

Initial Application Part I

*This application is placed in file for record. It MAY or MAY NOT have been
reviewed to be determined Administratively Complete*

Revised March 23, 2017

RECEIVED: 4/12/2019	REVIEWER:	TYPE: SWD	APP NO: DMAM19102 56102
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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: Speedy 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

4/3/2019

Date

432-685-7005

Phone Number

s.presley@delawareenergy.com

e-mail Address

Delaware Energy, LLC
Application for Injection/SWD
Speedy SWD #1

APR 12 2019 PM01:57

UL P, Sec. 36, T-24-S, R-36-E, 268' FSL & 595' FEL, Lea Co., NM

April 3, 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 Devonian Formation Water Sample
6. Chemical Analysis of Bone Spring Formation Water Sample
7. Chemical Analysis of Delaware Formation Water Sample
8. Planned wellbore diagram for the Speedy 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

April 4, 2019

Surface Owner / Offset Operators

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

Ladies and Gentlemen:

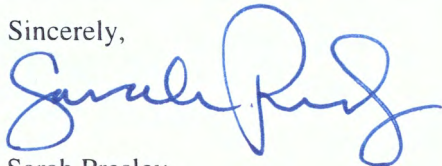
Delaware Energy, LLC is seeking administrative approval to utilize the proposed Speedy SWD #1 as a commercial Salt Water Disposal well. As required by the New Mexico Oil Conservation Division Rules, we are notifying you of the following proposed salt water disposal well. This letter is a notice only.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

<u>Well:</u>	Speedy SWD #1
<u>Proposed Disposal Zone:</u>	Devonian Formation (from 9,991' - 10,991')
<u>Location:</u>	268' FSL & 595' FEL, UL P, Sec. 36, T24S, R36E, Lea 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:

EV Properties, LP
1001 Fannin, Ste 800
Houston, TX 77002

Oxy USA, Inc
PO Box 50250
Midland, TX 79710

Ares Production Co/Sam D Ares
PO Box 1628
Odessa, TX 79760

Herman L Loeb, LLC
10760 Country Club Rd.
Lawrenceville, IL 62439

Sabre Operating, Inc
2663 Plaza Pkwy
Wichita Falls, TX 76308

Special Energy Corp
4815 S Perkins Rd
Stillwater, OK 74074

Enervest Operating, LLC
1001 Fannin St. Suite 800
Houston, TX 77002

Lanexco Inc.
310 W Wall St. #910
Midland, TX 79701

ZPZ Delaware I, LLC
2000 Post Oak Blvd
Suite 100
Houston, TX 77056

Conoco Phillips Co
3300 N A St # 6-100
Midland, TX 79705

Citation Oil & Gas Corp
2609 S County Rd 1242
Midland, TX 79706

Pogo Oil & Gas Operating, Inc
1515 W. Calle Sur, Suite 174
Hobbs, NM 88240

Petroleum Exploration Co. LTD
PO Box 548
Breckenridge, TX 76424

Chevron USA, Inc
6301 Deauville
Midland, TX 79706-2964

Penroc Oil Corp
PO Box 2769
Hobbs, NM 88241

Apache Corp.
303 Veterans Airpark Ln
Midland, TX 79705

Prime Operating Co.
3300 North A Street #1-238
Midland, TX 79705

Naumann Oil & Gas
203 W Wall St. Suite 440
Midland, TX 79701

Mark L Shidler, Inc
1313 Campbell Ct # D
Houston, TX 77055

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: _____ 4/3/2019 _____
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: Speedy SWD # 1WELL LOCATION: 268' FSL & 595' FEL P 36 SECTION 24S TOWNSHIP 36E RANGEWELLBORE SCHEMATIC see attached wellbore sketchWELL CONSTRUCTION DATASurface Casing

Hole 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 Circulate

Intermediate Casing

Hole 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 Circulate

Production Casing

Hole Size: 8-1/2" Casing Size: 7-5/8", 39#, P-110

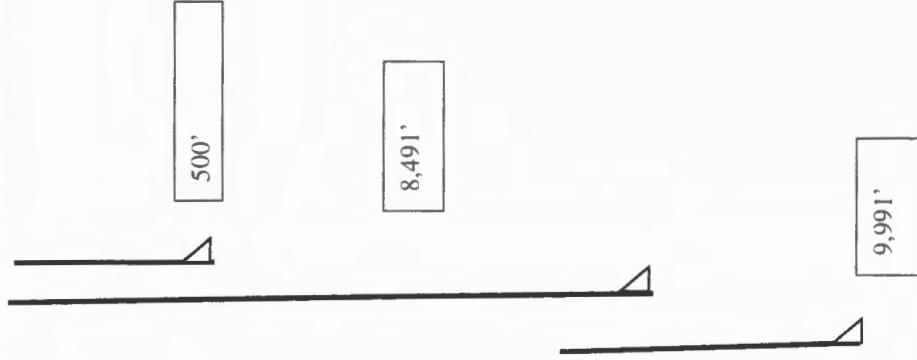
Cemented with: 650 sx. or ft³

Top of Cement: Top of Liner Method Determined: Plan to Circulate to liner top

Total Depth: 9,991'Injection Interval

9,991' feet to 10,991'

(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: 9,941'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 5,591' - 7,841'; Bone Springs 7,841' - 8,491'; Wolfcamp 8,491' - 13,453'; Strawn 13,435' - 13,728';
 Atoka 13,728' - 14,318'; Morrow 14,318' - 15,508'

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 1,998 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.).

See attached Lea County Devonian water samples.

***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 9,991'-10,991'. Devonian is an impermeable organic Shale at the very top (9,641' 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 +/- 100', the water source is older alluvium (Quaternary). All the fresh water wells in the area have an average depth to water of 100ft 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 32.17437, -103.19399

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

Mike McCurdy

Vice President

4/3/2019

Title

Date

III. WELL DATA

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

Speedy SWD #1, Sec. 36-T24S-R36E, 268' FSL & 595' FEL, UL P, Lea County, New Mexico

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

Casing Size	Setting Depth	Sacks of Cement	Hole Size	Top of Cement	Determined
13-3/8"	500'	500	17-1/2"	Surface	CIRC
9-5/8"	8,491'	2500	12-1/4"	Surface	CIRC
7-5/8"	8,291'-9,991'	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.

9,991' to 10,991' (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 5,591' – 7,841'; Bone Springs 7,841' – 8,491'; Wolfcamp 8,491' – 13,453'; Strawn 13,435' – 13,728'; Atoka 13,728' – 14,318'; Morrow 14,318' – 15,508'

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) 334-8170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3480 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 96101	Pool Name SWD; DEVONIAN
Property Code	Property Name SPEEDY SWD	Well Number 1
OGRID No. 371195	Operator Name DELAWARE ENERGY	Elevation 3241

Surface Location

UL or lot No. P	Section 36	Township 24 S	Range 36 E	Lot Idn	Feet from the 268	North/South line SOUTH	Feet from the 595	East/West line EAST	County LEA
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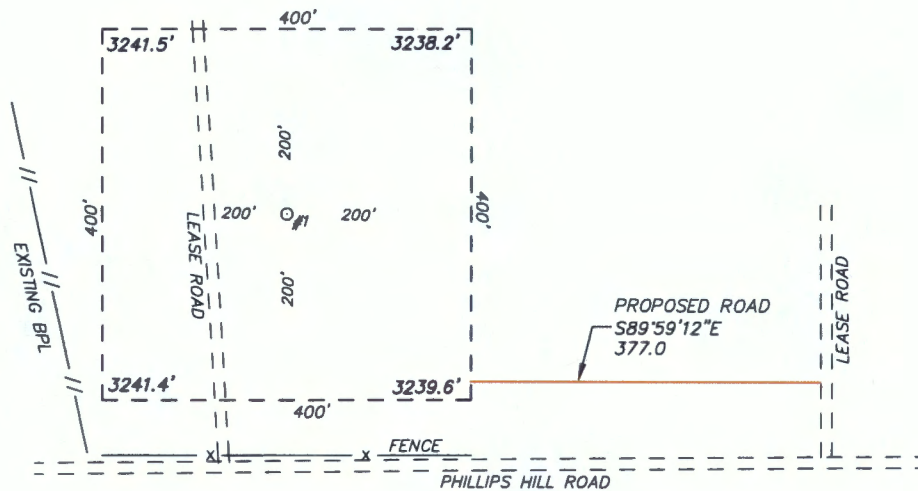
Bottom Hole Location If Different From Surface

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

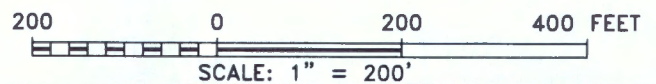
		OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to 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 Date 4.3.19	
		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. OCTOBER 30 2018 Date Surveyed Signature of Professional Surveyor Professional Surveyor 7977 Certificate of Gary L. Jones 7977 BASIC SURVEYOR	
SURFACE LOCATION Lat - N 32.167346° Long - W 103.212161° NMSPC- N 426423.2 E 888264.9 (NAD-83) N. 426112.5 E. 883583.4 (NAD83) N. 426138.1 E. 888222.2 (NAD83) N. 426160.6 E. 888862.5 (NAD83)			

**SECTION 36, TOWNSHIP 24 SOUTH, RANGE 36 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



SPEEDY SWD #1
ELEV. - 3241'
 Lat - N 32.167346°
 Long - W 103.212161°
 NMSPCE- N 426423.2
 E 888264.9
 (NAD-83)

JAL, NM IS ± 4 MILES TO THE SOUTHEAST OF LOCATION.



DELMARE ENERGY

REF: SPEEDY SWD #1 / WELL PAD TOPO

THE SPEEDY SWD #1 LOCATED 268' FROM
 THE SOUTH LINE AND 595' FROM THE EAST LINE OF
 SECTION 36, TOWNSHIP 24 SOUTH, RANGE 36 EAST.

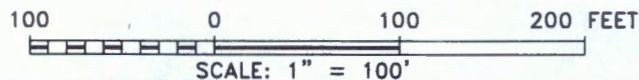
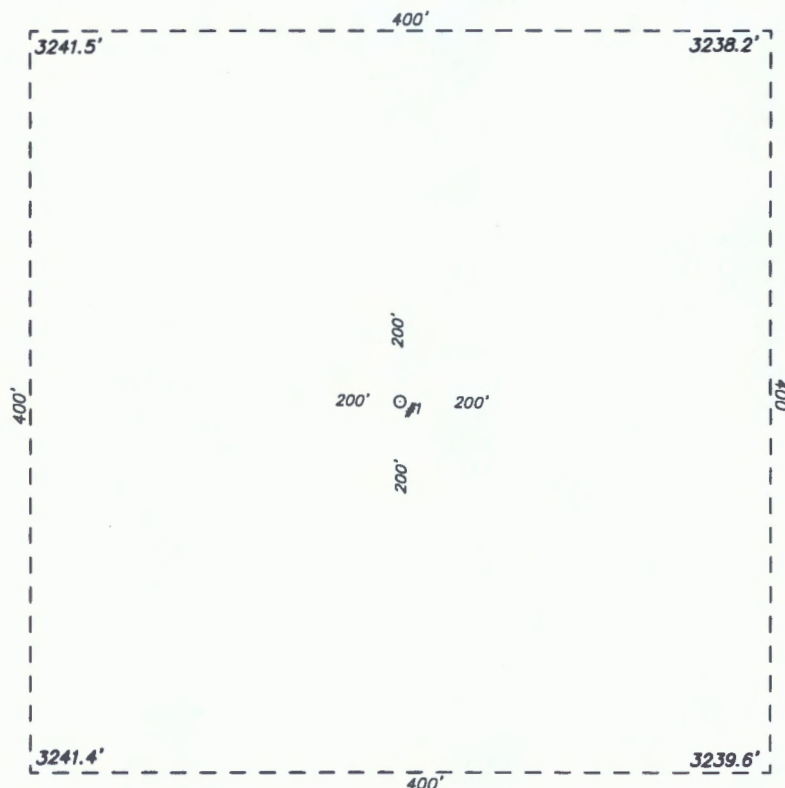
N.M.P.M., LEA COUNTY, NEW MEXICO.



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

W.O. Number: 34169	Drawn By: J GOAD	Date: 11-6-2018	Survey Date: 10-30-2018	Sheet 1 of 1 Sheets
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**SECTION 36, TOWNSHIP 24 SOUTH, RANGE 36 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



DELMWARE ENERGY

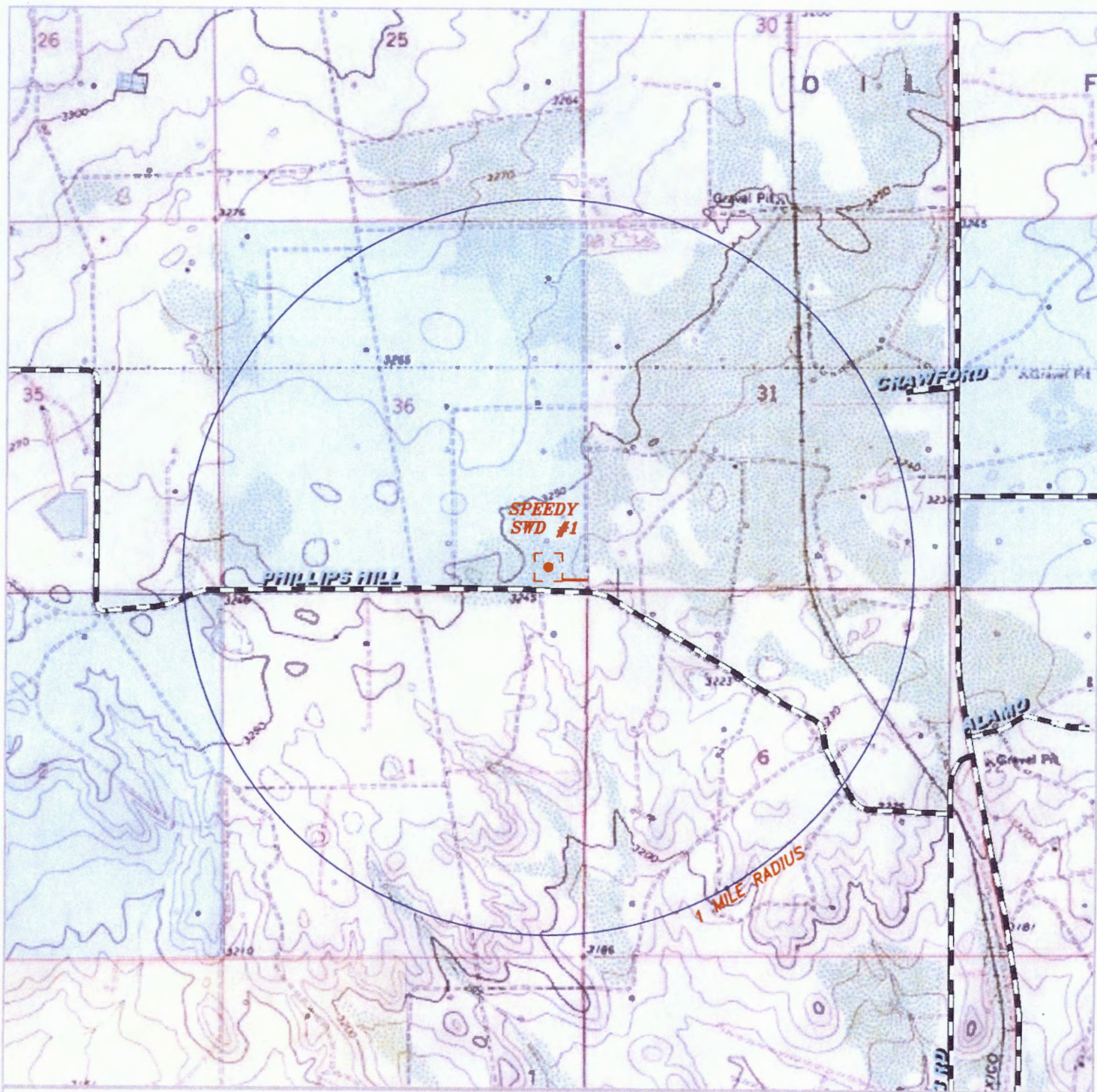
REF: SPEEDY SWD #1 / WELL PAD TOPO

THE SPEEDY SWD #1 LOCATED 268' FROM
THE SOUTH LINE AND 595' FROM THE EAST LINE OF
SECTION 36, TOWNSHIP 24 SOUTH, RANGE 36 EAST.

N.M.P.M., LEA 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) 392-2208 - Fax
basinsurveys.com



SPEEDY SWD #1

Located 268' FSL and 595' FEL
 Section 36, Township 24 South, Range 36 East,
 N.M.P.M., Lea 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
 basin-surveys.com

0' 1000' 2000' 3000' 4000'
 SCALE: 1" = 2000'

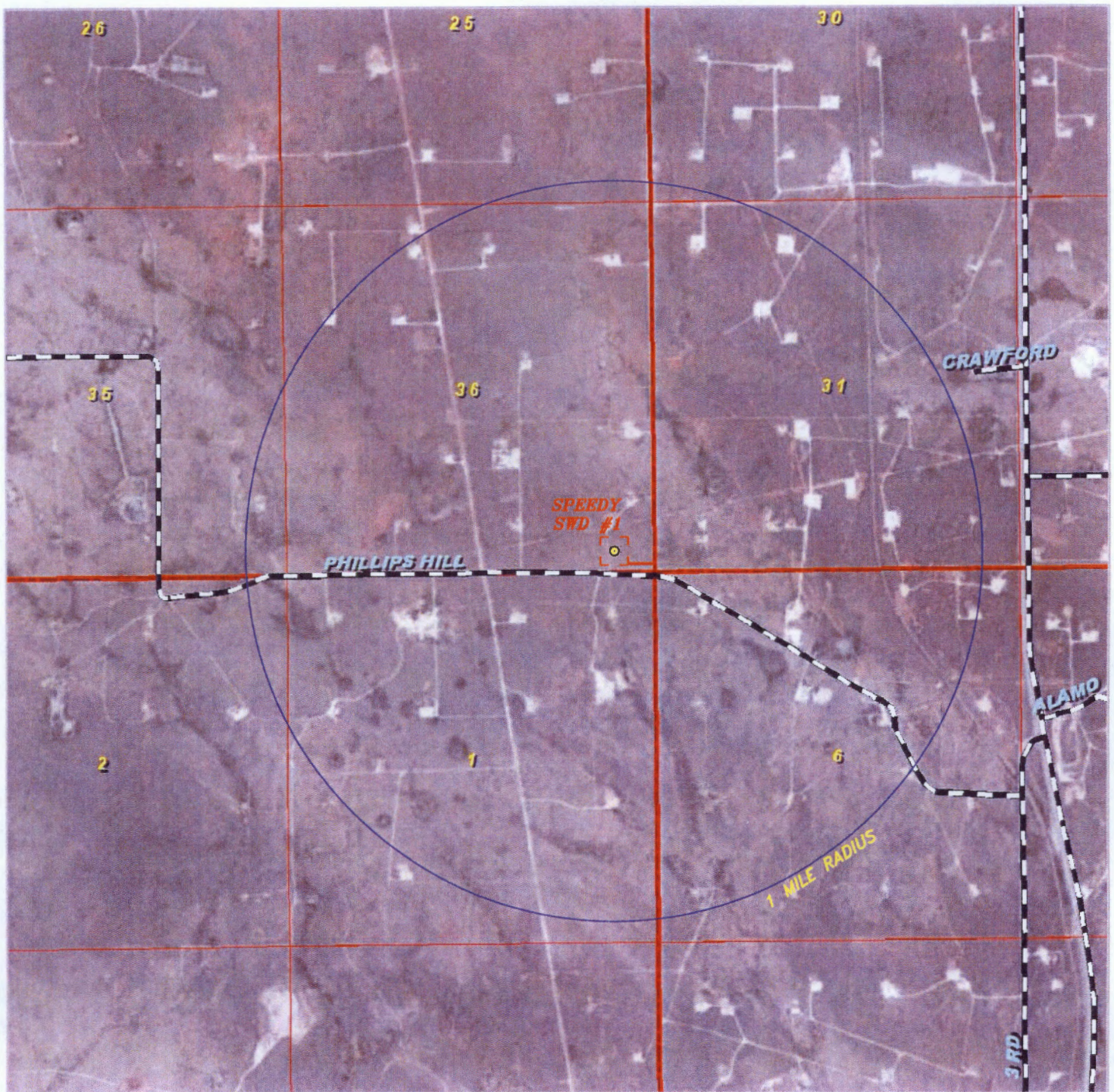
W.O. Number JG 34169

Survey Date: 10-30-2018

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



DELTWARE
ENERGY



SPEEDY SWD #1

Located 268' FSL and 595' FEL
 Section 36, Township 24 South, Range 36 East,
 N.M.P.M., Lea County, New Mexico.

basin
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 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
 basin-surveys.com

0' 1000' 2000' 3000' 4000'
 SCALE: 1" = 2000'

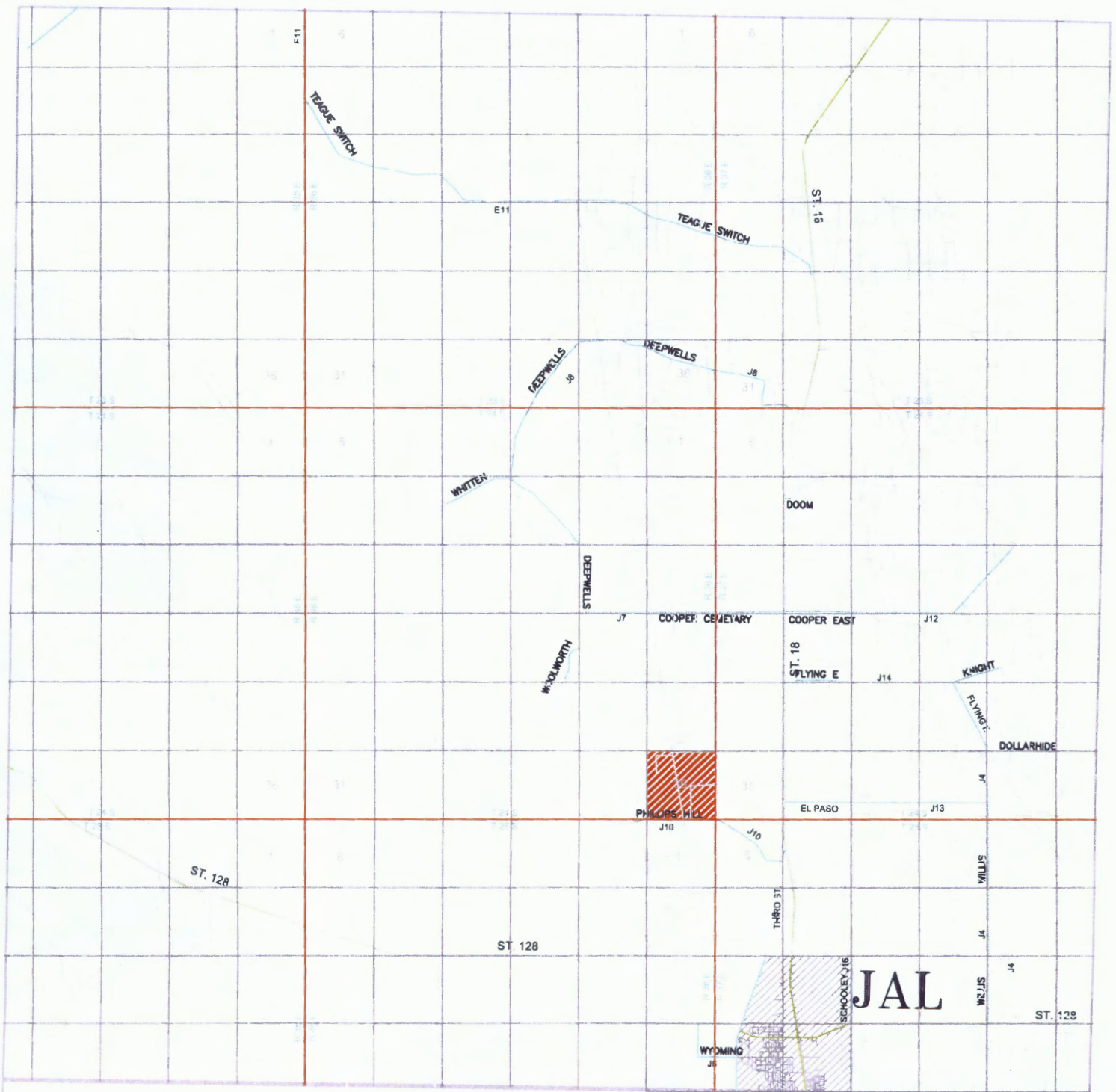
W.O. Number JG 34169

Survey Date 10-30-2018

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



DELTWARE
ENERGY



SPEEDY SWD #1

Located 268' FSL and 595' FEL
 Section 36, Township 24 South, Range 36 East,
 N.M.P.M., Lea County, New Mexico.

basin
surveys
 focused on excellence
 in the oilfield

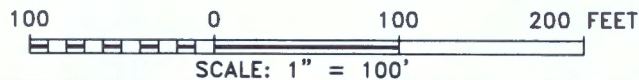
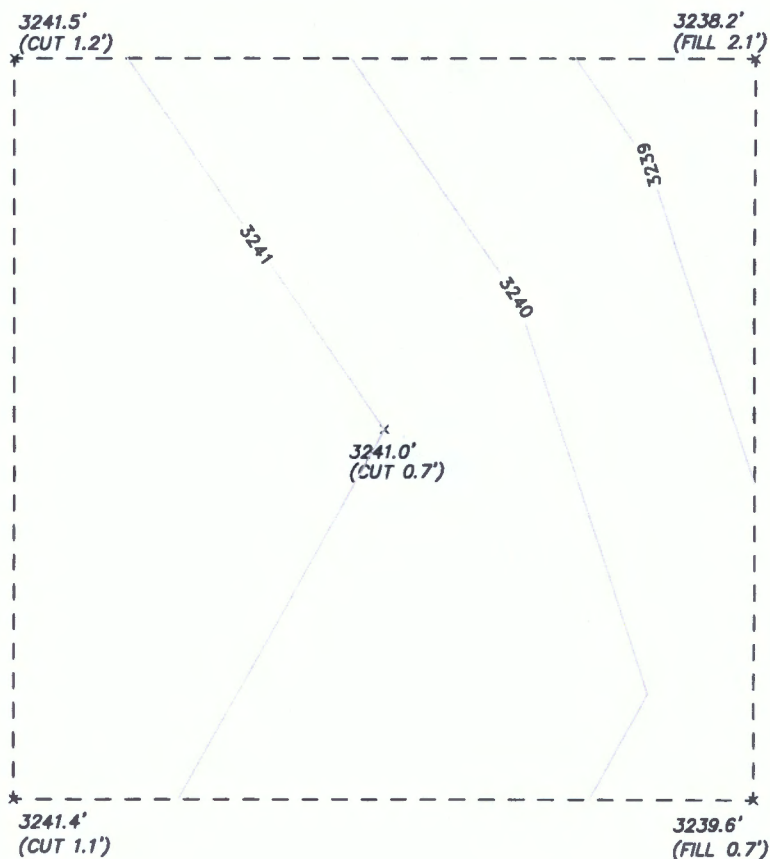
P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
 basin-surveys.com

0' 1000' 2000' 3000' 4000'
 SCALE: 1" = 2000'
 W.O. Number: JG 34169
 Survey Date: 10-30-2018
 YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND



DELAWARE
ENERGY

**SECTION 36, TOWNSHIP 24 SOUTH, RANGE 36 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



DELAWARE ENERGY

REF: SPEEDY SWD #1 / CUT & FILL

THE SPEEDY SWD #1 LOCATED 268' FROM
THE SOUTH LINE AND 595' FROM THE EAST LINE OF
SECTION 36, TOWNSHIP 24 SOUTH, RANGE 36 EAST.

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



P.O. Box 1785 (575) 393-7318 - Office
1120 N. West County Rd. (575) 392-2208 - Fax
Hobbs, New Mexico 88241 basin-surveys.com

W.O. Number: 34169

Drawn By: J GOAD

Date: 11-6-2018

Survey Date: 10-30-2018

Sheet 1 of 1 Sheets

Water Analysis - Disposal Zone - DEVONIAN

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

Water Analysis - Source Zone - BONE SPRING

Biotech
T. Ratliff

Requested by: T. Ratliff

Laboratory Analysis
Endurance
Jazzmaster 17 State #4H

Sample Date: 1/31/2014
Lea Co. NM

		Water Analysis Measurements		Cations (+)		Anions (-)	
Oxygen (mg/L)	1.00	Oil in Water (ppm)	NA	Sodium (Na)	0	Carbonate (CO ₃)	0
Carbon Dioxide (mg/L)	820.18	Specific Gravity	1.150	Calcium (Ca)	18.440	Bicarbonate (HCO ₃)	16.60
Hydrogen Sulfide (mg/L)	0.0	Total Dissolved Solids (TDS)	180.920	Magnesium (Mg)	3.00	Chloride (mg/L)	118.330
pH	5.7	(mg/L) Ca	180.920	Sulfate (SO ₄)	54.270	Sulfate (SO ₄)	310
Temperature °F	73	Total Hardness (mg/L)	18.000	Iron (Fe)	3.00		
				Manganese (Mn)	0.07		

Water Analysis - Source Zone - DELAWARE

P. O. Box 140
Midland, Texas 79701
Tel: 409.372.1111 Fax: 409.372.1112

Martin Water Laboratories, Inc.

P. O. Box 140
Midland, Texas 79701
Tel: 409.372.1111 Fax: 409.372.1112

RESULT OF WATER ANALYSES

LABORATORY NO. 89293
 TO Mr. Joe Small SAMPLE RECEIVED 9-16-92
P. O. Box 31810, Midland, TX 79710 RESULTS REPORTED 9-18-92

COMPANY Meridian Oil Company LEASE Dagger Lake #1
 FIELD OR POOL Wildcat
 SECTION 4 BLOCK 1 SURVEY 1 COUNTY Lea STATE NM
 SOURCE OF SAMPLE AND DATE TAKEN:
 NO 1 Recovery water - taken from Dagger Lake #1 9-9-92
 NO 2 _____
 NO 3 _____
 NO 4 _____

REMARKS Delaware

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Dissolved Oxygen at 20°C	1.1462			
pH at 20°C	5.26			
Specific Gravity	1.46			
Total Hardness as CaCO ₃				
Calcium as Ca	50.500			
Magnesium as Mg	1.335			
Sulfate as SO ₄	68.483			
Chloride as Cl	947			
Iron as Fe	140.618			
Sodium as Na	90.0			
Barium as Ba				
Fluoride as F				
Total Solids, Concentration	220.531			
Temperature °F				
Carbon Dioxide Concentration				
Dissolved Oxygen				
Hydrogen Sulfide	0.0			
Residual Chlorine at 10°C	0.053			
Suspended Solids				
Total Solids at 100°C				
Total Dissolved Solids at 180°C	184.361			



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

Water Analysis

Code 213701

Client Information

Delaware Energy
County:

Rep: Derrick Boutwell

Sample Information

Lease/Well: Speedy/SWD #1

Sample Point:

Date Sampled: 02/28/2019

Date Reported: 02/28/2019

Results

Cations

Ion	Concentration(mg/L)
Barium (as Ba)	0
Calcium (as Ca)	167
Iron (as Fe)	0
Sodium (as Na)	82
Magnesium (as Mg)	37

Anions

Ion	Concentration(mg/L)
Chlorides (as Cl)	200
Sulfate (as SO ₄)	196
Carbonate (as CO ₃)	0
Bicarbonates (as HCO ₃)	244
Sulfide (as S ²⁻)	0

Other Measurements

Measurement	Value
pH	7.81
SG	1.000
Turbidity	5
CO ₂	
Total Dissolved Solids	926.000

Scaling Indices

Temp(F)	CaCO ₃	CaSO ₄ *2H ₂ O	CaSO ₄	BaSO ₄
80	0.9988	0.0000	0.0000	-27.7020
120	1.3104	0.0000	0.0000	-27.9087
160	1.6522	0.0000	0.0000	-28.0191
200	1.9621	0.0000	0.0000	-28.0620
250	2.2511	0.0000	0.0000	-28.0540

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

Comments

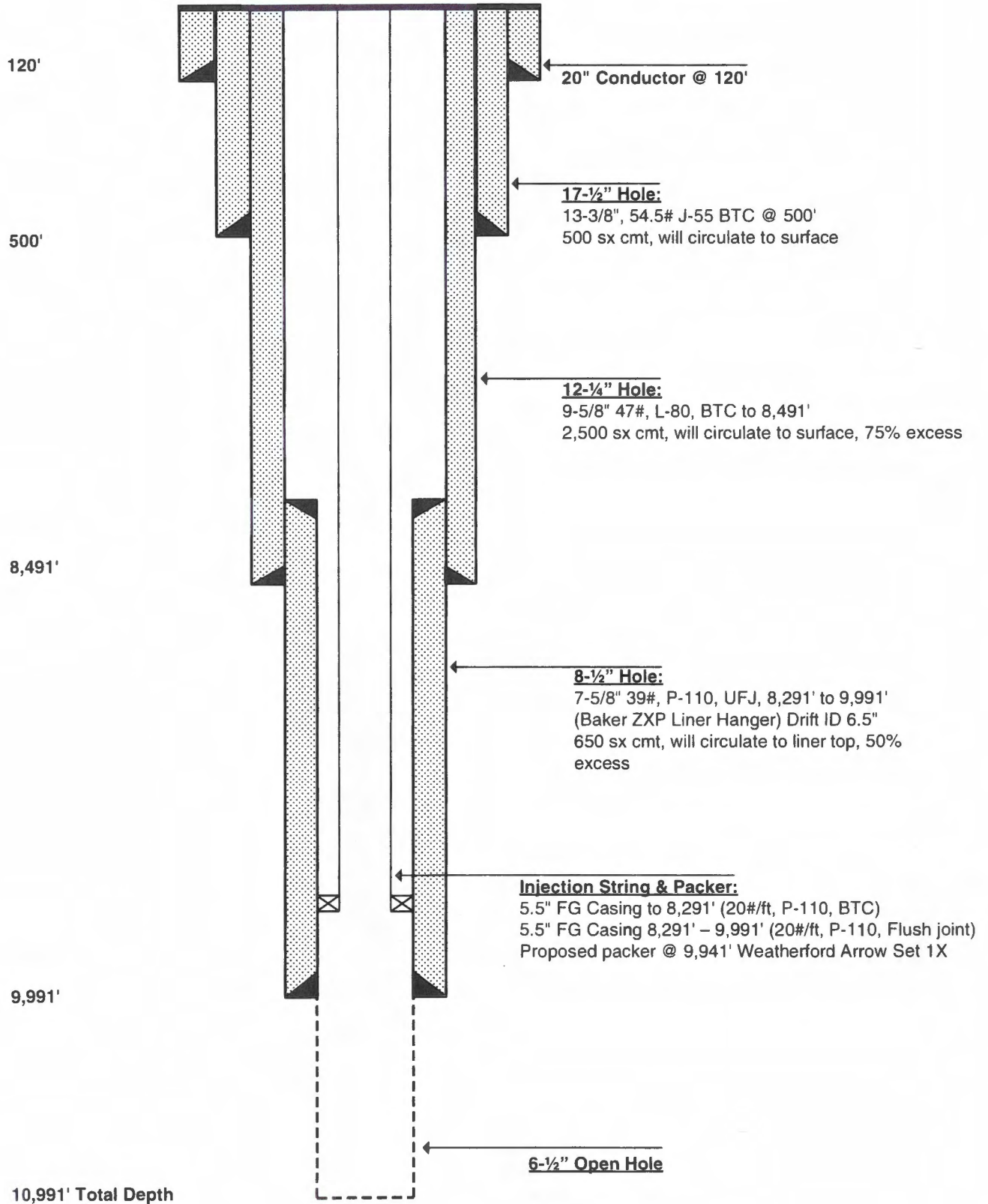
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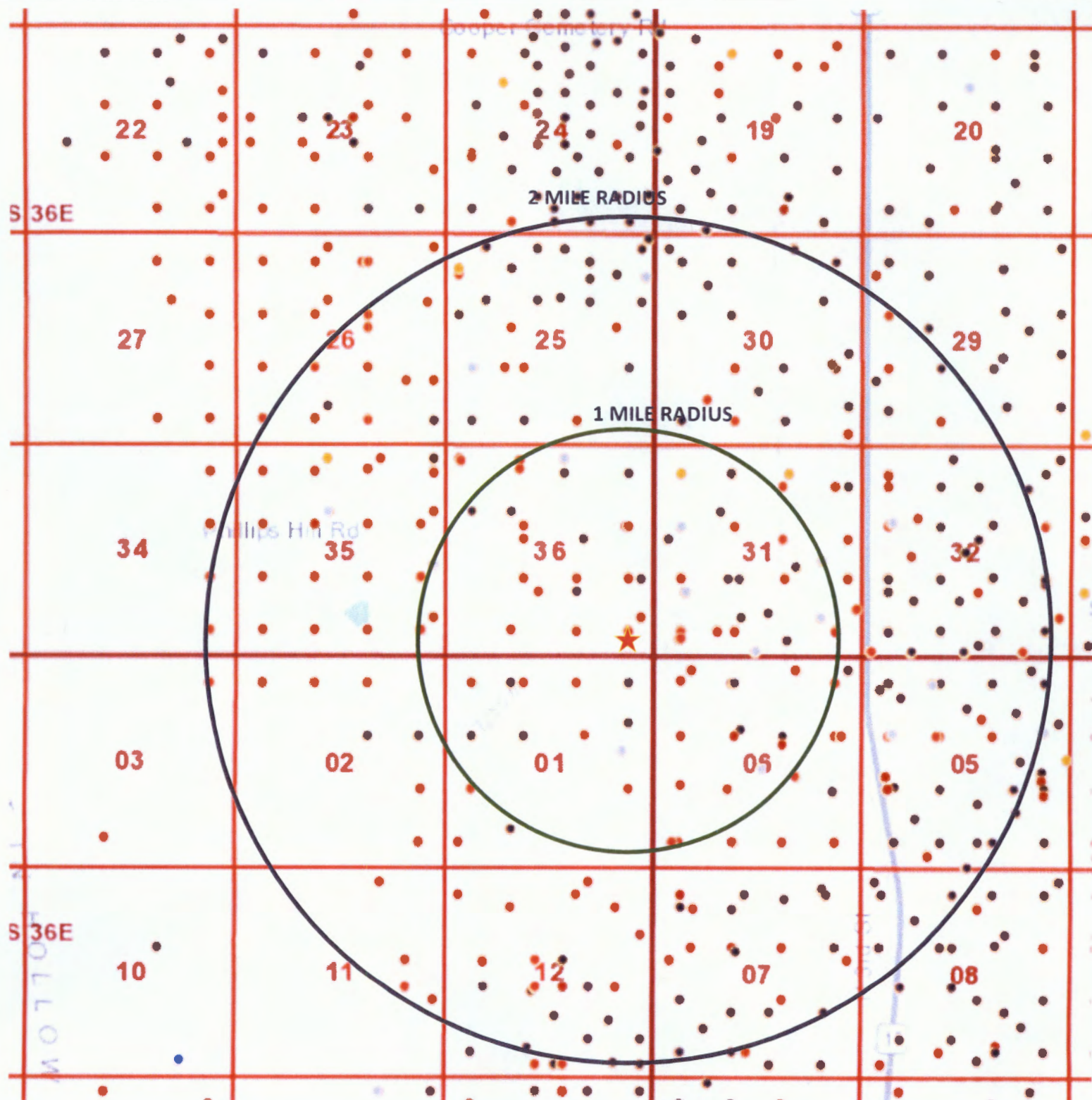
Speedy SWD # 1

API # PENDING
268' FSL & 595' FEL, Sec. 36, T24S, R36E, UL "P"
LEA COUNTY, NEW MEXICO

ELEVATION:
GL: 3,241'

PROPOSED WELLBORE





WELLS – ONE MILE RADIUS

NO WELLS PENETRATE THE DEVONIAN FORMATION IN THE AOR

SECTION 36-T24S-R36E



Speedy SWD #1
(Proposed Location)
Delaware Energy, LLC



★ Speedy SWD #1
Sec. 36-T24S-R36E
Lea Co. NM

Speedy SWD #1

LEASES – ONE MILE RADIUS

Section 25, T24S-R36E

- **EV Properties, LP**
1001 Fannin, Ste 800
Houston, TX 77002

Section 30, T24S-R37E

- Fee
Operator
- **Oxy USA, Inc**
PO Box 50250
Midland, TX 79710

Section 35, T24S-R36E

- **Ares Production Co (Lessee)**
PO Box 1628
Odessa, TX 79760
- **Sam D Ares (Lessee)**
PO Box 1628
Odessa, TX 79760

Section 36, T24S-R36E

- State Lease
Operator & Lessee (B0116775)
- **Herman L Loeb, LLC**
10760 Country Club Rd.
Lawrenceville, IL 62439
- Operator
- **Sabre Operating, Inc**
2663 Plaza Pkwy
Wichita Falls, TX 76308

Operator

- **Special Energy Corp**
4815 S Perkins Rd
Stillwater, OK 74074
- **Enervest Operating, LLC**
1001 Fannin St. Suite 800
Houston, TX 77002
- **Lanexco Inc.**
310 W Wall St. #910
Midland, TX 79701

State Lease (E023883)

- **ZPZ Delaware I, LLC**
2000 Post Oak Blvd
Suite 100
Houston, TX 77056

State Lease (E017340)

- **Conoco Phillips Co**
3300 N A St # 6-100
Midland, TX 79705

State Lease (B17098)

- **Citation Oil & Gas Corp**
2609 S County Rd 1242
Midland, TX 79706

Section 31, T24S-R37E

Fee

Operator

- **Enervest Operating, LLC**
1001 Fannin St. Suite 800
Houston, TX 77002

Fee

Operator

- **Pogo Oil & Gas Operating, Inc**
1515 W. Calle Sur, Suite 174
Hobbs, NM 88240

Fee
Operator

- **Petroleum Exploration Co. LTD**
PO Box 548
Breckenridge, TX 76424

- **Chevron USA, Inc (Lessee)**
6301 Deauville
Midland, TX 79706-2964

Section 2, T25S-R36E

State Lease
Operator

- **Herman L Loeb, LLC**
10760 Country Club Rd.
Lawrenceville, IL 62439

State Lease (B02291)

- **Chevron USA, Inc (Lessee)**
6301 Deauville
Midland, TX 79706-2964

Section 1, T25S-R36E

Federal Lease
Operator

- **Penroc Oil Corp**
PO Box 2769
Hobbs, NM 88241

Federal Lease (NMLC 002582A&B)

- **Apache Corp (Lessee) & (Op Rights)**
303 Veterans Airpark Ln
Midland, TX 79705

- **Prime Operating Co.**
3300 North A Street #1-238
Midland, TX 79705

- **Chevron USA, Inc (Lessee)**
6301 Deauville
Midland, TX 79706-2964

- **ZPZ Delaware I, LLC (Lessee)**
2000 Post Oak Blvd
Suite 100
Houston, TX 77056

Section 6, T25S-R37E

Federal Lease

Operator

- **Enervest Operating, LLC**
1001 Fannin St. Suite 800
Houston, TX 77002

Fee

Operator

- **Enervest Operating, LLC**
1001 Fannin St. Suite 800
Houston, TX 77002

Fee

Operator

- **Pogo Oil & Gas Operating, Inc**
1515 W. Calle Sur, Suite 174
Hobbs, NM 88240

Federal Lease

Operator

- **Naumann Oil & Gas**
203 W Wall St. Suite 440
Midland, TX 79701

Federal Lease

Operator

- **Mark L Shidler, Inc**
1313 Campbell Ct # D
Houston, TX 77055

Speedy SWD #1

Location: 268' FSL & 595' FEL

Sec. 36, T-24-S, R-36-E

Estimated Pre-Drill Formation Tops

Top of Salt	1,341'
Base Salt	2,541'
Tansill	2,616'
Yates	2,716'
Capitan Reef	2,741'
Delaware Mountain Group	5,591'
Bone Spring/Abo	7,841'
Wolfcamp	8,491'
Mississippian	9,241'
Woodford	9,641'
Devonian	9,991'

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

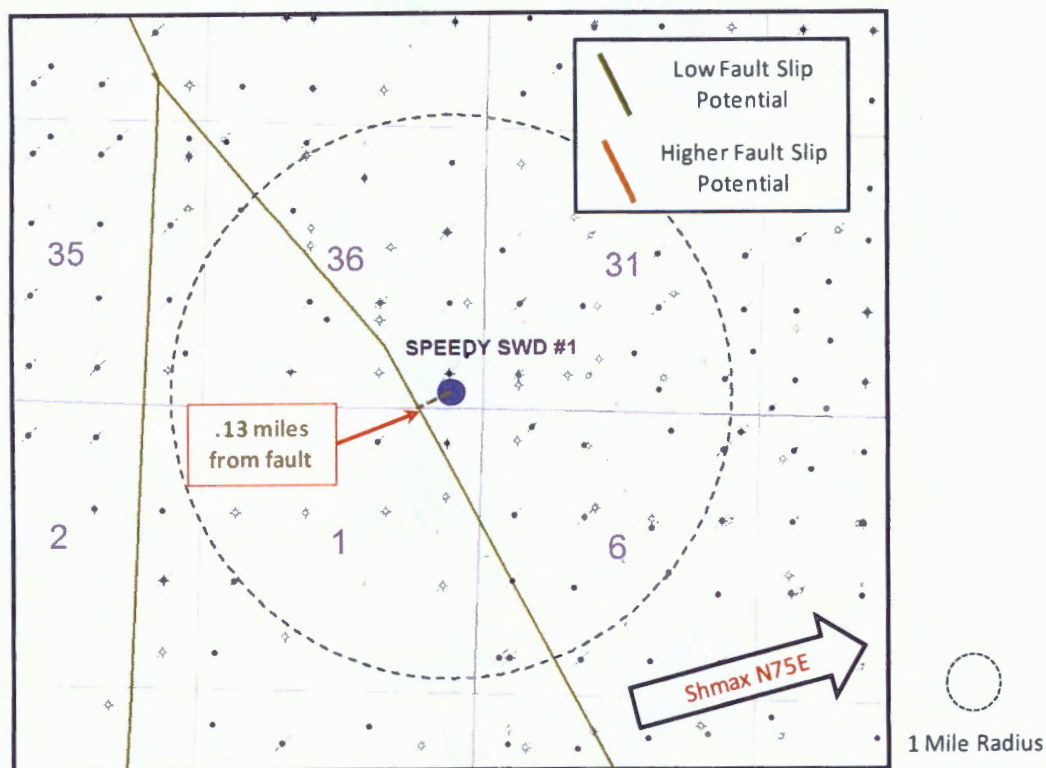
Historically, the area near the proposed Speedy SWD #1 has not seen any major seismic activity. There have been two seismic events (as per public data available on the USGS database) in the area. All events are over 12.0 miles from the proposed SWD location. The most recent event was 12.6 miles southeast on May 3, 2017 and measured 2.6, the closest was 12.4 miles to the NNE and measured 3.3 on June 2, 2001

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 fault would be approximately .13 miles west 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 fault west of the location (green) should have a very low probability of being critically stressed resulting in an induced seismicity event. This is due to the relationship of the strike of the fault and the regional Shmax orientation (approx. N 75 deg E) in the area. The exact position of this fault relative to the proposed location, and depth of the target formation, is unknown. Risk of contact with this fault should be evaluated and modeled prior to drilling the well. There has been no nearby seismicity associated or documented with this fault found in the public domain.

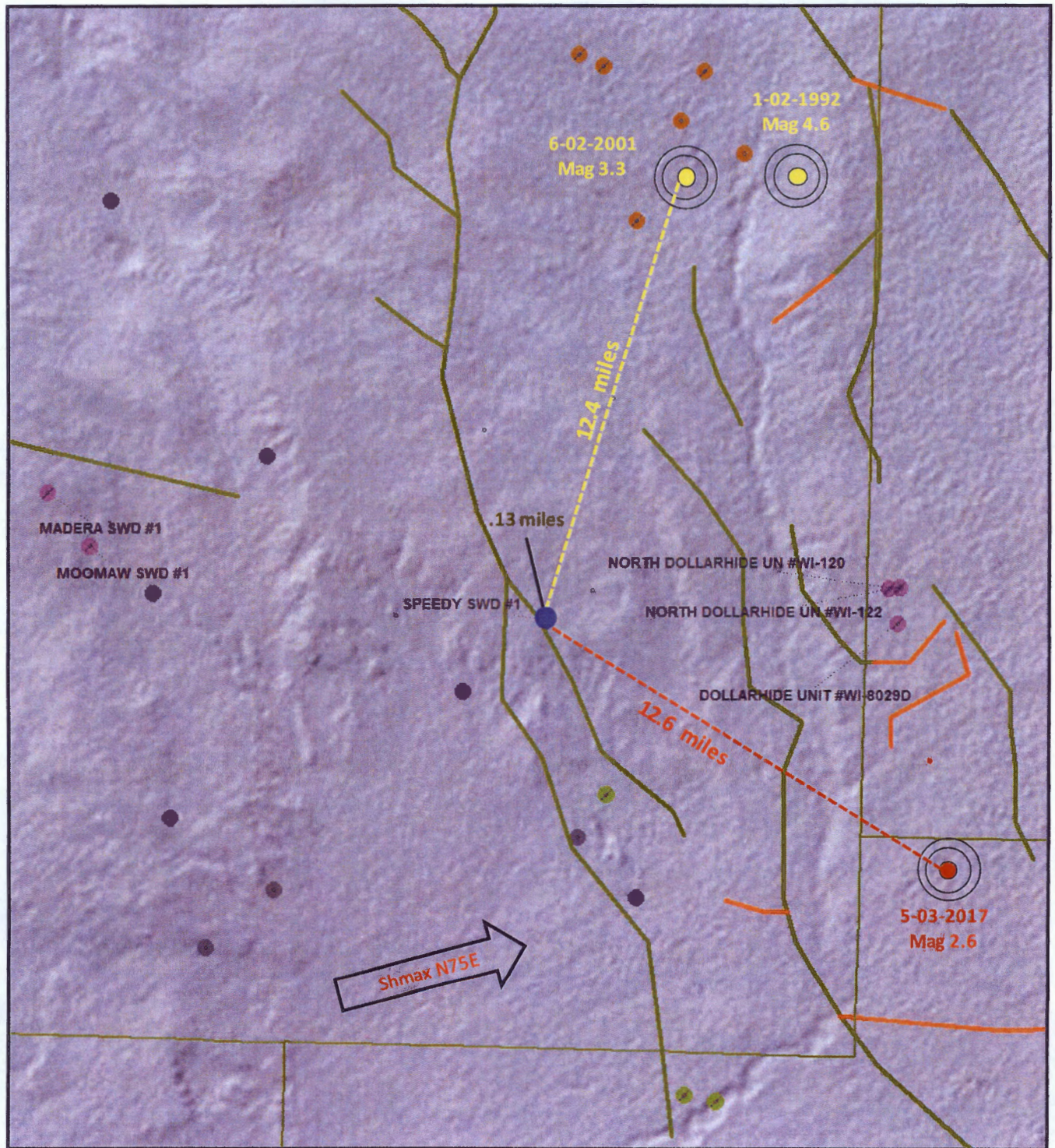
The proposed Speedy SWD #1 is located well away from the nearest active Devonian SWD or other SWD wells (see map below). The well should meet current OCD and Industry recommended practices.

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

Well Activity and Closest SWD



Proximity to Historic Earthquake Activity and Faults



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.

Affidavit of Publication

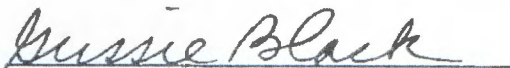
STATE OF NEW MEXICO
COUNTY OF LEA

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

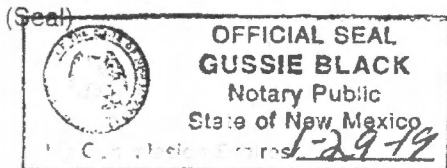
Beginning with the issue dated
January 18, 2019
and ending with the issue dated
January 18, 2019.


Publisher

Sworn and subscribed to before me this
18th day of January 2019.


Business Manager

My commission expires
January 29, 2019



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

LEGALS

LEGAL NOTICE JANUARY 18, 2018

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 administrative approval to drill the Speedy SWD #1 as a Commercial Salt Water Disposal well.

The Speedy SWD #1 is located at 268° FSL and 595° FEL, Unit Letter P, Section 36, Township 24 South, Range 36 East, Lea County, New Mexico. The well will dispose of water produced from oil and gas wells into the Devonian Formation from 9,991' to 10,991' at a maximum rate of 25,000 barrels of water per day at a maximum pressure of 1,998 psi.

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.

Additional information can be obtained by contacting Delaware Energy, L.L.C. at (432) 685-7005. #33636

67114908

00223461

MIKE MCCURDY
DELAWARE ENERGY
405 N. MARIENFELD, STE 250
MIDLAND, TX 79701

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Midland, TX 79706

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☐ Adult Signature Restricted Delivery \$0.00

Postage \$1.75

Total Postage and Fees \$8.05

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Houston, TX 77055

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Speedy SWD#1

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City, State, ZIP+4®
Midland, TX 79705

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

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7015 3010 0000 2209 1016

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

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ODESSA, TX 79760

Certified Mail Fee \$3.50
\$2.80
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$0.00
☐ Return Receipt (electronic) \$0.00
☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
☐ Adult Signature Restricted Delivery \$0.00

Postage \$1.75

Total Postage and Fees \$8.05

Sent To
Ares Production Co / Sam D Ares
Street and Apt. No., or PO Box No.
P.O. Box 1628
City, State, ZIP+4®
Odessa, TX 79760

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

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7016 1370 0000 6288 8809

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MIDLAND, TX 79705

Certified Mail Fee \$3.50

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$0.00

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Speedy SWD #1

Postage \$2.35

Total Postage and Fees \$8.65

Sent To
Apache Corp.
Street and Apt. No., or PO Box No.
303 Veterans Airpark Ln.
City, State, ZIP+4
Midland, TX 79705

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04/05/2019

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MIDLAND, TX 79701

Certified Mail Fee \$3.50

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$0.00

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Speedy SWD #1

Postage \$1.75

Total Postage and Fees \$8.05

Sent To
Naumann Oil & Gas
Street and Apt. No., or PO Box No.
203 W. Wall St., Ste 400
City, State, ZIP+4
Midland, TX 79701

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04/05/2019

7016 1370 0000 6288 8786

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MIDLAND, TX 79705

Certified Mail Fee \$3.50

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$0.00

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Speedy SWD #1

Postage \$1.75

Total Postage and Fees \$8.05

Sent To
Prime Operating Co.
Street and Apt. No., or PO Box No.
3300 North A Street #1-238
City, State, ZIP+4
Midland, TX 79705

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7016 1370 0000 6288 8793

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HOBBS, NM 88241

Certified Mail Fee \$3.50

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$0.00

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Speedy SWD #1

Postage \$1.75

Total Postage and Fees \$8.05

Sent To
Penroc Oil Corp.
Street and Apt. No., or PO Box No.
P.O. Box 27069
City, State, ZIP+4
Hobbs, NM 88241

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7016 1370 0000 6288 8762

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BRECKENRIDGE, TX 76424

Certified Mail Fee \$3.50

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$0.00

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Speedy SWD #1

Postage \$1.75

Total Postage and Fees \$8.05

Sent To
Petroleum Exploration Co. LTD
Street and Apt. No., or PO Box No.
P.O. Box 548
City, State, ZIP+4
Breckenridge, TX 76424

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MIDLAND, TX 79706

Certified Mail Fee \$3.50

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$0.00

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Speedy SWD #1

Postage \$1.75

Total Postage and Fees \$8.05

Sent To
Chevron USA, Inc.
Street and Apt. No., or PO Box No.
6301 Deauville
City, State, ZIP+4
Midland, TX 79706

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SANTA FE, NM 87501

Certified Mail Fee \$3.50

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$2.80

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Postage \$1.75

Total Postage and Fees \$8.05

Sent To
 Street and Apt. No. or PO Box No.
 New Mexico State Land Office
 310 Old Santa Fe Trail
 City State ZIP+4
 Santa Fe, NM 87501

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HOBBS, NM 88240

Certified Mail Fee \$3.50

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$2.80

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Postage \$1.75

Total Postage and Fees \$8.05

Sent To
 Street and Apt. No. or PO Box No.
 Pogo Oil & Gas Operating, Inc.
 1515 W Calle Sur, Suite 174
 City State ZIP+4
 Hobbs, NM 88240

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

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U.S. Postal Service™
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For delivery information, visit our website at www.usps.com®.

ARTESIA, NM 88210

Certified Mail Fee \$3.50

Extra Services & Fees (check box, add fee as appropriate)

☐ Return Receipt (hardcopy) \$2.80

☐ Return Receipt (electronic) \$0.00

☐ Certified Mail Restricted Delivery \$0.00

☐ Adult Signature Required \$0.00

☐ Adult Signature Restricted Delivery \$0.00

Postage \$1.75

Total Postage and Fees \$8.05

Sent To
 Street and Apt. No. or PO Box No.
 New Mexico OCD District II
 811 S. First Street
 City State ZIP+4
 Artesia, NM 88210

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