

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*

RECEIVED: <u>03/14/2019</u>	REVIEWER:	TYPE: <u>SWD</u>	APP NO: <u>PMAM19135 38426</u>
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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: <u>Delaware Energy, LLC</u>	OGRID Number: <u>371195</u>
Well Name: <u>Dart SWD #1</u>	API: <u>Pending</u>
Pool: <u>SWD; Devonian</u>	Pool Code: <u>96101</u>

**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

4/30/2019

Date

432-685-7005

Phone Number

s.presley@delawareenergy.com

e-mail Address

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

MAY 14 2019 PM03:23

UL M, Sec. 2, T-24-S, R-36-E, 437' FSL & 675' FWL, Lea Co., NM

April 30, 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 Dart 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

DISTRIBUTION LIST

Surface Owner:

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

Offset Operators/Leasehold Owners:

Apache Corp
303 Veterans Airpark Ln
Midland, TX 79705

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

Breck Operating Corp
300 N Breckenridge Ave
Breckenridge, TX 76424

Burlington Resources Oil & Gas Co., LP
3401 E 30TH St
Farmington, NM 87402

CCC Oil & Gas, LLC
7 Crawford Ln
Jal, NM 88252

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

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

Fulfer Oil & Cattle, LLC
101 E Panther Ave
Jal, NM 88252

Kerr-McGee OG Onshore, LP
1999 Broadway #3700
Denver, Co 80202

Oxy USA WTP Limited Partnership
PO BOX 4294
Houston, Tx 77210

Penroc Oil Corp
1515 W Calle Sur Street
Hobbs, NM 88240

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

Saxet Oil corp.
505 N Big Spring St
Midland, TX 79701

Special Energy Corp
4815 S Perkins Rd
Stillwater, OK 74074

XTO Energy, Inc
22777 Springwoods Village Pkwy.
Spring, TX 77389

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

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 200, 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: _____ 4/30/2019 _____
- 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: Dart SWD # 1WELL LOCATION: 437' FSL & 675'FWL M 2 24S 36E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP 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

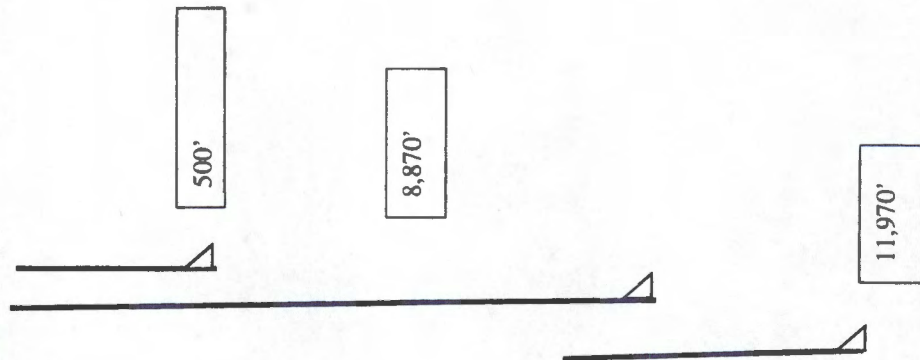
Cemented with: 650 sx. or ft³

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

Total Depth: 11,970'Injection Interval

11,970' feet to 12,970'

(OPEN HOLE)



INJECTION WELL DATA SHEETTubing Size: 5.5" BTC x 5.5" Flush Joint Lining Material: Fiber GlassType of Packer: Weatherford Arrow Set 1XPacker Setting Depth: 11,920'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: Devonian3. Name of Field or Pool (if applicable): SWD; Devonian4. 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 5,870' – 7,970'; Bone Springs 7,970' – 8,870'; Wolfcamp 8,870' – 9,370'; Strawn 9,370' – 9,620';
 Atoka 9,620' – 9,870'; Morrow 9,870' – 10,870'

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 2,394 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 11,970'-12,970'. Devonian is an impermeable organic Shale at the very top (11,770' 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 +/- 170', the water source is older alluvium (Quaternary). All the fresh water wells in the area have an average depth to water of 193ft 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 32.240127, -103.261857

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 Dart 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

4/30/2019

Title

Date

III. WELL DATA

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

Dart SWD #1, Sec. 2-T24S-R36E, 437' FSL & 675' FWL, UL M, 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"	8,870'	2500	12-1/4"	Surface	CIRC
7-5/8"	8,670'-11,970'	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.

11,970' to 12,970' (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 5,870' – 7,970'; Bone Springs 7,970' – 8,870'; Wolfcamp 8,870' – 9,370'; Strawn 9,370' – 9,620'; Atoka 9,620' – 9,870'; Morrow 9,870' – 10,870'

Next Lower: None

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-8178 Fax: (505) 334-8179

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 478-3480 Fax: (505) 478-3482

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 DART SWD	Well Number 1
OGRID No. 371195	Operator Name DELAWARE ENERGY	Elevation 3370'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	2	24 S	36 E		437	SOUTH	675	WEST	LEA

Bottom Hole Location If Different From Surface

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

LOT 4	LOT 3	LOT 2	LOT 1
-------	-------	-------	-------

N: 455112.2
E: 877956.1
(NAD83)

3366.8' 3367.5'
3374.5' 3373.9'

SURFACE LOCATION
Lat - N 32.240418°
Long - W 103.242341°
NADSPCE- N 452914.5
E 878655.0
(NAD-83)

N: 452471.3
E: 877984.8
(NAD83)

675'

437'

N: 452495.7
E: 880624.7
(NAD83)

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.

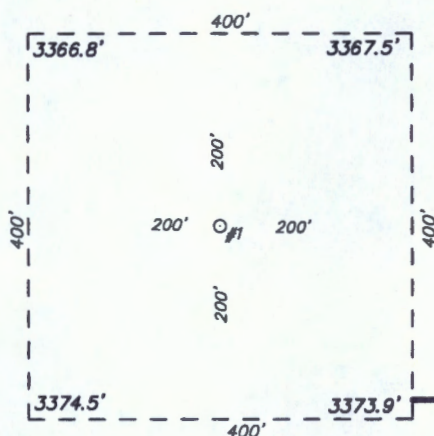
Sarah Presley 4-30-19
Signature Date
Sarah Presley
Printed Name
s.presley@delawareenergy.com
Email Address

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.

NOVEMBER 2018
Date Surveyed
Signature & Seal of Professional Surveyor
7977
Certificate No. Gary L. Jones 7977
BASIN SURVEYS

0' 1000' 2000' 3000' 4000'
SCALE: 1" = 2000'
WO Num.: 34166

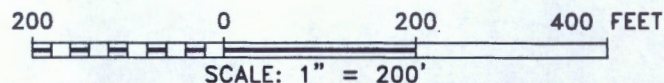
**SECTION 2, TOWNSHIP 24 SOUTH, RANGE 36 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



DART SWD #1
ELEV. - 3370'
 Lat - N 32.240418°
 Long - W 103.242341°
 NMSPCE- N 452914.5
 E 878655.0
 (NAD-83)

LEASE ROAD - 2.1 MILES TO COOPER ROAD

JAL, NM IS ±9 MILES TO THE SOUTHEAST OF LOCATION.



DELAWARE ENERGY

REF: DART SWD #1 / WELL PAD TOPO

THE DART SWD #1 LOCATED 437' FROM
 THE SOUTH LINE AND 675' FROM THE WEST LINE OF
 SECTION 2, TOWNSHIP 24 SOUTH, RANGE 36 EAST.

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

basin
surveys

P.O. Box 1788 (575) 393-7316 - Office
 1120 N. West County Rd. (575) 392-2206 - Fax
 Hobbs, New Mexico 88241 basin-surveys.com

W.O. Number: 34166

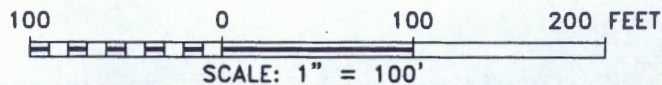
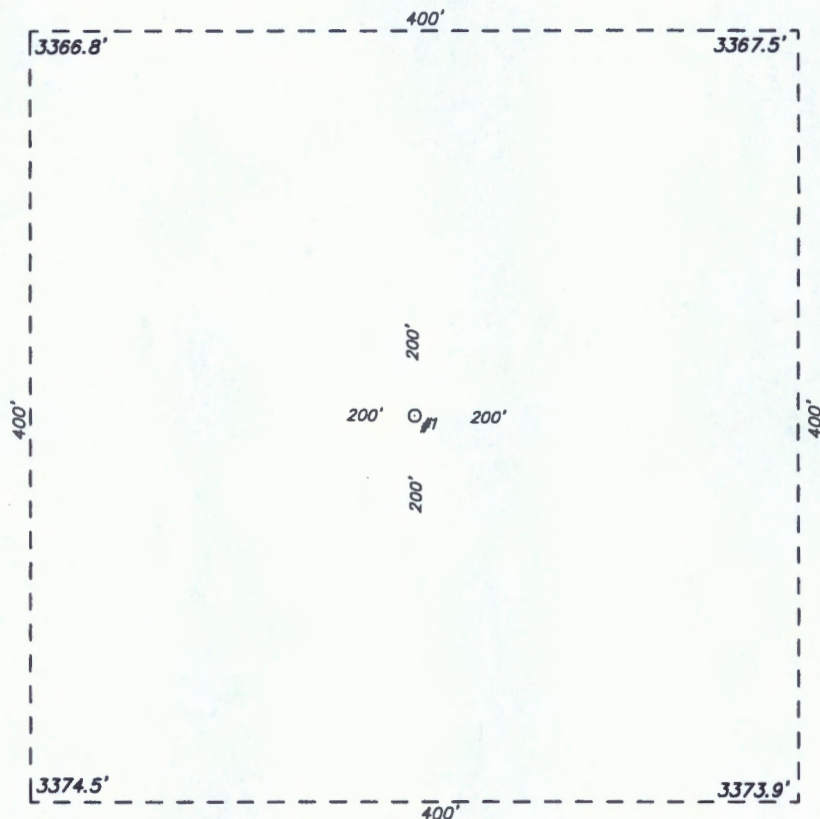
Drawn By: J GOAD

Date: 11-8-2018

Survey Date: 11-1-2018

Sheet 1 of 1 Sheets

**SECTION 2, TOWNSHIP 24 SOUTH, RANGE 36 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



DELAWARE ENERGY

REF: DART SWD #1 / WELL PAD TOPO

THE DART SWD #1 LOCATED 437' FROM
THE SOUTH LINE AND 675' FROM THE WEST LINE OF
SECTION 2, 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) 392-2206 - Fax
focused on excellence in the oilfield Hobbs, New Mexico 88241 basin-surveys.com

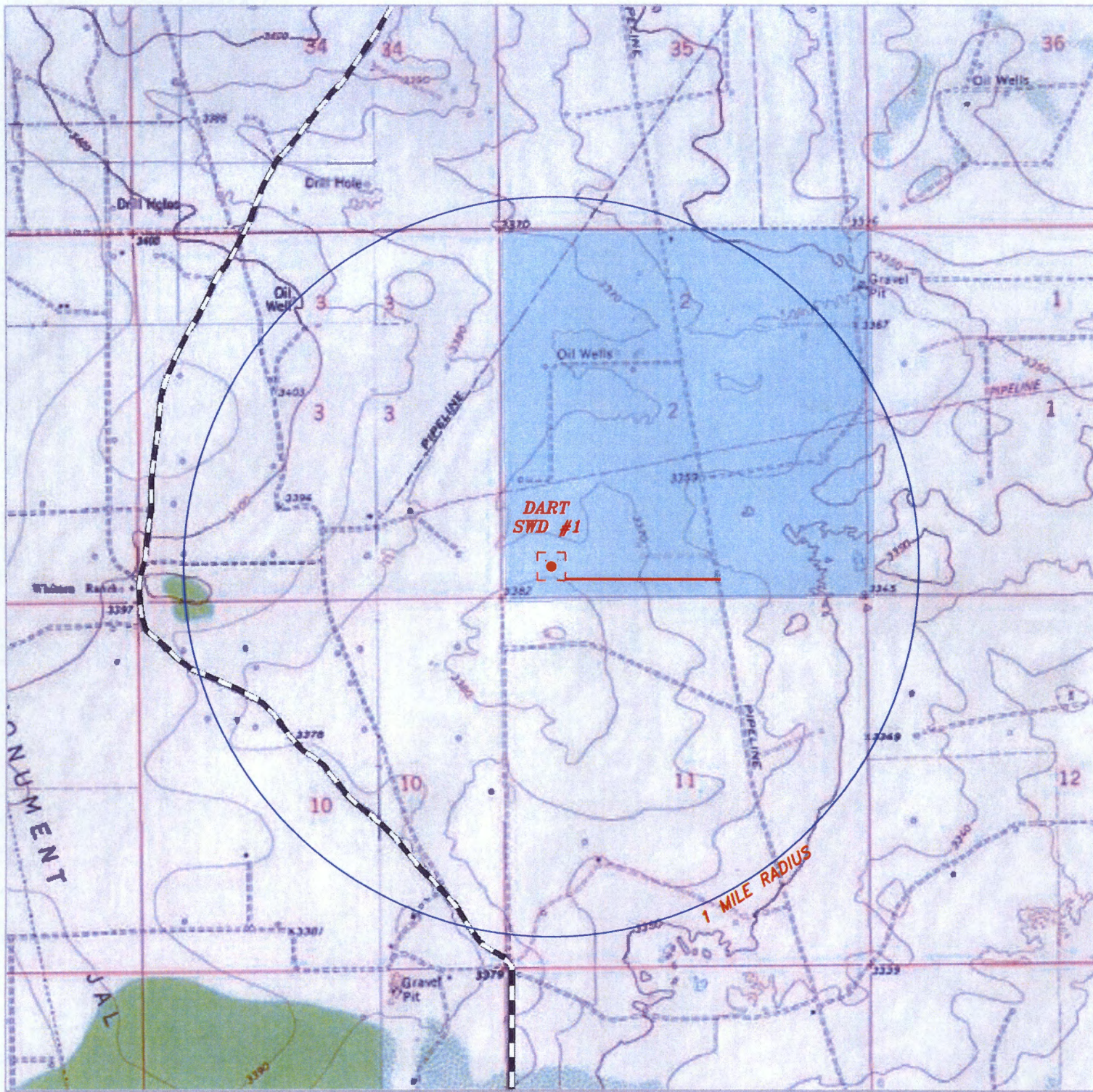
W.O. Number: 34166

Drawn By: J GOAD

Date: 11-8-2018

Survey Date: 11-1-2018

Sheet 1 of 1 Sheets



DART SWD #1

Located 437' FSL and 675' FWL
 Section 2, Township 24 South, Range 36 East,
 N.M.P.M., Lea County, New Mexico.

basin
surveys

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 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'

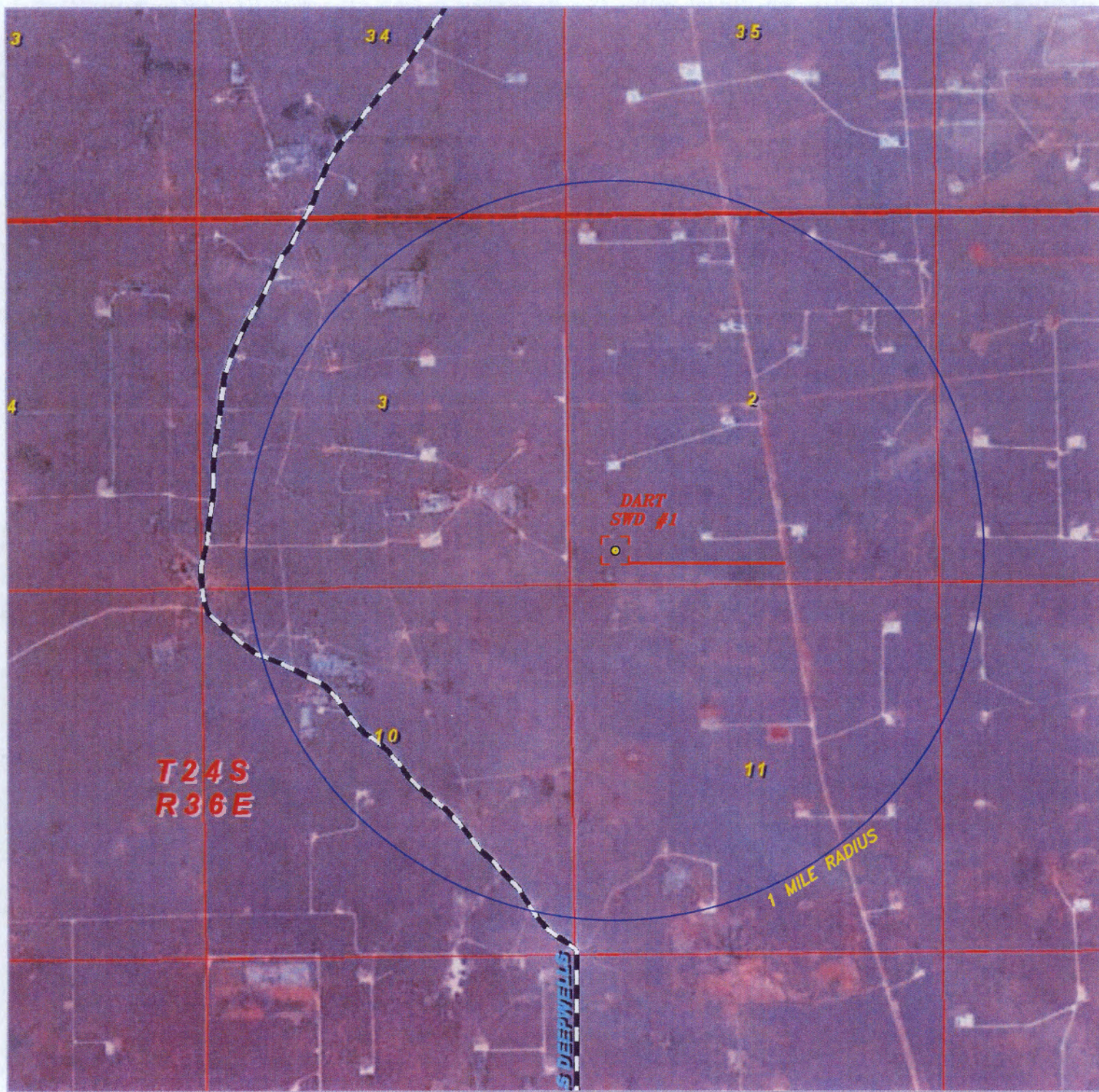
W.O. Number: JG 34166

Survey Date: 11-1-2018

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



DELAWARE
ENERGY



DART SWD #1

Located 437' FSL and 675' FWL
 Section 2, Township 24 South, Range 36 East,
 N.M.P.M., Lea County, New Mexico.

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

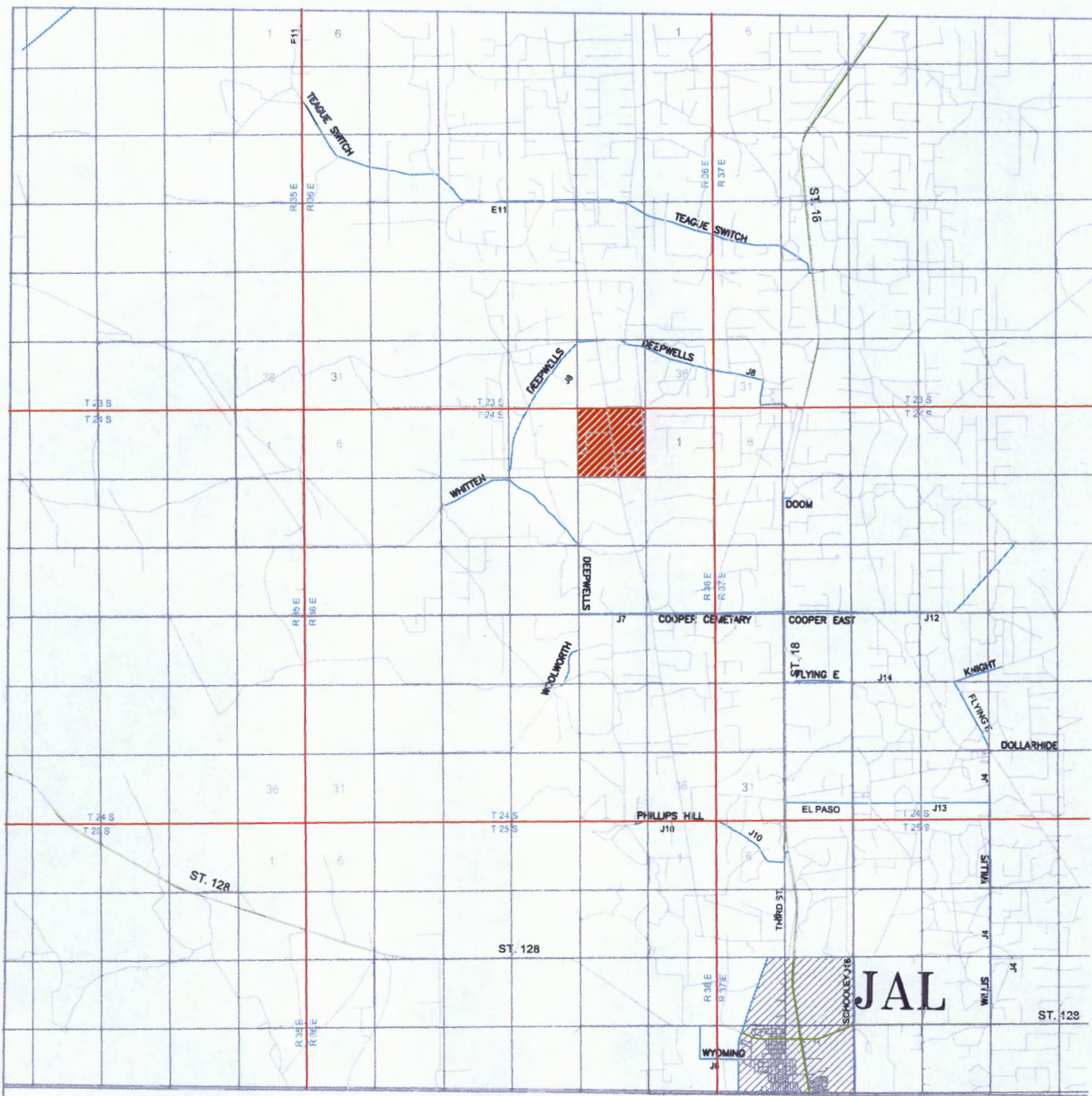
W.O. Number: JG 34166

Survey Date: 11-1-2018

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



DELAWARE
ENERGY



DART SWD #1

Located 437' FSL and 675' FWL
 Section 2, Township 24 South, Range 36 East,
 N.M.P.M., Lea County, New Mexico.

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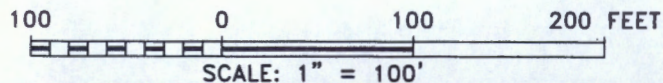
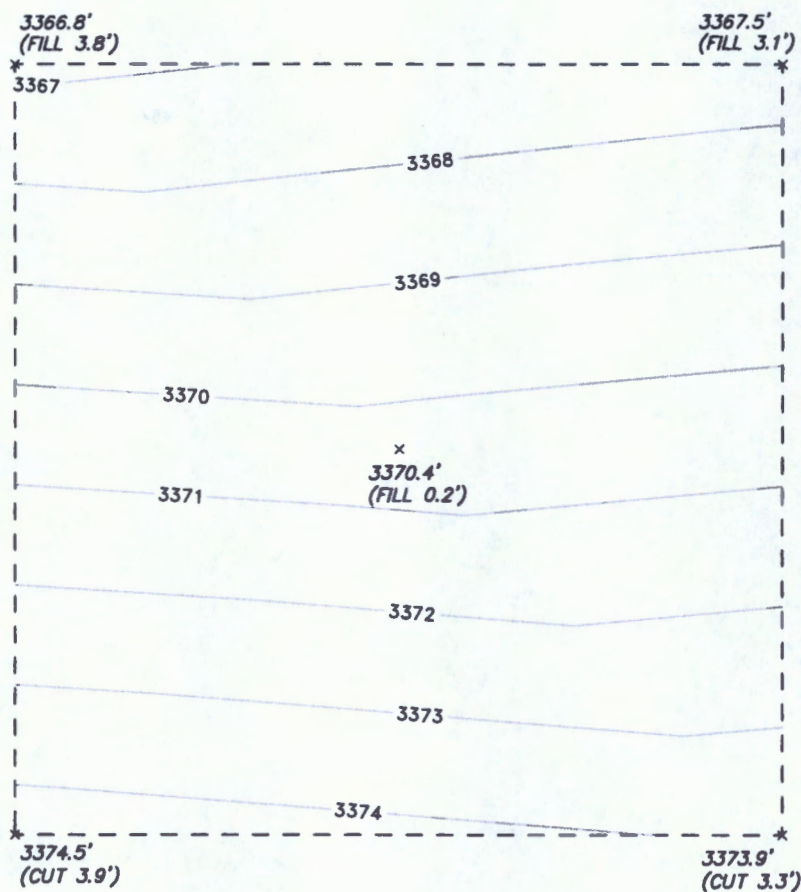
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 basin-surveys.com

0' 1000' 2000' 3000' 4000'
 SCALE: 1" = 2000'
 W.O. Number: JG 34166
 Survey Date: 11-1-2018
 YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND



DELAWARE
ENERGY

**SECTION 2, TOWNSHIP 24 SOUTH, RANGE 36 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



DELAWARE ENERGY

REF: DART SWD #1 / CUT & FILL

THE DART SWD #1 LOCATED 437' FROM
THE SOUTH LINE AND 675' FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 24 SOUTH, RANGE 36 EAST.
N.M.P.M., LEA COUNTY, NEW MEXICO.

**basin
surveys**

P.O. Box 1786 (575) 393-7318 - Office
1120 N. West County Rd. (575) 392-2206 - Fax
Hobbs, New Mexico 88241 basin-surveys.com

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



Requested by: T. Ratliff

Laboratory Analysis
Endurance
Jazzmaster 17 State #4H

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

		Water Analysis Measurements		Cations (+)		Anions (-)	
	mg/L		mg/L		mg/L		mg/L
Oxygen (mg/L)	100	Oil in Water (ppm)	NA	Sodium (Na+)	0	Carbonate (CO ₃)	0
Carbon Dioxide (mg/L)	600 MB	Specific Gravity	1.150	Calcium (Ca)	18.442	Bicarbonate (HCO ₃)	16.00
Hydrogen Sulfide (mg/L)	0.0	Total Dissolved Solids (TDS)	189.450	Magnesium (Mg)	380	Chloride (mg/L)	118.520
pH	5.7	(mg/L) (Ca)	189.450	Sulfate (Na) (mg)	54.270	Sulfate (SO ₄)	310
Temperature °F	73	Total Hardness (mg/L)	18.000	Iron (Fe)	100		
				Manganese (Mn)	0.00		

Water Analysis - Source Zone - DELAWARE

P. O. BOX 1488
MCKINNEY, TEXAS 75069
PH: 972.574.0000 FAX: 972.574.0001

Martin Water Laboratories, Inc.

RESULT OF WATER ANALYSES

PH: 972.574.0000
MCKINNEY, TEXAS 75069
PHONE: 972.574.0001

TO: Mr. Joe Small LABORATORY NO: 93293

FROM: P. O. Box 31810, Midland, TX 79710 SAMPLE RECEIVED: 9-16-92

RESULTS REPORTED: 9-18-92

COMPANY: Meridian Oil Company LEASE: Dagger Lake #1

FIELD OR POOL: Wildcat

SECTION: BLOCK 4 SURVEY: WILDCAT COUNTY: Lea STATE: NM

SOURCE OF SAMPLE AND DATE TAKEN: NO 1, Recharged 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
Specific Gravity at 60°F	1.1562			
pH at 60°F				
per cent Free Acid	6.25			
Dissolved in H ₂ O	1/6			
Temperature at 60°F				
Temperature at 60°F				
Total Hardness at 60°F	30.500			
Calcium as Ca	18.000			
Magnesium as Mg	1.316			
Sodium and Potassium	68.483			
Sulfate as SO ₄	967			
Chloride as Cl	140.618			
Iron as Fe	90.0			
Copper as Cu				
Mercury as Hg				
Total Solids, Evaporated	228.531			
Temperature °F				
Carbon Dioxide, Carbonate and Bicarbonate				
Dissolved Oxygen				
Unsat. Solids	0.0			
Residue after evaporation at 212°F	0.053			
Suspended Solids				
100 cc. Solids as mg				
Volume Filtered as ml				
Total Dissolved Solids @ 180°F	184.361			



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

Water Analysis

Code 214852

Client Information

Delaware Energy
County:

Lea

Rep:

Derrick Boutwell

Sample Information

Lease/Well: Dart/SWD

Sample Point: Stock Tank

Date Sampled: 04/17/2019

Date Reported: 04/22/2019

Results

Cations

Ion	Concentration(mg/L)
Barium (as Ba)	0
Calcium (as Ca)	61
Iron (as Fe)	0
Sodium (as Na)	37
Magnesium (as Mg)	1

Other Measurements

Measurement	Value
pH	7.79
SG	1.000
Turbidity	0
CO ₂	
Total Dissolved Solids	290.000

Anions

Ion	Concentration(mg/L)
Chlorides (as Cl)	100
Sulfate (as SO ₄)	42
Carbonate (as CO ₃)	0
Bicarbonates (as HCO ₃)	49
Sulfide (as S ²⁻)	0

Scaling Indices

Temp(F)	CaCO ₃	CaSO ₄ *2H ₂ O	CaSO ₄	BaSO ₄
80	-0.1327	0.0000	0.0000	-27.4387
120	0.1680	0.0000	0.0000	-27.6444
160	0.4891	0.0000	0.0000	-27.7493
200	0.7805	0.0000	0.0000	-27.7945
250	1.0550	0.0000	0.0000	-27.8260

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

Comments

Coordinates 32.240127-103.261857.

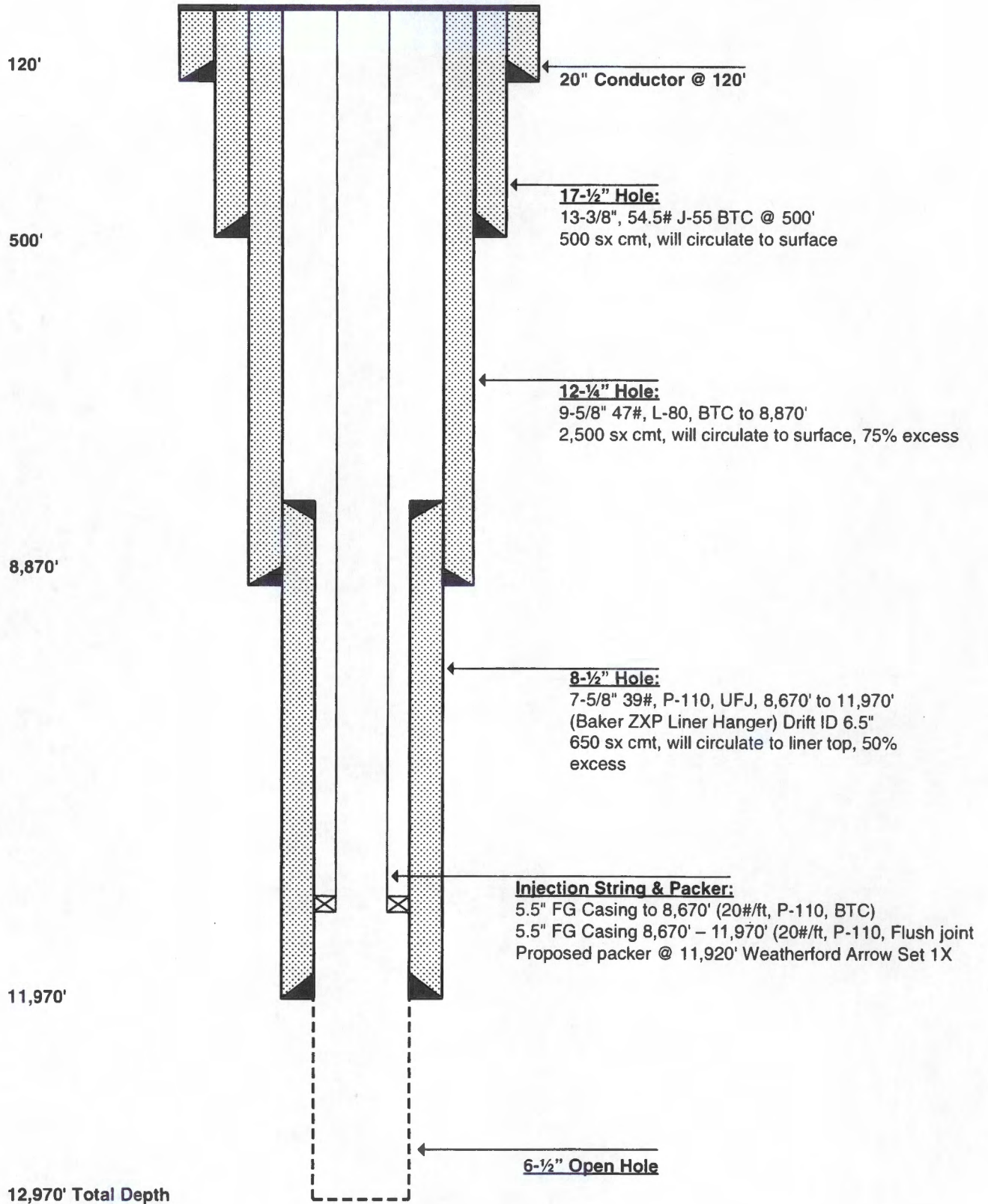


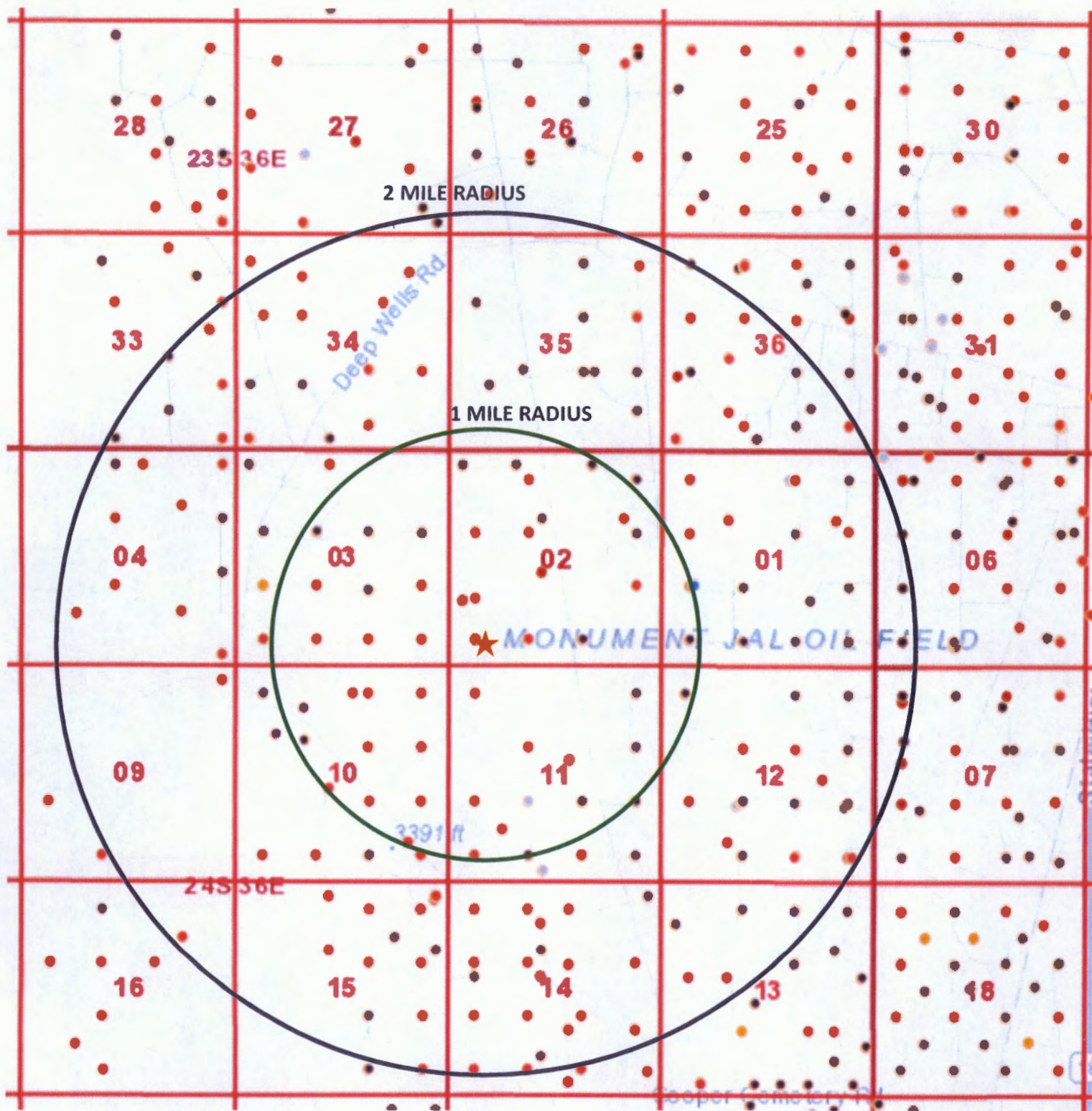
Dart SWD # 1

API # PENDING
437' FSL & 675' FWL, Sec. 2, T24S, R36E, UL "M"
LEA COUNTY, NEW MEXICO

ELEVATION:
GL: 3,370'

PROPOSED WELLBORE





WELLS – ONE MILE RADIUS

NO WELLS PENETRATE THE DEVONIAN FORMATION IN THE AOR

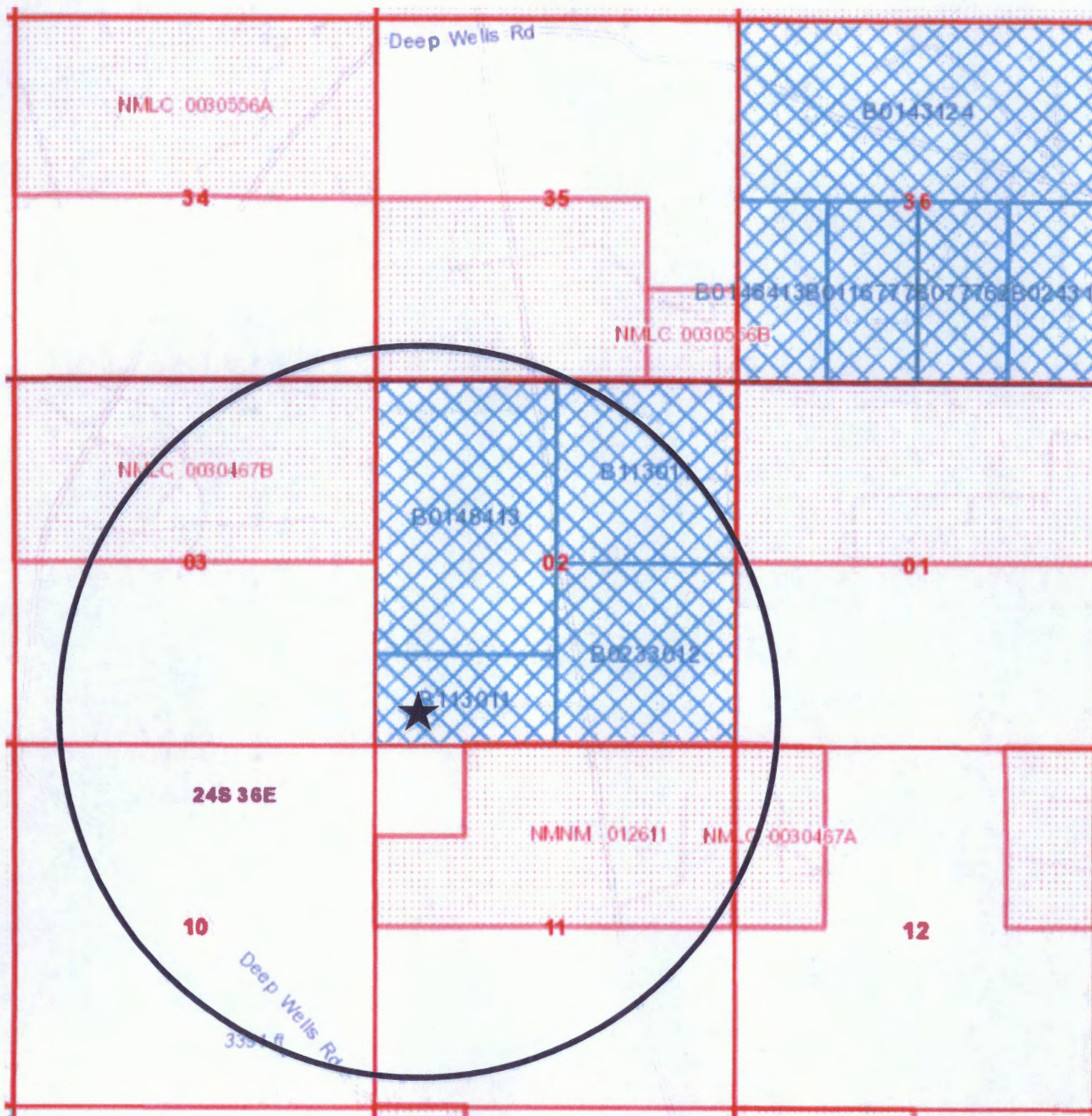
SECTION 2-T24S-R36E



Dart SWD #1

(Proposed Location)

Delaware Energy, LLC



LEASES – ONE MILE RADIUS

★ Dart SWD #1
Sec. 2-T24S-R36E
Lea Co. NM

Dart SWD #1

LEASES – ONE MILE RADIUS

Section 1, T24S-R36E

Operator (Federal)

- **Penroc Oil Corp**
1515 W Calle Sur Street
Hobbs, NM 88240

Operator (Fee)

- **Apache Corp**
303 Veterans Airpark Ln
Midland, TX 79705

Section 2, T24S-R36E

State Lease (B113011)

- **XTO Holdings, LLC (Lessee)**
22777 Springwoods Village Pkwy.
Spring, TX 77389

Operator (BO233012)

- **XTO Energy, Inc**
22777 Springwoods Village Pkwy.
Spring, TX 77389

State Lease (BO148413)

- **Oxy USA WTP Limited Partnership (Lessee)**
PO BOX 4294
Houston, Tx 77210

Operator

- **Special Energy Corp**
4815 S Perkins Rd
Stillwater, OK 74074

Operator (B113011)

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

- **Chevron USA, Inc**
6301 Deauville Blvd.
Midland, TX 79706

Section 3, T24S-R36E

Federal Lease (NMNM 0030467B)
Operator

- **CCC Oil & Gas, LLC**
7 Crawford Ln
Jal, NM 88252

Operator (Fee)

- **XTO Energy, Inc**
22777 Springwoods Village Pkwy.
Spring, TX 77389

Section 10, T24S-R36E

Operator (Fee)

- **CCC Oil & Gas, LLC**
7 Crawford Ln
Jal, NM 88252

Operator (Fee)

- **Saxet Oil Corp**
505 N Big Spring St
Midland, TX 79701

Section 11, T24S-R36E

Operator (Fee & Federal)

- **Special Energy Corp**
4815 S Perkins Rd
Stillwater, OK 74074

Operator (Fee)

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

Operator (Fee)

- **Breck Operating Corp**
300 N Breckenridge Ave
Breckenridge, TX 76424

- **Burlington Resources Oil & Gas Co., LP (Lessee)**
3401 E 30TH St
Farmington, NM 87402

- **Kerr-McGee OG Onshore, LP (Lessee)**
1999 Broadway #3700
Denver, Co 80202

Section 12, T24S-R36E

Operator
Federal Lease (NMNM 0030467A)

- **Fulfer Oil & Cattle, LLC**
101 E Panther Ave
Jal, NM 88252

Section 35, T23S-R36E

Operator (Federal)

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

Dart SWD #1

Location: 437' FSL & 675' FWL

Sec. 2, T-24-S, R-36-E

Estimated Pre-Drill Formation Tops

Top of Salt	1,470'
Base Salt	2,870'
Tansill	3,045'
Yates	3,070'
Capitan Reef	3,120'
Delaware Mountain Group	5,870'
Bone Spring/Abo	7,970'
Wolfcamp	8,870'
Strawn	9,370'
Atoka	9,620'
Morrow	9,870'
Barnett	10,870'
Mississippian	11,170'
Woodford	11,770'
Devonian	11,970'

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

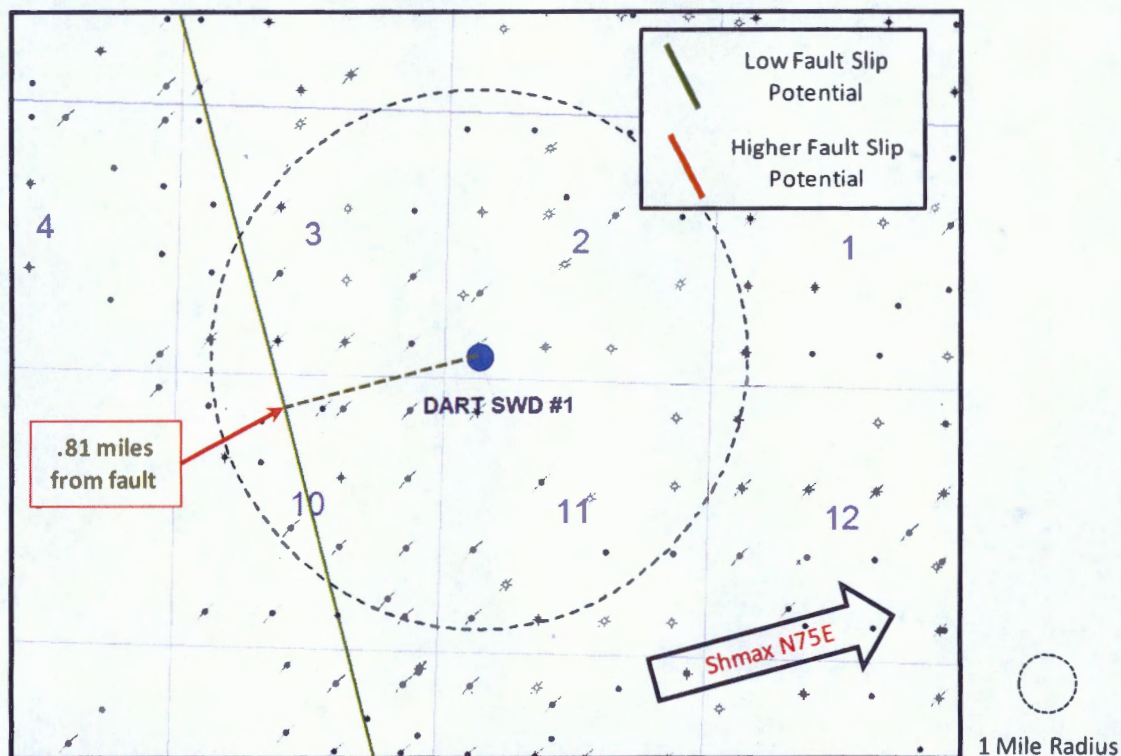
Historically, the area near the proposed Dart SWD #1 has seen only minor seismic activity. There have been two seismic events (as per public data available on the USGS database) in the area. All events are over 8.0 miles from the proposed SWD location. The most recent event was 17.1 miles southeast on May 3, 2017 and measured 2.6, the closest was 8.7 miles to the NE 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 .81 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.

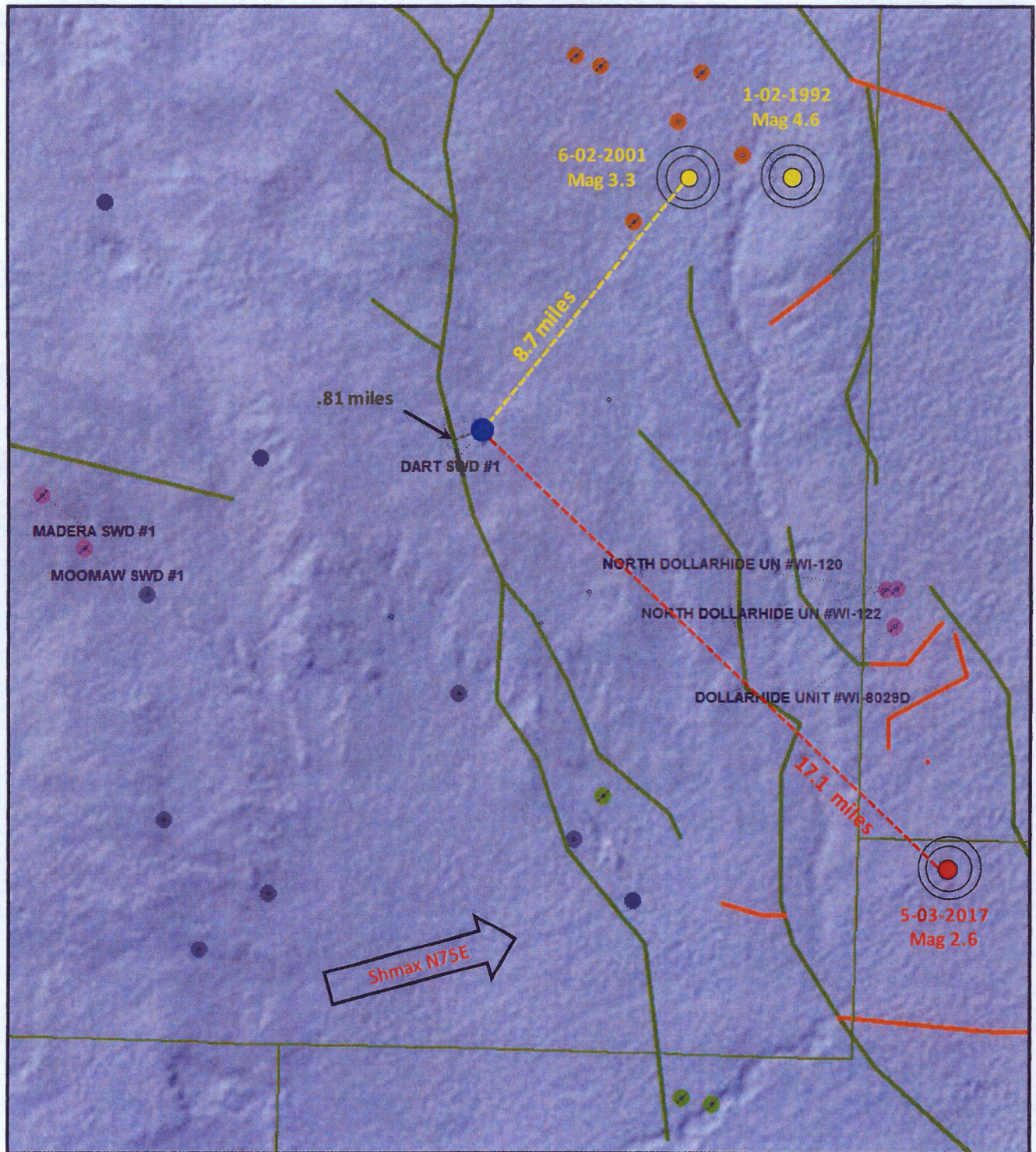
The proposed Dart SWD #1 is located well away from the nearest active Devonian SWD or other SWD wells (see map below). The well should meet current OCD and Industry recommended practices.

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 provided 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.

Daniel Russell

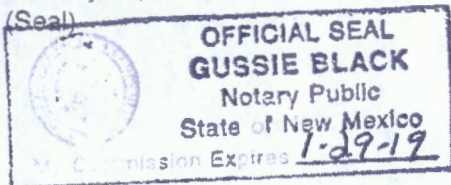
Publisher

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

Gussie Black

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, 2019

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 Dart SWD #1 as a Commercial Salt Water Disposal well.

The Dart SWD #1 is located at 437' FSL and 675' FWL, Unit Letter M, Section 2, 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 11,970' to 12,970' at a maximum rate of 25,000 barrels of water per day at a maximum pressure of 2,394 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. #33640

67114908

00223451

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

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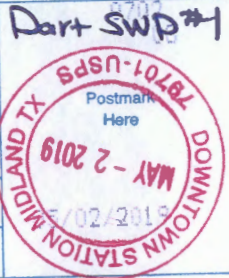
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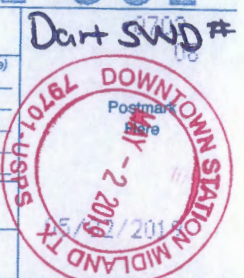
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Spring, TX 77389

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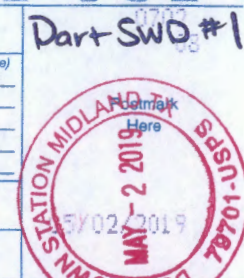
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Dart SWP #1



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Dart SWP #1



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Dart SWP #1



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Dart SWP #1



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City, State, ZIP+4®

Midland, TX 79706

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Postage \$1.75

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

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Dart SWP #1



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Street and Apt. No., or PO Box No.
3401 E. 30th St.
City, State, ZIP+4®
Farmington, NM 87402
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Postage \$1.75

Total Postage and Fees \$5.05

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New Mexico State Land Office
Street and Apt. No., or PO Box No.
310 Old Santa Fe Trail
City, State, ZIP+4®
Santa Fe, NM 87501
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



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Postage \$1.75

Total Postage and Fees \$5.05

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Breck Operating Corp.
Street and Apt. No., or PO Box No.
300 N Breckenridge Ave.
City, State, ZIP+4®
Breckenridge, TX 76424
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



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HOBBS NM 88240
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☐ Adult Signature Required \$0.00
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Postage \$1.75

Total Postage and Fees \$5.05

Sent To
State of New Mexico OGD District I
Street and Apt. No., or PO Box No.
1625 N. French Dr.
City, State, ZIP+4®
Hobbs, NM 88240
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



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

April 30, 2019

Surface Owner / Offset Operators

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

Ladies and Gentlemen:

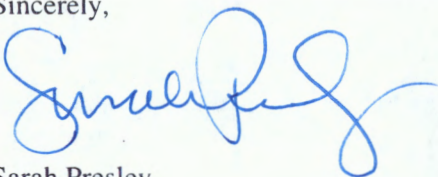
Delaware Energy, LLC is seeking administrative approval to utilize the proposed Dart SWD #1 as a commercial Salt Water Disposal well. As required by the New Mexico Oil Conservation Division Rules, we are notifying you of the following proposed salt water disposal well. This letter is a notice only. No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

<u>Well:</u>	Dart SWD #1
<u>Proposed Disposal Zone:</u>	Devonian Formation (from 11,970' - 12,970')
<u>Location:</u>	437' FSL & 675' FWL, UL M, Sec. 2, 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