

RECEIVED: 0 5/20/2019	REVIEWER:	TYPE: SWD	APP NO: PMAM19143 4686
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & 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

Applicant: Delaware Energy, LLC	OGRID Number: 371195
Well Name: Padrino State SWD #1	API: Pending
Pool: SWD; Devonian	Pool Code: 96101

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION
 INDICATED BELOW**

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL ☐ NSP (PROJECT AREA) ☐ NSP (PRORATION UNIT) ☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR
2) NOTIFICATION REQUIRED TO: Check those which apply.

- A. ☒ Offset operators or lease holders
 B. ☐ Royalty, overriding royalty owners, revenue owners
 C. ☒ Application requires published notice
 D. ☒ Notification and/or concurrent approval by SLO
 E. ☐ Notification and/or concurrent approval by BLM
 F. ☒ Surface owner
 G. ☒ For all of the above, proof of notification or publication is attached, and/or,
 H. ☐ No notice required

FOR OCD ONLY

☐ Notice Complete
☐ Application
 Content
 Complete

- 3) 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.

Sarah Presley

Print or Type Name

Signature

5/13/2019

Date

432-685-7005

Phone Number

s.presley@delawareenergy.com

e-mail Address

Delaware Energy, LLC
Application for Injection/SWD
Padrino State SWD #1

MAY 20 2019 PM02:57

UL I, Sec. 32, T-20-S, R-31-E, 1,430' FSL & 210' FEL, Eddy Co., NM

May 13, 2019

Contents:

1. Administrative Application Checklist
2. Form C-108: Application for Authority to Inject
3. Form C-108 Additional Questions Answered
4. Form C-102
5. Chemical Analysis of Bone Spring Formation Water Sample
6. Chemical Analysis of Wolfcamp Formation Water Sample
7. Chemical Analysis of Delaware Formation Water Sample
8. Planned wellbore diagram for the Padrino State SWD #1
9. ~~Tabular Data on All Wells of Public Record within the Area of Review which Penetrate the Proposed Injection Zone~~ (No applicable wells)
10. Map Identifying all Wells and Leases within Two Miles of Any Proposed Injection Well with a One Mile Radius Circle Drawn Around the Proposed Injection Well
11. Sample of Letter Sent with This Application Packet to Owner of Surface of the Land on Which the Well is to be Located and to each Leasehold Operator within One Mile of the Well Location
12. Formation Tops
13. Certified Mailers
14. Seismicity Assessment
15. Carlsbad Current-ARGUS Affidavit of publication

Delaware Energy, L.L.C.
405 N. Marienfeld, Suite 200
Midland, TX 79701
Office: (432) 685-7005

May 13, 2019

Surface Owner / Offset Operators

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

Ladies and Gentlemen:

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

<u>Well:</u>	Padrino State SWD #1
<u>Proposed Disposal Zone:</u>	Devonian Formation (from 14,343' - 15,343')
<u>Location:</u>	1,430' FSL & 210' FEL, UL I, Sec. 32, T20S, R31E, Eddy Co., NM
<u>Applicants Name:</u>	Delaware Energy, L.L.C.
<u>Applicants Address:</u>	405 N. Marienfeld, Suite 200, Midland, TX 79701

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

Please call Sarah Presley with Delaware Energy, LLC if you have any questions at 432-685-7005.

Sincerely,



Sarah Presley

DISTRIBUTION LIST

Surface Owner:

State of New Mexico
310 Old Santa Fe Trail
Santa Fe NM 87501

Offset Operators/Leasehold Owners:

Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220

Occidental Permian Ltd
6001 Deauville Blvd.
Midland, TX 79706

SRBI OG NM LLC
201 Main St. #2700
Fort Worth, TX 76102

Thru Line OG NM LLC
201 Main St. #2700
Fort Worth, TX 76102

Teledyne Industries Inc.
3401 Shiloh Rd.
Garland, TX 75041

XTO Delaware Basin LLC
6401 Holiday Hill Road
Midland, TX 79707

Devon Energy Prod Co LP
333 W Sheridan Ave.
Oklahoma City, OK 73102-5010

Charles Taubman
PO Box 588
Rancho Santa Fe, CA 92067

Janice Taubman
822 Whittier
Beverly Hills, CA 90210

Louis Taubman
10 Cornell
Rancho Mirage, CA 92270

M B Taubman
822 Whittier
Beverly Hills, CA 90210

Rosalie S Taubman
3727 Miramar
Dallas, TX 75205

Ruthe S Taubman
10 Cornell
Rancho Mirage, CA 92270

L Taubman
10 Cornell
Rancho Mirage, CA 92270

L N Taubman Trust
10 Cornell
Rancho Mirage, CA 92270

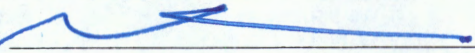
Maurine Taubman Trust
10 Cornell
Rancho Mirage, CA 92270

Robert M Taubman
96 Isabella
Atherton, CA 94025

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

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

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance XXX Disposal _____ Storage
Application qualifies for administrative approval? XX Yes _____ No
- II. OPERATOR: Delaware Energy, LLC
ADDRESS: 405 North Marienfeld, Suite 250, Midland TX 79701
CONTACT PARTY: Mike McCurdy PHONE: 432-312-5251
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? _____ Yes XXXX 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: Mike McCurdy TITLE: Vice-President
SIGNATURE:  DATE: 5/13/2019
E-MAIL ADDRESS: m.mccurdy@delawareenergy.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

INJECTION WELL DATA SHEET

OPERATOR: Delaware Energy, LLCWELL NAME & NUMBER: Padrino State SWD # 1WELL LOCATION: 1,430' FSL & 210' FEL I 32 20S 31E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATIC see attached wellbore sketchWELL CONSTRUCTION DATASurface CasingHole Size: 17-1/2" Casing Size: 13-3/8", 54.5#
Cemented with: 500 sx. or ft³
Top of Cement: surface Method Determined: Plan to CirculateIntermediate CasingHole Size: 12-1/4" Casing Size: 9-5/8", 47#, L-80
Cemented with: 2,500' sx. or ft³
Top of Cement: surface Method Determined: Plan to CirculateProduction CasingHole Size: 8-1/2" Casing Size: 7-5/8", 39#, P-110
Cemented with: 650 sx. or ft³
Top of Cement: Top of Liner Method Determined: Plan to Circulate
to liner topTotal Depth: 14,343'Injection Interval14,343' feet to 15,343'
(OPEN HOLE)

INJECTION WELL DATA SHEETTubing Size: 5.5" BTC x 5.5" Flush Joint Lining Material: Fiber GlassType of Packer: Weatherford Arrow Set IXPacker Setting Depth: 14,293'Other Type of Tubing/Casing Seal (if applicable): noneAdditional Data

1. Is this a new well drilled for injection? XXXXX Yes No
 If no, for what purpose was the well originally drilled? N/A

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

Below: none

Next Higher: Delaware 3,993' - 7,443'; Bone Springs 7,443' - 9,493'; Wolfcamp 9,493' - 11,943'; Strawn 11,943' - 12,143';
 Atoka 12,143' - 13,193'; Morrow 13,193' - 13,708'

VII.

1. Proposed average and maximum daily rate and volume of fluids to be injected;

Average 15,000-20,000 BWPD, Max 25,000 BWPD

2. Whether the system is open or closed;

Open System, Commercial SWD

3. Proposed average and maximum injection pressure;

Average 1,500-2,500 PSI, Max 2,869 PSI

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

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

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

Disposal zone produces water and no hydrocarbons, nearby Devonian test wells have only tested water in DST's. Nearby Top Gun SWD tested Sulphur water.

***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 in the Devonian formation 14,343'-15,343'. Devonian is an impermeable organic Shale at the very top (14,208 ft, Woodford Shale) 100ft thick followed by permeable lime, dolomite, and small amount of shale 1000ft thick. There are no fresh water zones underlying the proposed injection zone. Usable water depth is from surface to +/- 80', the water source is older alluvium (Quaternary). All the fresh water wells in the area have an average depth to water of 105ft per State Engineer.

IX. Describe the proposed stimulation program, if any.

60,000 gallons 20% HCL acid job with packer

X. Attach appropriate logging and test data on the well

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

XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

Attached is a water sample taken from 32.536429, -103.882097

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 Padrino State SWD #1 and have found no evidence of faults or other hydrologic connections between Devonian disposal zone and the underground sources of drinking water. Furthermore, there exist many impermeable intervals between the injection interval and the fresh ground water from the top of the Devonian Carbonate and the base of the ground water.

Mike McCurdy

Vice President

5/13/2019

Title

Date

III. WELL DATA

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

Padrino State SWD #1, Sec. 32-T20S-R31E, 1,430' FSL & 210' FEL, UL I, 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'	500	17-1/2"	Surface	CIRC
9-5/8"	9,493'	2500	12-1/4"	Surface	CIRC
7-5/8"	9,293'-14,343'	650	8-1/2"	Liner Top	CIRC & CBL

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

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

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

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

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

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

Devonian Formation

Pool Name: SWD (Devonian)

(2) The injection interval and whether it is perforated or open-hole.

14,343' to 15,343' (Open hole)

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

Well is a planned new drill for SWD

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

None, well is a planned new drill

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

Next Higher: Delaware 3,993' – 7,443'; Bone Springs 7,443' – 9,493'; Wolfcamp 9,493' – 11,943'; Strawn 11,943' – 12,143'; Atoka 12,143' – 13,193'; Morrow 13,193' – 13,708'

Next Lower: None

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-8181 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1283 Fax: (505) 748-0720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-8178 Fax: (505) 334-8176

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 478-3460 Fax: (505) 478-3462

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-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 96101	Pool Name SWD; DEVONIAN
Property Code	Property Name PADRINO STATE SWD	Well Number 1
OGRID No. 371195	Operator Name DELAWARE ENERGY	Elevation 3593'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	32	20 S	31 E		1430	SOUTH	210	EAST	EDDY

Bottom Hole Location If Different From Surface

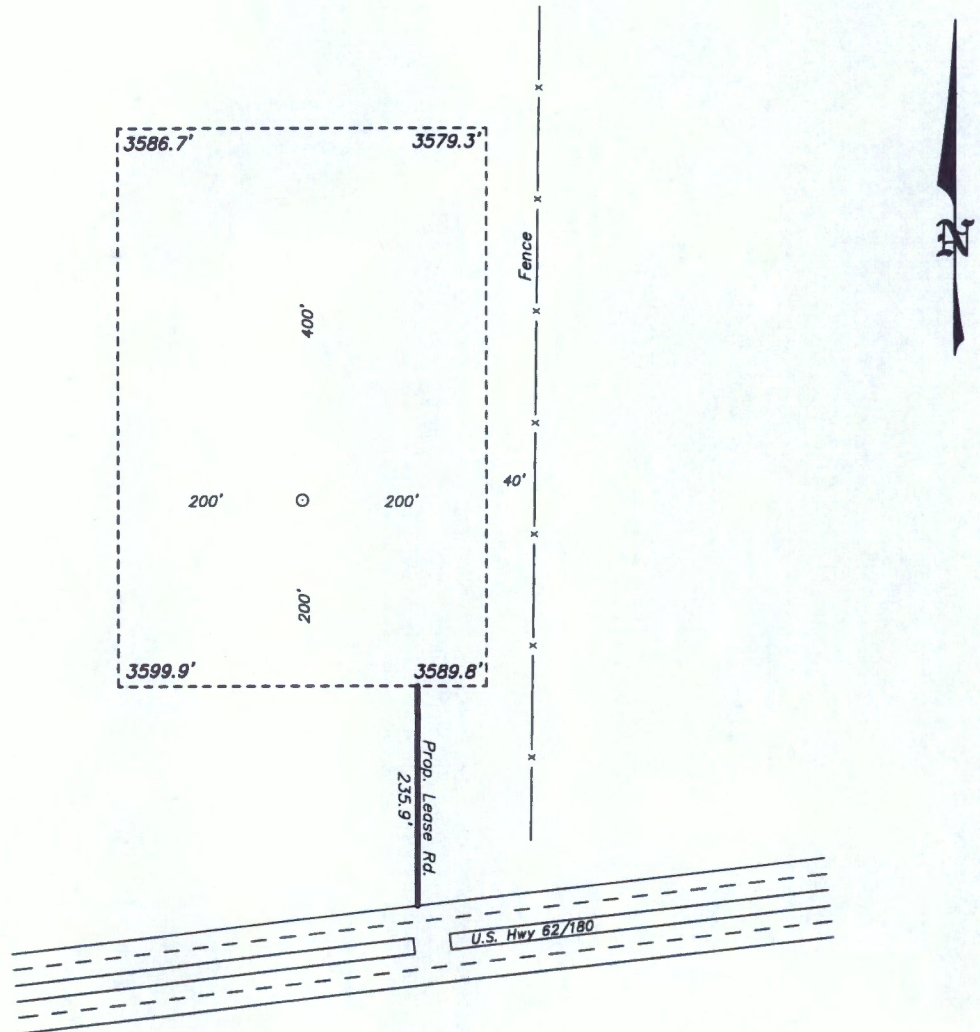
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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

N.: 559371.8 E.: 674889.5 (NAD83) N.: 558741.3 E.: 680205.1 (NAD83) N.: 554076.8 E.: 674913.7 (NAD83) N.: 554087.8 E.: 677564.7 (NAD83) N.: 554095.8 E.: 680211.9 (NAD83) SURFACE LOCATION Lat - N 32.526393° Long - W 103.883436° NMSPCE - N 555525.0 E 679998.2 (NAD-83)	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. <i>Sarah Presley</i> 5-13-19 Signature Date Sarah Presley Printed Name s.presley@delawareenergy.com Email Address
	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. MARCH 12, 2019 Date Surveyed <i>[Signature]</i> Signature & Seal of Professional Surveyor 7977 Certificate No. 7977 BASEL SURVEYS
	0' 500' 1000' 1500' 2000' SCALE: 1" = 1000' WO Num.: 34395

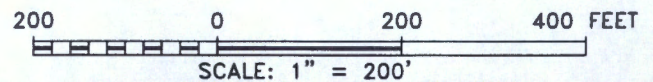
**SECTION 32, TOWNSHIP 20 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



PADRINO STATE SWD #1
ELEV. - 3593'

Lat - N 32.526393°
Long - W 103.883436°
NMSPEC - N 555525.0
E 679998.2
(NAD-83)

WHITE CITY, NM IS ±11 MILES TO THE NORTHWEST OF LOCATION.



DELAWARE ENERGY

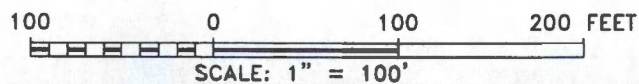
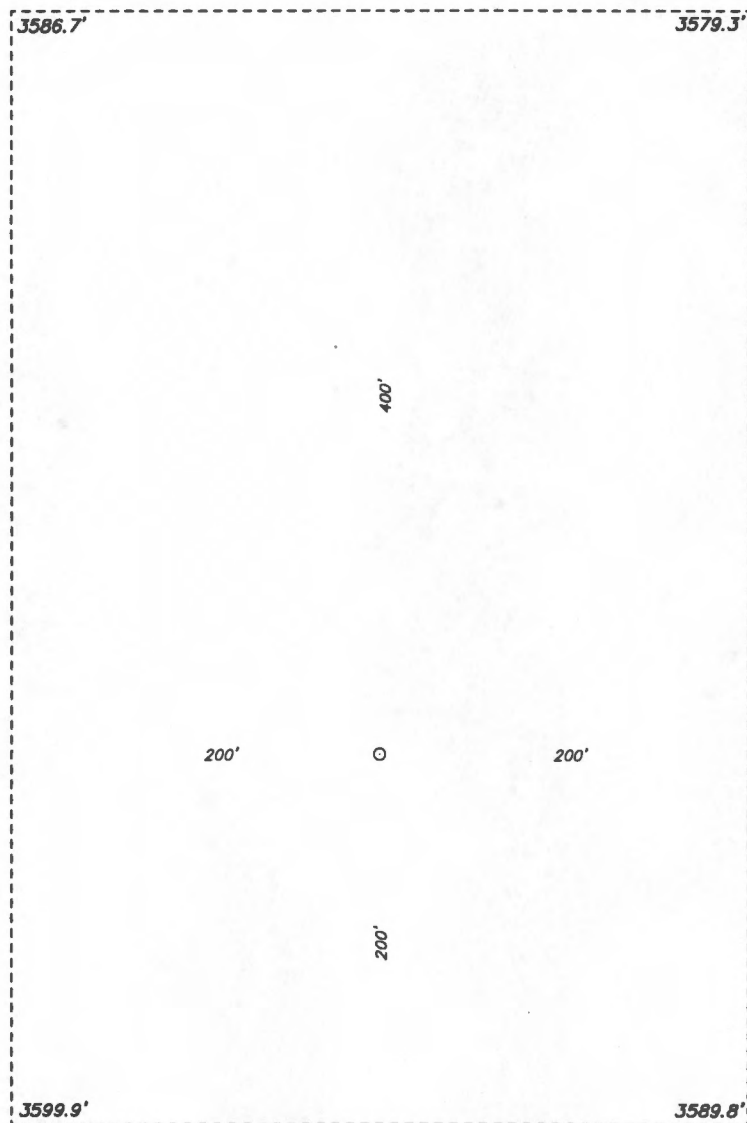
REF: PADRINO STATE SWD #1 / WELL PAD TOPO

THE PADRINO STATE SWD #1 LOCATED 1430' FROM
THE SOUTH LINE AND 210' FROM THE EAST LINE OF
SECTION 32, TOWNSHIP 20 SOUTH, RANGE 31 EAST.

N.M.P.M., EDDY COUNTY, NEW MEXICO.

P.O. Box 1786 (575) 393-7316 - Office
1120 N. West County Rd. (575) 392-2208 - Fax
Hobbs, New Mexico 88241 basin-surveys.com

**SECTION 32, TOWNSHIP 20 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



DELAWARE ENERGY

REF: PADRINO STATE SWD #1 / WELL PAD TOPO

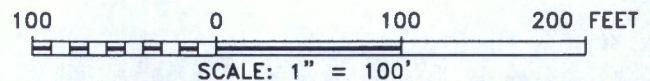
THE PADRINO STATE SWD #1 LOCATED 1430' FROM
THE SOUTH LINE AND 210' FROM THE EAST LINE OF
SECTION 32, TOWNSHIP 20 SOUTH, RANGE 31 EAST.

N.M.P.M., EDDY COUNTY, NEW MEXICO.

basin
surveys
focused on excellence
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

**SECTION 32, TOWNSHIP 20 SOUTH, RANGE 31 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



DELRWARE ENERGY

REF: PADRINO STATE SWD #1 / CUT & FILL

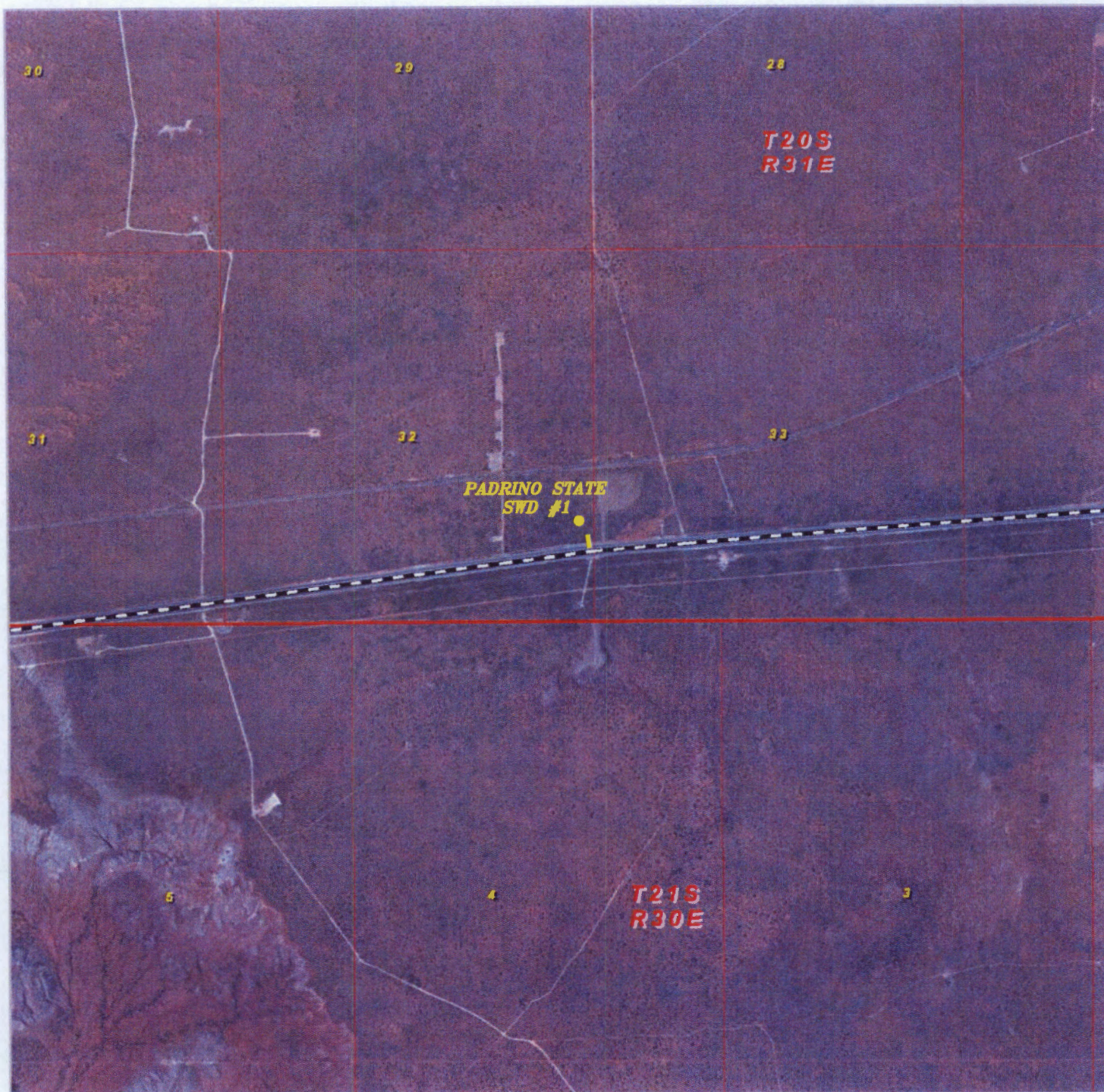
THE PADRINO STATE SWD #1 LOCATED 1430' FROM
THE SOUTH LINE AND 210' FROM THE EAST LINE OF
SECTION 32, TOWNSHIP 20 SOUTH, RANGE 31 EAST.

N.M.P.M., EDDY COUNTY, NEW MEXICO.



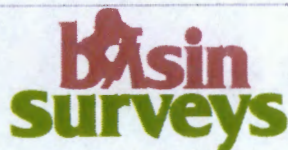
P.O. Box 1786 (575) 393-7316 - Office
1120 N. West County Rd. (575) 392-2206 - Fax
Hobbs, New Mexico 88241 basin-surveys.com

DELTARE ENERGY



PADRINO STATE SWD #1

Located 1430' FSL and 210' FEL
Section 32, Township 20 South, Range 31 East,
N.M.P.M., Eddy County, New Mexico.



focused on excellence
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

W.O. Number: KJG 34395

Survey Date: 03-11-2019

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND



**DELMWARE
ENERGY**

DELRWARE ENERGY

Sec 22, T25S, R28E

North Permian Basin Region

P.O. Box 740

Sundown, TX 79372-0740

(806) 229-8121

Lab Team Leader - Shella Hernandez

(432) 495-7240

Bone Spring

Water Analysis Report by Baker Petrolite

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

Summary		Analysis of Sample 534665 @ 75 F					
Sampling Date:	03/10/11	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	03/18/11	Chloride:	109618.0	3091.92	Sodium:	70275.7	3058.82
Analyst:	SANDRA GOMEZ	Bicarbonate:	2135.0	34.99	Magnesium:	195.0	18.04
		Carbonate:	0.0	0.	Calcium:	844.0	42.12
TDS (mg/l or g/m3):	184911.1	Sulfate:	747.0	15.55	Strontium:	220.0	5.02
Density (g/cm3, tonne/m3):	1.113	Phosphate:			Barium:	0.8	0.01
Anion/Cation Ratio:	1	Borate:			Iron:	6.5	0.23
		Silicate:			Potassium:	869.0	22.22
Carbon Dioxide:	0.50 PPM	Hydrogen Sulfide:		0 PPM	Aluminum:		
Oxygen:		pH at time of sampling:		7	Chromium:		
Comments:		pH at time of analysis:			Copper:		
		pH used in Calculation:		7	Lead:		
					Manganese:	0.100	0.
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	1.08	188.52	-1.20	0.00	-1.18	0.00	-0.11	0.00	0.58	0.29	1.72
100	0	1.10	208.05	-1.29	0.00	-1.20	0.00	-0.15	0.00	0.35	0.28	2.35
120	0	1.12	224.17	-1.36	0.00	-1.19	0.00	-0.17	0.00	0.16	0.00	3.17
140	0	1.13	243.17	-1.42	0.00	-1.18	0.00	-0.18	0.00	0.00	0.00	4.21

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

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

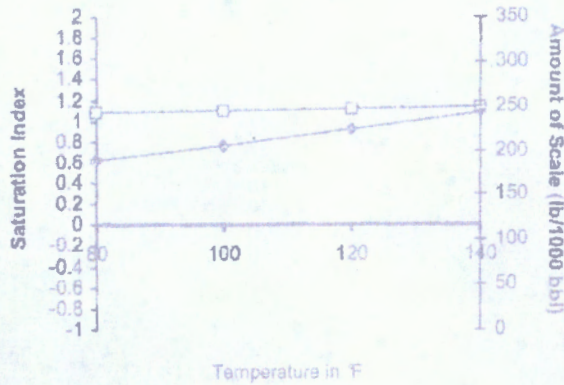
Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

Scale Predictions from Baker Petrolite

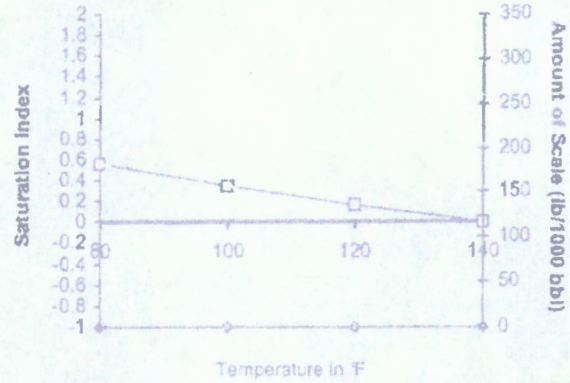
Analysis of Sample 534665 @ 75 °F for

03/18/11

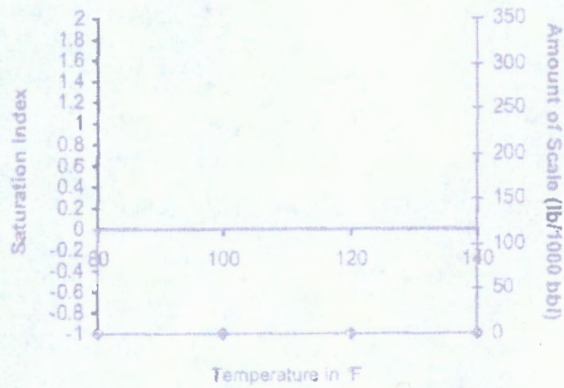
Calcite - CaCO_3



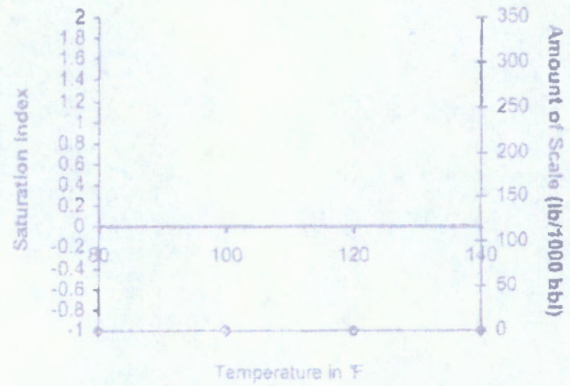
Barite - BaSO_4



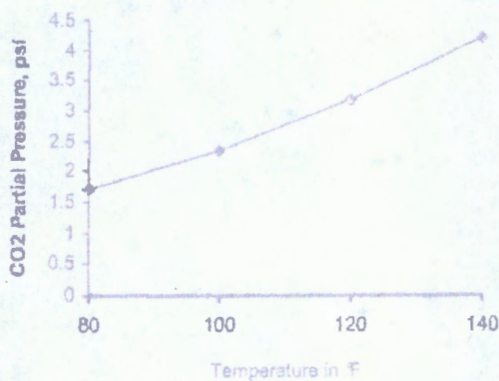
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



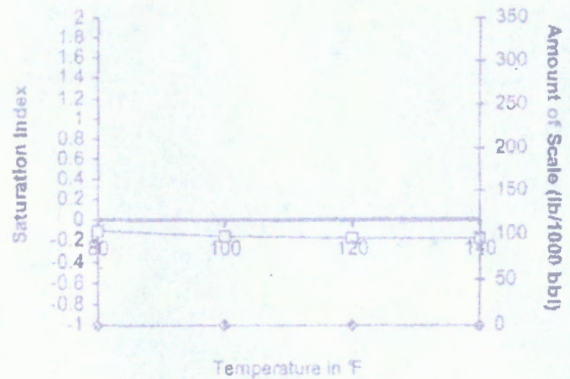
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



Wolfcamp



Water Analysis

Date: 23-Aug-11

2708 West County Road, Hobbs NM 88240

Phone (575) 392-5556 Fax (575) 392-7307

Analyzed For

Brushy Draw 1#1

Company	Well Name	County	State
	BD	Lea	New Mexico

Sample Source

Swab Sample

Sample #

Eddy

1-265-295

1

Formation

Depth

Specific Gravity	1.170	SG @ 60 °F	1.172
pH	6.30	Sulfides	Absent
Temperature (°F)	70	Reducing Agents	

Cations

Sodium (Calc)	in Mg/L	77,962	in PPM	66,520
Calcium	in Mg/L	4,000	in PPM	3,413
Magnesium	in Mg/L	1,200	in PPM	1,024
Soluble Iron (FE2)	in Mg/L	10.0	in PPM	9

Anions

Chlorides	in Mg/L	130,000	in PPM	110,922
Sulfates	in Mg/L	250	in PPM	213
Bicarbonates	in Mg/L	127	in PPM	108

Total Hardness (as CaCO3)	in Mg/L	15,000	in PPM	12,799
Total Dissolved Solids (Calc)	in Mg/L	213,549	in PPM	182,209
Equivalent NaCl Concentration	in Mg/L	182,868	in PPM	156,031

Scaling Tendencies

*Calcium Carbonate Index 507,520

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index 1,000,000

Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks

RW=.048@70F

Report #

3188

See 16, T23S R 28E



PRODUCTION DEPARTMENT

MILLER CHEMICALS, INC.

Post Office Box 298
Artesia, N.M. 88211-0298
(505) 746-1919 Artesia Office
(505) 392-2893 Hobbs Office
(505) 746-1918 Fax
mci@plateautel.net

Delaware Brushy Canyon

WATER ANALYSIS REPORT

Company :
Address :
Lease : LOVING "AIB"
Well : #15
Sample Pt. : WELLHEAD

Date : MARCH 17, 2008
Date Sampled : MARCH 17, 2008
Analysis No. :

ANALYSIS		mg/L	* meq/L
1. pH	6.0		
2. H2S	0		
3. Specific Gravity	1.070		
4. Total Dissolved Solids		304684.9	
5. Suspended Solids		NR	
6. Dissolved Oxygen		NR	
7. Dissolved CO2		NR	
8. Oil In Water		NR	
9. Phenolphthalein Alkalinity (CaCO3)			
10. Methyl Orange Alkalinity (CaCO3)			
11. Bicarbonate	HCO3	927.0	HCO3 15.2
12. Chloride	Cl	187440.0	Cl 5287.4
13. Sulfate	SO4	500.0	SO4 10.4
14. Calcium	Ca	37200.0	Ca 1856.3
15. Magnesium	Mg	996.3	Mg 82.0
16. Sodium (calculated)	Na	77586.6	Na 3374.8
17. Iron	Fe	35.0	
18. Barium	Ba	NR	
19. Strontium	Sr	NR	
20. Total Hardness (CaCO3)		97000.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
1856 *Ca <----- *HCO3 15	Ca (HCO3)2	81.0	15.2 1231
/-----> -----	CaSO4	68.1	10.4 709
82 *Mg -----> *SO4 10	CaCl2	55.5	1830.7 101584
<-----/ -----	Mg (HCO3)2	73.2	
3375 *Na -----> *Cl 5287	MgSO4	60.2	
/-----> -----	MgCl2	47.6	82.0 3902
Saturation Values Dist. Water 20 C	NaHCO3	84.0	
CaCO3 13 mg/L	Na2SO4	71.0	
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	3374.8 197223
BaSO4 2.4 mg/L			

REMARKS:



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

Water Analysis

Code	214945		
Client Information		Sample Information	
Delaware Energy		Lease/Well:	Padrino St/1 SWD
County:	Eddy	Sample Point:	Stock Tank
		Date Sampled:	04/23/2019
Rep:	Derrick Boutwell	Date Reported:	04/25/2019

Results

Cations

Ion	Concentration(mg/L)
Barium (as Ba)	0
Calcium (as Ca)	44
Iron (as Fe)	0
Sodium (as Na)	27
Magnesium (as Mg)	5

Other Measurements

Measurement	Value
pH	8.27
SG	1.000
Turbidity	17
CO ₂	
Total Dissolved Solids	256.000

Anions

Ion	Concentration(mg/L)
Chlorides (as Cl)	66
Sulfate (as SO ₄)	16
Carbonate (as CO ₃)	0
Bicarbonates (as HCO ₃)	98
Sulfide (as S ²⁻)	0

Scaling Indices

Temp(F)	CaCO ₃	CaSO ₄ *2H ₂ O	CaSO ₄	BaSO ₄
80	0.5170	0.0000	0.0000	-27.3966
120	0.8167	0.0000	0.0000	-27.6024
160	1.1359	0.0000	0.0000	-27.7070
200	1.4256	0.0000	0.0000	-27.7533
250	1.6989	0.0000	0.0000	-27.7921

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

Comments

32.536429, -103.882097

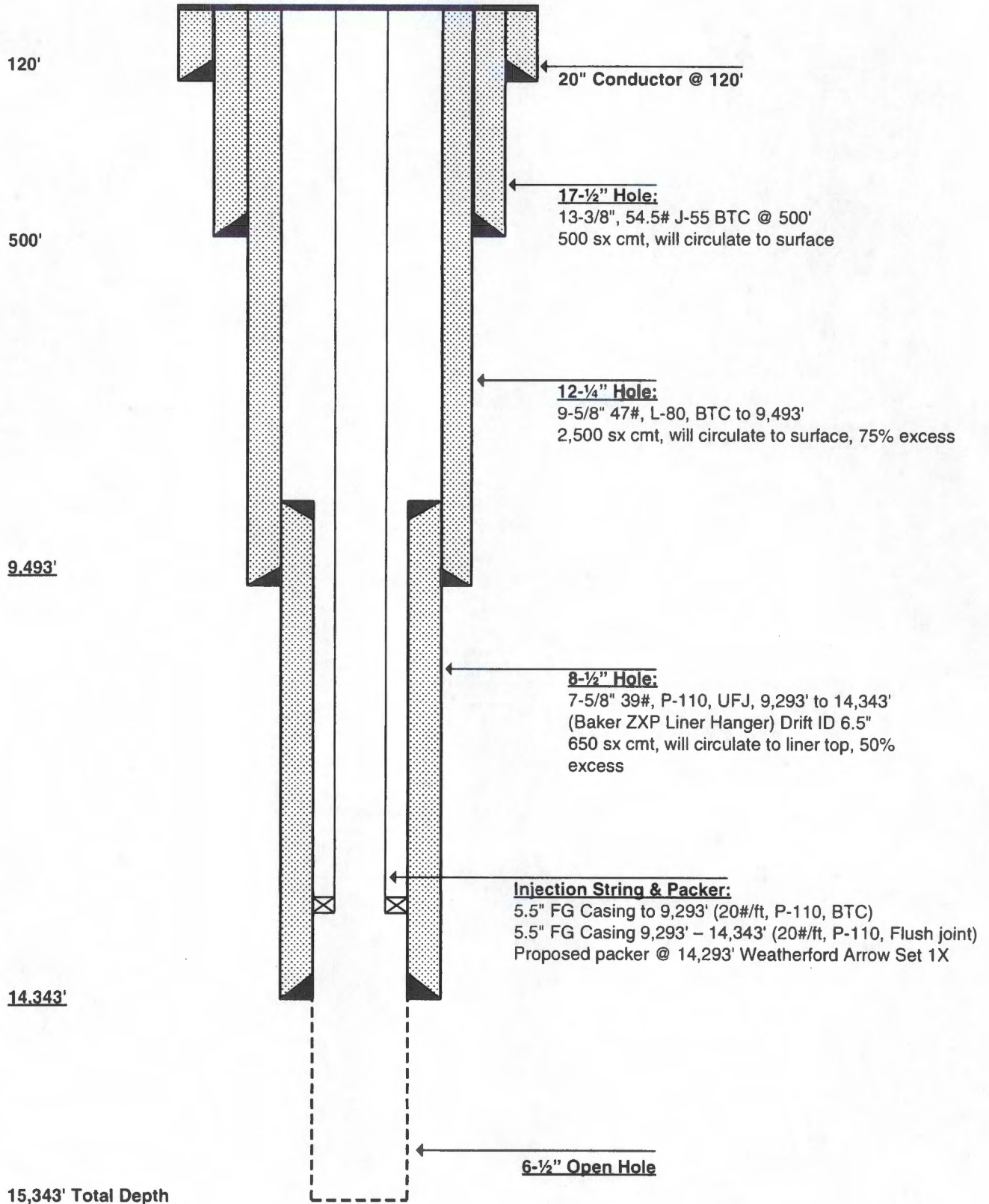
Padrino State SWD # 1

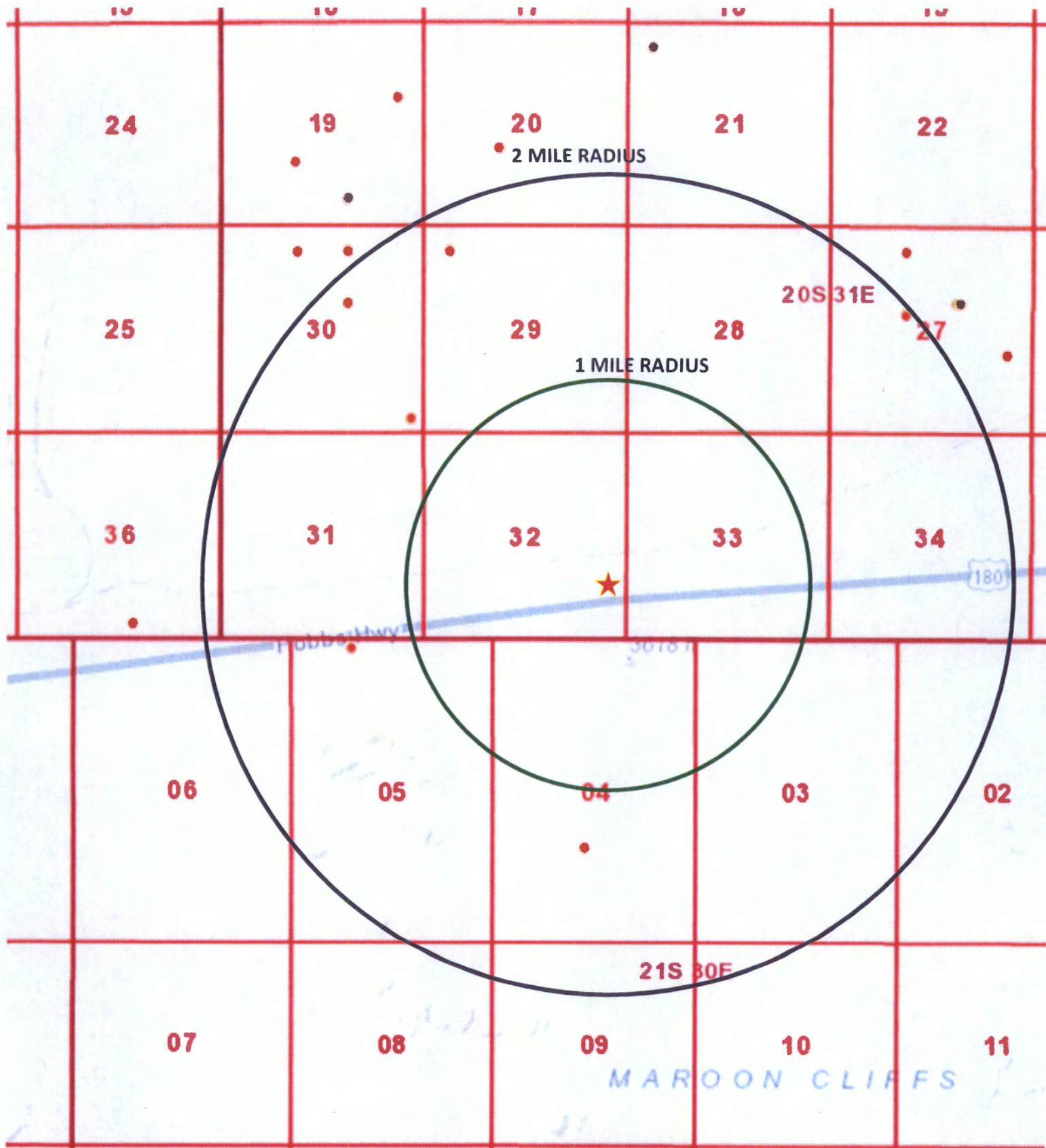
API # PENDING
1,430' FSL & 210' FEL, Sec. 32, T20S, R31E, UL "I"
EDDY COUNTY, NEW MEXICO

ELEVATION:

GL: 3,593'

PROPOSED WELLBORE

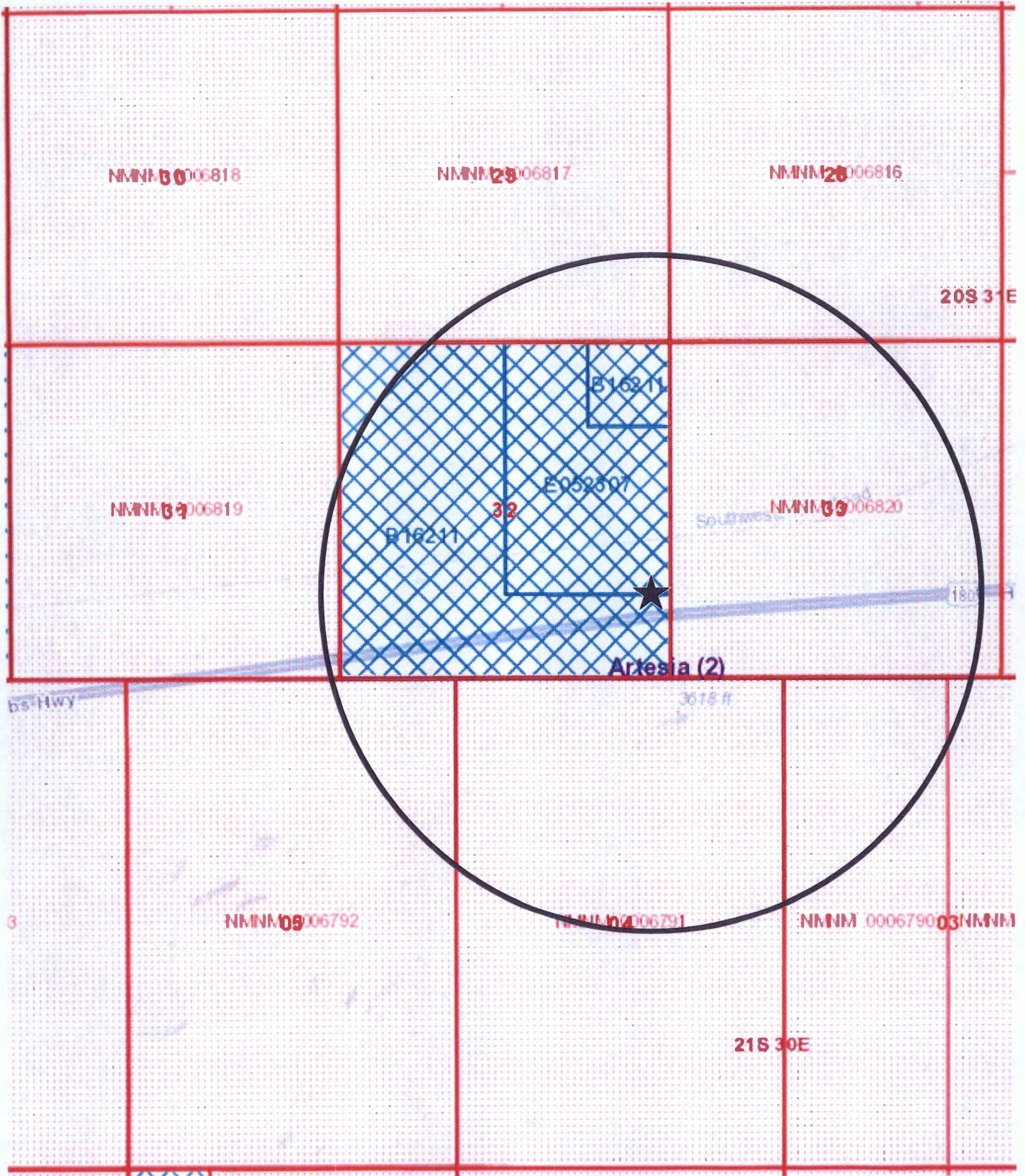




WELLS – ONE MILE RADIUS

NO WELLS PENETRATE THE DEVONIAN FORMATION IN THE AOR

 **SECTION 32-T20S-R31E**
Padrino State SWD #1
(Proposed Location)
Delaware Energy, LLC



LEASES – ONE MILE RADIUS

★ **Padrino State SWD #1**
Sec. 32-T20S-R31E
Eddy Co. NM

Padrino State SWD #1
LEASES – ONE MILE RADIUS

Section 3, T21S-R30E

Federal Leases (NMNM 0006790 & NMNM 0000299A)

- **SRBI OG NM LLC (Lessee)**
201 Main St. #2700
Fort Worth, TX 76102
- **Thru Line OG NM LLC (Lessee)**
201 Main St. #2700
Fort Worth, TX 76102
- **Bureau of Land Management**
620 E. Greene Street
Carlsbad, NM 88220

Section 4, T21S-R30E

Federal Lease (NMNM 0006791)

- **SRBI OG NM LLC (Lessee)**
201 Main St. #2700
Fort Worth, TX 76102
- **Thru Line OG NM LLC (Lessee)**
201 Main St. #2700
Fort Worth, TX 76102
- **Bureau of Land Management**
620 E. Greene Street
Carlsbad, NM 88220

Section 5, T21S-R30E

Federal Lease (NMNM 0006792)

- **SRBI OG NM LLC (Lessee)**
201 Main St. #2700
Fort Worth, TX 76102
- **Thru Line OG NM LLC (Lessee)**
201 Main St. #2700
Fort Worth, TX 76102

- **Occidental Permian Ltd (Lessee)**
6001 Deauville Blvd.
Midland, TX 79706
- **Bureau of Land Management**
620 E. Greene Street
Carlsbad, NM 88220

Section 28, T20S-R31E

Federal Lease (NMNM 0006816)

- **Occidental Permian Ltd (Lessee)**
6001 Deauville Blvd.
Midland, TX 79706
- **Bureau of Land Management**
620 E. Greene Street
Carlsbad, NM 88220

Section 29, T20S-R31E

Federal Lease (NMNM 0006817)

- **Teledyne Industries Inc. (Lessee)**
3401 Shiloh Rd.
Garland, TX 75041
- **Bureau of Land Management**
620 E. Greene Street
Carlsbad, NM 88220

Section 31, T20S-R31E

Federal Lease (NMNM 0006819)

- **Thru Line OG NM LLC (Lessee)**
201 Main St. #2700
Fort Worth, TX 76102
- **Devon Energy Prod Co LP (Lessee)**
333 W Sheridan Ave.
Oklahoma City, OK 73102-5010
- **Bureau of Land Management**
620 E. Greene Street
Carlsbad, NM 88220

Section 32, T20S-R31E

State Lease

- **Occidental Permian Ltd (Lessee)**
6001 Deauville Blvd.
Midland, TX 79706
- **XTO Delaware Basin LLC (Lessee)**
6401 Holiday Hill Road
Midland, TX 79707

Section 33, T20S-R31E

Federal Lease (NMNM 0006820)

- **Charles Taubman (Lessee)**
PO Box 588
Rancho Santa Fe, CA 92067
- **Janice Taubman**
822 Whittier
Beverly Hills, CA 90210
- **Louis Taubman**
10 Cornell Dr.
Rancho Mirage, CA 92270
- **M B Taubman**
822 Whittier Dr.
Beverly Hills, CA 90210
- **Rosalie S Taubman**
3727 Miramar
Dallas, TX 75205
- **Ruthe S Taubman**
10 Cornell Dr.
Rancho Mirage, CA 92270
- **L Taubman**
10 Cornell Dr.
Rancho Mirage, CA 92270
- **L N Taubman Trust**
10 Cornell Dr.
Rancho Mirage, CA 92270

- **Maurine Taubman Trust**
10 Cornell
Rancho Mirage, CA 92270
- **Robert M Taubman**
96 Isabella
Atherton, CA 94025
- **Bureau of Land Management**
620 E. Greene Street
Carlsbad, NM 88220

Padrino State SWD #1

Location: 1,430' FSL & 210' FEL

Sec. 32, T-20-S, R-31-E

Estimated Pre-Drill Formation Tops

Top of Salt	593'
Base Salt	3,943'
Delaware Mountain Group	3,993'
Bone Spring/Abo	7,443'
Wolfcamp	9,493'
Strawn	11,943'
Atoka	12,143'
Morrow	13,193'
Mississippian	13,708'
Woodford	14,208'
Devonian	14,343'

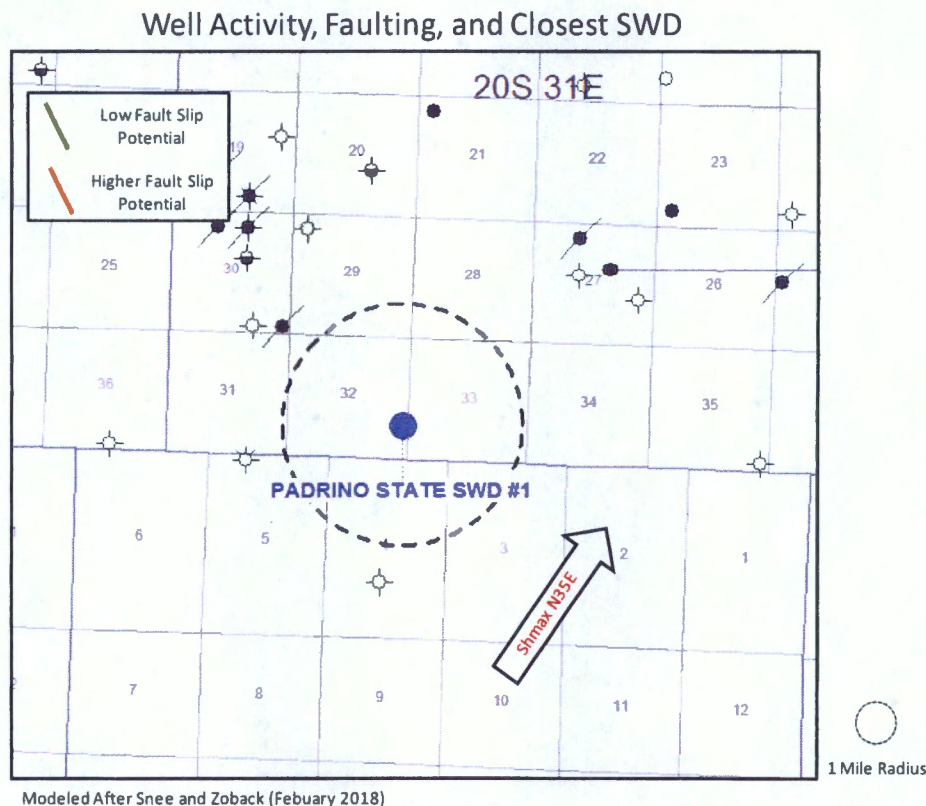
Statement Regarding Seismicity and Well Location (Padrino State SWD #1)

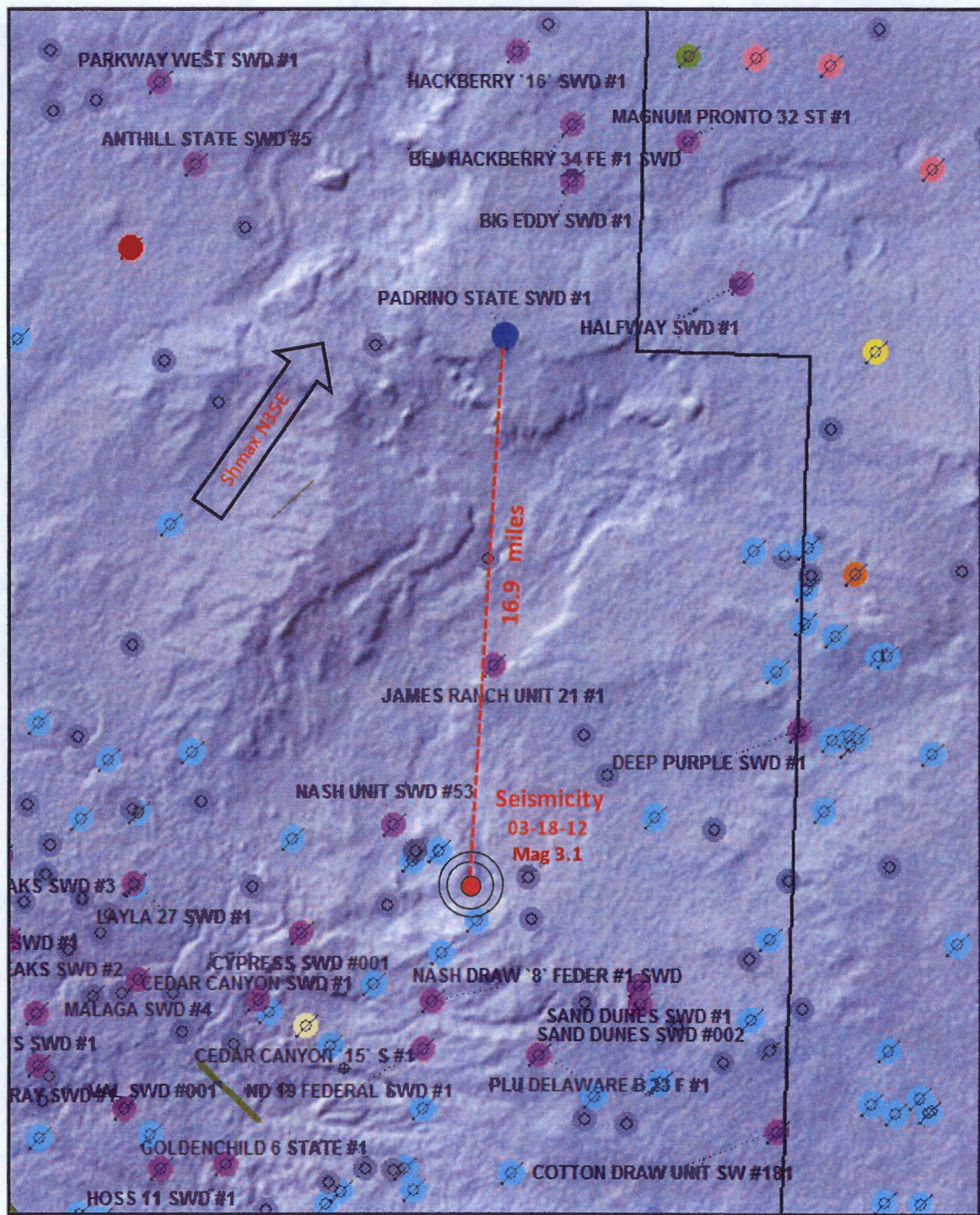
Historically, the area near the proposed Padrino State SWD #1 has not seen any major seismic activity. There has been one seismic event (as per public data available on the USGS database) which is 19.6 miles south of the proposed SWD location which measured 3.1 on March 18, 2012.

Delaware Energy does not own 2D or 3D seismic data near the proposed SWD location therefore the fault interpretations are based on data obtained from the USGS New Mexico Faults Database (2005) and other published data. Based on these sources the closest faults would be approximately 23 miles southwest of the location. A recent technical paper written by Snee and Zoback, "State of Stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity", was published in the February 2018 edition of The Leading Edge. The study evaluates the strike-slip probability of known faults using FSP analysis. The study predicts that the NW-SE trending faults in the area (green) should have a very low probability of being critically stressed resulting in an induced seismicity event. The SW-NE trending faults in the area (orange) would have a higher probability of being critically stressed, resulting in potential slip, due to the relationship of the strike of the fault and the regional Shmax orientation (approx. N 35 deg E) in the area. No documented seismicity associated with either of these fault sets has been found in the public domain for this area. The position of any other fault relative to the proposed location, and depth of the target formation, is unknown.

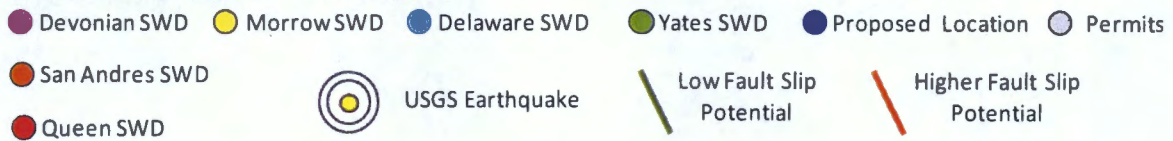
The proposed Padrino State SWD #1 is located well away from the nearest active Devonian or other SWD wells (see map below). The well should meet current OCD and Industry recommended practices.

Kevin J. Schepel
Petrophysical Advisor
kevin.schepel@att.net
214-212-6540





Modeled After Snee and Zoback (February 2018)



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

CARLSBAD
CURRENT-ARGUS

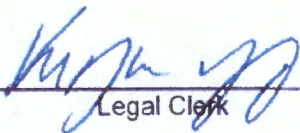
AFFIDAVIT OF PUBLICATION

Ad No.
0001282813

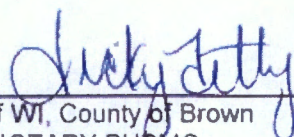
DELAWARE ENERGY, L.L.C.
405 N. MARIENFELD
SUITE 250
MIDLAND TX 79701

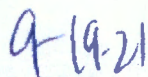
I, a legal clerk of the **Carlsbad Current-Argus**,
a newspaper published daily at the City of
Carlsbad, in said county of Eddy, state of New
Mexico and of general paid circulation in said
county; that the same is a duly qualified
newspaper under the laws of the State wherein
legal notices and advertisements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

04/10/19


Legal Clerk

Subscribed and sworn before me this
10th of April 2019.


State of WI, County of Brown
NOTARY PUBLIC


My Commission Expires

LEGAL NOTICE

Delaware Energy, L.L.C., 405 N. Marienfeld St.
Suite 200, Midland, TX 79701, has filed a form
C-108 (Application for Authorization to Inject)
with the Oil Conservation Division seeking ad-
ministrative approval to drill the Padrino State
SWD #1 as a Commercial Salt Water Disposal
well.

The Padrino State SWD #1 is located at 1,430'
FSL and 210' FEL, Unit Letter I, Section 32,
Township 20 South, Range 31 East, Eddy Coun-
ty, New Mexico. The well will dispose of water
produced from oil and gas wells into the Dev-
onian Formation from 14,343' to 15,343' at a
maximum rate of 25,000 barrels of water per
day at a maximum pressure of 2,869 psi.

Interested parties must file objections or re-
quests 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 con-
tacting Delaware Energy, L.L.C., at
(432) 685-7005.

Pub: April 10, 2019 #1282813

Ad#:0001282813
P O : Padrino State
of Affidavits 0.00



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MAY 14 2019

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Charles Taubman
Street and Apt. No., or PO Box No.
P.O. Box 588

City, State, ZIP+4®
Rancho Santa Fe, Ca 92067

PS Form 3800, April 2015 PSN 7530-02-000-9047

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Janice Taubman
Street and Apt. No., or PO Box No.
822 N. Whittier Dr.

City, State, ZIP+4®
Beverly Hills, CA 90210

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MAY 14 2019

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L Taubman
Street and Apt. No., or PO Box No.
10 Cornell Dr.

City, State, ZIP+4®
Rancho Mirage, CA 92270

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SWD #1
Postmark
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MAY 14 2019

Postage
\$
Total Postage and Fees
\$

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Bureau of Land Management
Street and Apt. No., or PO Box No.

City, State, ZIP+4®
620 E. Greene Street
Carlsbad, NM 88220

PS Form 3800, April 2015 PSN 7530-02-000-9047

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☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Padrino State
SWD #1
Postmark
Here

MAY 14 2019

Postage
\$
Total Postage and Fees
\$

Sent To
Devon Energy Production Co. LP
Street and Apt. No., or PO Box No.
333 West Sheridan Ave.

City, State, ZIP+4®
Oklahoma City, OK 73102

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions

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City, State, ZIP+4®
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City, State, ZIP+4®
Garland, TX 75041

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City, State, ZIP+4®
Midland, TX 79707

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New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, NM 87501

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