9/13/2016 DATE IN	SUSPENSE	ENGINEER	9/13/2016 LOGGED IN	SWD TYPE	pMAM1625950249 APP NO.

ABOVE THIS LINE FOR DIVISION USE ONLY

-need SWD w/ Thompson signed statement

suspended 10-17-2016

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application 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]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

15 day clock 10-20-2016

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

-SWD/1656
-Delaware Energy, LLC
371195

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

Well
-Palomaked Com #1
30-015-32050

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify ______________________

Pool
-SWD; Devonian
96101

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☒ 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 Stein	[signature]	**Vice President**	**8/30/2016**
Print or Type Name	Signature	Title	Date

Preston@delawareenergyllc.com
e-mail Address

Delaware Energy, LLC
3001 W. Loop 250 North, Suite C-105-318
Midland, TX 79705
(214) 558-1371
preston@delawareenergyllc.com
August 30, 2016

Mr. Phillip Goetze
Engineering & Geological Services Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Dear Mr. Phillip Goetze:

Enclosed please find Delaware Energy's Application for Injection/SWD for the Paloma Fed Com #1 wellbore, API # 30-015-32090. Please feel free to contact me should you have any questions, etc. Please note the amended changes to reflect adequate protection of the entire Capitan Reef in the well as indicated an issue by Mr. Michael McMillan as reason for original denial of the Paloma Fed Com #1 in an e-mail dated July 14, 2016. Thank you in advance for your consideration.

Sincerely,

Preston M. Stein
Delaware Energy, LLC

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

Delaware Energy, LLC

Application for Injection/SWD

Paloma Fed Com #1, API # 30-015-32090

UL L, Sec. 10, T-22-S, R-26-E, 1980' FSL & 660' FWL, Eddy Co., NM

August 29, 2016

Contents:

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 Stein_____PHONE: __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? _____Yes ___XXX__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:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
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.).

*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 Stein_____TITLE: _____Vice President_____

SIGNATURE: _____DATE: ___8/30/2016_____

E-MAIL ADDRESS: _____preston@delawareenergyllc.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 1

INJECTION WELL DATA SHEET

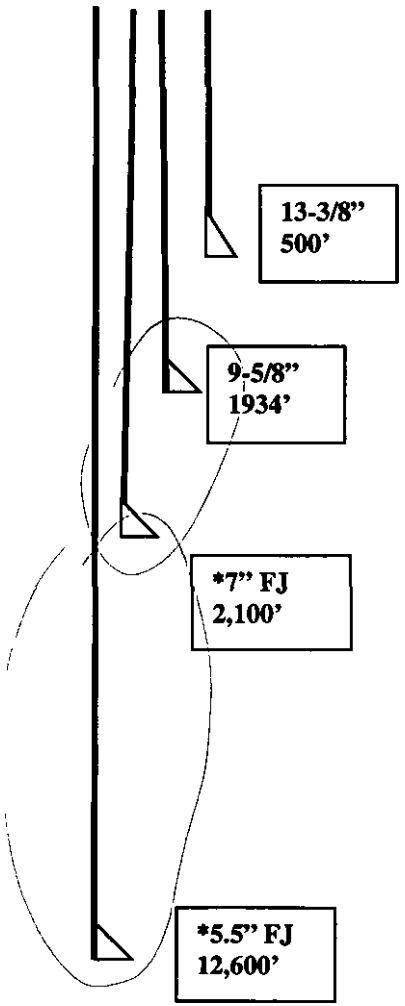
OPERATOR: Delaware Energy LLC

WELL NAME & NUMBER: Paloma Fed Com #1

WELL LOCATION: 1980' FSL, 660' FWL | L | 10 | 22S | 26E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



*** Proposed Casing**

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-1/2" Casing Size: 13-3/8"

Cemented with: 550 sx. *or* _____ ft³

Top of Cement: SURFACE Method Determined: Circulated 200sx

Total Depth: 500'

Intermediate Casing ()

Hole Size: 12-1/4" Casing Size: 9-5/8"

Cemented with: 900 sx. *or* _____ ft³

Top of Cement: Surface Method Determined: Circulated 212sx

Total Depth: ~~2700'~~ 1934' E well file

2nd Intermediate Casing*

Hole Size: 7-7/8" Casing Size: 7"

Cemented with: 1100 sx. *or* _____ ft³

Top of Cement: Surface Method Determined: Calculated

Total Depth: 2,100'*

Side 2

Production Casing*
Hole size: 7.875"
Top of cement: surface
Total Depth: 12,600'

Casing Size: 5.5"
method determined: Calculated

Injection Interval
12,600' to 13,600'
Open Hole

INJECTION WELL DATA SHEET

Tubing Size: 3.5" Lining Material: Internally plastic coated

Type of Packer: Weatherford Arrow Set 1X Injection Packer

Packer Setting Depth: 50-100ft above perforations

Other Type of Tubing/Casing Seal (if applicable): NONE

Additional Data

1. Is this a new well drilled for injection? Yes XXX No

   If no, for what purpose was the well originally drilled? The well was originally drilled as a vertical Morrow test. The well was found to be unproductive of commercial hydrocarbons.

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, production pipe was not run

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

BELOW: None

ABOVE: Morrow 10,970'-11,495', Atoka 10,316'-10,970', Strawn 9,910'-10,316', Wolfcamp 8,620'-9,910', Bone Springs 4,814'-8,620'.

Additional Questions on C-108

VII.

1. **Proposed average and maximum daily rate and volume of fluids to be injected;**
   Average 3,000-10,000 BWPD, Max 15,000 BWPD

2. **Whether the system is open or closed;**
   Open System, Commercial SWD

3. **Proposed average and maximum injection pressure;**
   Average 600-1,200 PSI, Max 2,520 PSI

4. **Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,**
   Bone Spring, Delaware, and Wolfcamp produced water. Water is compatible with Devonian formation and is used as a disposal interval throughout the Delaware Basin for Wolfcamp, Bone Springs, and Delaware produced water. No incompatibility exists. See attached water analysis from Bone Spring, Wolfcamp, and Delaware produced water.

5. **If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).**
   Disposal interval 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 located in the Devonian formation 12,600'-13,600' (estimated top and base of disposal interval) There are no fresh water zones underlying the proposed injection zone. Devonian is an impermeable Shale at the very top (Woodford Shale, est. top 12,500') 100' thick followed by permeable dolomite. Usable water depth is from surface to +/-300', the water source is Capitan Reef. Surface rock is eroded quaternary alluvium transitioning to Artesia Group. Average depth of fresh water is 90ft in section 10. All offset sections have Capitan water wells with usable water depths from 100-300. Following drilling operations Delaware Energy LLC will report the actual top of the Woodford Shale and the Devonian Dolomite with electric logs and mud logs along with all other important geologic markers below the intermediate 9-5/8" casing.

IX. Describe the proposed stimulation program, if any.

20,000 gallons 15% HCL acid job with packer

X. All previous logs were submitted to the OCD by the previous operator. Delaware Energy will submit logs following drilling operations.

XI. Water samples for two wells are included, a sample from section 10 & 14 of T22S, R26E

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

Delaware Energy, L.L.C. has reviewed and examined available geologic and engineering data in the area of interest for the Paloma Fed Com #1 SWD and have found no evidence of faults or other hydrologic connections between the Devonian disposal zones and the underground sources of drinking water, there are many impervious intervals between the disposal interval and the ground water.

Preston Stein **Vice-President** **5/12/2016**
_____ **Title** _____ **Date** _____

III. WELL DATA

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
Paloma Fed Com #1, Sec. 10-T22S-R26E, 1980' FSL & 660' FWL, UL L, Eddy County, New Mexico

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

Casing Size	Setting Depth	Sacks of Cement	Hole Size	Top of Cement	Determined
13-3/8"	500'	550	17-1/2"	Surface	CIRC 200 sx
9-5/8"	1934'	900	12-1/4"	Surface	CIRC 212 sx
*7" flush joint	2,100'	1100	7.875"	Surface	Plan to circulate
*5-1/2" flush joint	12,600'	1600	7.875"	Surface	Plan to circulate

(3) A description of the tubing to be used including its size, lining material, and setting depth.
3-1/2" OD, Internally Plastic Coated Tubing set 50 to 100ft above Open Hole

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.
Weatherford Arrow set 1X injection packer, nickel plated with on/off tool

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

(1) The name of the injection formation and, if applicable, the field or pool name.
Devonian Formation
Pool Name: SWD (Devonian)

(2) The injection interval and whether it is perforated or open-hole.
12,600' to 13,600' (OH)

(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. The well was found to be unproductive of hydrocarbons.

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

None

(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 10,550'-11,900', Atoka 10,316'-10,550', Strawn 9,910'-10,316', Wolfcamp 8,620'-9,910', Bone Springs 4,814'-8,620'.

Next Lower: None

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015-32090	Undesignated	SWD; Devonian

[4] Property Code	[5] Property Name	[6] Well Number
	Paloma Fed Com	1

[7] OGRID No.	[8] Operator Name	[9] Elevation
371195	Delaware Energy, LLC	3261

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	10	22 S	26 E		1980'	South	660'	WEST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

[16]

660'

1979'

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature 9/29/16
Date

Preston Stein
Printed Name

Prestonms@gmail.com
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

SEE ORIGINAL C-102
Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: ***Impact Chemical***

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

Dissolved Gases

			Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	(H2S)		3.40	16.00	.21
Carbon Dioxide	(CO2)		230.00	22.00	10.45
Dissolved Oxygen	(O2)	**NOT ANALYZED**			

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 ANALYZED**			
Manganese	(Mn+)		1.53	27.50	.06
Strontium	(Sr++)	**NOT ANALYZED**			

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 Solids			180,974.52		
Total Hardness as CaCO3			34,358.26		
Conductivity MICROMHOS/CM			209,000		

pH 5.200 Specific Gravity 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

Formation: Wolfcamp

Impact Water Analysis Analytical Report

IMPACT!

Company:		Location:	
Source:	Wellhead	Date Sampled:	July 15, 2015
Number:	45813	Account Manager:	David Garcia
County:		Foreman:	

ANALYSIS	mg/L		EQ. WT.		MEQ/L
1. pH	6.70				
2. Specific Gravity 60/60 F	1.067				
3. Hydrogen Sulfide	10.2	PPM			
4. Carbon Dioxide	120.0	PPM			
5. Dissolved Oxygen	ND				
6. Hydroxyl (OH^-)	0	/	17.0	=	0.00
7. Carbonate (CO_3^{-2})	0	/	30.0	=	0.00
8. Bicarbonate (HCO_3^-)	244	/	61.1	=	3.99
9. Chloride (Cl^-)	57,987	/	35.5	=	1,633.44
10. Sulfate (SO_4^{-2})	664	/	48.8	=	13.61
11. Calcium (Ca^{+2})	2,792	/	20.1	=	138.91
12. Magnesium (Mg^{+2})	389	/	12.2	=	31.92
13. Sodium (Na^+)	34,045	/	23.0	=	1,480.21
14. Barium (Ba^{+2})	2.71				
15. Total Iron (Fe)	7.92				
16. Manganese	0.51				
17. Strontium	594.40				
18. Total Dissolved Solids	98,727				
19. Resistivity @ 75 °F (calculated)	0.082	Ω-m			

20. $CaCO_3$ Saturation Index

@ 80 °F	-0.3041
@ 100 °F	0.0059
@ 120 °F	0.2659
@ 140 °F	0.6259
@ 160 °F	0.9759

21. $CaSO_4$ Supersaturation Ratio

@ 70 °F	0.2391
@ 90 °F	0.2384
@ 110 °F	0.2408
@ 130 °F	0.2438
@ 150 °F	0.2469

PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X	MEQ/L	= mg/L
$Ca(HCO_3)_2$	81.04		3.99	323
$CaSO_4$	68.07		13.61	926
$CaCl_2$	55.50		121.31	6,733
$Mg(HCO_3)_2$	73.17		0.00	0
$MgSO_4$	60.19		0.00	0
$MgCl_2$	47.62		31.92	1,520
$NaHCO_3$	84.00		0.00	0
$NaSO_4$	71.03		0.00	0
NaCl	58.46		1,480.21	86,533

Analyst: Sylvia Garcia Date: July 17, 2015

Formation: Delaware

Impact Water Analysis Analytical Report

IMPACT!

Company:		Location:	Mosaic 34 Federal 1
Source :	WH	Date Sampled:	May 7, 2015
Number :	43546	Account Manager:	David Garcia
County:		Foreman:	

ANALYSIS	mg/L		EQ. WT.		MEQ/L
1. pH	5.74				
2. Specific Gravity 60/60 F	1.212				
3. Hydrogen Sulfide	3.4	PPM			
4. Carbon Dioxide	720.0	PPM			
5. Dissolved Oxygen	ND				
6. Hydroxyl (OH^-)	0	/	17.0	=	0.00
7. Carbonate (CO_3^{-2})	0	/	30.0	=	0.00
8. Bicarbonate (HCO_3^-)	49	/	61.1	=	0.80
9. Chloride (Cl^-)	179,959	/	35.5	=	5,069.27
10. Sulfate (SO_4^{-2})	140	/	48.8	=	2.87
11. Calcium (Ca^{+2})	28,720	/	20.1	=	1,428.86
12. Magnesium (Mg^{+2})	4,529	/	12.2	=	371.23
13. Sodium (Na^+)	75,276	/	23.0	=	3,272.85
14. Barium (Ba^{+2})	1.75				
15. Total Iron (Fe)	18.61				
16. Manganese	9.55				
17. Strontium	1,105.00				
18. Total Dissolved Solids	289,808				
19. Resistivity @ 75 °F (calculated)	0.027	Ω-m			

20. $CaCO_3$ Saturation Index

@ 80 °F	-0.9490
@ 100 °F	-0.6390
@ 120 °F	-0.3790
@ 140 °F	-0.0190
@ 160 °F	0.3310

21. $CaSO_4$ Supersaturation Ratio

@ 70 °F	0.4092
@ 90 °F	0.5418
@ 110 °F	0.3990
@ 130 °F	0.3896
@ 150 °F	0.3893

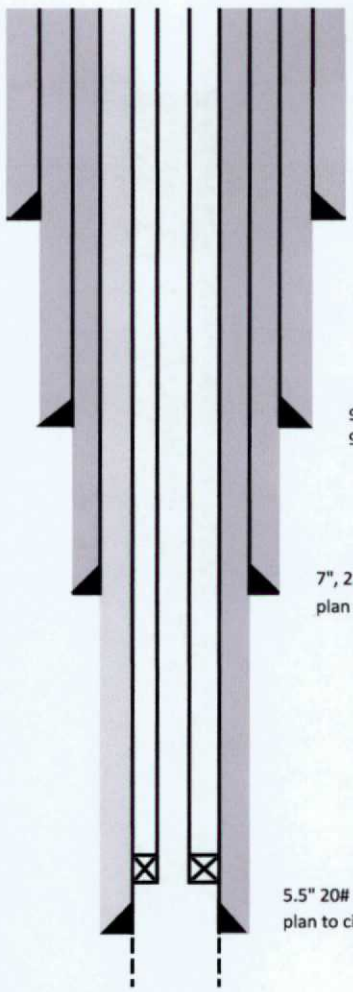
PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X	MEQ/L	= mg/L
$Ca(HCO_3)_2$	81.04		0.80	65
$CaSO_4$	68.07		2.87	195
$CaCl_2$	55.50		1,425.19	79,098
$Mg(HCO_3)_2$	73.17		0.00	0
$MgSO_4$	60.19		0.00	0
$MgCl_2$	47.62		371.23	17,678
$NaHCO_3$	84.00		0.00	0
$NaSO_4$	71.03		0.00	0
NaCl	58.46		3,272.85	191,331

Analyst: Tamara Davault Date: May 8, 2015

Paloma Fed Com #1
1980' FSL & 660' FWL, UL L, SEC. 10, T-22S R-26E, Eddy County, NM
API # 30-015-32090

3.5" 9.3# L-80 IPC tubing flush joint
at 12,550'



13 3/8", 48.5#, J-55, @ 500'
550sx cmt, circ 200sx

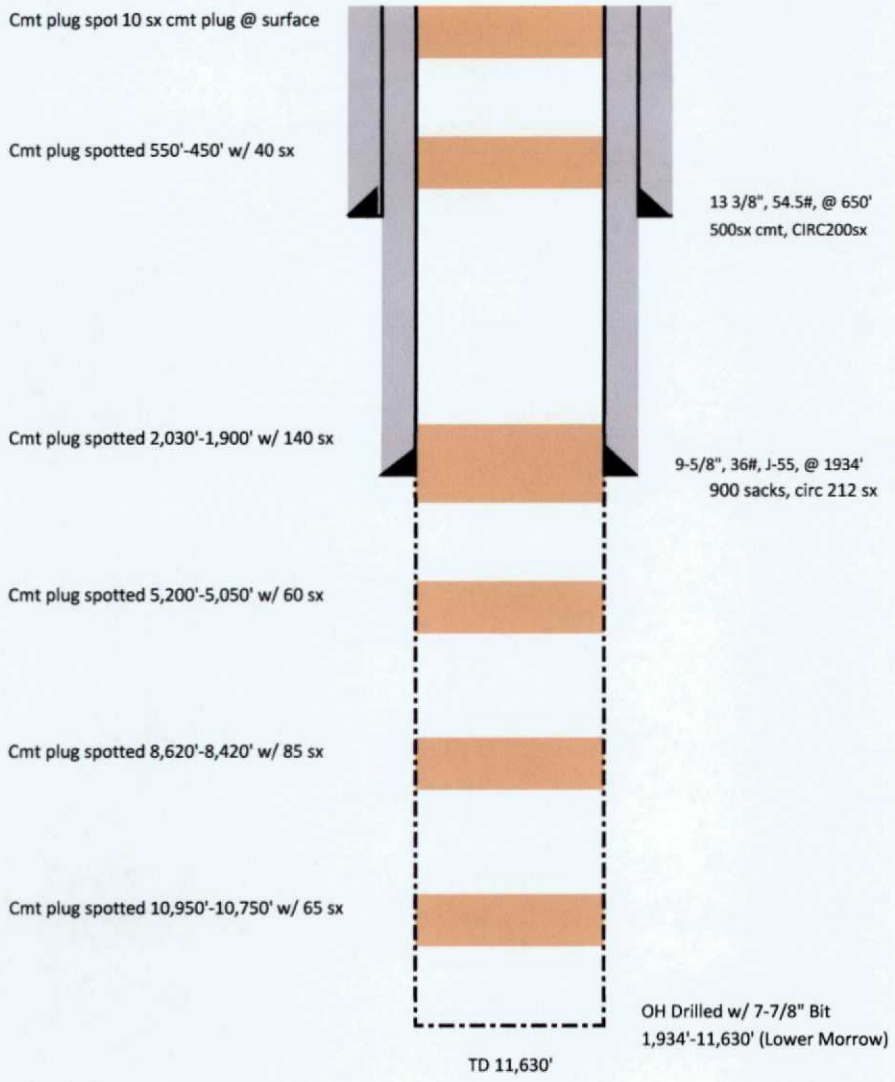
9-5/8", 36# @ 1934'
900 sx cmt, CIRC 212sx

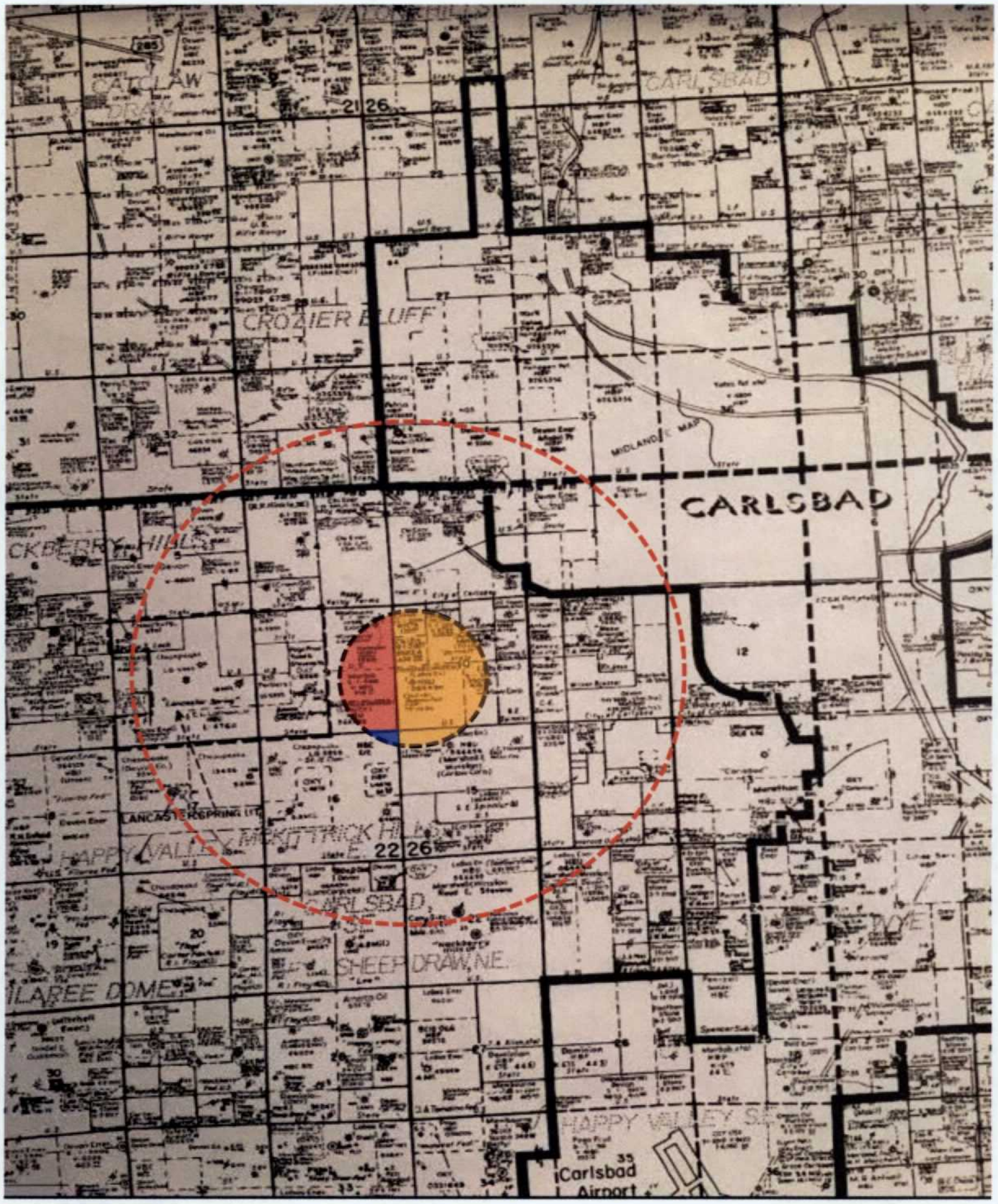
7", 23# J-55 Flush Joint @ 2,100' (top of Delaware/E
plan to circulate

5.5" 20# L-80 Flush Joint @12'600 (top Devonian Dolon
plan to circulate

Proposed Injection Packer @ 12,550'

Paloma Fed Com #1
1980' FSL & 660' FWL, UL L, SEC. 10, T-22S R-26E, Eddy County, NM
API # 30-015-32090





0.5 Mile Radius

2 Mile Radius

Mewbourne Oil Co.

Chevron USA, Inc.

J. Cleo Thompson

Delaware Energy, L.L.C.
3001 W. Loop 250 N., Suite C-105-318
Midland, TX 79705
Office: (214) 558-1371

August 29, 2016

Surface Owner / Offset Operators

Re: Notification of Application for Authorization to Inject into the Paloma Fed Com #1 Well

Ladies and Gentlemen:

Delaware Energy, LLC is seeking administrative approval to utilize the Paloma Fed Com #1 (API – 30-015-32090) 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:	Paloma Fed Com #1 SWD
Proposed Disposal Zone:	Devonian Formation (from 12,600'-13,600')
Location:	1980' FSL & 660' FWL, Sec. 10, UL L, T22S, R26E, Eddy Co., NM
Applicants Name:	Delaware Energy, L.L.C.
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.

Please call Preston Stein with Delaware Energy, LLC if you have any questions at 214-558-1371.

Sincerely,

Preston Stein
Vice President
Delaware Energy, LLC
preston@delawareenergyllc.com

LEGAL NOTICE

Delaware Energy, L.L.C., 3001 W. Loop 250N, Suite C-105-318, Midland, TX 79705, has filed a form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to utilize the Paloma Fed Com #1 (API – 30-015-32090) as a Salt Water Disposal well.

The Paloma Fed Com #1 is located at 1980' FSL and 660' FWL, Unit Letter L, Section 10, Township 22 South, Range 26 East, Eddy County, New Mexico. The well will dispose of water produced from oil and gas wells into the Devonian Formations from 12,600' to 13,600' at a maximum rate of 15,000 barrels of water per day at a maximum pressure of 2,520 psi.

Interested parties must file objections or requests for hearing with the Oil Conservations Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

Additional information can be obtained by contacting Delaware Energy, L.L.C., at (214) 558-1371.

Paloma Fed Com #1
API#: 30-015-32090
Location: Sec. 10, T-22S, R-26E, UL L

Formation Tops

Eroded Quaternary Alluvium and Artesia Group (Capitan Reef) at surface

Cherry Canyon	2,240'
Bone Springs	4,814'
Wolfcamp	8,620'
Strawn	9,910'
Atoka	10,316'
Morrow	10,970'
Barnett	11,495'
Mississippian	12,300'
Woodford Shale	12,500'
Devonian	12,600'

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
		Undesignated Carlsbad Morrow So.

4 Property Code	5 Property Name	6 Well Number
	PALOMA FEDERAL COM	1

7 OGRID No.	8 Operator Name	9 Elevation
	CHI OPERATING INC.	3261.

10 Surface Location

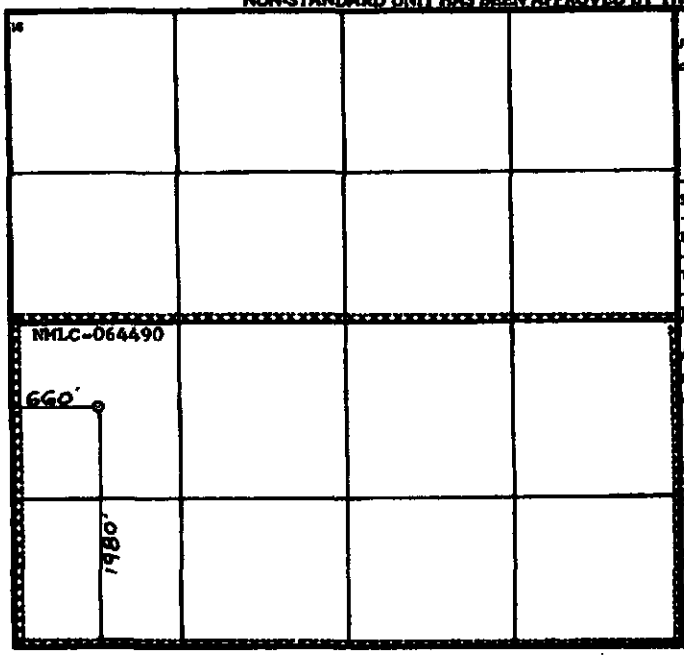
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	10	22-S	26-E		1980	SOUTH	660	WEST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320		Com.	

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

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

George R. Smith

Signature George R. Smith, agent for:

Printed Name Chi Operating, Inc.

Title

July 9, 2001

Date

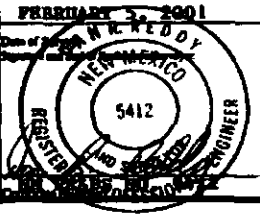
18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEBRUARY 2, 2001

Date of Survey

Signature and Seal of Professional Surveyor



Certificate Number

Oil Cons.
N.M. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

5 Lease Designation and Serial No: NMLC-064490

6 If Indian, Allottee or Tribe Name:

7 If Unit or CA, Agreement Designation:

1 Type of Well: [ ] Oil Well [X] Gas Well [ ] Other

8 Well Name and No: Paloma Federal Com. #1

2 Name of Operator: CHI OPERATING, INC.

9 API Well No: 30-015-32090

3 Address and Telephone No: P.O. BOX 1799 MIDLAND, TEXAS 79702

10 Field and Pool, or Exploratory Area: Undes Carlsbad Morrow S

4 Location of Well (Footage, T., R., M., or Survey Description)
1980' FSL & 660' FWL
Sec. 10 T22S-R26E

11 County or Parish, State: EDDY

RECEIVED
OCD - ARTESIA

12 CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[X] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other	[ ] Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spud well on 12/15/01. Drilled 17 1/2" hole to 500'. Ran 13 3/8"-48.5#-J-55 & set @ 500'. Cemented with 350 sks "C"+4% gel+2% CaCl2+2 pps Gils & 200 ske "C"+2% CaCl2+.25 pps CF. Circ. 200 sks. WOC. NU & tested annular to 1000#. Drilled 12 1/4" to 1934'. Ran 9 5/8"-36-J-55 csg. Set @ 1934'. Cemented w/200 sks "H"+10% gyp+1% CaCL2, 500 sks "C" lite+2 PPS Gils+5% salt & 200 sks "C" +2% CaCl2+.25 pps CF. Circ 212 sks. WOC, NUBOP, choke manifold kill lines etc etc to 5000#. Drilled 7 /78" hole to 11630'. Logged, evaluated and decided to P&A. Contacted BLM & got plugging procedure. P&A'd as follows: 1st plug @ 10950'-10750'-65 sks "H", 2nd plug @ 8620-420-85 sks "H". 3rd plug @ 5200-5050'-60 sks "H". 4th plug @ 2030-1880'-70 sks "H"+21% CaCl2, tagged. Respot 4th plug w/70 sks "H"+4% CaCl2. Tagged @ 1900'-ok by BLM. 5th plug @ 550-450'-40 sks "C". 6th plug @ 60-0'-20 sks "C". RD & released rig 12:00 hrs on 1/30/02. Set Dry hole marker 2/7/02. Will reclaim pits & location as soon as possible

14 I hereby certify that the foregoing is true and correct
Signed: [signature] Title: [illegible] Date: 2/20/2002

(This space for Federal or State office use)

Approved by: _____ Date: _____

Conditions of approval, if any:

Accepted for record only MAR 5 2002

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or repre[illegible]

*See Instructions on Reverse Side

[illegible] of the well bore [illegible] is retained until [illegible] is completed.

Paloma I/III

U.S. Postal Service™
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OFFICIAL USE

CARLSBAD, NM 88220

Certified Mail Fee $3.30

Extra Services & Fees

- Return Receipt (hardcopy) $2.70
- Return Receipt (electronic) $0.00
- Certified Mail Restricted Delivery $0.00
- Adult Signature Required $0.00
- Adult Signature Restricted Delivery $0.00

Postage $1.78

Total Postage and Fees $7.78

0708 05

09/06/2016

Sent To: BLM
Street and Apt. No., or PO Box No.: 620 E. Greene St
City, State, ZIP+4®: Carlsbad, NM 88220 - Paloma

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7016 1370 0000 6293 9044

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Bureau of Land Mgmt
620 E Greene St
Carlsbad, NM 88220

9590 9402 2082 6132 2485 76

2. Article Number (Transfer from service label)
7016 1370 0000 6293 9044

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X [signature] ☐ Agent ☐ Addressee
B. Received by (Printed Name): [illegible] Yang
C. Date of Delivery: 9-8-16
D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

OFFICIAL USE

$3.30 $2.70 $0.00 $0.00 $0.00 $0.00 $1.78 $7.78

09/06/2016

Melbourne
PO Box 7698
Tyler, TX 75711 - Paloma

7016 1370 0000 6293 9013

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:

Melbourne Oil Co
PO Box 7698
Tyler, TX 75711

9590 9402 2082 6132 2484 46

2. Article Number: 7016 1370 0000 6293 9013

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X [signature]
B. Received by (Printed Name): [illegible]

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

OFFICIAL USE

$3.30 $2.70 $0.00 $0.00 $0.00 $0.00 $1.78 $7.78

09/06/2016

NM OCD
1220 S. St. Francis
Santa Fe, NM 87505 - Paloma

7016 1370 0000 6293 9068

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:

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

9590 9402 2082 6132 2484 60

2. Article Number: 7016 1370 0000 6293 9068

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature: X [signature]

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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$3.30 $2.70 $0.00 $0.00 $0.00 $0.00 $1.78 $7.78

09/06/2016

NM OCD
811 S. First St
Artesia, NM 88210 - Paloma

7016 1370 0000 6293 9051

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:

NM Oil Conservation Division
811 S. First St.
Artesia, NM 88210

9590 9402 2082 6132 2484 39

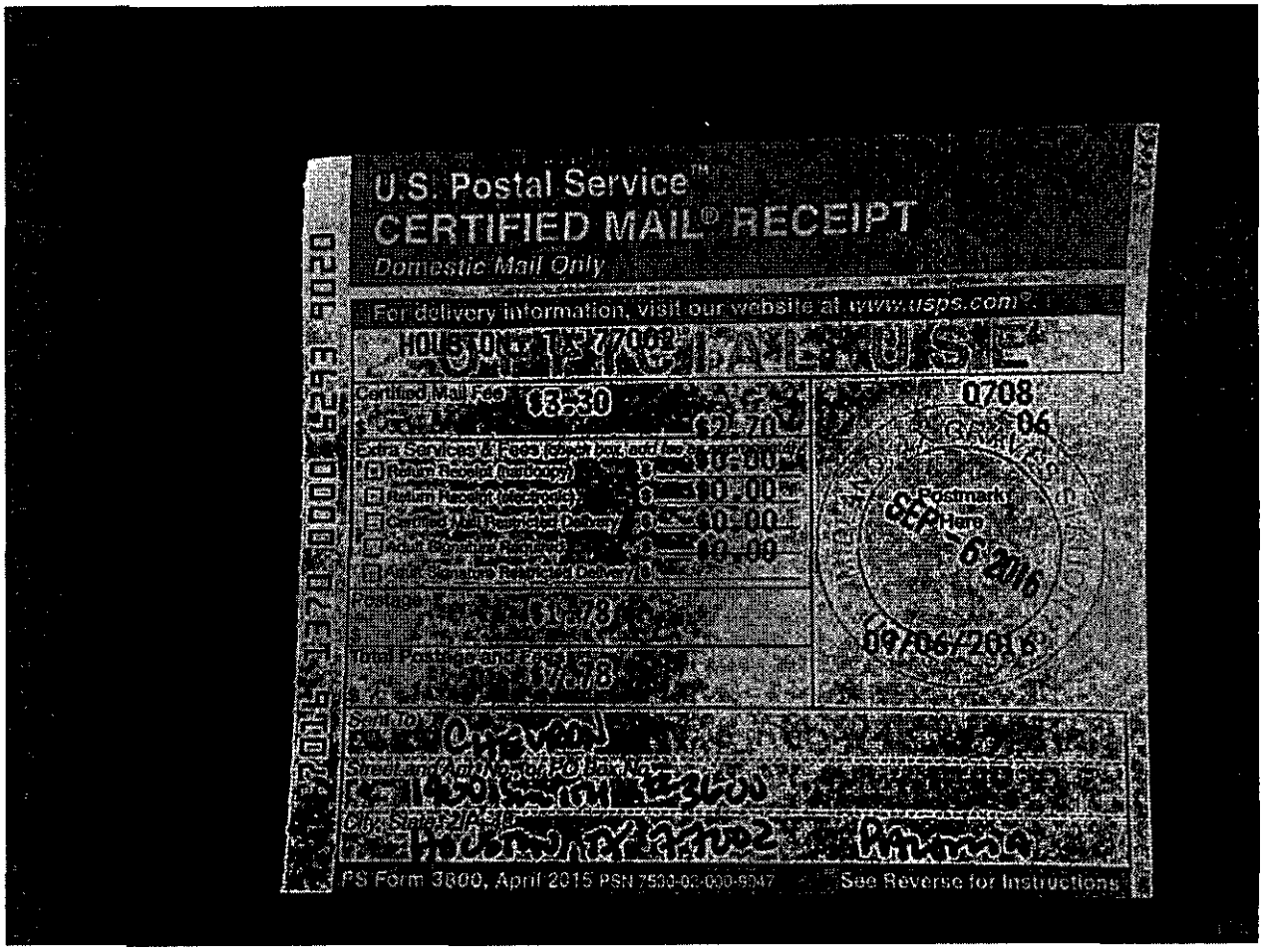
2. Article Number: 7016 1370 0000 6293 9051

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature: [signature]
B. Received by (Printed Name): [illegible]

Paloma T/TL



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Features:
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See tracking for related item: 9590940220826132248477

DATE & TIME	STATUS OF ITEM	LOCATION
September 28, 2016 , 1:27 pm	**Delivered**	**HOUSTON, TX 77002**
Your item was delivered at 1:27 pm on September 28, 2016 in HOUSTON, TX 77002.		
September 16, 2016 , 8:41 am	*Out for Delivery*	*HOUSTON, TX 77002*

Available Actions

Text Updates

Email Updates

FedEx®

October 20,2016

Dear Customer:

The following is the proof-of-delivery for tracking number **784403088868**.

Delivery Information:

Status:	Delivered	**Delivered to:**	Receptionist/Front Desk
Signed for by:	S.JUAREZ	**Delivery location:**	CARLSBAD, NM
Service type:	FedEx Priority Overnight	**Delivery date:**	Oct 20, 2016 11:25
Special Handling:	Deliver Weekday No Signature Required		

NO SIGNATURE REQUIRED
Proof-of-delivery details appear below; however, no signature is available for this FedEx Express shipment because a signature was not required.

Shipping Information:

Tracking number:	784403088868	**Ship date:**	Oct 19, 2016
		Weight:	0.5 lbs/0.2 kg

Recipient:
CARLSBAD, NM US

Shipper:
MIDLAND, TX US

Thank you for choosing FedEx.

Paloma

DATE & TIME	STATUS OF ITEM	LOCATION
September 16, 2016 , 8:31 am	Sorting Complete	HOUSTON, TX 77002
September 15, 2016 , 1:17 pm	Arrived at Unit	HOUSTON, TX 77002
September 15, 2016 , 12:00 am	Departed USPS Destination Facility	NORTH HOUSTON, TX 77315
September 14, 2016 , 10:51 am	Arrived at USPS Destination Facility	NORTH HOUSTON, TX 77315
September 14, 2016 , 6:08 am	Departed USPS Facility	NORTH TEXAS PROCESSING AND DISTRIBUTION CENTER
September 13, 2016 , 3:44 pm	Arrived at USPS Facility	NORTH TEXAS PROCESSING AND DISTRIBUTION CENTER
September 13, 2016 , 4:38 am	Departed USPS Facility	DALLAS, TX 75260
September 12, 2016 , 2:24 pm	Arrived at USPS Facility	DALLAS, TX 75260
September 6, 2016 , 1:14 pm	Acceptance	MIDLAND, TX 79707

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Tracking (or receipt) number

Track It

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	Forms & Publications	Postal Explorer	No FEAR Act EEO Data
	Government Services	National Postal Museum	
	Careers	Resources for Developers	

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Erin CoatsSmith, 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:

May 15 2016

That the cost of publication is **$68.15** and that payment thereof has been made and will be assessed as court costs.

Erin Coats Smith

Subscribed and sworn to before me this 20 day of May, 2016

Cynthia Arredondo

My commission Expires
2/13/17

Notary Public

OFFICIAL SEAL
Cynthia Arredondo
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 2/13/17

May 15, 2016

Delaware Energy, L.L.C., 3001 W. Loop 250N, Suite C-105-318, Midland, TX 79705, has filed a form C-108 (Application for Authorization to Inject) with the Oil Conservation Division seeking administrative approval to utilize the Paloma Fed Com #1 (API - 30-015-32090) as a Salt Water Disposal well.

The Paloma Fed Com #1 is located at 1980' FSL and 660' FWL, Unit Letter L, Section 10, Township 22 South, Range 26 East, Eddy County, New Mexico. The well will dispose of water produced from oil and gas wells into the Mississippian-Devonian Formations from 11,545' to 13,000' at a maximum rate of 15,000 barrels of water per day at a maximum pressure of 2,299 psi.

Interested parties must file objections or requests for hearing with the Oil Conservations Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

Additional information can be obtained by contacting Delaware Energy, L.L.C., at (214) 558-1371.

DELAWARE ENERGY, LLC
3001 W. LOOP 250 NORTH, SUITE C-105-318
MIDLAND, TX 79701
(214) 558-1371

October 12, 2016

DELIVERY VIA E-MAIL: Michael.McMillan@state.nm.us

New Mexico Oil Conservation Division
ATTN: Michael McMillan

RE: **ACKNOWLEDGEMENT OF RECEIPT – DELAWARE ENERGY SWD APPLICATION – PALOMA FED COM #1 – API # 30-015-32090**

To Whom It May Concern:

I, Kathy Brotherton, Land Manger of J. Cleo Thompson, Inc., hereby acknowledges receipt of Delware Energy's Paloma Fed Com #1 Application both before and on October 3, 2016.

Respectfully,

Kathy Brotherton

Kathy Brotherton

McMillan, Michael, EMNRD

From: Swartz, Paul <pswartz@blm.gov>
Sent: Wednesday, July 13, 2016 12:15 PM
To: Kautz, Paul, EMNRD
Cc: McMillan, Michael, EMNRD; Fernandez, Edward; Jones, William V, EMNRD; Goetze, Phillip, EMNRD; Lowe, Leonard, EMNRD; Bayliss, Randolph, EMNRD; Inge, Richard, EMNRD
Subject: Re: Delaware Energy LLC Paloma Federal SWD Well No. 1 API 30-015-32090

Michael,

Ed & I have looked at the location and it appears the well is has federal minerals and surface.
That being the case a BLM APD should be filed to reenter the well and will need federal approval. BLM has concern for the Capitan Reef also, and is desirous of cooperation with NMOCD.

Generally BLM will require fresh water to be used when drilling through the Reef and that it be isolated with casing and cement.

pswartz
575-200-7902

On Wed, Jul 13, 2016 at 11:41 AM, Kautz, Paul, EMNRD <paul.kautz@state.nm.us> wrote:

> The Capitan Reef is very complex and I have very little knowledge about the Reef in Eddy County. I do know that in Lea County that there are various water zones of different quality. There also are zones where the Capitan Reef is productive of oil.
>
> I would suggest that the cement on the 7" casing be tied back into the 9 5/8 and a log run to determine the top of cement.
>
> Paul Kautz
>
> Hobbs District Geologist
>
> NM Oil Conservation Div.
>
> 1625 N French Dr.
>
> Hobbs, NM 88240
>
> 575-393-6161 Ext. 104

~ Home
~ Production Data
~ Well Data
~ NM Pricesheet
~ Water Data
~ Projects
~ Software
~ Archive
~ Other Links
~ Help

North American Oil and Gas News

Dundee Energy announces resignation of Chief Financial Officer

Dril-Quip agrees to acquire TIW Corporation

Dakota Access protests come to Houston as the light crude market keeps shifting

Cabot Oil & Gas provides update on Atlantic Sunrise Project

Source: Oil Voice

NYMEX LS Crude	0
Navajo WTXI	0
Henry Hub	0
Updated	10/14/2016

State Land Office Data Access

OCD well/log image files

PRRC NM-TECH NM-BGMR

- NM WAIDS
  - Data
    - Produced Water
    - Ground Water
    - Conversion Tools
  - Scale
    - Scale details
    - Stiff
    - Oddo
    - Probable Mineral Composition
    - mix
  - Corrosion
    - Theory
      - Uniform
      - Galvanic
      - Crevice

General Information About: Sample 27143			
Section/ Township/Range	11 / 22S / 26E	Lat/Long	32.4064/-104.2633
Elevation	3155	Depth	200
Date Collected	5/7/1992 12:00:00 AM	Chlorides	173
Collector / Point of Collection	SEO/DP	Use	Irrigation Water
Formation	CAP	TDS	0

~ Home
~ Production Data
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~ NM Pricesheet
~ Water Data
~ Projects
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Source: Oil Voice

NYMEX LS Crude	0
Navajo WTXI	0
Henry Hub	0

Updated : 10/14/2016

State Land Office Data Access

OCD well/log image files

PRRC NM-TECH NM-BGMR

- NM WAIDS
  - Data
    - Produced Water
    - Ground Water
    - Conversion Tools
  - Scale
    - Scale details
    - Stiff
    - Oddo
    - Probable Mineral Composition
    - mix
  - Corrosion
    - Theory
      - Uniform
      - Galvanic
      - Crevice

General Information About: Sample 26963			
Section/ Township/Range	15 / 22S / 26E	Lat/Long	32.3918/-104.2804
Elevation	3254	Depth	443
Date Collected	4/7/1955 12:00:00 AM	Chlorides	56
Collector / Point of Collection	USG/DP	Use	Exploratory
Formation	CAP	TDS	0

~ Home
~ Production Data
~ Well Data
~ NM Pricesheet
~ Water Data
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North American Oil and Gas News

Dundee Energy announces resignation of Chief Financial Officer

Dril-Quip agrees to acquire TIW Corporation

Dakota Access protests come to Houston as the light crude market keeps shifting

Cabot Oil & Gas provides update on Atlantic Sunrise Project

Source: Oil Voice

NYMEX LS Crude	0
Navajo WTXI	0
Henry Hub	0
Updated	10/14/2016

State Land Office Data Access

OCD well/log image files

PRRC NM-TECH NM-BGMR

- NM WAIDS
  - Data
    - Produced Water
    - Ground Water
    - Conversion Tools
  - Scale
    - Scale details
    - Stiff
    - Oddo
    - Probable Mineral Composition
    - mix
  - Corrosion
    - Theory
      - Uniform
      - Galvanic
      - Crevice

General Information About: Sample 14158			
Section/ Township/Range	09 / 22S / 26E	Lat/Long	32.4064/-104.2975
Elevation	3231.7	Depth	
Date Collected	9/12/1997 12:00:00 AM	Chlorides	82
Collector / Point of Collection	SEO/DP	Use	Stock
Formation	TNSL	TDS	

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    - Theory
      - Uniform
      - Galvanic
      - Crevice

General Information About: Sample 27147			
Section/ Township/Range	03 / 22S / 26E	Lat/Long	32.4209/-104.2804
Elevation	3183	Depth	360
Date Collected	5/13/1992 12:00:00 AM	Chlorides	800
Collector / Point of Collection	SEO/YT	Use	Stock
Formation	CAP	TDS	0

FedEx

October 20,2016

Dear Customer:

The following is the proof-of-delivery for tracking number **784403088868**.

Delivery Information:

Status:	Delivered	**Delivered to:**	Receptionist/Front Desk
Signed for by:	S.JUAREZ	**Delivery location:**	CARLSBAD, NM
Service type:	FedEx Priority Overnight	**Delivery date:**	Oct 20, 2016 11:25
Special Handling:	Deliver Weekday		
	No Signature Required		

NO SIGNATURE REQUIRED
Proof-of-delivery details appear below; however, no signature is available for this FedEx Express shipment because a signature was not required.

Shipping Information:

Tracking number:	784403088868	**Ship date:**	Oct 19, 2016
		Weight:	0.5 lbs/0.2 kg

Recipient:
CARLSBAD, NM US

Shipper:
MIDLAND, TX US

Thank you for choosing FedEx.

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 replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twns	Rng	X	Y	Depth Well	Depth Water	Water Column
C 00047		CUB	ED	4	2	3	11	22S	26E	569146	3585507*	140		
C 00047 C		CUB	ED	1	2	3	11	22S	26E	568946	3585707*	90	60	30
C 00047 CLW204264	O		ED	4	2	3	11	22S	26E	569146	3585507*	140		
C 00118		CUB	ED	2	4	4	11	22S	26E	569948	3585309*	70		
C 00119		C	ED	4	2	4	11	22S	26E	569947	3585515*	127		
C 00126 AD		CUB	ED	1	3	4	11	22S	26E	569348	3585304*	150	60	90
C 00131		CUB	ED	3	2	2	11	22S	26E	569746	3586328*	126		
C 00180		C	ED	3	4	1	11	22S	26E	568943	3585915*	200		
C 00220		C	ED	2	2	4	11	22S	26E	569751	3585747	125		
C 00238		C	ED		4	2	11	22S	26E	569847	3586023*	117		
C 00253		C	ED		4	2	11	22S	26E	569847	3586023*	90		
C 00290		C	ED		2	4	11	22S	26E	569848	3585616*	60		
C 00411		C	ED	1	2	1	11	22S	26E	568940	3586522*	134		
C 00495		C	ED	1	2	3	11	22S	26E	568946	3585707*	124	80	44
C 00525 A	O		ED	4	2	4	11	22S	26E	569947	3585515*	125	40	85
C 00525 S		C	ED	4	2	4	11	22S	26E	569947	3585515*	130	45	85
C 00530		C	ED		4	4	11	22S	26E	569849	3585210*	166	65	101
C 00560		C	ED	4	2	4	11	22S	26E	569947	3585515*	86	49	37
C 00560 POD2		C	ED	4	2	4	11	22S	26E	569947	3585515*	135	55	80
C 00569		C	ED	2	1	4	11	22S	26E	569546	3585711*	105	60	45
C 00583		C	ED	1	1	4	11	22S	26E	569346	3585711*	122	50	72
C 00602		C	ED	2	1	4	11	22S	26E	569546	3585711*	115	55	60
C 00630			ED	1	4	4	11	22S	26E	569748	3585309*	85	11	74
C 00715		C	ED		4	3	11	22S	26E	569050	3585200*	152	108	44
C 00728		C	ED	4	2	3	11	22S	26E	569146	3585507*	115	72	43
C 00729		C	ED	4	3	4	11	22S	26E	569548	3585104*	92		

***UTM location was derived from PLSS - see Help**

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(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-basin Code	County	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 00835	C	ED	4	3	4	11	22S	26E	569548	3585104*	153	55	98
C 00837	C	ED	1	4	4	11	22S	26E	569748	3585309*	169	46	123
C 00865	C	ED	2	4	4	11	22S	26E	569948	3585309*	133	40	93
C 00893	C	ED	2	4	4	11	22S	26E	569948	3585309*	141	46	95
C 01030	C	ED	4	3	4	11	22S	26E	569548	3585104*	110	54	56
C 01123	C	ED	4	4	2	11	22S	26E	569946	3585922*	185	60	125
C 01167	C	ED	3	4	2	11	22S	26E	569746	3585922*	167	60	107
C 01171	C	ED	2	4	4	11	22S	26E	569948	3585309*	129	46	83
C 01401	C	ED		2	3	11	22S	26E	569047	3585608*	89	66	23
C 01412	C	ED	2	2	4	11	22S	26E	569947	3585715*	132	44	88
C 01419	C	ED	4	3	4	11	22S	26E	569548	3585104*	112	56	56
C 01444	CUB	ED		4	3	11	22S	26E	569050	3585200*	133	83	50
C 01475 POD2	C	ED	4	2	4	11	22S	26E	569947	3585515*	142	50	92
C 01556	C	ED	4	4	4	11	22S	26E	569948	3585109*	150	61	89
C 01557	C	ED	3	2	4	11	22S	26E	569747	3585515*	130	60	70
C 01703	C	ED	4	4	4	11	22S	26E	569948	3585109*	79	51	28
C 01729	C	ED		2	3	11	22S	26E	569047	3585608*	125	69	56
C 01740	C	ED	4	3	4	11	22S	26E	569548	3585104*	232	57	175
C 01751	C	ED	3	4	4	11	22S	26E	569748	3585109*	110	60	50
C 01782	C	ED	2	2	3	11	22S	26E	569146	3585707*	86	61	25
C 01785	C	ED		2	4	11	22S	26E	569848	3585616*	96	40	56
C 01792	C	ED	4	3	4	11	22S	26E	569548	3585104*	80	23	57
C 01813	C	ED		2	3	11	22S	26E	569047	3585608*	100	70	30
C 01850	C	ED	2	4	4	11	22S	26E	569948	3585309*	150	50	100
C 01899	C	ED	4	2	3	11	22S	26E	569146	3585507*	92	77	15
C 01902	C	ED	4	2	4	11	22S	26E	569947	3585515*	130	45	85
C 01929	C	ED		2	1	11	22S	26E	569041	3586423*	145	64	81
C 01941	C	ED		4	3	11	22S	26E	569050	3585200*	96	71	25
C 01964	C	ED		4	4	11	22S	26E	569849	3585210*	100	75	25

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(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02014		C	ED	1	3	4	11	22S	26E	569348	3585304*	96	87	9
C 02028		C	ED		1	4	11	22S	26E	569447	3585612*	90	65	25
C 02062		C	ED		2	4	11	22S	26E	569848	3585616*	98		
C 02098		C	ED		3	4	11	22S	26E	569449	3585205*	136	58	78
C 02105		C	ED	3	2	3	11	22S	26E	568946	3585507*	125	75	50
C 02119		C	ED		4	4	11	22S	26E	569849	3585210*	118	78	40
C 02128		C	ED	1	4	4	11	22S	26E	569748	3585309*	100	60	40
C 02147		C	ED	1	2	4	11	22S	26E	569747	3585715*	125	50	75
C 02187		C	ED		3	4	11	22S	26E	569449	3585205*	147	80	67
C 02192		C	ED		4	4	11	22S	26E	569849	3585210*	100	60	40
C 02194		C	ED	2	3	4	11	22S	26E	569548	3585304*	90	25	65
C 02194 CLW469096	O		ED	1	3	4	11	22S	26E	569348	3585304*	90	25	65
C 02204		C	ED			3	11	22S	26E	568851	3585397*	145	85	60
C 02403		C	ED	3	4	3	11	22S	26E	568949	3585099*	154	97	57
C 02434		C	ED	1	3	4	11	22S	26E	569348	3585304*	164	66	98
C 02435		C	ED		4	4	11	22S	26E	569849	3585210*	99	25	74
C 02454		C	ED	3	2	3	11	22S	26E	568946	3585507*	99	69	30
C 02513		C	ED	3	1	4	11	22S	26E	569346	3585511*	125	40	85
C 02547		C	ED		4	1	11	22S	26E	569044	3586016*	127	58	69
C 02582		C	ED	2	2	3	11	22S	26E	569146	3585707*	149	53	96
C 02585		C	ED	3	2	3	11	22S	26E	568946	3585507*	150	90	60
C 02586		C	ED	3	2	3	11	22S	26E	568946	3585507*	150	90	60
C 02610		C	ED		4	3	11	22S	26E	569050	3585200*	158	158	0
C 02630		C	ED	2	4	3	11	22S	26E	569149	3585299*	150	80	70
C 02852		C	ED	3	1	2	11	22S	26E	569343	3586325*	137	80	57
C 02886		C	ED	1	2	3	11	22S	26E	568946	3585707*	135	70	65
C 02957		C	ED	1	2	3	11	22S	26E	568946	3585707*	130	70	60
C 03296		C	ED	2	2	4	10	22S	26E	568343	3585692*	127	90	37
C 03305		C	ED	4	4	4	10	22S	26E	568009	3586120	170	95	75

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C 03336	C	ED	1	4	3	11	22S	26E	569002	3585414	130	79	51
C 03367 POD1	C	ED	1	2	3	11	22S	26E	569036	3585641	140	80	60
C 03370 POD1	C	ED	2	3	4	11	22S	26E	569464	3585395	150	58	92
C 03384 POD1	C	ED	3	1	4	11	22S	26E	569380	3585537	124	64	60
C 03398 POD1	C	ED	2	3	4	11	22S	26E	569513	3585258	134	40	94
C 03399 POD1	C	ED	2	3	4	11	22S	26E	569480	3585242	148	40	108

Average Depth to Water: **62 feet**

Minimum Depth: **11 feet**

Maximum Depth: **158 feet**

Record Count: 90

PLSS Search:

Section(s): 9-11 **Township:** 22S **Range:** 26E

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

BELOW: None

ABOVE: Morrow 10,970'-11,495', Atoka 10,316'-10,970', Strawn 9,910'-10,316', Wolfcamp 8,620'-9,910', Bone Springs 4,814'-8,620'.

C-108 Review Checklist: Received 9/13 Add. Request: 10/2/2016 Reply Date: 10/20/2016 Suspended: ________ [Ver 15]

ORDER TYPE: WFX / PMX / (SWD) Number: ________ Order Date: ________ Legacy Permits/Orders: ________

Well No. 1 Well Name(s): Paloma Federal Com

API : 30-0 15-32050 Spud Date: ________ New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 1980FSL 660FWL Lot ___ or Unit L Sec 10 Tsp 22S Rge 26E County Eddy

General Location: 2 miles west of Carlsbad Pool: SWD; Devonian Pool No.: ________

BLM 100K Map: Carlsbad Operator: Delaware Energy, LLC OGRID: 371195 Contact: Preston Stein, Vice President

COMPLIANCE RULE 5.9: Total Wells: 0 Inactive 0 Fincl Assur: OK Compl. Order? NA IS 5.9 OK? Y Date: 11-08-2016

WELL FILE REVIEWED ○ Current Status: P&A

WELL DIAGRAMS: NEW: Proposed ○ or **RE-ENTER:** Before Conv. ○ After Conv. ○ Logs in Imaging: Y (P&A portion)

Planned Rehab Work to Well: ________

Well Construction Details	Sizes (In) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __Surface	17½/13⅜	500		550	Surface / Visual
Planned __or Existing __Interm/Prod	12¼/9 5/8	1934		900	Surface / Visual
Planned __or Existing __Interm/Prod	7⅞/7	2100		1100	Surface / Visual X
Planned __or Existing __Prod/Liner	7⅞/5½	12600		1600	Surface / Visual X
Planned __or Existing __Liner					
Planned __or Existing __(OH) PERF	12600/13600		Inj Length 1000'		

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.		WD	12850
Confining Unit: Litho. Struc. Por.		DV	12600
Proposed Inj Interval TOP:			
Proposed Inj Interval BOTTOM:			
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 11650 PBTD ________

NEW TD 13600 NEW PBTD ________

NEW Open Hole ○ or NEW Perfs ○

Tubing Size 3½ in. Inter Coated? ______

Proposed Packer Depth 12550 ft

Min. Packer Depth 12500 (100-ft limit)

Proposed Max. Surface Press. 2520 psi

Admin. Inj. Press. 2520 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P ____ Noticed? ____ BLM Sec Ord ○ WIPP ○ Noticed? ____ Salt/Salado T: ____ B: ____ **NW:** Cliff House fm ____

FRESH WATER: Aquifer Quaternary & Artesian Max Depth 155 **HYDRO AFFIRM STATEMENT** By Qualified Person ○

NMOSE Basin: Capitan CAPITAN REEF: (thru) adj NA **No. Wells within 1-Mile Radius?** ______ FW Analysis

Disposal Fluid: Formation Source(s) Bone Spring, Delaware, Wolfcamp Analysis? ______ On Lease ○ Operator Only ○ or Commercial ○

Disposal Int: Inject Rate (Avg/Max BWPD): 10K/15K Protectable Waters? ______ Source: ______ System: Closed or (Open)

HC Potential: Producing Interval? NA Formerly Producing? ______ Method: Logs/DST/P&A/Other NASTONG Geology 2-Mile Radius Pool Map ○

AOR Wells: 1/2-M Radius Map? Y Well List? ____ Total No. Wells Penetrating Interval: ______ Horizontals? ______

Penetrating Wells: No. Active Wells Ø Num Repairs? ____ on which well(s)? ________ Diagrams? ______

Penetrating Wells: No. P&A Wells Ø Num Repairs? ____ on which well(s)? ________ Diagrams? ______

NOTICE: Newspaper Date 5-15-2016 Mineral Owner ________ Surface Owner BLM N. Date ______

RULE 26.7(A): Identified Tracts? ______ Affected Persons: McCombs Energy, City of Carlsbad, JCLCO, Thompson N. Date

Order Conditions: Issues: ________

Add Order Cond: ________

Need H2O Sample, City of Carlsbad

X [illegible] 7" & 5½" casing should be circulated to surface