Revised March 23, 2017

REGEIVED: 1/25/2018	REVIEWER:	SwD	APP NO: DMAM1811555453
11272018		ABOVE THIS TABLE FOR OCD DIVISIO	ION USE ONLY
	- Geologic	O OIL CONSERVAT al & Engineering B ancis Drive, Santa F	
	ADMINISTR	ATIVE APPLICATION	N CHECKLIST
THIS CHEC		ADMINISTRATIVE APPLICATIC QUIRE PROCESSING AT THE DIV	ONS FOR EXCEPTIONS TO DIVISION RULES AND IVISION LEVEL IN SANTA FE
pplicant: Delaware Ener			OGRID Number: 371195
ell Name: Chapman S	WD #1		API: Pending 20-025-44de
SWD; Devonian			Pool Code: 96101
	TION: Check those v	INDICATED BELOW	ED TO PROCESS THE TYPE OF APPLICATION V
	pacing Unit – Simulto	aneous Dedication	APR 25 2018 PM03:08
[] Commir □ DH [] Inje <u>c</u> tion	only for [1] or [11] Igling – Storage – Me IC CTB PL n – Disposal – Pressur FX PMX I SW	C PC OLS	nced Oil Recovery
 NOTIFICATION RE A. Offset op B. Royalty, o C. Applicati D. Notificati E. Notificati 	QUIRED TO: Check t erators or lease hold overriding royalty ow on requires publishe on and/or concurre on and/or concurre	hose which apply. lers ners, revenue owne d notice nt approval by SLO	ers FOR OCD ONLY Notice Complete Content Complete
		notification or publi	lication is attached, and/or,
administrative ap understand that	proval is accurate a	nd complete to the en on this application	nitted with this application for e best of my knowledge. I also on until the required information and
Note: S	itatement must be complete	ed by an individual with ma	anagerial and/or supervisory capacity.
			4/20/2018

- t

Sarah Presley

Print or Type Name

Science Stature

432-685-7005

Phone Number

Date

s.presley@delawareenergy.com e-mail Address STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL **RESOURCES DEPARTMENT**

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

	APPLICATION FOR AUTHORIZATION TO INJECT
I.	PURPOSE: Secondary Recovery Pressure Maintenance XXXDisposal Storage Application qualifies for administrative approval? XXYes No
II.	OPERATOR:Delaware Energy, LLC
	ADDRESS:405 North Marienfeld, Suite 250, Midland TX 79701
	CONTACT PARTY:Mike McCurdyPHONE:432-312-5251
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 McCurdy	TITLE:	Vice-President	
	$\Lambda \lesssim$			
SIGNATURE:			DATE:	04/09/2018

* 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.

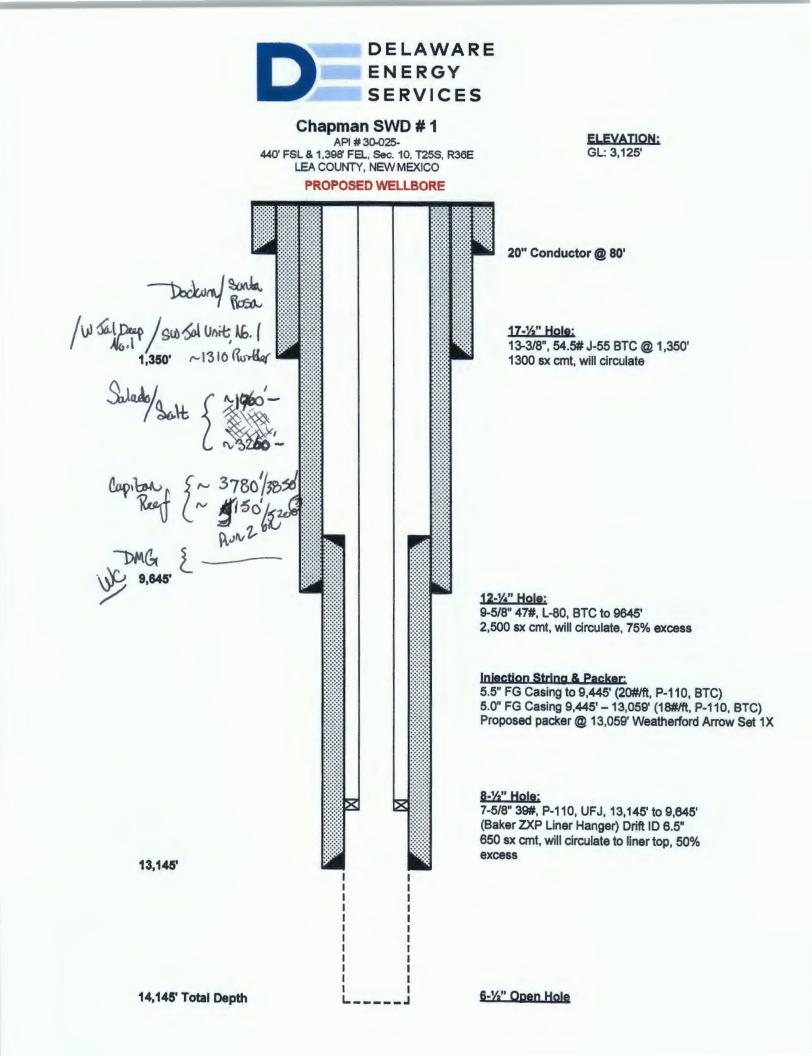
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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.

Side 1	INJ	ECTION WELL DATA SHE	ET		
OPERATOR:	Delaware Energy, LLC				
WELL NAME & NUM	BER: <u>Chapman SWD No 1</u>				
WELL LOCATION:	<u>440' FSL & 1,398'FEL</u> FOOTAGE LOCATION	O UNIT LETTER	10 SECTION	25S TOWNSHIP	<u>36E</u> RANGE
	FOUTAGE LOCATION	UNIT LETTER			
<u>WEL</u>	<u>LBORE SCHEMATIC</u> see attached we	llbore sketch		<u>STRUCTION DAT</u> Casing	<u>4</u>
		Hole Size: <u>17.5</u>	<u>,,,</u>	Casing Size: <u>13-</u>	<u>3/8", 54.5#</u>
	1,350'	Cemented with:	<u>1300</u> sx.	or	ft ³
		Top of Cement:	surface	Method Determ	ined: Plan to Circulate
			Intermedia	ate Casing	
	9,645'	Hole Size: <u>12-1/</u>	4"	Casing Size:	9-5/8", 47#, L-80_
		Cemented with:	_2,500' sx.	or	ft ³
		Top of Cement:	_surface	Method Determ	ined: Plan to Circulate
			Productio	on Casing	
		Hole Size:8-1/	2"	Casing Size: <u>7</u>	- <u>5/8", 39#, P-110</u>
		Cemented with:	<u>650</u> sx.	or	ft ³
	13,145'	Top of Cement:	Top of Liner	Method Determ to liner top	ined: Plan to Circulate
		Total Depth:	13,145'		
			Injection	n Interval	
		13,145	fe (OPEN HOLE)	et to <u>14,145'</u>	

INJECTION WELL DATA SHEET

Τι	ubing Size: <u>5.5"x 5.0" tapered string</u> Lining Material: <u>Fiber Glass</u>					
Туре	of Packer:Weatherford Arrow Set 1X					
Pack	er Setting Depth: <u>13,095'</u>					
Othe	r Type of Tubing/Casing Seal (if applicable): <u>none</u>					
	Additional Data					
1.	Is this a new well drilled for injection?XXXXXYesNo					
]	If no, for what purpose was the well originally drilled?N/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/AN/A_N/A					
2.	Name of the Injection Formation: <u>Devonian</u>					
3.	Name of Field or Pool (if applicable): <u>SWD; Devonian</u>					
	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>					
	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: Delaware 5,645' – 7,395', Wolfcamp 9,645'- 11,645, Bone Springs 7,395'-9,645'.					



Delaware Energy, L.L.C. has reviewed and examined available geologic and engineering data in the area of interest for the Chapman 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	4/9/2018
	Title	Date

III. WELL DATA

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section. Chapman SWD #1, Sec. 10-T25S-R36E, 440' FSL & 1398' FEL, UL O, Lea 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"	1,350'	1300	17-1/2"	Surface	CIRC
9-5/8″	9,645'	2500	12-1/4"	Surface	CIRC
7-5/8″	9,445'-13,145'	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, nickel plated 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. 13,145' to 14,145' (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

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 2,629 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 zone is barren and does not produce

*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 13,145'-14,145. Devonian is an impermeable organic Shale at the very top (13,145ft, Woodford Shale) 500ft 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 147ft.

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.

Included in the application is a water well sample from Section 10 of T25S R36E.

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.

(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: Delaware 5,645' – 7,395', Wolfcamp 9,645'- 11,645, Bone Springs 7,395'-9,645'.

Next Lower: None

DISTRICT I 1825 N. French Dr., Hobbs, NM 88240 Phone (873) 383-8161 Fas: (876) 383-0720 DISTRICT II 811 S. First St., Artesia, NM 88210 Fhame (875) 748-1253 Fas: (876) 748-9720

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone (805) 334-6170 DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone (505) 476-3460 Fax: (505) 476-3462

API Number

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

96101

Form C-102 Revised August 1, 2011

□ AMENDED REPORT

Submit one copy to appropriate District Office

Pool Name

SWD; DEVONIAN

Well Number **Property** Code **Property** Name CHAPMAN SWD 1 OGRID No. **Operator** Name Elevation 3125' DELAWARE ENERGY 371195 Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 0 10 25 S 36 E 440 SOUTH 1398 EAST LEA Bottom Hole Location If Different From Surface UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Joint or Infill **Consolidation** Code Dedicated Acres Order No. NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION N:420786.7 E:878332. (NAD 83) N:420753.9 E:875699.7 (NAD 83) 420729.5 873044.3 OPERATOR CERTIFICATION OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unLEAsed mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. (NAD 83) ina 4.11.18 Signature Date SARAH PRESLEY Printed Name s.presley@delawareenergy.com Email Address N:418091.1 E:873068.7 (NAD 83) SURVEYOR CERTIFICATION I hereby certify that the well location shown N:418143.5 E:878353.2 (NAD 83) on this plat was plotted from field notes of 3126.9' 3126.9 actual surveys made by me or under my supervison, and that the same is true and correct to the о s.L. -1 my belief. CH 106,020 NEXICO Date S 3120.3' 3121.9' Signa re Prof irveyor 7977 Certifi SURFACE LOCATION Lat - N 32.138797* Long - W 103.248988* NMSPCE- N 415920.0 1398 500' 1500' 2000' SCALE: 1" = 1000' WO Num: 2000' E 876973.1 n 440, (NAD-83)

NM WAIDS D	ATA			
S-T-R	FIELD	FORMATION	TDS	CHLRD
24-235-29E	REMUDA	DEVONIAN	64582	37500
24-235-29E	REMUDA	DEVONIAN	56922	29000
06-235-34E	BELL LAKE NORTH	DEVONIAN	71078	42200
34-23S-34E	ANTELOPE RIDGE	DEVONIAN	80187	47900

Water Analysis - Disposal Zone - DEVONIAN

Water Analysis - Source Zone - BONE SPRING

BioTechak Laboratory Analysis Endurance Sample Oato: 1/31/2014 Requested by: Jazzmaster 17 State #4H T. Retia Les Co, NM Water Analysis Meanwarsants Caterna (*) Aniens (-) main (100₅) -----1 190 14 449 the if HCC - 6 Tatal Qu 100 (mg/L) Magnesian (Ng) 118320 (100) 0 10100 (met.) (a Tatal Handwey ... 54 285 ma phota itun (F=) 100

Water Analysis - Source Zone - DELAWARE

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	RESULT OF WATER (HAL TEES		
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Angeland Singer				



P.O. Box 3394, Midland, Texas 79702 Phone (432) 684-4233 Fax (432) 684-4277

Water Analysis

Code	204157				
Client Informa	ation	Sample Information	on		
Delaware Er	nergy	Lease/Well:	Chapman/Fresh	Water Well	
County:	Lea				1
Rep:	Derrick Boutwell	Sample Point: Date Sampled: Date Reported:	03/08/2018 03/13/2018	CP-181	

Results

Cations

lon	Concentration(mg/L)
Barium (as Ba)	0
Calcium (as Ca)	14
Iron (as Fe)	0
Sodium (as Na)	109
Magnesium (as Mg)	5

Anions

lon	Concentration(mg/L)
Chlorides (as Cl)	102
Sulfate (as SO4)	212
Carbonate (as CO3)	0
Bicarbonates (as HCO3)	317
Sulfide (as S2-)	0

Scaling Indices

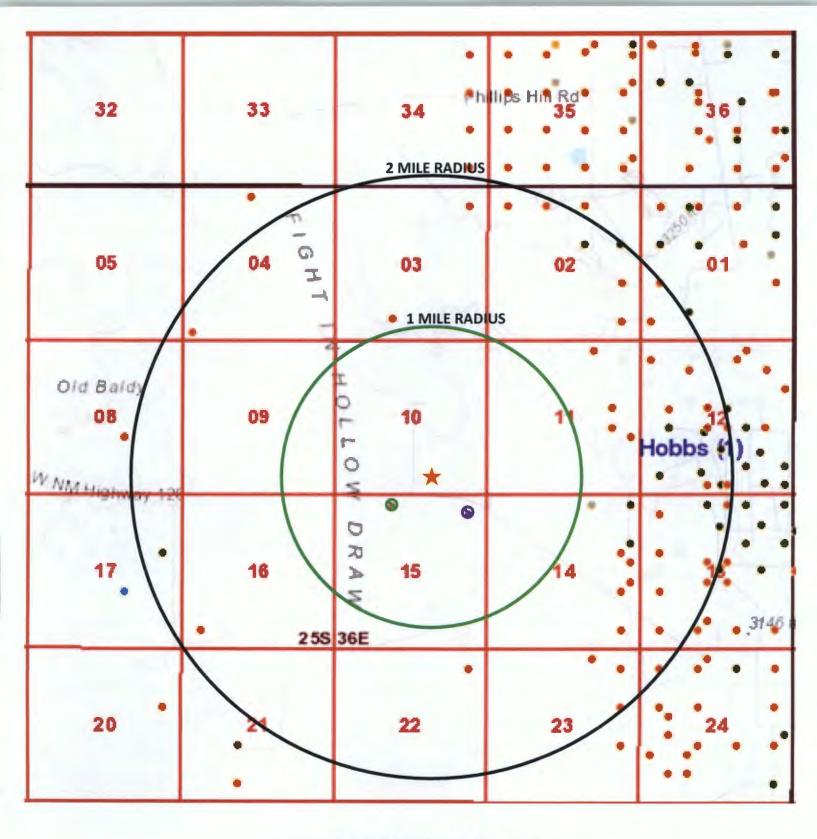
Temp(F)	CaCO ₃	CaSO ₄ *2H ₂ O	CaSO ₄	BaSO ₄
80	-0.4320	0.0000	0.0000	-27.5301
120	-0.1275	0.0000	0.0000	-27.7358
160	0.2008	0.0000	0.0000	-27.8420
200	0.4986	0.0000	0.0000	-27.8854
250	0.7782	0.0000	0.0000	-27.9019

Low = < 0.200, Moderate = 0.200-0.999, High = > 1.00

Comments

Other Measurements

Measurement	Value
рН	7.34
SG	1.0008
Turbidity	9
CO2	
Total Dissolved Solids	759.000



WELLS - ONE MILE RADIUS

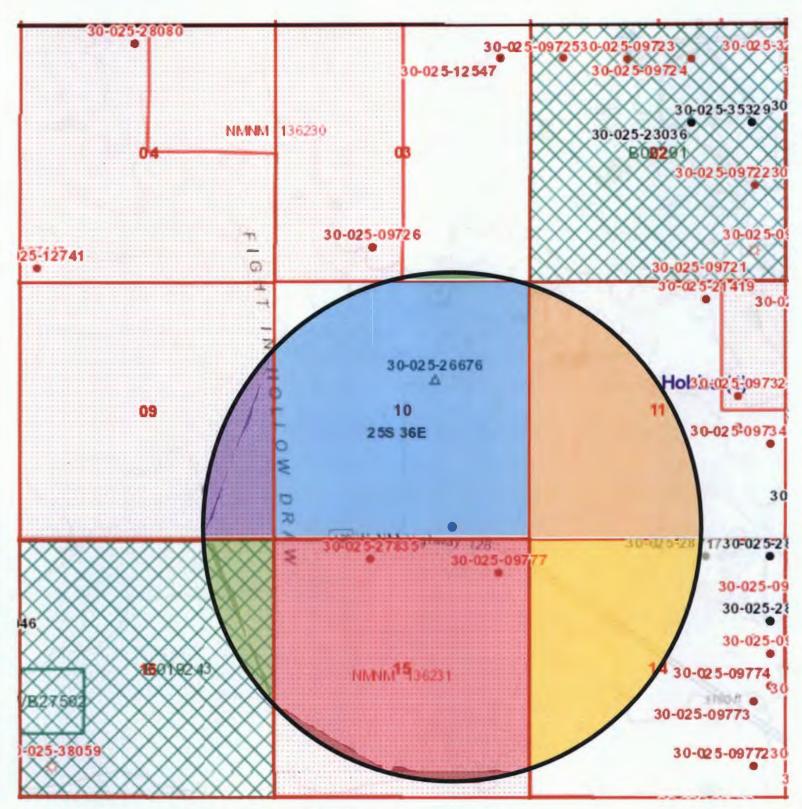
SECTION 10-T25S-R36E

Chapman SWD #1 (Proposed Location) Delaware Energy, LLC SECTION 15-T25S-R36E



McKee #1
 (PLUGGED AND ABANDONED)

S Federal 15 #1 (PLUGGED AND ABANDONED)



LEASES - ONE MILE RADIUS

.

SECTION 3-T25S-R36E

- Ameredev (Lessee)
 - 5707 Southwest Pkwy Bldg 1. Suite 275 Austin, TX 78735

SECTION 9-T25S-R36E

NMNM 127447 EOG Resources, Inc. (Lessee) 5509 Champions Drive Midland, TX 79706

SECTION 10-T25S-R36E

 Jetstream Oil and Gas Partners, LP (Lessee)
 105 Nursery Ln., Suite 220
 Fort Worth, TX 76114

SECTION 11-T25S-R36E

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

SECTION 14-T25S-R36E

Moriah Resources (Lessee) 303 W. Wall St., #2400 Midland, TX 79701

SECTION 15-T25S-R36E

NMNM 136231 Kew Drilling (Lessee) 4849 Greenville Ave., #1125 Dallas, TX 75206

SECTION 16-T25S-R36E

EO 1924 Broughton Petroleum, Inc. (Lessee) 1205 Silliman Street Sealy, TX 77474 Delaware Energy, L.L.C. 405 N. Marienfeld, Suite 250 Midland, TX 79701 Office: (432) 685-7005

April 11, 2018

Surface Owner / Offset Operators

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

Ladies and Gentlemen:

Delaware Energy, LLC is seeking administrative approval to utilize the proposed Chapman SWD #1 as a commercial 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> :	Chapman SWD #1
Proposed Disposal Zone:	Devonian Formation (from 13,145'- 14,145')
Location:	440' FSL & 1,398' FEL, UL O, Sec. 10, T25S, R36E,
	Lea 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 432-685-7005.

Sincerely,

Sarah Presley

DISTRIBUTION LIST

Surface Owner:

Johnny Chapman P.O. Box 875 Jal, NM 88252

Offset Operators/Leasehold Owners:

EOG Resources, Inc. 5009 Champions Drive Midland, TX 79706

ExxonMobile Oil Corp. P.O. Box 4358 Houston, TX 77210

Mobil Prod TX & NM 12450 Greenspoint Drive Houston, TX 77060

O'Neill Properties, Ltd. 410 W. Ohio Midland, TX 79701

Kew Drilling 4849 Greenville Ave, #1125 Dallas, TX 75206

Broughton Petroleum, Inc. 1205 Silliman Street Sealy, TX 77474

Moriah Resources 303 W. Wall St., Suite 2400 Midland, TX 79701

Jetstream Oil and Gas Partners 105 Nursery Ln., Suite 220 Fort Worth, TX 76114

Ameredev 5707 Southwest Pkwy Bldg. 1, Suite 275 Austin, TX 78735

1

Chevron USA Inc. 6301 Deauville Blvd. – Midland, TX 79706

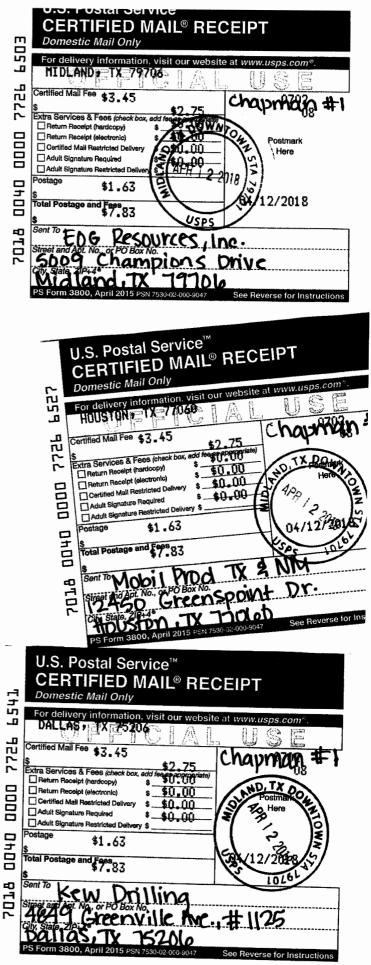
State of New Mexico Oil Conservation Division District I 1625 N. French Dr. Hobbs, NM 88240

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



aland, TX

1970





Affidavit of Publication

STATE OF NEW MEXICO COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

> Beginning with the issue dated April 17, 2018 and ending with the issue dated April 17, 2018.

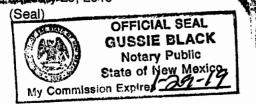
Públisher

Sworn and subscribed to before me this 17th day of April 2018.

aek

Business Manager

My commission expires



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE April 17, 2018

Delaware Energy, L.L.C., 405 N. Marienfeld St. Suite 250, Midland, TX 79701, has filed a form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to drill the Chapman SWD #1 as a Commercial Salt Water Disposal well.

The Chapman SWD #1 is located at 440' FSL and 1398' FEL, Unit Letter O, Section 10, Township 25 South, Range 36 East, Lea County, New Mexico. The well will dispose of water produced from oil and gas wells into the Devonian Formation from 13,145' to 14,145' at a maximum rate of 25,000 barrels of water per day at a maximum pressure of 2,629 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. #32716

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00210283

MIKE MCCURDY DELAWARE ENERGY 405 N. MARIENFELD, STE 250 MIDLAND, TX 79701 Chapman SWD #1 Location: Sec. 10, T-25S, R-36E, UL O

Estimated Pre-Drill Formation Tops

Rustler	1,300'
Top of Salt	1,145'
Base Salt	5,645'
Delaware	5,645'
Bone Springs Lime	7,395'
Wolfcamp	9,645'
Barnett	11,645'
Mississippian	12,145'
Woodford	12,645'
Devonian	13,145'

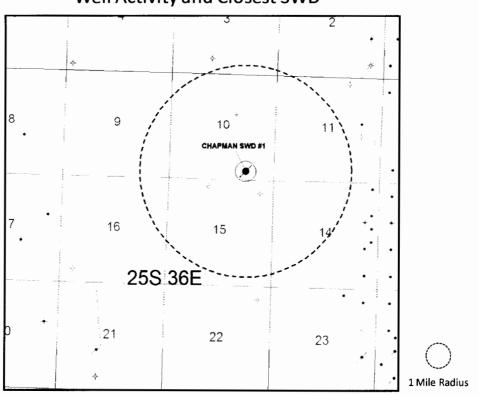
Statement Regarding Seismicity and Well Location (Chapman SWD #1)

Historically, the area near the proposed Chapman SWD has not seen any major seismic activity. There have been four seismic events (as per public data available on the USGS database) in the area. All events are over 13 miles from the proposed SWD location. The closest activity (13.9 miles to the SE) was located on the Central Basin Platform and measured 2.6 in May 2017.

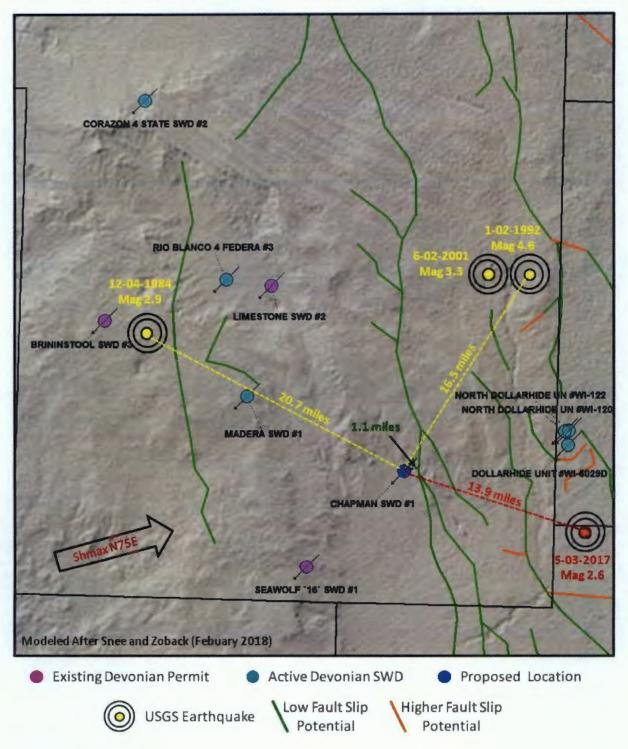
Delaware Energy does not own 2D or 3D seismic data near the proposed SWD location therefore the fault interpretations are based on data obtained from the USGS New Mexico Faults Database dated January 1, 2005. Based on these sources the closest fault activity is approximately 1.1 miles east of the location in a series of down-to-the-basin faults setting up the western edge of Central Basin Platform. A recent technical paper written by Snee and Zoback, "State of Stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity", was published in the February 2018 edition of The Leading Edge. The study evaluates the strike-slip probability of known faults using FSP analysis. The study predicts that the fault activity nearest this well should have a low probability (<10%) of being critically stressed resulting in an induced seismicity event. This is due to the relationship of the strike of the faults and the regional Shmax orientation (approx. N 75 deg E) in the area.

The proposed Chapman SWD #1 location is located well away from any active Devonian SWD wells (see map below) to meet current OCD and Industry recommended practices.

Kevin J. Schepel Petrophysical Advisor <u>kevin.schepel@att.net</u> 214-212-6540



Well Activity and Closest SWD



Proximity to Historic Earthquake Activity and Faults

Data and Interpretation Disclosure - Although care has been taken to ensure that these data are up to date and accurate, this information and data is being providing as Is. The data are what is believed to be the best public data available based on published documents, reports, and information available through the USGS. The user assumes all responsibility and risk for use of the data and interpretations. Users of the data agree not to misuse, add to without permission, or misrepresent the data provided in any way. In no event will the provider of this document be liable to any party for any direct, indirect, incidental, consequential, special or exemplary damages, or lost profit resulting from any use or misuse of this data. Additionally, provider is not liable for any inaccurate data. No person, entity, or user shall use the information in a manner that is in violation of any federal, state, or local law or regulation.

01388

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OF THE FOLLOWING INFORMATION FROM THIS INSTRUMENT BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

MEMORANDUM OF SALT WATER DISPOSAL AGREEMENT

§ § §

THE STATE OF NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF LEA

This Memorandum of Salt Water Disposal Agreement is made and entered into as of the Ale day of October, 2016, between Johnny Chapman, whose address is Box 875, Jal, NM 88252 ("Lessor"), and DELAWARE ENERGY, LLC, whose address is 3001 W. Loop 250 North, Suite C-105-318, Midland, Texas 79705 ("Lessee"):

WITNESSETH:

Lessor and Lessee have this day entered into a Salt Water Disposal Agreement, dated effective as of the date first-written above, covering the following described lands in Lea County, New Mexico, towit:

> Section 10, Township 25 South, Range 36 East, Section 15, Township 25 South, Range 36 East, Section 9, Township 26 South, Range 37 East, Section 16, Township 26 South, Range 37 East,

Said Salt Water Disposal Agreement, subject to certain termination provisions, contains a primary term of five (5) years and shall remain in force as long thereafter, subject to the further conditions and limitations stated in the terms and provisions of said Salt Water Disposal Agreement.

Lessor and Lessee are executing this Memorandum of Salt Water Disposal Agreement for the purpose of placing the same of record in Lea County, New Mexico, and in order to constitute constructive notice of said Salt Water Disposal Agreement in lieu of recording of said Salt Water Disposal Agreement in its entirety. A full and complete copy of said Salt Water Disposal Agreement 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 Agreement is executed as of the day, month and year first hereinabove written.

LESSORS:

Johnny Chapman

ACKNOWLEDGMENT

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STATE OF NEW MEXICO COUNTY OF Least definition definitation definition definitation definition definition de

This instrument was acknowledged before me on the <u>27tb</u> of <u>October</u>, 2016 by Johnny Chapman.

State of New Mexico

RECORDER'S MEMORANDUM Acknowledgment Incomplete

AFTER RECORDING, RETURN TO:

DELAWARE ENERGY, LLC 3001 W. Loop 250 North, Suite C-105-318 Midland, Texas 79705

> STATE OF NEW MEXICO COUNTY OF LEA FILED AL 10:30 o'doox A

> > FEB 06 2017

Recorded in Book 2081 Page 40.5

Keith Manes, Lea County Cierk By ______ Deputy



2 BOOK 2081 PAGE 406

01388

Delaware Energy, LLC

Application for Injection/SWD

Chapman SWD #1

UL O, Sec. 10, T-25-S, R-36-E, 440' FSL & 1,398' FEL, Lea Co., NM

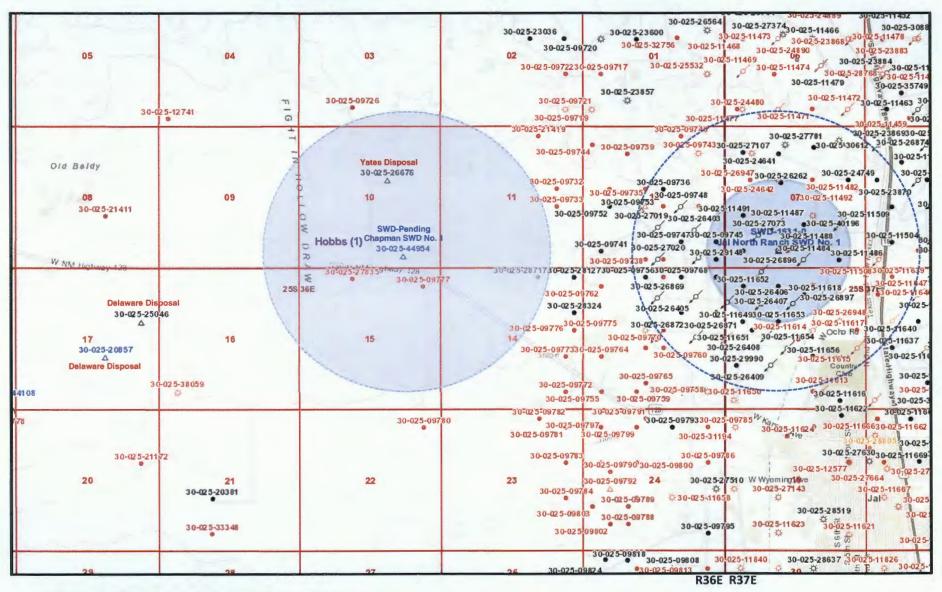
April 20, 2018

Contents:

- 1. Administrative Application Checklist
- 2. Form C-108: Application for Authority to Inject
- 3. Form C-108 Additional Questions Answered
- 4. Form C-102
- 5. Chemical Analysis of Devonian Formation Water Sample
- 6. Chemical Analysis of Bone Spring Formation Water Sample
- 7. Chemical Analysis of Delaware Formation Water Sample
- 8. Planned wellbore diagram for the Chapman 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. Water Well Samples taken for the Chapman SWD #1 FW well (Sec. 10, T25S, R36E) $Q \sim 10^{10}$
- 11. Map Identifying all Wells and Leases within Two Miles of Any Proposed Injection Well with a One Mile Radius Circle Drawn Around the 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. Legal Notice that was run as required in the Hobbs News-Sun
- 14. Formation Tops
- 15. Statement regarding seismicity
- 16. Memorandum of Salt Water Disposal Agreement

FORM C-108	8 Technical F	Review Summary	[Prepared b	y reviewer and include	d with application; V16,2]
DATE RECORD: F	irst Rec: 04/25/18	Admin Complete: 04/2	or Sus	spended:	Add. Request/Reply:
ORDER TYPE: WF		umber: <u>1745</u> Order	Date: 09 /1	Legacy Permits	s/Orders:
Well No Well Name(s):	Chapmon	SWD			
API : 30-0 25 - 44 954	N N		lew or Old (EPA): New (UIC CI	ass II Primacy 03/07/1982)
Footages 440' FSL/ i398'					
General Location: ~3.1 mi NW o	Jal	01 01111 000	SWN: De		Pool No . 9/4/0)
BLM 100K Map:					
COMPLIANCE RULE 5.9: Total Wells					
WELL FILE REVIEWED Current		Λ			Just
WELL DIAGRAMS: NEW: Proposed	or RE-ENTER:	Before Conv. After Co	onv. 🔿 🛛 Le	ogs in Imaging:	
Planned Rehab Work to Well:	-	-	•		
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Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)		Cement Sx or Cf	Cement Top and Determination Method
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Planned_or Existing _ Prod/Liner					
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Confining Unit: (titho) Struc. (Por)	Q contact	woodford shale	12645		or NEW Perfs
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Proposed Inj Interval BOTTOM:	14145			Proposed Packer De	
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			A salt/Sal		
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NMOSE Basin: Capiton CAP	Sunta Rozel	<u>Cyn</u> Cwiax Depin <u>Joccap</u>		AFFIRM STATEMEN	TW Analy Nos (P-18)
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HC Potential: Producing Interval?			1		
AOR Wells: 1/2-M Radius Map ar			•	AOR Horizontals: $\underline{\Psi}$	$\sum \text{ AOR SWDs: } (0)$
Penetrating Wells: No. Active Well	s Num Repairs	s?on which well(s)?			Diagrams?
Penetrating Wells: No. P&A Wells	Num Repairs?	on which well(s)?	-		Diagrams?
		Owner_J. Chopman			
Exponded 1- Mile AOK RULE 26.7(A): Identified Tracts?	4ffected Per	rsons: EOG Exxon	Mobil/01	kil Prop/Kaw/Ma	mah N. Date 4 12/18
	1			N 9	t control; Devonian only
Additonal COAs: New well des	sign; CBL on	liner. 200/stando	rd Cmt	notification; P	icks/formation BH pres,

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



Chapman SWD No. 1; Delaware Energy LLC

API 30-025-44954 Application No. pMAM1811555453; Rcvd 04.25.2018

Proposed interval: 13,145' to 14,145'

Proposed construction: processing application with current design; modification of casing design necessary for Salt/Capitan interval.

Closet Devonian Wells with Large-Volume Potential: Jal North Ranch SWD No. 3 (30-025-27085) deepened to Devonian; approved current tubing is 4.5-in; <1800 BWPD in June 2018.

Goetze, Phillip, EMNRD

From:Goetze, Phillip, EMNRDSent:Monday, July 9, 2018 1:32 PMTo:Kautz, Paul, EMNRDSubject:RE: Delaware Energy LLC, Chapman SWD # 1

Agreed. I just don't want the salt section to be poorly cemented as result of pushing a single casing string over this interval and have this come back to haunt the next state employee who inherits this project. Thanks. PRG

Phillip Goetze, PG Engineering Bureau, Oil Conservation Division, NM EMNRD 1220 South St. Francis Drive, Santa Fe, NM 87505 Direct: 505.476.3466 E-mail: phillip.goetze@state.nm.us

From: Kautz, Paul, EMNRD Sent: Monday, July 9, 2018 1:27 PM To: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us> Subject: RE: Delaware Energy LLC, Chapman SWD # 1

That's OK with me as long as the 3rd sting is set into the top of the Wolfcamp.

Paul

From: Goetze, Phillip, EMNRD Sent: Monday, July 9, 2018 1:18 PM To: Kautz, Paul, EMNRD <<u>paul.kautz@state.nm.us</u>> Cc: McMillan, Michael, EMNRD <<u>Michael.McMillan@state.nm.us</u>> Subject: RE: Delaware Energy LLC, Chapman SWD # 1

Paul:

Wanted to touch base on you on this well design. Seems that Delaware is planning to run a single string (9 5/8-inch) through the Salado and the Capitan before landing the shoe in Wolfcamp. I don't really like such a long section through so much different geology in an area with no subsurface control. I am going to request a third casing to isolate the salt section from the deeper section including the Capitan. Comments? PRG

Phillip Goetze, PG Engineering Bureau, Oil Conservation Division, NM EMNRD 1220 South St. Francis Drive, Santa Fe, NM 87505 Direct: 505.476.3466 E-mail: phillip.goetze@state.nm.us

From: Kautz, Paul, EMNRD Sent: Friday, July 6, 2018 10:40 AM To: Goetze, Phillip, EMNRD <<u>Phillip.Goetze@state.nm.us</u>> Subject: Delaware Energy LLC, Chapman SWD # 1 Hello Phillip,

I am holding the APD for the above well. However, I have assigned an API # 30-025-44954 to it so they can get a single well bond approved for it. Please let me know when their application for a SWD is approved.

Thanks

Paul Kautz Hobbs District Geologist Energy Minerals Natural Resources Dept. Oil Conservation Division 1625 N. French Dr. Hobbs, NM 88240 575-393-6161 ext. 104

Form 9-330 (Rev. 5-63)					CTA.		sī	18 .01 7 1	N DUPLI		1	Forme	pproved.	
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*(See Instructions and Spaces for Additional Data on Reverse Side)

17. **.** . .

Bi. Spit Bureau No. 42-R355.1. Approval expires 11-30-49. U. S. LAND OFFICE LAS Crusse Semial Number 066286 Form 2-280 LEAST OR PERMIT TO PROSPECT UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY LOG OF OIL OR GAS WELL 1 LOCATE WELL CORRECTLY Ralph Lowe Address Box 832 Midland, Texas Company Lessor or Tract McKee Field Mildcat State N M Location 660 ft. S. of N Line and 660 ft. E. of B Line of ME/4 Elevation 3126 The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records. Signed DaSeptember 20, 1955 Title Agent The summary on this page is for the condition of the well at above date. OIL OR GAS SANDS OR ZONES (Denote gas by G) No. 3, from to to No. 6, from to IMPORTANT WATER SANDS No. 1, from No. 3, from No. 3, from Ster Wright Threads per Make Assount Kind of shee Cust and pulled from Perforated reason per foot Inch 700-700-700-Perforated Purpose 8-5/8 24 JML 1265 ME. 1.1.14**:::** A Same MUDDING AND CEMENTING RECORD flize casing Method used Where set Number sacks of coment Mud gravity Amount of mud used 8-5/8 1265 600 -- Puine ···· -____ PLUGS AND ADAPTERS Heaving plug-Material Length ... Depth set . Size ... Adapters-Material SHOOTING RECORD Quantity Date Shell used Explosive used filze Depth shot Depth cleaned out TOOLS USED Rotary tools were used from feet to feet to feet to feet to feet Cable tools were used from feet to feet, and from feet to feet DATES, 19..... emulsion; % water; and % sediment. Gravity, °Bé. Rock pressure, lbs. per sq. in. EMPLOYEES W. G. Enight....., Driller, Driller , Driller FORMATION RECORD ____ FEOM-**TO**-TOTAL FEET FORMATION. 0 200 290 480 790 1245 1590 3228 3316 3409 3478 3605 Surface rock 200 90 200 290 480 790 1245 1590 3228 3316 3409 3478 3405 4410 Shale & sand Red Beds & sand Red Beds Red beds & sand Ach: Salt & mahy Anhy. Line Bend Line & san -----YOTAL FEET LEON 10124201 70

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FORMATION RECORD -Continued

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9550' Surface P&A Name Delief By : Rotary 24. Producting Interval(s), of this completion - Top, Botton, Name 25. Kas Directional Survey Na 84. Producting Interval(s), of this completion - Top, Botton, Name 25. Kas Directional Survey NA 27. Was Well Corded Schlumberger GR-CCL, GR-CNL, FDC No 26. Type Electric and Other Logs Run 27. Was Well Corded Schlumberger GR-CCL, GR-CNL, FDC No 26. Sing Size weight Lb./FT. 0. Casing Size weight Lb./FT. 0. Casing Size weight Lb./FT. 0. Casing Size Schlumberger GR-CCL, GR-CNL, FDC 27. Vas Well Corded ANOUNT PULLED 133/8'' 61 & 6.68 # K-55 133/8'' 36 f K-55 133/8'' 36 f K-55 139/5/8'' 36 f K-55 14. UHER RECORD 12-1/4'' (700 gsks C1 "H" w/10% DD. 2% CaCl_p.1/4/4/(5/sc							15 \$ 4 \$4 *	10.0				Alar: T		
21. Producting Interval(s), of this completion - Top, Bottom, Name 25. Was Directional Survey NA Na 26. Type Electric and Other Logs Run 27. Was Well Cored Schlumberger GR-CCL, GR-CNL, FDC No 28. CASING SIZE Weight Log./FT. DEPTH SET 13-3/8" 61 & 68# K-55 161 & 68# K-55 1644' 12-3/8" 61 & 68# K-55 13-3/8" 61 & 68# K-55 13-3/8" 16 & 68# K-55 13-3/8" 164 * 13-3/8" 16 & 68# K-55 13-1000 12-1/4" 13-3/8" 16 & 68# K-55 13-1000 12-1/4" 13-1000 12-1/4" 13-11 12-1/4" 13-1000 12-1/4" 14. 12-1/4" 15. 12-1/4" 16. 12-1/4" 17. 12-1/4" 18. 12. 19. 12. 19. 12. 19. 12. 19. 12. 19. 12. 19.	1				-	22.	Many		ompl., How	23. Inte Dril	led By 1		ls	Cable Tools
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Schlumberger GR-CCL, GR-CNL, FDC No 28. CASING RECORD (Report all strings set in well) CASING SIZE WEIGHT LB./FT. DEPTH SET HOLE SIZE CEMENTING RECORD AMOUNT PULLED 13-3/8" 61 & 68# K-55 1644' 17-1/2" (122) sxs C1 "H" w/10% DD, 2% CaCl ₂₀ ,1/4#/sx	26 Type Electric and C	ther Logs	Bun		•						······		27 W	as Well Cored
OLITIMIDDELED CASING RECORD (Report all strings set in well) CASING SIZE CASING RECORD (Report all strings set in well) CASING SIZE WEIGHT LB./FT. DEPTH SET MOLE SIZE CEMENTING RECORD AMOUNT PULLED -3/8" 61 & 66# K-55 1644' 17-1/2" (192) sys C1 "H" w/10% DD, 2% CaCl_2, 2% Defoam. Circ 70. sys to sur 9-5/8" 36# K-55 5200' 12-1/4" (100 sys C1 "H", 825 sys TLW + 10%) 9-5/8" 36# K-55 5200' 12-1/4" (100 sys C1 "H", 825 sys TLW + 10%) 9-5/8" 36# K-55 5200' 12-1/4" (100 sys C1 "H", 825 sys TLW + 10%) 28. LINER RECORD 30. TUBING RECORD 512E TOP BOTTOM SACKS CEMENT SCREEN SIZE PACKEN SET 5-1/2" 4943' 9550' 605 sys 31. Perforation Resord (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SOUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 9394-9489 w/3000 gals 15%. NE HCl acid & Supersord (Interval, size and number) Ball scalers (see attachment) Date of Test Production Mothod (Flowing, gas lift,													2/. "	
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13-3/8" 61 & 68# K-55 1644' 17-1/2" (925) sxs C1 "H" w/10% DD, 2% CaCl ₂ , 1/4#/sx		WEIGH	TLB./	FT.								RECORD		
(Celloflakes, 2% Defoam Tail w/350 sxs Cl "H" w/2% CaCl2, 2% Defoam. Circ(70 sxs to sur 9-5/8" 9-5/8" 36# K-55 (DD 7 5# salt, 1/4# (1/00 sxs Cl "H", 825 sxs TLW + 10%) (DD 7 5# salt, 1/4# Celloflakes, no returns) 29. LINER RECORD 5.1/2" 4943' 9550' 605 sxs 36. TUBIN RECORD 31. Perforation Record (Interval, size and number) 32. ACED RATE NA Production Method (Florving, gas lift, pumping - Size and type pump) NA Production Method (Florving, gas lift, pumping - Size and type pump) NA											· ····		29	
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(DD 7 5# salt, 1/4# Celloflakes, no returns) 30. TUBING RECORD SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SET 5-1/2" 4943' 9550' 605 sxs 31. Perforation Record (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. NAP&A 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED NAP&A 9394-9489 w/3000 gals 15% NE HC1 acid & 6 9394-9489 scueezed w/300 sxs C1 "H" 2%LWI 9026-9180 w/2400 gals 15%. NE HC1 acid & 33. PRODUCTION ball sealers (see attachment) NA 9026-9180 w/2400 gals 15%. NE HC1 acid & MA Production Method (Flowing, gas lift, pumping - Size and type pump) Weil Status (Prod. or Shu-in) NA First Production Prod. Test Prod. or Shu-in) Prid NA NA Gas - MCF Water - Bbl. Gas - Oil Growity - API (Corr.) Hour Rate <t< td=""><td>9-5/8"</td><td></td><td></td><td><u>2 % D</u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	9-5/8"			<u>2 % D</u>										
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NAP&A (ball sealers) 9394-9489 squeezed w/300 sxs Cl "H" 2%LWI 9026-9180 w/2400 gals 15% NE HCl acid & 9036-9180 w/2400 gals 15% NE HCl acid & PRODUCTION ball sealers (see attachment) NA Production Method (Flowing, gas lift, pumping - Size and type pump) NA Production Method (Flowing, gas lift, pumping - Size and type pump) NA Production NA Production NA Production Method (Flowing, gas lift, pumping - Size and type pump) NA Production NA Production Production Method (Flowing, gas lift, pumping - Size and type pump) Weil Status (Prod. or Shut-in) Production Production Method (Flowing, gas lift, pumping - Size and type pump) Prod NA Prod Cas - Oil Ratio Production of Test Hours Tested Choke Size Prod Test Period Prod Gas - MCF Water - Bbl. Oil Gravity - API (Corr.) Hour Rate MA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA NA										ERVAL	A	MOUNT A	ND KIN	ID MATERIAL USED
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9026-9180 V/2400 gals 15% NE HCl acid & PRODUCTION ball sealers (see attachment) Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Weil Status (Prod. or Shut-in) NA PñA Date of Test Hours Tested Choke Size Prod'n. For Test Period Oll - Bbl. Gas - MCF Water - Bbl. Gas - Oil Ratio Flow Tubing Press. Casing Pressure Calculated 24- Oil - Bbl. Gas - MCF Water - Bbl. Oil Gravity - API (Corr.) Hour Rate Item Rate Item Rate Item Rate NA MA NA NA St. List of Attachments Logs furnished direct by Schlumberger Sch I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.	NA-	-P&A				•								
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Date of Test Hows Tested Choke Size Prod'n. For Test Period Oil – Bbl. Gas – MCF Water – Bbl. Gas – Oil Ratio			Froque	aon M	ernoa (r ton	ung, gas	core, pamp		- siec and typ	se pump)		wei wei	, storus	
Test Period Flow Tubing Press. Casing Pressure Calculated 24 Oil - Bbl. Gas - MCF Water - Bbl. Oil Gravity - API (Corr.) Hour Rate Hour Rate Image: Calculated 24 Oil - Bbl. Gas - MCF Water - Bbl. Oil Gravity - API (Corr.) MA NA NA NA Disposition of Gas (Sold, used for fuel, vented, etc.) Test Witnessed By NA NA NA NA NA Logs furnished direct by Schlumberger Schlumberger Schlumberger Mail Complete to the best of my knowledge and belief. Mail Mail Mail Mail Complete to the best of my knowledge and belief.		Hours To	sted	Tch	oke Size		For	011	- Bbl.	Gas - M	ICE	Water - PI		
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the m							orm is tru	е ал	d complete w	the best	of my knou	ledge and	belief.	
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SIGNED TITLE OUT DIGLARD DATE DEPENDED J, 1700	A L	<u> ill</u>	W	J. N	weller.		Sr	c. 1	Engineeri	ng Sne	cialie	t	- Sen	tember 3, 1980
	SIGNED	\rightarrow				דוו	ILE			<u> </u>		- DATE		

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and ratio-activity logs run on the well and a summary of all special tests conducted, including drift stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Bulle 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

Rustler	1305	Т.	Canyon	r	Ojo Atamo	r.	Penn. "B"
Tansill	3190'	Τ.	Strawn	r.	Kirtland-Fruitland	Т.	Penn. "C"
Tansill Dolo	3260'	T.	Atoka	Т.	Fictured Cliffs	Т.	Penn. "D"
T. Yates	3376'	T.	Miss	T.	Cliff House	Т.	Leadville
T. 7 Rivers	3627'	r.	Devonian	Τ.	Menefee	Τ.	Madison
Capitan <u>Reef</u>	3743'	T.	Silurian	т.	Point Lookout	т.	Elbert
T. Grayburg		Τ.	Montoya	r.	Mancos	Τ.	McCracken
T. San Andres		Т.	Simpson	Τ.	Gallup	T.	Ignacio Qtzte
T. Glorieta		Т.	МсКее	Bas	se Greenhorn	T.	Granite
T. Paddock		T.	Ellenburger	Т.	Dakota	T.	
					Morrison		
					Todilto		
					Entrada		
					Wingate		
					Chinle		
					Permian		
T Cisco (Bough C	.)	Т.		Т.	Penn. "A"	Т.	
			OIL OR GAS	sł	ANDS OR ZONES		
No. 1, from		• • • • • • • • •	to	No	. 4, from	•••••	
No. 2, from			.to.,	No	. 5, from	••••	
No. 3, from		•••••	.to	No	. 6, from		to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No.	i,	from	to	feet.	
No.	2,	from		fcet.	
No.	3,	from		feet.	·
		<u>_</u> .			

FORMATION RECORD (Attach additional sheets if necessary)

From	Τo	Thickness in Feet	Formation	From	То	Thickness in Feet	Formation
0	465	465	Redbed	4252	5612	1360	Dolomite
465	787	322	Anhy	5612	6971	1359	Dolomite & Sand
787	1110	323	R. B./Anhy.	6971	7368	397	Dolomite & Chert
1110	1365	255	Shale	7368	7558	190	Lime
1365	1660	295	Anhy/R.B.	7558	8199	641	Lime & Shale
1660	1934	274	Anhy	8199	8791	592	Lime
1934	2685	751	Salt	8791	9141	342	Shale/Lime
2685	3280	595	Anhy & Salt	9141	9321	180	Shale
3280	3335	55	Anhy	9321	9452	131	Lime/Shale
3335	3683	348	Anhy & Dolo	9452	9550	98	Lime
3683	3828	145	Dolo		TD		
3828	3871	43	Dolo/SD			1	
3871	4252	381	Dolo RECEIVED		P&A	8-14-	80
			SEP 519	80			
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			(state when							
	located in	Capita	(name of underg	round stres	ater B m, valley, af	Sin tesian basin, etc.	.)		-	
3.	The well 1	s located in the	SE		í	NW	¥.,	NW		¥
	of section	10	, Tos	nship	25 SO	• Range	3	6 E	, N.1	M.P.M.
	on land o	wned by	Mamie Mar	tin						
4.	Description	n of well: date	drilled1	947	driller _M	L. Theris	ac	lepth	512	feet.
			gal.			pumping lift	360			feet;
	make and	type of pump .	gal. Aeromoto: etc., of power pla	r Wind	mill		360			feet;
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00-181

Township 25 South Range 36 East of the New Mexico Principal Meridian, New Mexico

County: Lea - 025

BLM Field Office: Carlsbad

BUREAU OF LAND MANAGEMENT STATUS OF PUBLIC DOMAIN LAND AND MINERALS

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<u>MTP</u>

T255 R36E

Entire Township included in: EO Wdl NM 1 Pot Res 6 (3/11/1926) Cl of Public Lands NM 0560202 (Cl No 30-06-01)

NOTE: The Serial Numbers displayed are in the Burwar's 182000 system formet: If there as zero in the 7² parallon (from the right), the sarial number has a "prefix" sero, sample HM 021245. If there is not a zero in the "prefix" (from the right) than the serial number does not have a "prefix" sero, sample HM 021245.

> T 25 S R 36 E NMPM

0.25 0.5 1 inch = 30 chains 1:23,760

1 Mite CAVEAT STATEMENT This plat is the Bureau's Record of Trie, and should be used only as a graphic deplay of the trunchip survey data. Records hereon do nor reflect till changes which may have been affected by lateral movements of itwins to rother bodies of water. Refer to the cadastral surveys for official survey information.