DATE I	105/16 SUSPENSE ENGINEER PRG 04/14/16 TYPE SWD PAPP NO. 916/1130501
No	CONSTRUCT ABOVE THIS LINE FOR DIVISION USE ONLY
	NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505
-	ADMINISTRATIVE APPLICATION CHECKLIST
	HIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Appli	cation Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[1]	[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] TYPE OF APPLICATION - Check Those Which Apply for [A] Sub-1625 [A] Location - Spacing Unit - Simultaneous Dedication Delaware Energy LLC [A] NSL NSP SD [A] NSL SD Pardue 31 Com. No.]
• • • •	Check One Only for [B] or [C] [B] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM Devorion
	[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
	[D] Other: Specify
[2]	NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A] Working, Royalty or Overriding Royalty Interest Owners
	[B] I Offset Operators, Leaseholders or Surface Owner
	[C] Application is One Which Requires Published Legal Notice
	[D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E] For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F] 🗹 Waivers are Attached

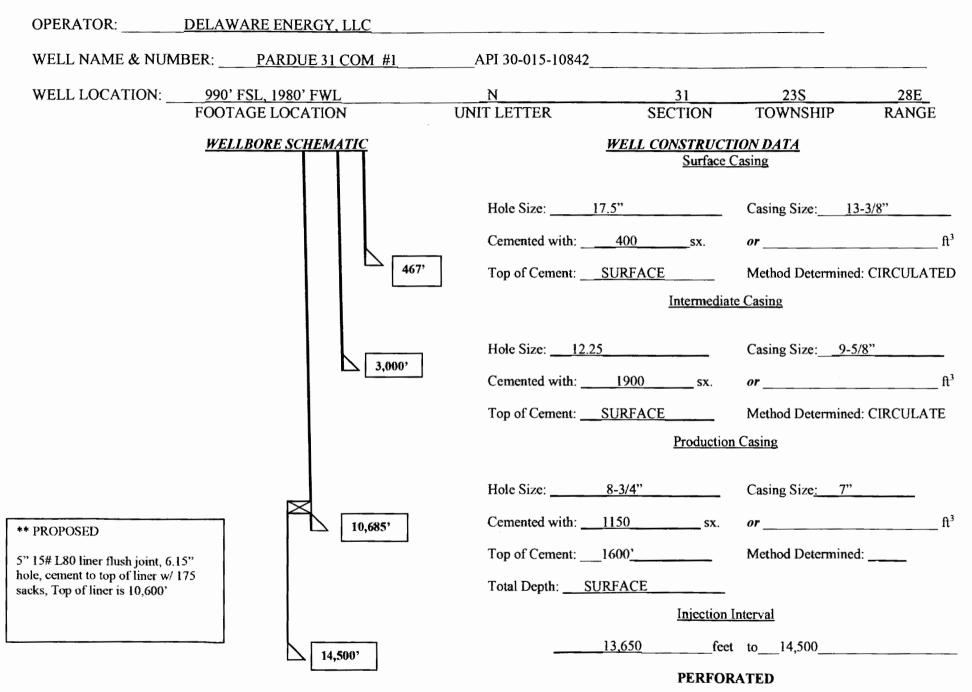
[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

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

Preston Stern	Rent	VICE - PRESIDENT	3/20/16
Print or Type Name	Signature	Title	Date
	· · · · · · · · · · · · · · · · · · ·	prestorms ogn e-mail Address	ail.com

INJECTION WELL DATA SHEET



Side 1

INJECTION WELL DATA SHEET

Τι	abing Size: 3.5", 9.3# J-55 Lining Material: Internally plastic coated
Тур	De of Packer: Weatherford Arrow Set 1X Injection Packer
Pac	ker Setting Depth: <u>50ft above top perf</u>
Oth	er Type of Tubing/Casing Seal (if applicable):NONE
	Additional Data
1.	Is this a new well drilled for injection?YesXXXNo
	If no, for what purpose was the well originally drilled? <u>MORROW GAS TEST</u>
	TD 12,770 VERTICAL WELL
2.	Name of the Injection Formation: DEVONIAN
3.	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.
	NO PERFORATIONS OR CIBP. CEMENT PLUGS: 12,551 -12,420; 10,753 – 10,622, 3,050 – 2,930; 2,795 – 2,676'; 188-69'
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	ABOVE: DELAWARE 5600', BONE SPRING 8000, WOLFCAMP 9,100 -10,970, ATOKA 11,100; MORROW 12,200 BELOW: NONE

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 xxx_Disposal Storage Application qualifies for administrative approval? xxx_Yes No					
II.	OPERATOR:DELAWARE ENERGY, LLC					
	ADDRESS: _3001 W. LOOP 250 N. SUITE C-105-318 MIDLAND TX 79705					
	CONTACT PARTY:PRESTON STEINPHONE:214-558-1371					
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?YesXXX_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:PRESTON STENTITLE:VICE-PRESIDENT					
	SIGNATURE: DATE: 3/30/2016					

* 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 5,000-8,000 BWPD, Max 15,000 BWPD
- 2. Whether the system is open or closed; Open System
- 3. Proposed average and maximum injection pressure; Average 4000-100 PSIG, Max 2,730 PSIG

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

Bone Spring, Wolfcamp, and Delaware produced water. Water is compatible; Devonian is used as disposal interval throughout the Delaware Basin for Wolfcamp and Bone Springs produced water. No incompatibility exists.

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 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 injection zone as well as any such sources known to be immediately underlying the injection interval.

The proposed disposal interval is the Devonian formation. Injection interval consists of dolomite. The top of the Devonian formation is at a depth of 13,650' TVD at the base of the Woodford Shale. There are no fresh water zones underlying the proposed injection zone. Usable water depth is from surface to the top of the Rustler at 193', the water source is older alluvium (quaternary).

IX. Describe the proposed stimulation program, if any.

20,000 gallons 15% HCL acid job with packer

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, LLC has reviewed and examined available geologic and engineering data in the area of interest for the Pardue 31 Com #1 SWD and have found no evidence of faults or other hydrologic connections between the Devonian disposal zone and the underground sources of drinking water.

Preston Stein

III. WELL DATA

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section. Pardue 31 Com #1, UL N Sec. 31-T23S-R27E, 990' FSL & 1980' FWL, 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″	467'	400	17-1/2″	Surface	Circulated
9-5/8″	3,000'	1,900	12-1/4"	Surface	Circulated
7"	10,700'	1,050	8-3/4"	1,600	
*5″	10,600-14,500	175	6.125″	10,600	circulate

*proposed

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

3-1/2" or 2-7/8" OD, Internally Plastic Coated Tubing set @ 13,600'

(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 Set within 50-100 feet above top Devonian perforations

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 Pool Name: SWD (Devonian)
- (2) The injection interval and whether it is perforated or open-hole. 13,650' to 14,500' (Perforated)
- (3) State if the well was drilled for injection or, if not, the original purpose of the well. The well was originally drilled as a vertical Morrow Test.

(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.

No perforated intervals. Cement plugs at 12,420'-12,551; 10,622'-10,753'; 2,930'-3,050', 69'-188'

(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 +/-12,200 / Next Lower: None



Martin Water Laboratories, Inc.

Analysts & Consultants since 1953 Bacterial & Chemical Analysis

TO:	Preston Stein	LABORATORY NO.	16-03-76	
ADDRESS:	3001 W. Loop 250 N. Suite C-105	5-318 Midland T SAMPLE RECEIVED:	3/4/16	
COMPANY:	Delaware Energy, LLC	RESULTS REPORTED:	3/7/16	
LEASE:	Vicky	COUNTY, STATE:	The second s	
FORMATION:		FIELD OR POOL:		
	ſ	DESCRIPTION OF SAMPLES		
No. 1	Submitted water sample - taken 02			
		· · · · · · · · · · · · · · · · · · ·		
	Physical Properties (milligrams per liter)	No. 1		
Specific Grav	<i>i</i> ity @ 60°F.	1.0055		
pH When Re	ceived	7.80		
Bicarbonate		134		
				818 1 an box 1
Total Hardne		2,150		
Calcium, as C		700		
Magnesium,		97		
Sodium and/ Sulfate, as SC	for Potassium	119 1,497		
Chloride, as S		525	-	
Iron, as Fe		16		
Barium, as Ba	3	Ō		
and the second s				
Total Dissolv	ed Solids, Calculated	3,072		
Hydrogen Su	lfide	0.00		
	hms/m @ 77°F.	2.420		
which the assessment of the second			· · · · · · · · · · · · · · · · · · ·	
A		1 1 1 10000 AND 10000		
1 - Alata II - Andre - Anna			· · · · · · · · · · · · · · · · · · ·	
			9 	
				,
	The undersigned certifies the abo	ove to be true and correct to the	best of his knowledge and	a
belief.				
			Chill.	
			Gold	
			By: Greg Ogden, B.S.	

MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company: Impact Chemical

Lab Ref #: Formation: Location:	15-apr-w68267 Bone Springs	Sample Temp: Date Sampled: Sampled by:	70 4/10/2015 Sherry Hogue
Date Run:	4/21/2015	Analyzed by:	GR

.

10

			Dissolved (Gases			
					Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfid	e (H2S)				3.40	16.00	.21
Carbon Dioxide	(CO2)				230.00	22.00	10.45
Dissolved Oxyge	en (O2)		NOT ANA	LYZED			
			Cations				
Calcium	(Ca++)		10,	886.16	20.10	541.60
Magnesium	(Mg++	•)		1,	742.16	12.20	142.80
Sodium	(Na+)			56,	575.73	23.00	2,459.81
Barium	(Ba++)	NOT ANAI	LYZED			
Manganese	(Mn+)				1.53	27.50	.06
Strontium	(Sr++))	NOT ANAI	YZED			
			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3=)			.00	30.00	.00
BiCarbonate	(HCO3	-)			146.64	61.10	2.40
Sulfate	(SO4=)			320.00	48.80	6.56
Chloride	(CI-)			111,	021.99	35.50	3,127.38
Total Iron	(Fe)				46.91	18.60	2.52
Total Dissolved	• •			180.	974.52	10100	2.02
Total Hardness a	as CaCO3			•	358.26		
Conductivity MIC		1			09,000		
рН	5.200			Specific Gra	vity 60/60	F.	1.126
CaSO4 Solubility @ 80 F. 21.88MEq/L, CaSO4 scale is unlikely							
CaCO3 Scale Index							
70.0	704	100.0	304	130.0	.446		
80.0	604	110.0	.016	140.0	.446		
90.0	304	120.0	.016	150.0	.876		

Impact Chemical

Impact Water Analysis Analytical Report

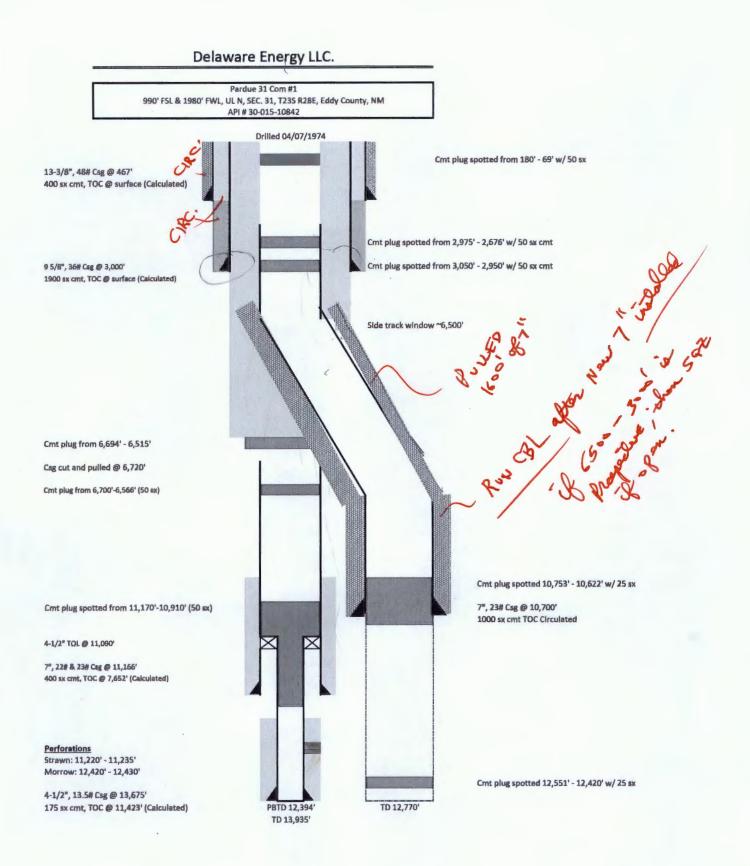


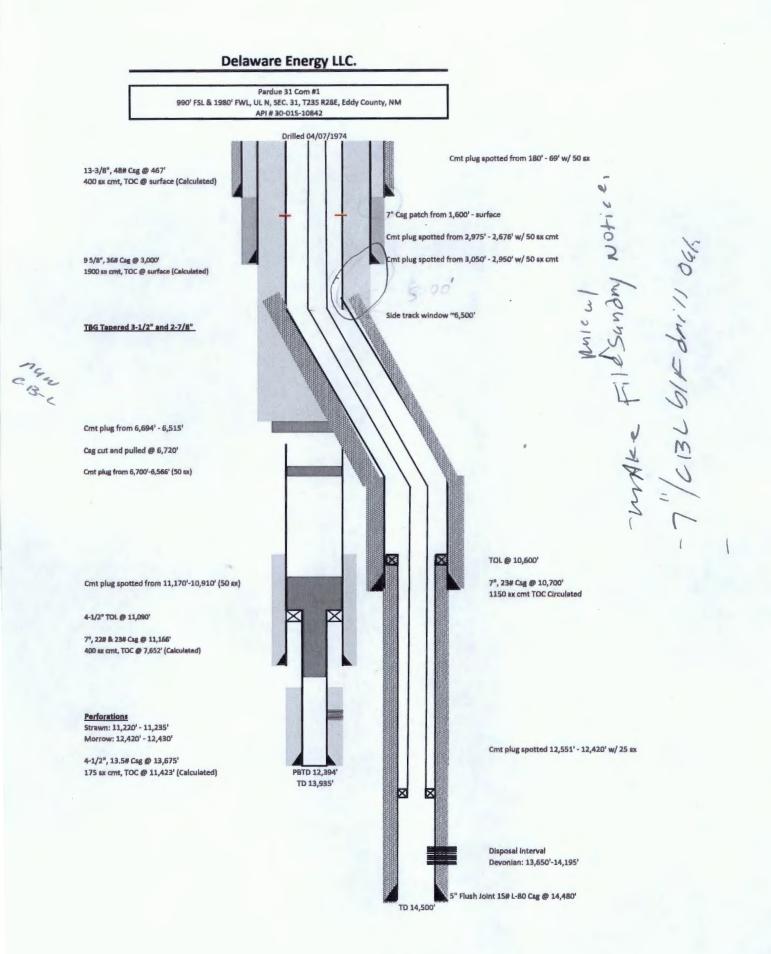
Company: Source : Number : County:	WH 43546		Location: Date Sample Account Man Foreman:	d: May 7,	2015	deral 1	
ANALYSIS		mg/L	EQ. W	т.	MEQ1	_	
	pH Specific Gravi	ty 60/60 F	5.74 1.212				-
3.	Hydrogen Sull Carbon Dioxid	ide		PPM PPM			
5. Dissolved Oxygen 6. Hydroxyl (OH)		NC 0	-	=	0.00		
	Carbonate (Cl Bicarbonate (F	• •	0 49			0.00 0.80	
	Chloride (CI) Sulfate (SO, ⁴⁴)	179,959	/ 35.6	=	5,069.27 2.87	
11.	Calcium (Ca*2		28,720	/ 20.1	2	1,428.86	
13.	Magnesium (N Sodium (Na*)	//g*)	4,529 75,276			371.23 3,272.85	
15. 16.	Barium (Ba ^{*2}) Total Iron (Fe) Manganese Strontium)	1.75 18.61 9.55 1.105.00				
18.	Total Dissolve	d Solids	289,608				
19.	Resistivity @ 7	75 °F (calculated)	0.027	1 2- m			
20.	CaCO ₃ Satural	tion Index					
	ወ 80 °F ወ 100 °F ወ 120 °F	-0.9490 -0.6390	1			AL COMPOS	
	ው 140 °F ው 160 °F	-0.3790 -0.0190 0,3310		EQ, WT. 81.04	<u>x</u>	MEQ/L 0.60	<u>= mg/L</u>
21	CaSO, Suner	iaturation Ratio	CaSO ₄ CaCi ₂	68.07 56.50		2.67 1.425.19	19: 79.09:
4١,	@ 70 °F	0.4092		73.17		0.00	79,08 (
	ወ 90 °F ወ 110 °F	0,5418 0,3990		60.19 47.62		0.00 371.23	(17,678
	@ 130 °F	0.3896	• •	84.00		0.00	17,07
	@ 150 "F	0.3893	NaSO. NaCi	71.03 58.46		0.00 3,272.85	(191,33
		Analyst	Tamara Davault	Date	• • •	May 8,	2015

Impact Water Analysis Analytical Report



Company: Source : Number : County:	Wellhead 45813		Location; Date Sampleo Account Mana Foreman;		July 15, David G				
-	ANALYSIS	ANALYSIS			EQ. WT		MEQ/L	-	
1.	рH		6.70						
	Specific Gravity 6	0/60 F	1.067						
	Hydrogen Sulfide			PPM					
	Carbon Dioxide Dissolved Oxygen		120.0 ND						
	Hydroxyl (OH)		0	· /	17.0	=	0.00		
	Carbonate (CO)-4		0	ł	30.0	=	0.00		
	Bicarbonate (HCC		244	ł	61.1	=	3.99		
	Chioride (Ci [*])		67,987	1	35.5	8	1.633.44		
	Sulfate (SO, 2)		064	ł	48.8	=	13,61		
11	Calcium (Ca*2)		2,792	1	20.1	=	138.91		
12	Magnesium (Mg*2	}	389	1	12.2	=	31,92		
	Sodium (Na*)	,	34,045	1	23.0	2	1,480.21		
14	Barium (Ba ^{*2})		2.71						
15	Total Iron (Fe)		7.92						
	Manganese		0.51						
17	Strontium		594.40						
18	. Total Dissolved S	olids	96,727						
19	Resistivity @ 75 *	F (calculated)	0.082	D-m					
20	CaCO, Saturation	Index							
	😰 80 °F	-0.3041							
	@ 100 °F	0.0059		PROB	ABLEN	IINER.	AL COMPOSI	TION	
	🔮 120 °F	0.2059	COMPOUND	EQ.	WT.	X	MEQAL	= mg/L	
	@ 140 °F	0.6259							
	@ 100 °F	0.9759	Ca(HCO ₃) ₂		81.04		3,99		323
			CaSO4		68.07		13,61		926
21	CaSO ₄ Supersatu	ration Ratio	CaCl ₂		55.50		121.31		6,733
	😨 70 °F	0.2391	Mg(HCO _p) ₂		73.17		0.00		C
	😨 90 °F	0.2384	MgSO4		60,19		0.00		C
	@ 110 °F	0.2406	MgCl ₂		47.62		31,92		1.520
	@ 130 °F	0.2438	NaHCO,		84.00		0.00		(
	@ 150 °F	0.2469	NaSO		71.03		0.00		- 0
	-	U L TVO	NaCl		58.46		1,480.21		86,533
	An	alyst: Syn	ria Garcia		Date:		July 17,	2015	

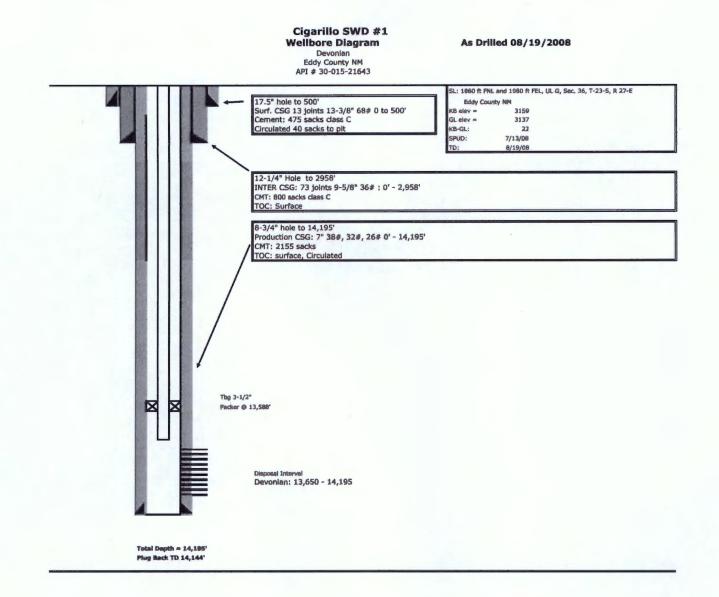


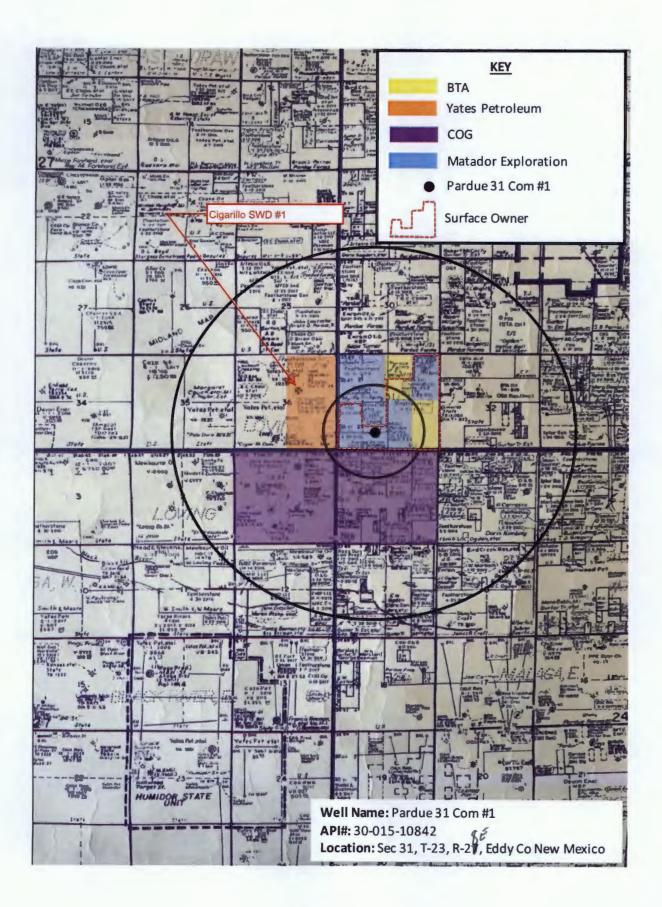


WELLS INSIDE AREA REVIEW OF Pardue 31 Com #1

** no wells exist inside 1/2 mile radius, one well inside 2 mile radius penetrates the Devonian Formation

Well	Туре	Date drill	Location	Depth	Completion	Status	
Cigarillo SWD #1	Vertical SWD	7/13/2008	T-23-5, R-27-E, Sec 36 1980' FNL, 1980' FEL ULG, Eddy Co. NM		Devonian 13,650-14,130'	Active SWD see diagram	Yates Petroleum





DELAWARE ENERGY, L.L.C.

March 30, 2016

Surface Owner / Offset Operators

Re: Notification of Application for Authorization to Inject Pardue 31 Com #1 SWD Well

Ladies and Gentlemen:

Delaware Energy, LLC is seeking administrative approval to utilize the Pardue 31 Com #1 (API – 30-015-10842) 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.

Well:	Pardue 31 Com #1
Proposed Disposal Zone:	Devonian Formation (from 13,650'- 14,500')
Location:	990' FSL & 1980' FWL, Sec. 31, T23S, R20E, Eddy Co., NM
Applicants Name:	Delaware Energy, LLC
Applicants Address:	3001 W. Loop 250 N.
	Suite C-105-318
	Midland, TX 79705

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. Delaware Energy can be reached at 214-558-1371

Sincerely,

Preston Stein

DISTRIBUTION LIST

Surface Owner Sec 31, T-23, R-28

Vickie Connally 211 R Ash Rd Loving, NM 88256

Sec 36, T-23, R-27

Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210

Sec 1, T-24, R-27 / Sec 6, T-24, R-28

COG Operating LLC 600 W. Illinois Ave. Midland, TX 79701

Sec 31, T-23, R-28

Matador Resources 5400 Lyndon B Johnson Fwy #1500 Dallas, TX 75240

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Sec 31, T-23, R-28

BTA Oil Producers, LLC 104 S. Pecos St Midland, TX 79701

Pardue 31 Com #1

Formation Tops

Rustler	375
Base Salt, T/ Lamar lime	2,300'
Delaware Mountain Group / Bell Canyon	2,350'
Bone Spring Lime	5 ,90 0'
Wolfcamp	9,200'
Atoka	11,400'
Morrow	11,900
Mississippi	13,225
Woodford Shale	13,550
Devonian	13,650

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DISTRIBUTION Revined 1-1-65 SANTA FE /- FILE /- U.S.G.S. 2 LAND OFFICE - OPERATOR - (GTAU). G.M. MARCH Sate 0. TVPE OF VELL - 0. TVPE OF VELL - 0. TVPE OF COMPLETION Sate 0. TVPE OF VELL - 0. TVPE OF COMPLETION Sate 10. TVPE OF OF COMPLETION Sate 11. TVPE OF OF COMPLETION Sate 12. Totor Decemple Sate 13. Address of Operator Sate 14. Location of Well Sate UNIT LETTER No 1	Fee X
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35. List of Attachments Copy of Elect. Log & copies of DST #1 & #2 36. Thereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.				1			1				
35. List of Attachments Copy of Elect. Log & copies of DST #1 & #2 36. Thereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.	AL DISCOUTE (D	Sold made for t								Du	
Copy of Elect. Log & copies of DST #1 & #2 36. Thereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.	34. Disposition of Gas (Sola, usea for ji	iei, ventea, etc./					Tes	t Witnessed	Ву	
Copy of Elect. Log & copies of DST #1 & #2 36. Thereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.											
36. Thereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.	35. List of Attachments										
36. Thereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.	Copy of El	ect. Log	& copies	of DST	· #1	& #2					
SIGNED KK FRAZIER R. R. Frazier Petroleum Engineer DATE 9/11/74							te to the best o	f my knowled	ge and beli	ef.	
SIGNED TITLE DATE DATE	211	Francis	R. R. Fra	azier	Pe	troleu	m Engine	eer	c	9/11/74	
	SIGNED	1000			.E				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 radio-activity logs run on the well and a summary of all special texts conducted, including drill 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 Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

	Anhy			T.	Ojo Alamo	T.	Penn. ''B''
т.	Salt	Т.	Strawn <u>11,208</u>	Τ.	Kirtland-Fruitland	Т.	Penn. "C"
D	s., Ц	т	Atoka 11,590	Т.	Pictured Cliffs	Т.	Penn. ''D''
Т.	YatesH	т. Х	<u>xxx 12,270</u>	Τ.	Cliff House	Т.	Leadville
т.	7 Rivers	T.	Devonian	Т.	Menefee	Т.	Medison
т.	Queen	Т.	Silurian	т.	Point Lookout	т.	Elbert
Т.	GrayburgQ	Т.	Montoya	Τ.	Mancos	Т.	McCracken
т.	San Andres	Τ.	Simpson	T.	Gallup	Т.	Ignacio Qtzte
т.	Glorieta ZH	т.	МсКее	Bas	e Greenhom	Т.	Granite
	Paddock 10	Т.	Ellenburger	т.	Dakota	Т.	
т.	Blinebry	т.	Gr. Wash	Т.	Monison	т.	
		Т.	Granite	Т.	Todilto	Т.	
т.		Т.	Delaware Sand	Т.	Entrada	т.	
т.	Abo	Т.	Bone Springs	Т.	Wingate	Т.	
					Chinle		
т.	Penn2 H	Τ.		Τ.	Permian	Т.	
т	Cisco (Bough C)	т		т	Penn ('A''	т	

FORMATION RECORD (Attach additional sheets if necessary)

From	То	Thickness in Feet	Formation	From	То	Thickness in Feet	Formation
11208 11590	8910 11208 11590 12270 12770	2898 2298 382 680 500	Bone Springs Wolfcamp Strawn Atoka Morrow				
							RECEIVED
							SEP 1 8 1974

	+			
NO. OF COPIES RECEIVED			RECEIVED	Form C-103
DISTRIBUTION			REDEI 4 G D	Supersedes Old C-102 and C-103
SANTA FE	i		NEW MEXICO OIL CONSERVATION COMMISSION	Effective 1-1-65
FILE	1	-	APR 1 1 1974	
U.S.G.S.				5a. Indicate Type of Lease
LAND OFFICE	Τ		- - -	State Fee gr
OPERATOR	12	1	0. C. C.	5. State Oil & Gas Lease No.
			ARTESIA, OFFICE	
(DO NOT USE THIS FO USE	SL	INDR	Y NOTICES AND REPORTS ON WELLS posals to drill or to deepen of plug back to a different reservoir, ion for fermit _" (form C-101) for such proposals.)	
1.	_	_		7. Unit Agreement Name
OIL GAS	. L	K.	OTHER- Re-enter	-
2. Name of Operator				8, Farm or Lease Name
HNG Oil	Cor	npar	ay L	Pardue 31 Comm
3. Address of Operator		-	· · · · · · · · · · · · · · · · · · ·	9, Well No.
P. O. BO	x	767	, Midland, Texas 79701	1
4. Location of Well				10, Field and Pool, or Wildcat
N		9	990 FEET FROM THE SOUTH LINE AND 1980 FEET FROM	Wildcat
UNIT LETTER		•	FEET FROM THE CINE AND FEET FROM	
west			DN 31TOWNSHIP 235 RANGE 28E NMPM.	
THE	LINE,	SECTIC	NA TOWNSHIP NAME NAME	
	\overline{m}	111	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
	Ŵ	////	3095.2 GR	Eady AMMINI
16.	<u>Ch</u>	لالم	Appropriate Box To Indicate Nature of Notice, Report or Otl	
NOT			· · · · ·	
NOT	CEC		ITENTION TO: SUBSEQUENT	REPORT OF:
Г	7			
PERFORM REMEDIAL WORK	4		PLUG AND ABANDON REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	4		COMMENCE PRILLING OPHS.	PLUS AND ABANDONMENT
PULL OR ALTER CASING			CHANGE PLANS CASING TEST AND CEMENT JQB	
			OTHER	
OTHER				
17. Describe Proposed or Co work) SEE RULE 1103.	omple	ted Op	erations (Clearly state all pertinent details, and give pertinent dates, including	estimated date of starting any proposed
4-7-74 - Pulla	d a	nnr	cox. 1600' of 7" casing.	
	~ ~			

1) 12,551 to 12,420 25 sks Class H cement
 10,753 to 10,622 25 sks Class H cement
 3,050 to 2,930 50 sks Class H cement
 2,795 to 2,676 50 sks Class H cement
 188 to 69' 50 sks Class H cement
 Weld plate at surface.

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

SIGNED_ RR Frazier	TITLE Petroleum Engineer	DATE 4-10-74
APPROVED BY Contermine	TITLE OIL AND GAS INSPECTOR	DATE SEP 1 8 1974

Delaware Energy, LLC

Application for Injection/SWD

Pardue 31 Com #1, API # 30-015-10842

UL N, Sec. 31, T-23-S, R-28-E, 990' FSL & 1980' FWL, Eddy Co., NM

March 30, 2016

Contents:

- 1. Administrative Application Checklist
- 2. Form C-108: Application for Authority to Inject
- 3. Form C-108 Additional Questions Answered
- 4. Chemical Analysis of Fresh Water Sample Taken on 3/3/2016 from Water Well Within One Mile of Any Injection or Disposal Well
 - a. Only One Producing Water Well Within One Mile
- 5. Chemical Analysis of Bone Springs Formation Water Sample Taken on 4/10/2015 from T24S, R28E, Eddy Co., NM
- 6. Chemical Analysis of Delaware Formation Water Sample Taken on 5/7/2015 from T24S, R28E, Eddy Co., NM
- 7. Chemical Analysis of Wolfcamp Formation Water Sample Taken on 7/15/2015 from Section 2, T24S, R27E, Eddy Co., NM
- 8. Wellbore Diagram of Pardue 31 Com #1 as Plugged
- 9. Wellbore Diagram of Pardue 31 Com #1 as Proposed
- 10. Tabular Data on All Wells of Public Record within the Area of Review which Penetrate the Proposed Injection Zone
- 11. Wellbore Diagram of Cigarillo SWD #1, API # 30-015-21643, as Drilled 8/19/2008
- 12. Map Identifying 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
- 13. 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-half Mile of the Well Location
- 14. Formation Tops
- 15. Old Regulatory Documents for Pardue 31 Com #1

Delaware Energy, LLC (37/195) 3001 W. Loop 250 North, Suite C-105-318 Midland, TX 79705 (214) 558-1371 prestonms@gmail.com March 31, 2016

105 M. - 0 P 2:55

ARTESIA DISTRICT

RECEIVED

New Mexico Oil Conservation Division 811 S. First Street Artesia, NM 88210

Dear New Mexico Oil Conservation Division:

Enclosed please find one (1) copy of Delaware Energy's Application for Salt Water Disposal Well Pardue 31 Com #1 in Eddy County, New Mexico. Enclosed herein as well is all necessary supporting documentation. One (1) original and one (1) copy were also sent to the attention of the New Mexico Oil Conservation Division's Santa Fe office. Should you have any questions or concerns, please feel free to contact me using the information found at the top of this letter. Thank you in advance for your consideration.

Sincerely,

2m. 85

Preston M. Stein Vice President Delaware Energy, LLC

Delaware Energy, LLC Application for Injection/SWD

Pardue 31 Com #1, API # 30-015-10842

UL N, Sec. 31, T-23-S, R-28-E, 990' FSL & 1980' FWL, Eddy Co., NM

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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 FORM C-108 Revised June 10, 2003

	APPLICATION FOR AUTHORIZATION TO INJECT
I.	PURPOSE: Secondary Recovery Pressure Maintenance xxx_Disposal Storage Application qualifies for administrative approval? xxx_Yes No
II.	OPERATOR:DELAWARE ENERGY, LLC
	ADDRESS: _3001 W. LOOP 250 N. SUITE C-105-318 MIDLAND TX 79705
	CONTACT PARTY:PRESTON STEINPHONE:214-558-1371
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?YesXXX_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:PRESTON STEINTITLE:VICE-PRESIDENT
	SIGNATURE: DATE: 3/30/2016

E-MAIL ADDRESS: ____PRESTONMS@GMAIL.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:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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 2

Side 1	INJECT	ION WELL DATA SHEET	•		
OPERATOR:	DELAWARE ENERGY, LLC		an a		
WELL NAME & NUMI	BER:PARDUE 31 COM #1	API 30-015-10842			
WELL LOCATION:	990' FSL, 1980' FWL FOOTAGE LOCATION	N UNIT LETTER	31 SECTION	23S TOWNSHIP	28E RANGE
	WELLBORE SCHEMATIC		E <u>LL CONSTRUCTA</u> Surface C	ION DATA	
		Hole Size:17.5"		Casing Size: <u>13</u>	-3/8"
		Cemented with:4	<u>00</u> sx.	07	ft ³
	467'	Top of Cement:	RFACE	Method Determined	: CIRCULATED
			Intermediate	e Casing	
		Hole Size:12.25		Casing Size:9-5.	/8"
	3,000'	Cemented with:1	<u>900</u> sx.	or	ft ³
		Top of Cement:SU	RFACE	Method Determined	I: CIRCULATE
			Production	Casing	
		Hole Size:8-;	3/4"	Casing Size <u>: 7"</u>	
** PROPOSED	10,685'	Cemented with:115	<u>0</u> sx.	or	ft ³
5" 15# 1.80 liner flush joint, 6.1	5"	Top of Cement:160	0'	Method Determined	l:
hole, cement to top of liner w/ 1 sacks, Top of liner is 10,600'		Total Depth: <u>SURF</u> .	ACE		
Suens, 10p of hills 10,000			Injection I	interval	
	14,500'	13,	<u>650</u> feet	to14,500	
			PERFOR	ATED	

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INJECTION WELL DATA SHEET

Τι	ubing Size: 3.5", 9.3# J-55 Lining Material: Internally plastic coated
Туţ	De of Packer: Weatherford Arrow Set 1X Injection Packer
Pac	ker Setting Depth:50ft above top perf
Oth	er Type of Tubing/Casing Seal (if applicable): <u>NONE</u>
	Additional Data
1.	Is this a new well drilled for injection?YesXXXNo
	If no, for what purpose was the well originally drilled? <u>MORROW GAS TEST</u>
	TD 12.770 VERTICAL WELL
2.	Name of the Injection Formation: DEVONIAN
3.	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.
	NO PERFORATIONS OR CIBP. CEMENT PLUGS: 12,551 -12,420; 10,753 – 10,622, 3,050 – 2,930; 2,795 – 2,676'; 188-69'
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	ABOVE: DELAWARE 5600', BONE SPRING 8000, WOLFCAMP 9,100 -10,970, ATOKA 11,100; MORROW 12,200

BELOW: NONE

Additional Questions on C-108

VII.

- 1. Proposed average and maximum daily rate and volume of fluids to be injected; Average 5,000-8,000 BWPD, Max 15,000 BWPD
- Whether the system is open or closed; Open System
- 3. Proposed average and maximum injection pressure; Average 4000-100 PSIG, Max 2,730 PSIG

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

Bone Spring, Wolfcamp, and Delaware produced water. Water is compatible; Devonian is used as disposal interval throughout the Delaware Basin for Wolfcamp and Bone Springs produced water. No incompatibility exists.

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 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 sollds 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.

The proposed disposal interval is the Devonian formation. Injection interval consists of dolomite. The top of the Devonian formation is at a depth of 13,650' TVD at the base of the Woodford Shale. There are no fresh water zones underlying the proposed injection zone. Usable water depth is from surface to the top of the Rustler at 193', the water source is older alluvium (guaternary).

IX. Describe the proposed stimulation program, if any.

20,000 gallons 15% HCL acid job with packer

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, LLC has reviewed and examined available geologic and engineering data in the area of interest for the Pardue 31 Com #1 SWD and have found no evidence of faults or other hydrologic connections between the Devonian disposal zone and the underground sources of drinking water.

Preston Stein

III. WELL DATA

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section. Pardue 31 Com #1, UL N Sec. 31-T23S-R27E, 990' FSL & 1980' FWL, 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"	467'	400	17-1/2″	Surface	Circulated
9-5/8"	3,000'	1,900	12-1/4"	Surface	Circulated
7″	10,700'	1,050	8-3/4″	1,600	
*5"	10,600-14,500	175	6.125"	10,600	circulate

*proposed

(3) A description of the tubing to be used including its size, lining material, and setting depth. 3-1/2" or 2-7/8" OD, Internally Plastic Coated Tubing set @ 13,600'

5-1/2 of 2-7/6 ob, internally reacte coarea rubing set @ 13,000

(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 Set within 50-100 feet above top Devonian perforations

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 Pool Name: SWD (Devonian)

- (2) The injection interval and whether it is perforated or open-hole. 13,650' to 14,500' (Perforated)
- (3) State if the well was drilled for injection or, if not, the original purpose of the well. The well was originally drilled as a vertical Morrow Test.

(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.

No perforated intervals. Cement plugs at 12,420'-12,551; 10,622'-10,753'; 2,930'-3,050', 69'-188'

(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 +/-12,200 / Next Lower: None



Martin Water Laboratories, Inc.

Analysts & Consultants since 1953 Bacterial & Chemical Analysis

TO:	Preston Stein	LABORATORY NO.	16-03-76
ADDRESS:	3001 W. Loop 250 N. Suite C-10:	5-318 Midland T SAMPLE RECEIVED	3/4/16
COMPANY:	Delaware Energy, LLC	RESULTS REPORTED	
LEASE:	Vicky	COUNTY, STATE:	
FORMATION:		FIELD OR POOL:	
FORMATION.		DESCRIPTION OF SAMPLES	
No. 1	Submitted water sample - taken 0		
			un versieren stellen in inderer er ville in der son ville stellen der soneren stellen. Der eren soneren soner in dahen er eren
			- A compare of the second sec second second sec
a an ann an Anna ann an Anna an Anna an Anna an Anna an Anna			
	Physical Properties (milligrams per liter)	No. 1	
Specific Grav	<i>r</i> ity @ 60°F.	1.0055	
pH When Re		7.80	
Bicarbonate	as HCO3	134	
and produces and the state of the			· · · · · · · · · · · · · · · · · · ·
Total Hardne	ess. as CaC03	2,150	
Calcium, as C		700	
Magnesium,		97	ar standing siller is a standard superstanding and advector of the second superstandard standard s standard standard stand standard standard stand standard standard standar standard standard stand standard standard stan standard stand
	or Potassium	119	
Sulfate, as SC		1,497	
Chloride, as (525	
Iron, as Fe		16	
Barium, as Ba		0	
1. 4	3 		
Total Dissolve	ed Solids, Calculated	3,072	
	anananana aka darena eta dardetara berretari eta artiko birterretari eta di		
an a			
Hydrogen Sul		0.00	
Resistivity, of	hms/m @ 77°F.	2.420	
ust e - normaliser fillenskeligener i redstaffet			
			· · · · · · · · · · · · · · · · · · ·
water and a statistic contraction or second to			
		anger allen ge internet en	• Provide service - Manager - And the service - Provide service
		an a	
	1	Р. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1
DEBAADKE.	The undersigned certifies the abo	we to be true and correct to t	he best of his knowledge and
	The undersigned certifies the add		
belief.			
			Lald

By: Greg Ogden, B.S.

(432) 683-4521 * 709 W. Indiana, Midland, Texas 79701 * (fax) 682-8819 Remit to Address: P.O. Box 98, Midland, Texas 79702

MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company: Impact Chemical

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Lab Ref #: Formation: Location:	15-apr-w68267 Bone Springs	Sample Temp: Date Sampled: Sampled by:	70 4/10/2015 Sherry Hogue
Date Run:	4/21/2015	Analyzed by:	GR

Dissolved Gases

			Dissolved (Gases			
					Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfid	le (H2S)				3.40	16.00	.21
Carbon Dioxide	(CO2)				230.00	22.00	10.45
Dissolved Oxyge	en (O2)		NOT ANA	LYZED			
			Cations				
Calcium	(Ca++)		10,	, 886.1 6	20.10	541.60
Magnesium	(Mg++	·)		1,	,742.16	12.20	142.80
Sodium	(Na+)			56,	,575.73	23.00	2,459.81
Barium	(Ba++)	NOT ANAI	LYZED			
Manganese	(Mn+)				1.53	27.50	.06
Strontium	(Sr+ +))	NOT ANAI	YZED			
			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3=)			.00	30.00	.00
BiCarbonate	(HCO3	-)			146.64	61.10	2.40
Sulfate	(SO4=)			320.00	48.80	6.56
Chloride	(Cl-)	-		111,	,0 21.99	35.50	3,127.38
Total Iron	(Fe)				46. 9 1	18.60	2.52
Total Dissolved	Solids			180.	974.52		
Total Hardness	as CaCO3			•	358.26		
Conductivity MI	CROMHOS/CM	I		•	09,000		
рH	5.200			Specific Gra	wity 60/60) F.	1.126
CaSO4 Solubility	@ 80 F.	21.	88MEq/L,	CaSO4 scale	is unlikely		
CaCO3 Scale Index							
70.0	704	100.0	304	130.0	.446	5	
80.0	- <i>.</i> 604	110.0	.016	140.0	.446	5	
90.0	304	120.0	.016	150.0	.876	5	

Impact Chemical

Formation: Delaware

Impact Water Analysis Analytical Report



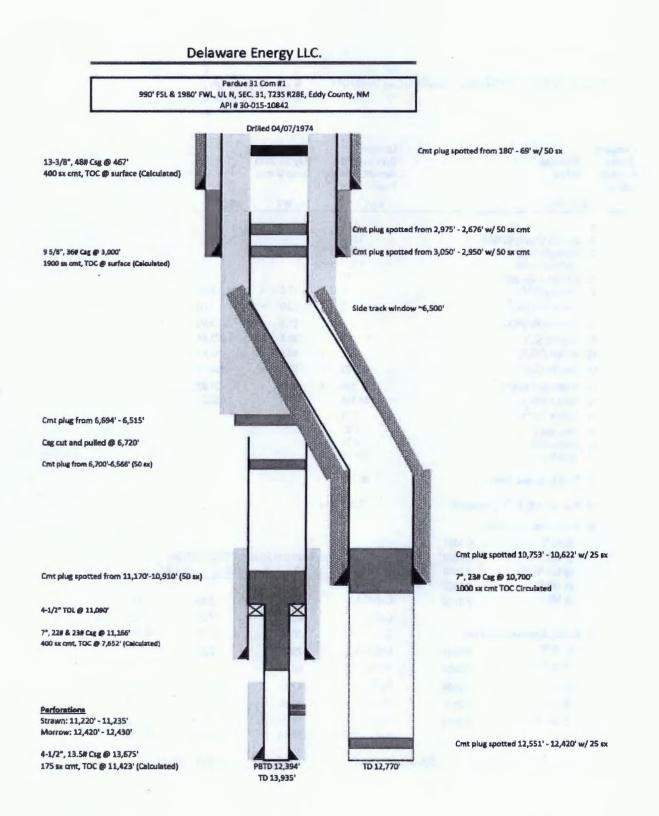
Company: Source :	WH			Location: Date Sampled		Mosaic 3 May 7, 2	D15	denni 1	
Number ; County:	43546			Account Mana Foremarc	ger.	Devid G	rcià		
	ANALYSIS			mgfL		EQ. WT.		MEQIL	_
1.	рН			5.74					-
	Specific Grav	iliy 60/6 0 F		1.212					
	Hydrogen Su				PPM				
	Carbon Diox			720.0 ND					
	Dissolved Os Hydraxyl (Ol-			0	',	17.0	e	0.00	
	Carbonate (C			0	,	30.0	-	0.00	
	Bicarbonate	• •		-					
				40		61.1	8	0.80	
	Chloride (CI)			179,959 140	1	36.6 46.8	* *	5,0 0 9 <i>.2</i> 7 2.87	
	Sulfate (SO,	-		,	1				
	Caloium (Ca			28,720	1	20.1	8	1,428.80	
	Magnesium (4,529	1	12.2	8	371.23	
	Sodium (Na			75,276	1	23.0	8	3,272.85	
	Berium (Be ^{*2}	•		1.75					
	Total Iron (Fe	2)		18.01 9.55					
	Manganese Strontium			1,105,00					
	Total Dissolv	ed Solids		289,808					
		75 °F (calculate	-	0.027	De				
	CaCO, Satur		~,	G , G , F					
24	0 80 °F		190						
	0 100 F		390					AL COMPOS	770 4
	0 120 F		1790	COMPOUND		WT.	X	MEQ/L	R mot.
	0 140 F		190				^		
	Q 100 F		310	Ca(HCO _b)		81.04		0.60	œ
	•			CaSO.		66.07		2.87	190
24	C=80 8:===	meturation Ratio		CaCL		55.50		1.425.19	79.09
21.	270°F			Mg(HCO ₂) ₂		73.17		0.00	/•,
	-		1092						
	0 90 F		18	MgSO.		60.19		0.00	l l
	Q 110 F	0.3	990	MgCl ₂		47.62		371.23	17, 67 1
	@ 130 F	0.3	896	NeHCO ₃		84.00		0.00	1
	🗿 150 °F	0.3	893	NeSO4		71.03		0.00	(
				NaCl		58.40		3 <i>,2</i> 72.65	191,33
		Analyst:	Temera	Devad		Date:		Mary 8.	2016

Formation: Wolfcamp

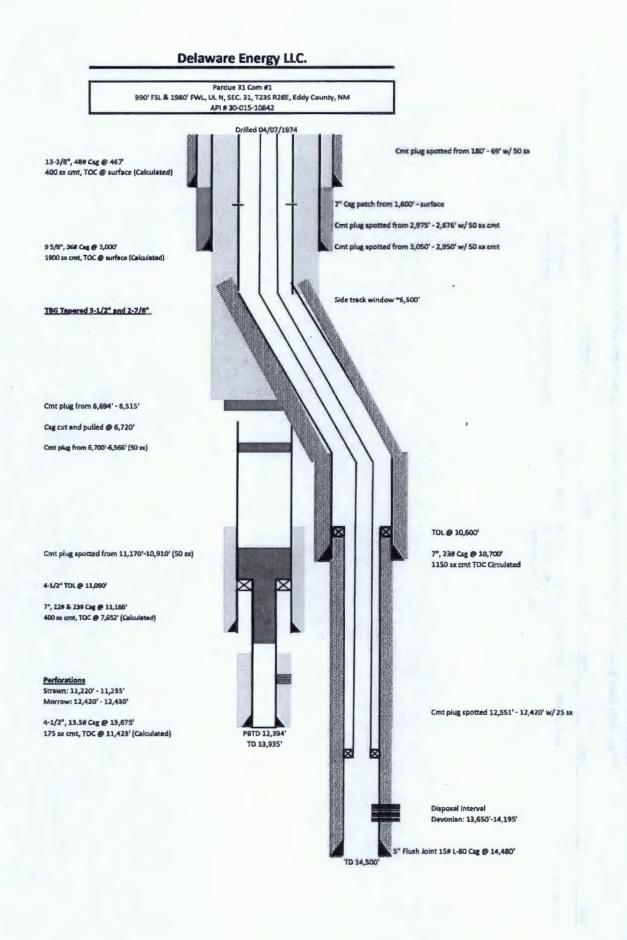
Impact Water Analysis Analytical Report



Company: Source : Number : County:	Wellhead 45613		Location: Date Sampled Account Mana Foreman:		July 15, David G			
	ANALYSIS		mg/L		EQ. WT	-	MEGAL	
1.	pH		6.70					
	Specific Grav		1.067		_			
	Hydrogen Su		10.2 120.0					
	Carbon Dioxi Dissolved Ox		120.0 ND		•			
	Hydroxyl (OH		Ũ	1	17.0	9	0.00	
	Carbonate (C		0	1	30.0		0.00	
	Bicarbonate		244	1	61.1		3.99	
	Chloride (CF)	•••	57,967	1	36.5		1,633.44	
	Sullan (SO,		604	1	48,8	8	13,61	
11	Calcium (Ca	3)	2,792	1	20.1	2	138.91	
12	Magnesium (Mg*2)	389	1	12.2		31,92	
	Sodium (Na'		34,045	1	23.0	=	1,480.21	
14.	, Barium (Ba ⁺²	•	2.71					
15.	Total Iron (Fe	2)	7.92					
	Manganese		0.51					
17.	. Strontium		594.40					
18.	. Total Dissolv	ed Solids	96,727					
19.	Resistivity @	75 °F (calculated)	0.082	D- #				
20.	CaCO ₃ Satura	ation Index						
	Q 80 °F	-0.3041						
	Q 100 °F	0.0059		PRO	BABLE M	INER	AL COMPOSITK	N
	Q 120 °F	0.2659	COMPOUND	EQ	<u>. WT.</u>	X	MEQA. =	mgi
	0 140 T	0.6259						
	Q 160 °F	0.9759	Ca(HCO _b) ₂		81.04		3,99	323
			CaSO4		68.07		13,01	920
21		rsaturation Ratio	CaCi ₂		55.50		121.31	6,733
	😧 70 ፑ	0.2391	Mg(HCO ₃) ₇		73.17		0.00	0
	0 90 F	0.2384	MgSO4		60,19		0.00	¢
	@110°F	0.2406	MgCl ₂		47.62		31.92	1,520
	👩 130 °F	0.2438	NaHCO ₃		84.00		0.00	0
	Q 150 °F	0.2469	NaSO,		71.03		0.00	
	-	92144	NaCl		58.48		1,480.21	80,533
		Analyst Sylvi	a Garcia		Date:		July 17, 20	15



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WELLS INSIDE AREA REVIEW OF Pardue 31 Com #1

** no wells exist inside 1/2 mile radius, one well inside 2 mile radius penetrates the Devonian Formation

Wel	Туре	Date drill	Location	Depth	Completion	Status	
Cigarillo SWD #1	Vertical SWD	7/13/2008	T-23-5, R-27-E, Sec 36 1980' FNL, 1980' FEL VL G, Eddy Co. NM	•	Devonian 13,650-14,130'	Active SWD see diagram	Yates Petroleum

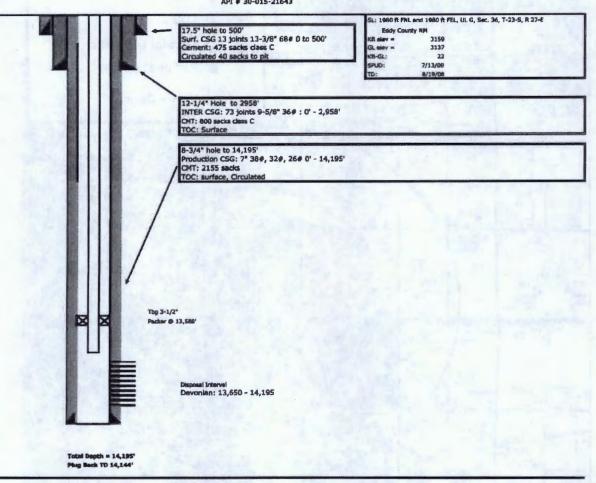
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Cigarillo SWD #1 Wellbore Diagram Devonian Eddy County NM API # 30-015-21643

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As Drilled 08/19/2008



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	A Strate The Diff Party		- Antonia	KEY
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ALL ALL ALL ALL	S.L. Corrier			Yates Petroleum
Barra B	Artum DAA Tering Per			COG
27 may Randard and	A Designed	California Provide Service		Matador Exploration
Contraction of the second	Stanger . Barrer	ATT Reading Provide Party	-Eles	Pardue 31 Com #1
·** ·	Vicini ala - Manuel Pr			i didde 51 com #1
Same President	Cigari	llo SWD #1	n n	Surface Owner
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072-05-054 072-05 75-00	WOLAND	and the state of the second	Rote Are And had	TTA CHI THE STATE
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61074	- Flats		ell Name: Pardue	
1. 1.			Pl#: 30-015-10842	3, R-27, Eddy Co New Mexico
	E- At	E.		J, N-27, LUUY CO NEW MEXILU

DELAWARE ENERGY, L.L.C.

March 30, 2016

Surface Owner / Offset Operators

Re: Notification of Application for Authorization to Inject Pardue 31 Com #1 SWD Well

Ladies and Gentlemen:

Delaware Energy, LLC is seeking administrative approval to utilize the Pardue 31 Com #1 (API – 30-015-10842) 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.

Well: Proposed Disposal Zone: Location: Applicants Name: Applicants Address: Pardue 31 Com #1 Devonian Formation (from 13,650'- 14,500') 990' FSL & 1980' FWL, Sec. 31, T23S, R2 E, Eddy Co., NM Delaware Energy, LLC 3001 W. Loop 250 N. Suite C-105-318 Midland, TX 79705

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. Delaware Energy can be reached at 214-558-1371

Sincerely,

Preston Stein

DISTRIBUTION LIST

Surface Owner Sec 31, T-23, R-28

Vickie Connally 211 R Ash Rd Loving, NM 88256

Sec 36, T-23, R-27

Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210

Sec 1, T-24, R-27 / Sec 6, T-24, R-28

COG Operating LLC 600 W. Illinois Ave. Midland, TX 79701

<u>Sec 31, T-23, R-28</u> Matador Resources 5400 Lyndon B Johnson Fwy #1500 Dallas, TX 75240

Sec 31, T-23, R-28

BTA Oil Producers, LLC 104 S. Pecos St Midland, TX 79701

Pardue 31 Com #1

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constitution and the first second constraints and shows

Formation Tops

Rustler	375
Base Salt, T/ Lamar lime	2,300'
Delaware Mountain Group / Bell Canyon	2,350′
Bone Spring Lime	5,900'
Wolfcamp	9,200'
Atoka	11 ,400'
Morrow	11,900
Mississippi	13,225
Woodford Shale	13,550
Devonian	13,650

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b. TYPE OF COMPLE			WELL	ORY				-	8. Far	morL	ease Name
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2, Name of Operator		• //		RE378. L.	J OTHER				9. Wel		
Mobil Oi	1 Corporat	ion /	•			α.	C. C.			1	
3. Address of Operator						TEE			10. Fi	eld and	Pool, or Wildcat
P. O. Bo	x 633, Mid	land, Te	xas 797	01					Γu	ildc	at
4. Location of Well		•	•						1111	Î	in an
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UNIT LETTER N	LOCATED	990	-	Sout			1980	ET FROM	VIII	1111	
						TTT.	1111111		12. 00	unty	<i></i>
THE West LINE OF	sec. 31	23-s	28	-8	. (1111)	111	IWIIII	IIII	Edd	v	
15. Date Spudded						Eleve	ations (DUR)	SKOG, RX.	GR esc.	19. E	liev. Cashinghead
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13,935	12	,394 🤇		Momy	No	••	Drilled	Byi	x		
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		*		•					• •		Made
P & A			_							· .	Yes
26. Type Electric and (Other Logs Run								1:	27. Wa	s Well Cored
Schlumberge:	r-GR-Calip	er-Micro	log & Se	onic-Com	nposite B	lesi	lstivity				Yes
28.					port all string						
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13-3/8"	48₽		467	17.	-1/2"	Cu	nt. W/40	0 sx.1	ncor 1	Neat	0
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7"	23-26#	11	,166'	8.	-3/4"	_	at.W/400				145 its.
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29.		LINER RECO	RD				30.		TUBING	RECO	RD
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4-1/2"	11,009'	13,67	5'	175							
. 1											
31. Perforation Record	(Interval, size or	d number)			32.	ACI	D, SHOT, FR	ACTURE	CEMEN	T SQU	EEZE, ETC.
12,420-12,43	30 - Morro	7			DEPTH		ERVAL	ANC	UNT AN		MATERIAL USED
11,220-11,2	35 - Straw	n			12,420	_	and the second se				NE Acid
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33.					UCTION						
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34. Disposition of Gas	(Sold, used for fu	el, vented, et	ic.)					Te	st Witness	ed By	
35, List of Attachments	1										
36. I hereby certify that	the information	chown on bot	sides of th	is form is tr	ue and comple	te to	the best of m	ny knowle	dge and b	elief.	
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Date First Production		Producti	on Method (Flor	oung, gos i	iji, pumi	nig - size at	es typ	e pamp)		wen st	_	rod, or Shut-in)
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Date of Test	Hours Te	sted	Choke Size	Prod'n. Test Pe		011 - Bbi.	1	Gota - MCI		er – Bbi.	Ga	s - Oil Rallo
Flow Tubing Press.	Casing P	ressure	Calculated 24 Hour Rate	- Oil - B	bl.	Gas - I	MCF	Wa	nter – Bbl.	1	OII Gra	vity - API (Corr.)
34. Disposition of Gas (Sold, used	for fuel.	vented, etc.)	•					Tes	t Witnesse	ed By	
35. List of Attachments						•						
Copy of Ele	ect. 1	rod 8	copies	of DS	т #1	& #2						
36. I hereby certify that	the inform	ation show	wn on both side	s of this fo	onn is tri	ie and comple	te to	the best of	my knowled	lge and be	lief.	
SIGNED KK-T	horse	R	. R. Fra	zieŗ	LE P	etroleu	m I	Engine	er	DATE	9/1	1/74
1												

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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 radio-activity logs run on the well and a summary of all special tests conducted, including drill 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 Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

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**

Northwestern New Mexico

T. Salt T. Strawn 11,208 T. Kirtland-Fruitland T. Penn. "C" B. Salt T. Atoka 11,590 T. Pictured Cliffs T. Penn. "D" T. Yates T. Atoka 12,270 T. Cliff House T. Leadville T. 7 Rivers T. Devonian T. Menefee T. Medison T. Queen O T. Silurian T. Point Lookout T. Elbert	
B. Salt Image: Salt state	
T. YatesH	
T. 7 Rivers T. Devonian T. Menefee T. Medison	
T. Grayburg T. Montoya T. Mencos T. McCracken	18-14-19-1-1-1-1
T. San Andres T. Simpson T. Gallup T. Gallup T. Ignacio Qtzte	
T. Glorieta Z H T. McKee Base Greenhorn T. Granite	
T. Paddock T. Ellenburger T. Dakota T T.	
Т. Blinebry Т. Gr. Wash Т. Монтison Т Т.	
Т. Tubb Т. Granite Т. Todilto Т Т.	
T. Drinkard T. Delaware Sand T. Entrada T.	
日日の T. Abo 7. Bone Springs T. Wing ate T T	
T. Wolfcamp 00 T T. Chinle T	
T. Penn T T T T. Permian T	
T Cisco (Bough C) T T T. Penn. "A" T	

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	T٥	Thickness in Feet	Formation
6012	8910		Bone Springs				
	11208 11590		Wolfcamp Strawn				
	12270		Atoka				
12270	12770	500	Morrow				
			•				
							RECEIVED
							SEP 1 0 tot
							SEP 1 8 1974
							D. C. C. ARTEBIA, OFFICE

1	-	
NO. OF COPIES NECEIVED		
	RECEIVED	Form C-103 Supersedes Old
	· · · · · · · · · · · · · · · · · · ·	C-102 and C-103
NEW MEATOO DIE CONSERVA		Effective 1-1-65
FILE 1	APR 1 1 1974	
U.S.G.S.		Sa. Indicate Type of Lease
LAND OFFICE	0. C. C .	State Fee ge
OPERATOR	ARTESIA, OFFICE	5, State Oil 6 Gas Lease No.
SUNDRY NOTICES AND REPORTS ON WELL (DO NOT USE THIS FORM FOR PROPOSALS TO BRILL OR TO BEEPEN OR FLUE BACK TO USE "APPLICATION FOR PERMIT	A DIFFERENT RESERVOIR.	
		7. Unit Agreement Name
WELL GAS WELL A OTHER- Re-enter		
2. Name of Operator		8. Form or Lease Name
HNG Oil Company 🗸		Pardue 31 Comm
3. Address of Operator		9, Well No.
P. O. Box 767, Midland, Texas 79701		1
4. Location of Well		10, Field and Pael, or Wildcat
UNIT LETTER N 990 FEET FROM THE SOUTH	1980	Wildcat
UNIT LETTER FEET FROM THE BOUTE	E AND 1900 FEET FROM	
west west 23S	201	
THE West LINE, SECTION 31 TOWNSHIP 235	RANGE 28E NMPM.	
15. Elevation (Show whether DF, R	T. GR. etc.)	12. County
16. Check Appropriate Box To Indicate Nature		Eddy Alllllll
TEMPORARILY ABANDON COMM	H cement H cement cement	ALTERING CASING PLUG AND ABANDONMENT contracted date of starting any proposed
18. I hereby certify that the information above is true and complete to the best of my k	nowledge and belief,	

-

SIGNED	RR Frequi	<u>R. R. F</u>	cazier TITLE	Petroleum	Engineer	DATE 4-10-74
APPROYED	Jala	Mernis	TITLE	<u>oil and gas i</u>	ISPECTOR	BATE SEP 1 8 1974

CONDITIONS OF APPROVAL, IF ANY:

PECEME OCC

Delaware Energy, LLC 3001 W. Loop 250 North, Suite C-105-318 Midland, TX 79705 (214) 558-1371 prestonms@gmail.com March 31, 2016

2016 APR -5 A 9:37

New Mexico Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

Dear New Mexico Oil Conservation Division:

Enclosed please find one (1) original and one (1) copy of Delaware Energy's Application for Salt Water Disposal Well Pardue 31 Com #1 in Eddy County, New Mexico. Enclosed herein as well is all necessary supporting documentation. Should you have any questions or concerns, please feel free to contact me using the information found at the top of this letter. Thank you in advance for your consideration.

Sincerely,

tM. St

Preston M. Stein Vice President Delaware Energy, LLC

NM OIL CONSERVATION

ARTESIA DISTRICT

APR 1 2016

Delaware Energy, LLC

RECEIVED

Application for Injection/SWD

Pardue 31 Com #1, API # 30-015-10842

UL N, Sec. 31, T-23-S, R-28-E, 990' FSL & 1980' FWL, Eddy Co., NM

March 30, 2016

Contents:

\$

- 1. Administrative Application Checklist
- 2. Form C-108: Application for Authority to Inject
- 3. Form C-108 Additional Questions Answered
- Chemical Analysis of Fresh Water Sample Taken on 3/3/2016 from Water Well Within One Mile of Any Injection or Disposal Well
 - a. Only One Producing Water Well Within One Mile
- Chemical Analysis of Bone Springs Formation Water Sample Taken on 4/10/2015 from T24S, R28E, Eddy Co., NM
- Chemical Analysis of Delaware Formation Water Sample Taken on 5/7/2015 from T24S, R28E, Eddy Co., NM
- 7. Chemical Analysis of Wolfcamp Formation Water Sample Taken on 7/15/2015 from Section 2, T24S, R27E, Eddy Co., NM
- 8. Wellbore Diagram of Pardue 31 Com #1 as Plugged
- 9. Wellbore Diagram of Pardue 31 Com #1 as Proposed
- 10. Tabular Data on All Wells of Public Record within the Area of Review which Penetrate the Proposed Injection Zone
- 11. Wellbore Diagram of Cigarillo SWD #1, API # 30-015-21643, as Drilled 8/19/2008
- 12. Map Identifying 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
- 13. 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-half Mile of the Well Location
- 14. Formation Tops
- 15. Old Regulatory Documents for Pardue 31 Com #1

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505 FORM C-108 Revised June 10, 2003

	APPLICATION FOR AUTHORIZATION TO INJECT
I.	PURPOSE: Secondary Recovery Pressure Maintenance xxx_Disposal Storage Application qualifies for administrative approval? xxx_Yes No
II.	OPERATOR:DELAWARE ENERGY, LLC
	ADDRESS: _3001 W. LOOP 250 N. SUITE C-105-318 MIDLAND TX 79705
	CONTACT PARTY:PRESTON STEINPHONE:214-558-1371
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?YesXXX_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:PRESTON STEINTITLE:VICE-PRESIDENT
	SIGNATURE: DATE: 3/30/2016
	E-MAIL ADDRESS:PRESTONMS@GMAIL.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:

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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 2

1

Side 1	INJEC	TION WELL DATA SH	IEET		
OPERATOR:DELAW	ARE ENERGY, LLC				
WELL NAME & NUMBER:	PARDUE 31 COM #1	API 30-015-10842			
WELL LOCATION:990' I	SL, 1980' FWL AGE LOCATION	N UNIT LETTER	31 SECTION	23S TOWNSHIP	28E RANGE
	BORE SCHEMATIC	onn EETTER	<u>WELL CONSTRUCT</u> Surface (ION DATA	MINUL
		Hole Size:	17.5"	Casing Size: 13	3-3/8"
		Cemented with: _	sx.	0r	ft ³
	467'	Top of Cement:	SURFACE	Method Determined	I: CIRCULATED
		-	Intermediat	e Casing	
	3,000'	Hole Size: <u>12</u>	25	Casing Size:9-5	5/8"
		Cemented with: _	<u>1900</u> sx.	or	ft ³
		Top of Cement: _	SURFACE	Method Determined	d: CIRCULATE
			Production	Casing	
		Hole Size:	8-3/4"	Casing Size: <u>7"</u>	
** PROPOSED	10,685'	Cemented with:	<u>1150</u> sx.	or	ft ³
5" 15# L80 liner flush joint, 6.15"		Top of Cement: _	1600'	Method Determine	d:
hole, cement to top of liner w/ 175 sacks, Top of liner is 10,600'		Total Depth:	SURFACE		
			Injection 1	interval	
	14,500'			to14,500	
			PERFOR	ATED	

INJECTION WELL DATA SHEET

Τι	ubing Size: 3.5", 9.3# J-55 Lining Material: Internally plastic coated
Туţ	De of Packer: Weatherford Arrow Set 1X Injection Packer
Pac	ker Setting Depth:50ft above top perf
Oth	er Type of Tubing/Casing Seal (if applicable): <u>NONE</u>
	Additional Data
1.	Is this a new well drilled for injection?YesXXXNo
	If no, for what purpose was the well originally drilled? <u>MORROW GAS TEST</u>
	TD 12.770 VERTICAL WELL
2.	Name of the Injection Formation: DEVONIAN
3.	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.
	NO PERFORATIONS OR CIBP. CEMENT PLUGS: 12,551 -12,420; 10,753 - 10,622, 3,050 - 2,930; 2,795 - 2,676'; 188-69'
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
	ABOVE: DELAWARE 5600', BONE SPRING 8000, WOLFCAMP 9,100 -10,970, ATOKA 11,100; MORROW 12,200 BELOW: NONE

Additional Questions on C-108

VII.

- 1. Proposed average and maximum daily rate and volume of fluids to be injected; Average 5,000-8,000 BWPD, Max 15,000 BWPD
- 2. Whether the system is open or closed; Open System
- 3. Proposed average and maximum injection pressure; Average 4000-100 PSIG, Max 2,730 PSIG

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

Bone Spring, Wolfcamp, and Delaware produced water. Water is compatible; Devonian is used as disposal interval throughout the Delaware Basin for Wolfcamp and Bone Springs produced water. No incompatibility exists.

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 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 injection zone as well as any such sources known to be immediately underlying the injection interval.

The proposed disposal interval is the Devonian formation. Injection interval consists of dolomite. The top of the Devonian formation is at a depth of 13,650' TVD at the base of the Woodford Shale. There are no fresh water zones underlying the proposed injection zone. Usable water depth is from surface to the top of the Rustler at 193', the water source is older alluvium (quaternary).

IX. Describe the proposed stimulation program, if any.

20,000 gallons 15% HCL acid job with packer

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, LLC has reviewed and examined available geologic and engineering data in the area of interest for the Pardue 31 Com #1 SWD and have found no evidence of faults or other hydrologic connections between the Devonian disposal zone and the underground sources of drinking water.

Preston Stein

III. WELL DATA

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section. Pardue 31 Com #1, UL N Sec. 31-T23S-R27E, 990' FSL & 1980' FWL, 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″	467'	400	17-1/2"	Surface	Circulated
9-5/8″	3,000'	1,900	12-1/4"	Surface	Circulated
7"	10,700'	1,050	8-3/4"	1,600	
*5"	10,600-14,500	175	6.125″	10,600	circulate

*proposed

(3) A description of the tubing to be used including its size, lining material, and setting depth. 3-1/2" or 2-7/8" OD, Internally Plastic Coated Tubing set @ 13,600'

(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 Set within 50-100 feet above top Devonian perforations

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 Pool Name: SWD (Devonian)

- (2) The injection interval and whether it is perforated or open-hole. 13,650' to 14,500' (Perforated)
- (3) State if the well was drilled for injection or, if not, the original purpose of the well. The well was originally drilled as a vertical Morrow Test.

(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.

No perforated intervals. Cement plugs at 12,420'-12,551; 10,622'-10,753'; 2,930'-3,050', 69'-188'

(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 +/-12,200 / Next Lower: None



Martin Water Laboratories, Inc.

Analysts & Consultants since 1953 Bacterial & Chemical Analysis

TO:	Preston Stein	LABORATORY NO	. 16-03-76
ADDRESS:	3001 W. Loop 250 N. Suite C-105	-318 Midland T SAMPLE RECEIVE	D: 3/4/16
COMPANY:	Delaware Energy, LLC	RESULTS REPORT	ED: 3/7/16
LEASE:	Vicky	COUNTY, STATE:	
FORMATION:		FIELD OR POOL:	
		ESCRIPTION OF SAMPLES	
No. 1	Submitted water sample - taken 03		
			No. doi: 10.0000/0000000000000000000000000000000
The state of the s	an Manager (1999) and And and And and And and an 		
Shared and			·····
Specific Grav	Physical Properties (milligrams per liter)	No. 1 1.0055	
specinc Grav	ίτγ @ 60 F.	1.0055	
pH When Re	ceived	7.80	
Bicarbonate		134	
a company a second to			
Total Hardne		2,150	
Calcium, as C Magnesium,		700 97	
Sodium and/		119	
Sulfate, as SO		1,497	 An expectation of an expectation of the expectation of th
Chloride, as C		525	
iron, as Fe		16	
Barium, as Ba	and a second	0	
····	2 		
Total Dissolve	ed Solids, Calculated	3,072	
TULAT DISSURVE			
an and a statement of the solution			n yano yo angan ya ka
un namen de la composition d			
Hydrogen Sul		0.00	
Resistivity, oh	ıms/m @ 77°F.	2.420	
and "anticipated) the second rest values in			
	аналанан алтан алтан Т	and the second	1 C. S. W. T. Berner, and S. M. Bankovakovakovakovakovakovakovakovakovakova
	n an	n na	ανητών το
		:	
REMARKS.	The undersigned certifies the abo	ve to be true and correct to	the best of his knowledge and
belief.			
Denei.			
			4110
			fild
			By: Greg Ogden, B.S.

MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company: Impact Chemical

Lab Ref #: Formation: Location:	15-apr-w68267 Bone Springs	Sample Temp: Date Sampled: Sampled by:	70 4/10/2015 Sherry Hogue
Date Run:	4/21/2015	Analyzed by:	GR

			Dissolved (Gases			
					Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfid	• •				3.40	16.00	.21
Carbon Dioxide	(CO2)				230.00	22.00	10.45
Dissolved Oxyge	en (O2)		NOT ANA	LYZED			
			Cations				
Calcium	(Ca++)		10,	886.16	20.10	541.60
Magnesium	(Mg++)		1,	742.16	12.20	142.80
Sodium	(Na+)			56,	575.73	23.00	2,45 9 .81
Barium	(Ba++)	NOT ANAL	YZED			
Manganese	(Mn+)				1.53	27.50	.06
Strontium	(Sr++)		NOT ANAL	YZED			
			Anions				
Hydroxyl	(OH-)				.00	17.00	.00
Carbonate	(CO3=)			.00	30.00	.00
BiCarbonate	(HCO3	-			146.64	61.10	2.40
Sulfate	(SO4=	-			320.00	48.80	6.56
Chloride	(Cl-)			111,	021 .99	35.50	3,127.38
Total Iron	(Fe)				46.91	18.60	2.52
Total Dissolved	• •			180	974.52	10.00	2.02
Total Hardness a				,	358.26		
Conductivity MI		I		•	09,000		
рH	5.200			Specific Gra	vity 60/60) F.	1.126
CaSO4 Solubility	@ 80 F.	21.	88MEq/L,	CaSO4 scale	is unlikely	,	
CaCO3 Scale Index							
70.0	704	100.0	304	130.0	.44	6	
80.0	-,604	110.0	.016	140.0	.44	6	
90.0	-,304	120.0	.016	150.0	.87	6	

Impact Chemical

Formation: Delaware

Impact Water Analysis Analytical Report



•

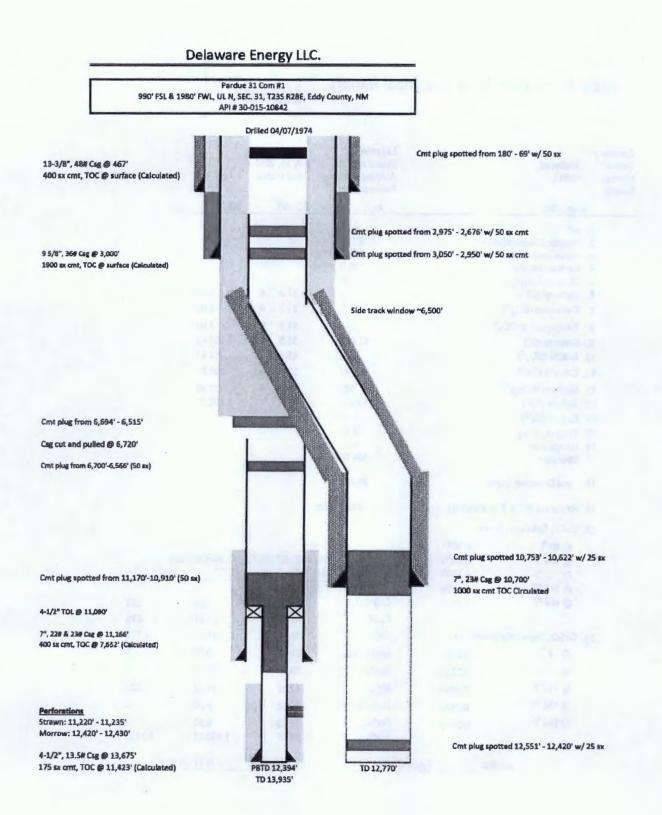
Company: Source : Number : County:	WH 43546		Location: Date Sampled Account Mana Foreman:		Moseic May 7, 2 David G	015	denai 1	
	ANALYSIS		mgL		EQ. WT	•	MEGA	
1,	рH		5.74					
	Specific Gravit		1,212	_				
	Hydrogen Sull		3.4 720.0	PPM				
	Carbon Dioxid Dissolved Oxy		ND					
	Hydranyi (OH		0	1	17.0	Ē	0.00	
	Carbonate (CC		0	1	30.0		0.00	
8.	Bicarbonate (F	100,1	40	1	61.1	a	0.80	
	Chloride (Cl)		179,959	1	36.6	*	5,009.27	
	Sulfate (SO,")		140	1	46.8	8	2.87	
11.	Calcium (Ca")	26,720	1	20.1	8	1,428.80	
12.	Magnesium (N	lo ⁻¹)	4.529	1	12.2	a	371.23	
13.	Sodium (Na")		75,270	1	23.0	8	3,272.85	
14.	Barium (Ba ^{ra})		1,75					
	Total Iran (Fe)	I Contraction of the second	18.01					
	Manganese		9.55					
17.	Strontium		1,105.00					
18.	Total Dissolve	d Solids	289,808					
19.	Resistivity @ ?	'5 °F (calculated)	0.027	D-m				
20.	CeCO ₂ Seturat	ion index						
	0 80 °F	-0,9490						
	Q 100 "F	-0,6390		PRO	BABLEN	INER	AL COMPOSE	NON
	@ 120 F	-0.3790	COMPOUND	EQ	WT.	X	MEGAL	n mgl.
	Q 140 F	-0.0190	-					_
	Q 100 °F	0.3310	Ca(HCO ₅) ₂		81.04		0.60	0
			Caso		66.07		2.87	190
21.	CaSO ₄ Supera	aturation Ratio	CaCl ₂		56.50		1,425.19	79,09
	2 70°F	0.4092	Mg(HCO ₂) ₂		73.17		0.00	1
	0 90 °F	0.5418	MgSQ.		60.19		0.00	
	🕒 110 °F	0.3990	MgCi ₂		47.62		371.23	17,67
	@ 130 *F	0,3890	NeHCO ₃		84.00		0.00	
	@ 150 °F	0.3893	NaSO,		71.03		0.00	
	-		NaCl		58.46		3,272.85	191,33
		Analyst: Tam	era Devault		Date:		May 8, 2	015

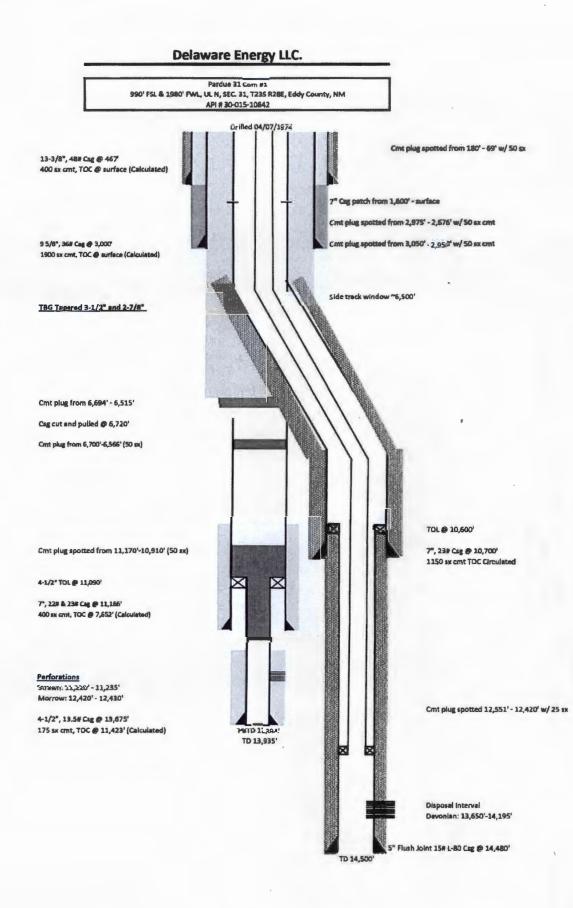
Formation: Wolfcamp

Impact Water Analysis Analytical Report



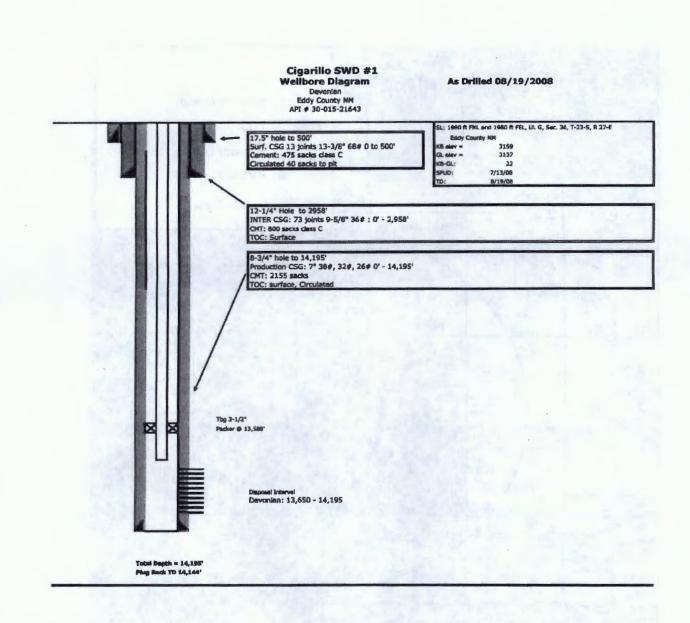
Company: Source : Number : County	Welhead 45613			Location: Date Sampler Account Mana Foreman:		July 15, David G				
	ANALYSIS			mg/L		EQ. WT		MEQ1.	-	
	pH			6.70						
	Specific Grav			1.067						
	Hydrogen Sul Carbon Disxi			10.2 120.0	PPM					
	Dissolved Ox			120.0						÷
	Hydroxyl (OH			0	1	17.0		0.00		
	Carbonate (C	· •		0	1	30.0	2	0.00		
8.	Bicarbonate (HCO,)		244	1	61.1	2	3.99		
-	Chloride (Cl)	•••		57,987	1	36.5		1.633.44		
	Sullate (SO,			804	1	48.8	=	13.01		
11.	Calcium (Ca	3		2,792	1	20.1	8	138.91		
12	Magnesium (I	10⁻²)		380	1	12.2	9	31.92		
	Sodium (Na')			34,045	i	23.0	=	1.480.21		
14.	Barium (Ba ⁻²)	•		2.71						
15.	Total Iron (Fe)		7.92						
	Manganese	-		0.51						
17.	Strontium			504.40						
18.	Total Dissolve	d Solids		96,72 7						
19.	Resistivity @	75 °F (calculated)	0.082	D-m					
20.	CaCO ₃ Salara	tion Index								
	Q 80 ° F	-0.30	F1							
	Q 100 °F	0.00	59		PRO	BABLE M	NER	L COMPOSI	TION	
	Q 120 [•] F	0.26		COMPOUND	EQ.	WT.	X	MEQAL	= mg/L	
	Q 140 °F	0.62	50							
	Q 160 °F	0.97	59	Ca(HCO ₁) ₂		81.04		3.99		32
				CaSO4		68.07		13,61		92
21,		saturation Ratio		CaCi ₂		55.50		121.31	6,	.73
	0 70°F	0.23	91	Mg(HCO ₃) ₇		73.17		0.00		
	0 90 F	0.23	34	MgSO4		60.19		0.00		
	@ 110 °F	0.24	8	MgCh		47.62		31.92	1	.52
	@ 130 °F	0.243		NaHCO,		84.00		0.00	•	
	Q 150 F	0.24		NaSO,		71.03		0.00		
	•	1240	-	NaCi		58.48		1,480.21	86.	
		Analyst	Sylvia Ga	rcia		Date:		July 17,	2015	





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DELAWARE ENERGY, L.L.C.

March 30, 2016

Surface Owner / Offset Operators

Re: Notification of Application for Authorization to Inject Pardue 31 Com #1 SWD Well

Ladies and Gentlemen:

Delaware Energy, LLC is seeking administrative approval to utilize the Pardue 31 Com #1 (API – 30-015-10842) 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.

Well: Proposed Disposal Zone: Location: Applicants Name: Applicants Address: Pardue 31 Com #1 Devonian Formation (from 13,650'- 14,500') 990' FSL & 1980' FWL, Sec. 31, T23S, R20E, Eddy Co., NM Delaware Energy, LLC 3001 W. Loop 250 N. Suite C-105-318 Midland, TX 79705

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. Delaware Energy can be reached at 214-558-1371

Sincerely,

Preston Stein

DISTRIBUTION LIST

Surface Owner Sec 31, T-23, R-28

Vickie Connally 211 R Ash Rd Loving, NM 88256

Sec 36, T-23, R-27 Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210

Sec 1, T-24, R-27 / Sec 6, T-24, R-28

COG Operating LLC 600 W. Illinois Ave, Midland, TX 79701

Sec 31, T-23, R-28 Matador Resources 5400 Lyndon B Johnson Fwy #1500 Dallas, TX 75240

Sec 31, T-23, R-28 **BTA Oil Producers, LLC** 104 S. Pecos St Midland, TX 79701

Pardue 31 Com #1

Formation Tops

Rustler	375
Base Salt, T/ Lamar lime	2,300'
Delaware Mountain Group / Bell Canyon	2,350'
Bone Spring Lime	5,900 [,]
Wolfcamp	9,200'
Atoka	11 ,400'
Morrow	11,900
Mississippi	13,225
Woodford Shale	13,550
Devonian	13,650

NO. OF COPIES RECEIVED DISTRIBUTION SANTA FE FILE U.S.G.S. LAND OFFICE	5 1							
SANTA FE FILE U.S.G.S.						;	orm C-i	105
FILE U.S.G.S.							levised	
U.S.G.S.						Sa. Ir	dicate	Type of Lease
and the second	17-1	VELL COMPLI					late	
LAND OFFICE	12-1			RECOMPLET	UN REPORT	AND LUG	nte Oil	6 Gas Lease No.
						1		
OPERATOR		•				1774		
Fruir of m	iner						////	
10. TYPE OF WELL	Anu I	•		RE	CEIV			sment Name
4								
. TYPE OF COMPLET		LEL WELL		Т ОТНЕВ		B. Fa	rm or L	ease Name
WELL WORK		PLUE	DIFF.	□ F	EB 9 196	7	irdue	•
2. Name of Operator	<u>.</u>	H	RESVA			9 We	II No.	
Mobil Oil	Corporati	on 🖌	•				1	* •
Address of Operator	-			A	TPELA CAL	10.5	-	Pool, or Wildcat
	633. Mid1	and, Texas	79701			-		
Location of Well		did, ICAG			<u></u>		lildc	
	•						IIII	
N	, a	90	. 50		1000		IIII	
UNIT LETTER	_ LOCATED	PEET P	ROM THEU			FEET FROM	\overline{m}	millittitt
Vest	31	23-6	28-19		IIIXIIII			
West Line of St	16 Dete 70 7	WP. 23 TO RE	Compl (Pro)	AMPM	TTTINITI,	RHOG, RI, GR etc.	y	VIIIIII
6-25-66	12-2-66		A	y to Proc.) [10.		MAN, KE, GR. elc.		-
20. Total Depth		Back T.D.			3095.2			95.2 GR
13,935	12.		ZZ. II M Mon	ultiple Compl., H ^y NO	Drille	als , Rotary Tools d By , y	•	Cable Tools
-			1	NO		X		
24. Producing Interval(s),	OI THIS COMPLET	ion - Top, Bottos				· -	- 25	, Was Directional Survey Made
P & A		• -	• • •	,			·. •	Yes
							·	
6. Type Electric and Otl		walki awalaa	f Cartan	0			27. Wa	s Well Cored
Schlumberger	GR-Callpe	and the second state of th		بجريات تقترته بجريب والمتحد والتقار والم		y		Yes
28.	1			(Report all string				T
CASING SIZE	WEIGHT X28./			HOLE SIZE		NTING RECORD		AMOUNT PULLED
13-3/8"	484	467		17-1/2"	Cmt. W/4	00 sx.Incor	Neat	0
9-5/8"	36#	3,000		12-1/4"		00 sx.IncorN		0
7"	23-26#	11,166	<u>,</u>	8-3/4"	Cmt.W/40	0 sx. T.Infe	rno	145 jts.
	1	<u> </u>	<u>· </u>	-				
9.		INER RECORD	·		30.	TUBING		RD
SIZE	TOP	BOTTOM	SACKS CEME	ENT SCREEN	SIZE	DEPTH SE	ET.	PACKER SET
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·								
		number)		32.		RACTURE, CEMEN		
1. Perforation Record (In		5			HINTERVAL			MATERIAL USED
12,420-12,430	• • Strawn			12,420	to 12,430	1,000 gals	157	NE Acid
				11,220	to 11,235	2,500 gals	15%	NE Acid
12,420-12,430				11,220	EO 11.235	Teacidize	w/10	,000 gals.CRA A
12,420-12,430								
12,420-12,430 11,220-11,235						1		
12,420-12,430 11,220-11,235 3.				RODUCTION		I		(P)
12,420-12,430 11,220-11,235 3. Date First Production		tion Method (Flow				I	Status	(Prod. or Shut+in)
12,420-12,430 11,220-11,235 3. Date First Production Drilled Dry	<u>, </u>	-	wing, gas lift,	pumping - Síze a	nd type pump)	Well		
12,420-12,430 11,220-11,235 3. Date First Production Drilled Dry		ction Method (Flow		pumping – Síze a Oli – Bbl.		Well		(Prod. or Shut-in) Gas - 011 Ratio
12,420-12,430 11,220-11,235 3. Parte First Production Drilled Dry	<u>, </u>	Choke Size	Prod'n. For Test Period	pumping – Size a Oll – Bbl. →	nd type ритр) Gaв — MC	Wejl F Water - Bbl	l.	Gas – Oil Ratio
12,420-12,430 11,220-11,235 3. Drive First Production Drilled Dry Vate of Test	<u>, </u>	Choke Size	Prod'n. For Test Period	pumping – Síze a Oli – Bbl.	nd type ритр) Gaв — MC	Well	l.	
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SANTA FE													
FILE		WELL COMPLETION OR RECOMPLETION REPORT AND LOG											
U.S.G.S.	-							RE	ECE	IVE	5. State	Oil 6	Gas Lease No.
LAND OFFICE													
OPERATOR										1074	U = U	M	
Burgeringer	- 1								SEP 12	2 19/4	1111	())	
IG. TYPE OF WELL										· · ·	7. Unit	Agree	ment Name
'		011		GAS , WELL				• • •	0. C	C.			
b. TYPE OF COMPLE	TION						UTHER.	-	RTESIA,	DEFICE	8. Form	CI Le	ase Name
WELL OVE				PLUG BACA		ESVA.	OTHER	-	P&A			due	e 31 Com.
2. Name of Operator								-			9. Well	No.	
HNG C	Dil C		anv										1
3. Address of Operator								•			10. Fiel	d and	Pool, or Wildcat
P. O.	Box	221	57.	Midlan	d. Te	xas	79701				Wi	ldo	cat
4. Location of Well	. 201				-/							111	<u>mmmmm</u>
											()))	())	
UNIT LETTER N			99	0		south	n	19	980		11112	III	
UNIT LETTER		TED						\overline{n}	IXIIII	FEET FROM	12. 004		
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15. Date Soudded	JIE Dat	• T.D.	TWP.	d 17 Date	Compl. /8	endy to F	Prod. 1 18	Fleve	tions (DE	RKR RT	- 6		lev. Cashinghead
	1						100.)					15. 2	ev. cushing.edu
2-18-74 20. Total Depth	3-	13-	74	P&A	4-7-7	4	e Compl., Ho	3(95.2	GR als , Rota			Coble Tools
12,770'		21. 11	ug beci		22.	Many	le Compil, Ho	w	Drille		2 776		CODIE TOOIS
•		L								\rightarrow \cdots	2,170	1	
24. Producing Interval(s), of this	comple	non –	10p, Bottom	, Name							25.	Was Directional Survey Made NO
None													NO
26. Type Electric and O	-										2	7. Was	Well Cored
Comp	. Neu	itro	n -	Format	ion D	ensit	cy						No
28.				CAS	ING RECO	ORD (Rep	ort all string	s set	in well)				
CASING SIZE	WEIG	SHTLB	./FT.	DEPTH	SET		ESIZE		CEME	NTING REC	ORD		AMOUNT PULLED
13-3/8" *	4	8#		40	0	17-1			lirc				None
9-5/8" *	3	86#		300	0	12-1			Circ				None
7"		23#		10,68		8-3	3/4"	115	50 sks	Trini	ty Lt	. V	Vt. 1600'
* Left in hold	le by	Mol	oil	Dil Co	rp.					•			
29.		1	INER	RECORD					30.		TUBING R	ECOR	RD
SIZE	то	P	в	OTTOM	SACKS C	EMENT	SCREEN		SIZE	DE	PTH SET		PACKER SET
None									None				None
			1										
31. Perforation Record (Interval.	size ar	id numb	er)			32.	ACIO	SHOT. F	RACTURE.	CEMENT	SOUE	EZE, ETC.
				,			DEPTH			1			MATERIAL USED
None							Non						
, none													123
													10 04
													A.201
33.						PROD	UCTION			1			
Date First Production		Prod	uction	Method (Flow	ing, gas		ing - Size as	nd typ	e pump)		Weil St	atus (Prod. or Shut-in)
						•	,					Pa	
Date of Test	Hours 1	Pested	To	hoke Size	Prod'n.	For	Oil - Bbi.		Gas - MC	F Wat	er - Bbl.		Gas - Oil Ratio
			-		Test P								-
Flow Tubles Dees	Castan	Pressu		alculated 24	Oil - E	abl.	Gas	MCF		ater - Bbl.			ravity - API (Corr.)
Flow Tubing Press.	Cusing	Fressu		our Rate			1		1			5 5	
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Test Witnessed By													
34. Disposition of Gas (Sold, used for fuel, vented, etc.) Test Witnessed By													
35. List of Attachments		_											
Copy of Ele	ect.	Log	& C	opies	ot DS	ST #1	& #2						
35. I hereby certify that	the info	mation	shown	on both side.	s of this f	orm is tru	e and comple	ste io	the best of	my knowles	ize and be	lief.	
30	T		_	-									
SIGNED KK. 7	film	ب. د	R.	R. Fra	zieŗ,	LE Pe	etroleu	m]	Enginè	er	DATE	9/3	11/74
SIGNED													

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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 rodio-activity logs run on the well and a summary of all special tests conducted, including drill 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 Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

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Northwestern New Mexico

		_	_	_		_	
т.				T,	Ojo Alamo	Т.	Penn. ''B''
т.	Salt	Т.	Strawn 11,208	Т.	Kirtland-Fruitland	Τ.	Penn. "C"
B.	Salt	T.	Atoka 11,590	T.	Fictured Cliffs	T.	Penn. "D"
Ť.	Yates	Т.	12,270	T.	Cliff House	T.	Leadville
т.	7 Rivers	т.*	Devonian	Т.	Menefee	Т.	Madison
Т.	Queen	T.	Silurian	Т.	Point Lookout	T.	Elbert
Т.	Grayburg	Т.	Montoya	Т.	Mancos	Т.	McCracken
Т.	San Andres	T.	Simpson	Т.	Gallup	Т.	Ignacio Qtzte
Ť.	Glorieta ZH	т.	МсКее	Bas	e Greenhorn	Т.	Granite
т.	Paddock	т.	Ellenburger	Т.	Dakota	T.	
т.	Blinebry	т.	Gr. Wash	Т.	Morrison	T.	
т.	Тирр О Ра	т.	Granite	Т.	Todilto	Т.	
T.	Drinkard	т.	Delaware Sand	Т.	Entrada	T.	
т.	АboЮ Н Ю АboО Д Н О	Т.	Bone Springs	Т.	Wingate	Т.	
	22	т.	-	Т.	Chinle	Т.	-
т.	Penn 2 F	т.		Т.	Permian	Т.	
т	Cisco (Bough C)	Т.		Т.	Penn. "A"	T.	

FORMATION RECORD (Attach additional sheets if necessary)

From	То	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
6012	8910	2898	Bone Springs				
	11208	2298	Wolfcamp				
	11590	382	Strawn				
	12270	680	Atoka				
12270	12770	500	Morrow				
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SANTA FE	NEW MEXICO OIL CONSERVATION COMMISSION	Ellecitae 14+62
FILE /	APR 1 1 1974	
U.S.G.S.	70 11 - 1 1374	5a. Indicate Type of Lease
LAND OFFICE		State Fee ar
OPERATOR 2	- O. C. C.	5. State Oil 6 Gas Lease No.
	ARTESIA, OFFICE	
(DO NOT USE THIS FORM FOR	DRY NOTICES AND REPORTS ON WELLS MODOBALS TO BRILL DR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. ATION FOR PERMIT - " (FORM C-101) FOR SUCH PROPOSALS.)	
I. OIL GAS WELL	OTHER- Re-enter	7. Unit Agreement Name
2, Name of Operator		8. Form or Lease Name
HNG Oil Comp	any $ u$	Pardue 31 Comm
3. Address of Operator	······································	9, Well No.
P. O. Box 76	7, Midland, Texas 79701	1
4. Location of Well		10. Field and Pool, or Wildcat
UNIT LETTER N	Wildcat	
	990 FEET FROM THE SOUTH LINE AND 1980 FEET FROM	
west	TION 31 TOWNSHIP 235 RANGE 28E NMPM.	
	15. Elevation (Show whether DF, RT, GR, etc.)	12. County
	3095.2 GR	Sddy AllIIIII
16. Check	Appropriate Box To Indicate Nature of Notice, Report or Oth	er Data
	INTENTION TO:	
NOTICE OF		REFORT OF.
PERFORM REMEDIAL WORK	PLUG AND ABANDON	ALTERING CASING
TEMPORAR LY ABANDON	COMMENCE PRILLING OPHS.	PLUS AND ABANDONMENT
PULL OR ALTER CASING	CHANGE PLANS CASING TEST AND CEMENT JOB	_
	OTHER	
DTHER	·	
In Describe Description of Complete	Operations (Clearly state all pertinent details, and give pertinent dates, including e	estimated data of statilas any
work) SEE RULE 1 103.	Oberations foreaut state are between account win Proc between antes' Weingth	structure and of starting any proposed

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

SIGNED RR Frequi R. R. Brazier	TITLE Petroleum Engineer	DATE 4-10-74
APPROVED BY Sules Mermis	TITLE OIL AND BAR INSPECTOR	BATE SEP 1 8 1974

CONDITIONS OF APPROVAL, IF ANY:

Goetze, Phillip, EMNRD

From:Goetze, Phillip, EMNRDSent:Wednesday, April 13, 2016 10:40 AMTo:'Preston Stein'Subject:Application Coversheet - Delaware Energy Application for the Pardue 31 Com. No. 1Attachments:AdminApplicationChecklist20090826.doc; admnapp.pdf

Mr. Stein:

Please complete one version of the attached coversheet and return the completed form as a PDF when possible. Thank you. PRG

Phillip R. Goetze, PG Engineering and Geological Services Bureau Oil Conservation Division New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 Direct: 505.476.3466 e-mail: phillip.goetze@state.nm.us



Goetze, Phillip, EMNRD

From:	Preston Stein <prestonms@gmail.com></prestonms@gmail.com>
Sent:	Wednesday, April 20, 2016 11:41 AM
То:	Goetze, Phillip, EMNRD
Subject:	RE: Application Coversheet - Delaware Energy Application for the Pardue 31 Com. No. 1
Attachments:	Pardue 31 Com #1 Notices.pdf

Mr. Goetze,

Attached please find proofs of notice and Affidavit of Publication for the subject application.

Best Regards,

Preston Stein Petroleum Attorney / Landman (214) 558-1371

This electronic transmission and any attached documents or other writings are intended only for the person or entity to which it is addressed and may contain information that is privileged, confidential or otherwise protected from disclosure. If you have received this communication in error, please immediately notify sender by return e-mail and destroy the communication. Any disclosure, copying, distribution or the taking of any action concerning the contents of this communication or any attachments by anyone other than the named recipient is strictly prohibited.

From:

Sent: None To: Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us> Subject: RE: Application Coversheet - Delaware Energy Application for the Pardue 31 Com. No. 1

Mr. Goetze

Attached please find what you requested.

Best Regards,

Preston Stein Petroleum Attorney / Landman (214) 558-1371

This electronic transmission and any attached documents or other writings are intended only for the person or entity to which it is addressed and may contain information that is privileged, confidential or otherwise protected from disclosure. If you have received this communication in error, please immediately notify sender by return e-mail and destroy the communication. Any disclosure, copying, distribution or the taking of any action concerning the cantents of this communication or any attachments by anyone other than the nomed recipient is strictly prohibited.

From: Goetze, Phillip, EMNRD [mailto:Phillip.Goetze@state.nm.us]
Sent: Wednesday, April 13, 2016 11:42 AM
To: Preston Stein prestonms@gmail.com
Subject: Application Coversheet - Delaware Energy Application for the Pardue 31 Com. No. 1

Mr. Stein:

Please complete one version of the attached coversheet and return the completed form as a PDF when possible. Thank you. PRG

Phillip R. Goetze, PG Engineering and Geological Services Bureau Oil Conservation Division New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 Direct: 505.476.3466 e-mail: phillip.goetze@state.nm.us



COMPLETE THIS SECTION ON DELIVERY **SENDER:** COMPLETE THIS SECTION A. Signature Agent Complete items 1, 2, and 3. Addressee Print your name and address on the reverse X St.A C. Date of Delivery so that we can return the card to you. B. Received by (Printed Name) Attach this card to the back of the malipiece, not or on the front If space permits. T Yes D. Is delivery address different from item 1? If YES, enter delivery address below: 040 1. Article Addressed to: VICKIE CONNALLY ZIIR ASH ROAD LOVING, NM B8256 D Priority Mail Expresse 3. Service Type Registered Mail CI Registered Mail Restricted Delivery Adult Signature Adult Signature Restricted Delivery Certified Mail® Return Receipt for 9590 9402 1604 5362 5783 60 Merchandis □ Signature Confirmation™ Collect on Delivery C Collect on Delivery Restricted Delivery Signature Confirmation 2. Article Number (Transfer from service label) **Restricted Delivery** Insured Mail Insured Mail Restricted Delivery 7015 3010 0000 2212 1546 (over \$500) **Domestic Return Receipt** PS Form 3811, July 2015 PSN 7530-02-000-9053 COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION A. Signature Agent Complete items 1, 2, and 3. Addressee Print your name and address on the reverse Date of Delivery B. Received by (Printed Name) so that we can return the card to you. C. Attach this card to the back of the mailpiece, or on the front if space permits. 1 Yes D. Is delivery address different from item 1? If YES, enter delivery address below: D No 1. Article Addressed to: VATES PETROLEUM LORP. 105 S. FOURTH ST. ARTESIA, NM 98210 D Priority Mail Express® 3. Service Type Registered MailTM Adult Signature Registered Mail Restricted Delivery Adult Signature Restricted Delivery 翻門 Certified Mall® Return Receipt for Merchandise 9590 9402 1604 5362 5783 53 Collect on Delivery Signature Confirmation™ Collect on Delivery Restricted Delivery Signature Confirmation 2. Article Number (Transfer from service label) neured Mail **Restricted Delivery** nsured Mail Restricted Delivery 2012 3010 0000 5515 5523 wer \$500) **Domestic Return Receipt** PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION A. Signature Complete items 1, 2, and 3. E Agent Louise Brown Print your name and address on the reverse Addressee so that we can return the card to you. C. Date of Delivery B. Received by (Printed Name) Attach this card to the back of the mallplece, or on the front if space permits. D. Is delivery address different from item 1? 1 Yes 1. Article Addressed to: C No If YES, enter delivery address below: BTA OIL PRODUCERS 104 5. PELUS ST. MIDLAND, TX 79701 Priority Mail Expresse 3. Service Type D Registered Main Adult Signature
 Adult Signature Restricted Delivery CI Registered Mail Restricted Delivery Certified Mail C Return Receipt for Certified Mail Restricted Delivery 9590 9402 1604 5362 5783 39 Merchandise Collect on Delivery □ Signature Confirmation™ Collect on Delivery Restricted Delivery 2. Article Number (Transfer from service label) Signature Confirmation ared Mail Restricted Delivery 2012 3010 0000 5575 7260 and Mail Restricted Delivery wwar \$500) PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION A. Signature Agent × andrea arispe Complete items 1, 2, and 3. Addressee Print your name and address on the reverse C. Date of Delivery B. Received by (Printed Name) so that we can return the card to you. 4-1-16 Attach this card to the back of the maliplece, Andrea Arispe D. Is delivery address different from item 1? T Yes or on the front if space permits. If YES, enter delivery address below: T NO 1. Article Addressed to: 600 W. ILLINOIS AVE MIOURNO, TX 79701 D Priority Mail Expresse 3. Service Type Registered Mail^{TM4}
 Registered Mail^{TM4}
 Registered Mail Restricted Delivery
 Return Receipt for Merchandise Adult Signature Adult Signature Restricted Delivery Certified Mail® 9590 9402 1604 5362 5783 46 **Collect on Delivery** Signature ConfirmationTH Collect on Delivery Restricted Delivery Signature Confirmation 2. Article Number (Transfer from service label) sured Mail Restricted Delivery sured Mail Restricted Delivery 2012 3010 0000 5515 1223 **Domestic Return Receipt** PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION A., Signature Complete items 1, 2, and 3. Agent Print your name and address on the reverse Addressee х so that we can return the card to you. C. Date of Delivery B. Received by (Printed Name) Attach this card to the back of the mallpiece, or on the front if space permits. 1 Yes D. Is delivery address different from Item 1? 1. Article Addressed to: If YES, enter delivery address below: D No MATTADOR RESOURCES 5400 Lyndon B Johnson Fu # 1500 TX Donuts. 3. Service Type Priority Mail Express® Registered MailTM Adult Signature Registered Mall Restricted
 Delivery Adult Signature Restricted Delivery Certified Mail® 9590 9402 1604 5362 5783 22 C Return Receipt for Certified Mall Restricted Delivery Merchandise Collect on Delivery □ Signature Confirmation™ Collect on Delivery Restricted Delivery 2. Article Number (Transfer from service label) Signature Confirmation ed Mail 2072 3070 0000 5575 1577 **Restricted Delivery** ed Mail Restricted Delivery \$500) PS Form 3811, July 2015 PSN 7530-02-000-9053 **Domestic Return Receipt**

Affidavit of Publication

State of New Mexico, County of Eddy, ss.

Rynni Henderson, being first duly sworn, on oath says:

That she is the Publisher 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:

April-12

2016

That the cost of publication is \$72.15 and that payment thereof has been made and will be assessed as court

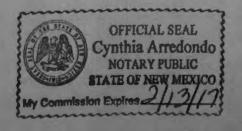
costs

Subscribed and sworn to before me this/2 day of

201 redonto

My commission Expires

Notary Public



April 12, 2016

Delaware Energy, LLC ran a legal notice regarding the Pardue 31 Com #1 on Wednesday, April 6, 2016. That notice mistakenly contained incorrect legal description of Range. Following is amended notice for Pardue 31 Com #1:

Delaware Energy, L.L.C., has filed a form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to utilize the Pardue, 31 Com #1 (API 3D-015-10842) as a Salt Water Disposal well.

Pardue 31 Com #1 is located at 990' FSL and 1980' FWL, Unit Letter N, Section 31, Township 23 South, Range 28 East, Eddy County, New Mexico. The well will dispose of water produced from oil and gas wells into the Devonian Formation at 13,650' to 14,500' at a maximum rate of 15,000 barrels of water per day at a maximum pressure of 2730 psl.

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. Delaware Energy LLC contact number is (214)-558-1371.



(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(quart					NE 3=SW		33 UTM in meters)		(In feet)	
POD Number	POD Sub- Code basin C		Q Q 64 16			: Tws	Rng	×			Depth Water C	and the second se
C 00108	CUB	ED	1 1	4	29	23S	28E	583974	3571285* 🌍	152	10	142
<u>C 01648</u>	С	ED	2	3	29	23S	28E	583667	3571184* 🌄	65	15	50
C 02037	С	ED	2	3	29	23S	28E	583667	3571184* 🍑	260		
									Average Depth to	Water:	12 fe	et
									Minimum	Depth:	10 fe	et
									Maximum	Depth:	15 fe	et
Record Count: 3	nnae Alaan Mada Asson oron, mere aane aan ann	allar ann ann a		1000 30		nar ussair uddar a	anne 2000e 2000e 20000 2000	- 10000 10000 10000 50000		and were 1000 wave a	ange 10000 40000 10000 1000	. Journ Josef 19996

PLSS Search:

Section(s): 29-32

Township: 23S

Range: 28E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replace O=orphaned C=the file is closed)	ed, , (qua					NE 3=SV		3 UTM in meters)		(In feet)	
POD Number <u>C 00010</u>	POD Sub- Code basin CUB	Count ED	y 64 '				Rng 27E	X 581129	-		Depth Water C 103	
C 00010 CLW191724	0	ED	2	32	25	23S	27E	580926	3571666* 🍑	259		
C 00010 CLW191759	0	ED	1 :	22	25	23S	27E	581129	3572075* 🍑	259		
C 00010 ENLGD	CUB	ED	1 :	22	25	23S	27E	581129	3572075* 🌍	259		
									Average Depth to	Water:	103 fe	et
									Minimum	n Depth:	103 fe	et
									Maximum	n Depth:	103 fe	et
Record Count: 4	alla alla font don olon tour anna Man			9996X 0000		****	1997 - 1998 - 1999 - 1999 - 1999 - 1999 1997 - 1998 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	nn minin annan manan annan	anar alka kala kalan van von enn enn inter	6000 0000 00 00 0000 7	na 1999. (1997) (1997) (1	
PLSS Search:												

Section(s): 25, 36

Township: 23S

Range: 27E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

C-108 Review Checklist: Received Add. Request:							
ORDER TYPE: WFX / PMX SWD Number: Order Date: Legacy Permits/Orders:							
Well No Well Name	(s): Pandy	e 31 cor	わ				
		te: 6-25-1464 /		UIC Class II	Primacy 03/07/1982)		
Footages 1980FWL	Lot	or Unit 📈 Sec <u>31</u>	_ Tsp _ 2 3	S_Rge_2.80	E County Eddy		
General Location: <u><u><u></u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>	niles sul	Pool:Pool:	SudjI	evonian	Pool No.: Det: <u>prestow Steens</u> 5.9 OK? <u>Y</u> Date: Huge 2016		
BLM 100K Map:	_ Operator: DCIM	mlenter	OGRID	: 371 4 Contac	t: prestow steens		
COMPLIANCE RULE 5.9: Total We		ve: Fincl Assur:		. Order?AAA-15 s	5.9 OK? Y Date: Him 6-2016		
WELL FILE REVIEWED O Current	Status:	Τ					
WELL DIAGRAMS: NEW: Proposed		Before Conv. 🕒 After C	Conv. O	ogs in Imaging:	N-D-L-MUE', SONTLOV		
Planned Rehab Work to Well:	cten the	entton cle	Lns a	out,7" over	constan Shillman C-15-6.		
Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)		Cement Sx or Cf	Cement Top and Determination Method		
Plannedor ExistingSurface		<u> </u>	Stage Tool	400	Surface		
Planned_or Existing Interm/Prod	1. 1. 1.2.1.	3000		1600	SANFALC		
Planned_or ExistingInterm/Prod	13111			1900	3.1.1.000		
Planned_or Existing Prod/Liner	5	4660-		1000	# 10600/1.BC		
Plannedor Existing Liner							
Planned_or Existing OH / ERF	73650/14	500	Inj Length		Completion/Operation Details:		
Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining	Tops	Drilled TD 1343.	5_PBTD_139512354		
Adjacent Unit: Litho. Struc. Por.		DV	13-22		NEW PBTD 10685		
Confining Unit: Litho. Struc. Por.	n an	4.0	134355	NEW Open Hole	or NEW Perfs		
Proposed Inj Interval TOP:		****		Tubing Size 35			
Proposed Inj Interval BOTTOM:				Proposed Packer De			
Confining Unit: Litho. Struc. Por. Adjacent Unit: Litho. Struc. Por.					13 55 (100-ft limit) ace Press. 273 2 psi		
Adjacent office Entrol. Struct. Pol.	and Geologic In	formation			2-73 (0.2 psi per ft)		
POTASH: R-111-P Miniged			Salt/Sa				
FRESH WATER: Aquifer					NT By Qualified Person (
THESH WATCH: Aquiter							
NMOSE Basin: <u>CARLSBAS</u> Disposal Fluid: Formation Source(s) Bone St	nings, MA		On Lease O Operato	or Only () or Commercial		
Disposal Int: Inject Rate (Avg/Max	BWPD): 44/15	Protectable Water	s?S	ource: S	System: Closed or Open		
HC Potential: Producing Interval	? MFormerly Pr	oducing?Method:	Logs/DST/P	&A/Other P&A	2-Mile Radius Pool Map		
AOR Wells: 1/2-M Radius Map?	Well List?_	Total No. Wells P	enetrating Ir	nterval: _ P H	Horizontals?		
Penetrating Wells: No. Active Wel	Is Num Repairs	s?on which well(s)?_			Diagrams?		
Penetrating Wells: No. P&A Wells	Penetrating Wells: No. P&A Wells						
NOTICE: Newspaper Date 4/12 Mineral Owner Surface Owner 6							
RULE 26.7(A): Identified Tracts? Affected Persons: MAtdur, CDG, JAtus, BTA N. Date 1/4/2016							
Order Conditions: Issues:							
Add Order Cond: MIT EVENY 2 y-CANS							
- ChAn+							
-2CBLRANS							
-FOILOW the prescribed 410 Procedures							

Submit 1 Copy To Appropriate District Office District I – (575) 393-6161	State of New Mexico Energy, Minerals and Natural Resources	Form C-103 Revised July 18, 2013		
Initial (575) 748-1283 I625 N. French Dr., Hobbs, NM 88240 District II $-(575)$ 748-1283 811 S. First St., Artesia, NM 88210 District III $-(505)$ 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410 District IV $-(505)$ 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505	WELL API NO. 30-015-10842 5. Indicate Type of Lease STATE FEE 6. State Oil & Gas Lease No.		
SUNDRY NOTICE (DO NOT USE THIS FORM FOR PROPOSAL DIFFERENT RESERVOIR. USE "APPLICAT	7. Lease Name or Unit Agreement Name Pardue 31 Com			
PROPOSALS.) 1. Type of Well: Oil Well Ga	s Well 🛛 Other	8. Well Number #1		
2. Name of Operator Delaware Energy LLC		9. OGRID Number 371195		
3. Address of Operator 3001 W. Loop 250 N. Suite C-105-318	3, Midland TX 79705	10. Pool name or Wildcat SWD (Devonian)		
4. Well Location				
Unit Letter <u>N</u> :	990'_feet from theline and	<u>_1980'</u> feet from theWestline		
Section: 31	Township: 23 Range: 28	NMPM County: Eddy		
	1. Elevation (Show whether DR, RKB, RT, GR, etc.,			

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

NOTICE OF IN	ITENTION TO:	SUBSEQUENT REPORT OF:		
PERFORM REMEDIAL WORK	PLUG AND ABANDON		REMEDIAL WORK	
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DRILLING OPNS. P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL		CASING/CEMENT JOB	
DOWNHOLE COMMINGLE				
CLOSED-LOOP SYSTEM				
OTHER:		\boxtimes	OTHER:	

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

PROCDURE FOR REENTRTY AND COMPLETION TO DEVONIAN SWD:

- R/U WORK OVER UNIT, DRILL OUT SURFACE PLUG FROM 0-188'. TEST CASING TO 500PSI. DRILL OUT CEMENT PLUGS AT 2676' AND 2930' AND CLEAN OUT TO PBTD OF 10,622'. TEST CASING TO 500 PSI AND HOLD FOR 30 MINUTES, RECORD TEST.
- 2. R/U WIRE LINE AND RUN CEMENT BOND LOG FROM 10,622' TO 1,600' AND DETERMINE TOP OF CEMENT IN 7" BY 9-5/8" ANNULUS.
- 3. DRESS OFF 7" STUB IN PREPERATION FOR 7" CASING PATCH.
- 4. IF CEMENT TOP IS DETERMINED TO BE WITHIN 50FT OF STUB, PLAN TO UTILIZE DV TOOL ABOVE CASING PATCH. IF CEMENT TOP IS GREATER THAN 50FT FROM 7" CASING STUB, SHOOT SQUEEZE HOLES AT CEMENT TOP PRIOR TO RUNNING CASING PATCH, SQUEEZE HOLES WILL BE USED TO CIRCULATE CEMENT FOLLOWING INSTALLATION OF CASING PATCH.
- 5. RUN CASING PATCH AND CEMENT 7" BY 9-5/8" ANNULUS TO SURFACE. TEST CASING TO 500 PSI AND HOLD FOR 30 MINUTES, RECORD TEST.
- 6. CONTINUE WITH DEEPENING, CLEAN OUT TO 12,770' AND DEEPEN TO DEVONIAN TO A DEPTH OF 14,500', RUN 5" LINER FROM 14,500' TO 10,600', AND CEMENT TO 5" LINER TOP.

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

SIGNATURE	TITLE	DATE
Type or print name For State Use Only	E-mail address:	PHONE:
APPROVED BY: Conditions of Approval (if any):	TITLE	DATE