa Fe, NM 87505

RE: Application of Delaware Energy, LLC for a Disposal Well Permit Ruehle #1 660' FSL, 660' FEL, Unit Letter P Section 28, Township 23S, Range 27E Eddy County, TX

Dear Mr. Goetz:

Mewbourne Oil Company hereby protests the above referenced application of Delaware Energy, LLC for a commercial salt water disposal permit. Mewbourne is the producing leasehold operator of this section and the drilling and operation of this disposal well could have a negative impact on our future development.

Please contact me if you have any questions.

Very truly yours,

Tim Harrington 903-561-2900 tharrington@mewbourne.com

Goetze, Phillip, EMNRD

From:	Tim Harrington <tharrington@mewbourne.com></tharrington@mewbourne.com>
Sent:	Friday, March 16, 2018 1:01 PM
То:	Goetze, Phillip, EMNRD
Subject:	DELAWARE ENERGY LLC SWD APPLICATION PROTESTS
Attachments:	Ruehle #1 Protest Letter.pdf; Hood #1 Protest Letter.pdf

Phillip:

Attached are protest letters regarding Delaware Energy's Ruehle #1 and Hood #1 salt water disposal well applications. Mewbourne is an impacted party since we operate oil and gas wells and have development plans in both of these sections.

Please get back with me if you have any questions. Thanks.

Tim Harrington

Reservoir Engineer Mewbourne Oil Company 3620 Old Bullard Road PO Box 7698 Tyler, TX 75701

W- 903-561-2900 (Ext 7647) C - 832-217-6852 tharrington@mewbourne.com

FORM C-10	8 Technical R	Review Summary	[Prepared b	y reviewer and include	ed with application; V16.2]	
$(1) \qquad \qquad$						
ORDER TYPE: WFX / PMX / SWD Number: 1744 Order Date: 08/28/16 Legacy Permits/Orders:						
Well No. 1 Well Name(s): Ruchle SWD Protested by Maubarne Protest wD 04/13/18						
API : 30-0 15-44853 Spud Date: TBD New or Old (EPA): New (UIC Class II Primacy 03/07/1982)						
Footages Gdo' FSL/ Gdo' FEL Lot or Unit P Sec_28 Tsp_23S Rge_27E County_Eddy						
General Location: <u>5.2 miles west of Loving; Nof Bands Pool: SWD; Devonian</u> Pool No.: BLM 100K Map: <u>Carlsbad</u> Operator: <u>Delaware Energy</u> OGRID: <u>371195</u> Contact: <u>Swah Presleg</u>						
BLM 100K Map: CartsDad Operator: I leavare Energy OGRID: 371195 Contact: Judy Thester						
COMPLIANCE RULE 5.9: Total Wells: 10 Inactive: O Fincl Assur: Yes Compl. Order? No IS 5.9 OK? Yes Date: 18						
WELL FILE REVIEWED & Current Status: APD filed;						
WELL DIAGRAMS: NEW: Proposed 🕑 or RE-ENTER: Before Conv. 🔿 After Conv. 🔿 Logs in Imaging:						
Planned Rehab Work to Well: *[Increased Notice and AOR to one-mile; 20" conductor]						
Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)		Sx or Cf	Cement Top and Determination Method	
Planned _or Existing _Surface		0 to 500	Stage Tool	450	Cir. to surface	
Planned or Existing Interm/Prod	12/4 95/8	0 to 9000	DV 500	2500	Cir to surface	
Planned_or ExistingInterm/Prod					V	
Planned or Existing Prod Liner	2 812 75/8	12900 to 8800			TOL-NO CBL	
Planned_or Existing Liner					**==*	
Planned or Existing OH/ PERF	612	12900-13900	Inj Length	<u>Completion</u>	/Operation Details:	
Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Drilled TD	PBTD	
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Confining Unit Litho Struc Por	12900	Woodford	12800		or NEW Perfs ()	
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Confining Unit: Litho. Struc. Por. Adjacent Unit: Litho. Struc. Por.	12400	Silurion Montova	15400		ace Press. 2580 psi	
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POTASH: P.111-P. NA Noticed? NA BLM Sec Ord No WIPP Noticed? Salt/Salado T: B: NW: Cliff House fm-						
FRESH WATER: Aquifer Allwighter (Check) Max Depth < 400 HYDRO AFFIRM STATEMENT By Qualified Person O						
NMOSE Basin: Carlsback CAPITAN REEF: thry adj NA / No. GW Wells in 1-Mile Radius? FW Analysis?						
Disposal Fluid: Formation Source(s) BS/ Wolfcamp DMG Analysis? 18 On Lease Operator Only O or Commercial O						
Disposal Interval: Inject Rate (Avg/Max BWPD): 20,000/25,000 Protectable Waters? No Source: Historical System: Closed of Open						
HC Potential: Producing Interval? No Formerly Froducing? No Method: Logs/DST/P&A/Other Mullog 2-Mi Radius Pool Map						
AOR Wells: 1/2-M Radius Map and Well List / ON ANO. Penetrating Wells: _ [AOR Horizon als: _]						
Penetrating Wells: No. Active WellsNum Repairs?on which well(s)?Diagrams?Diagrams?						
Penetrating Wells: No. P&A Wells_						
NOTICE: Newspaper Date 03 16 18 Mineral Owner Fee Surface Owner Fee N. Date 3/6/18						
RULE 26.7(A): Identified Tracts? Yes Affected Persons: Chishola CorocoPhilips Mobil / Chavron / Dwory N. Date 3/14/8						
Order Conditions: Issues: HC potential; conductor with no cement; liner Toc calculated; por Strat control						
Additional COAS: Cont Conductor; CBL for liner; no returns - CBL & District notice; mullog W/formations						
	v				\sim v	



Pending Application for High-Volume Devonian Disposal Well C-108 Application for Ruehle SWD No. 1 – Delaware Energy LLC

Ruehle SWD No. 1; Delaware Energy LLC

API 30-015-44853; Application No. pMAM1808857961; Rcvd 03.29.2018 Proposed interval: 12,900' to 13,900' Proposed construction: processing application with current design; tapered tubing 5.5-inch to 5-inch. Protested by Mewbourne; suspn: 03.29.2018; protest retracted April 13, 2018.

Closet Devonian Wells with Large-Volume Potential: Iceman State SWD No. 1 (30-015-44265) spud 2.11.2018; approved current tubing: 4.5-in only; no pending application for tubing size modification.