

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: 04/09/2019	REVIEWER:	TYPE: SWD	APP NO: PMAM19100 36531
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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: Flash SWD #1 **API:** Pending
Pool: SWD; Devonian **Pool Code:** 96101

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

APR 09 2019 PM02:05

- 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
Flash SWD #1

APR 09 2019 PM02:05

UL D, Sec. 32, T-24-S, R-37-E, 521' FNL & 961' FWL, 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 Flash 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 3, 2019

Surface Owner / Offset Operators

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

Ladies and Gentlemen:

Delaware Energy, LLC is seeking administrative approval to utilize the proposed Flash 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>	Flash SWD #1
<u>Proposed Disposal Zone:</u>	Devonian Formation (from 9,245' - 10,245')
<u>Location:</u>	521' FNL & 961' FWL, UL D, Sec. 32, T24S, R37E, 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:

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

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

Pogo Resources, LLC
4809 Cole Ave., Ste. 108
Dallas, TX 75205

Penroc Oil Corporation
P.O.Box 2769
Hobbs, NM 88241

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

Petroleum Exploration Co. LTD
P.O. Box 548
Breckenridge, TX 76424

Patriot Energy
P.O. Box 548
Breckenridge, TX

Apache Corp
303 Veterans Airpark Ln
Midland, TX 79705

Cameron Oil & Gas, Inc.
PO Box 1089
Eunice, NM 88231

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

Kerr-McGee Oil & Gas Onshore, LP
1201 Lake Robbins Dr.
Spring
The Woodlands, TX 77380

Conoco Phillips Co.
P.O.Box 2197
Houston, TX 77252

Special Energy Corp
PO Box 369
Stillwater, OK 74076-0369

McDonnold Operating, Inc.
505 N Big Spring St # 204
Midland, TX 79701

Legacy Reserves Operating, LP
303 W Wall St.
Midland, TX 79701

Oxy USA, Inc
PO Box 50250
Midland, TX 79710

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 XXXDisposal _____Storage
Application qualifies for administrative approval? XXYes _____No
- II. OPERATOR: Delaware Energy, LLC
ADDRESS: 405 North Marienfeld, Suite 250, Midland TX 79701
CONTACT PARTY: Mike McCurdyPHONE: 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 XXXXNo
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: _____

INJECTION WELL DATA SHEET

OPERATOR: Delaware Energy, LLCWELL NAME & NUMBER: Flash SWD # 1WELL LOCATION: 521' FNL & 961' FWL D 32 24S 37E
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: 9,245'Injection Interval

9,245' feet to 10,245'

(OPEN HOLE)

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 1,849 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 9,245'-10,245'. Devonian is an impermeable organic Shale at the very top (8,945' 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 +/- 210', the water source is older alluvium (Quaternary). All the fresh water wells in the area have an average depth to water of 210ft 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 32.19551, -103.19166

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 Flash 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.

Flash SWD #1, Sec. 32-T24S-R37E, 521' FNL & 961' FWL, UL D, 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"	7,945'	2500	12-1/4"	Surface	CIRC
7-5/8"	7,745'-9,245'	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.

9,245' to 10,245' (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 3,528' – 7,468'; Bone Springs 7,468' – 10,208'; Wolfcamp 10,208' – 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 (575) 393-6101 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1263 Fax: (505) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals 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 FLASH SWD	Well Number 1
OGRID No. 371195	Operator Name DELAWARE ENERGY	Elevation 3245

Surface Location

UL or lot No. D	Section 32	Township 24 S	Range 37 E	Lot Idn	Feet from the 521	North/South line NORTH	Feet from the 961	East/West line WEST	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

N.: 431496.1 E.: 893990.9 (NAD83)	961'	521'	N.: 431552.3 E.: 899293.5 (NAD83)
SURFACE LOCATION Lat - N 32.179692° Long - W 103.190368° NMSPE- N 430985.2 E 894960.8 (NAD-83)			
32			
N.: 426214.5 E.: 894078.9 (NAD83)	N.: 426242.6 E.: 896717.8 (NAD83)	N.: 426270.7 E.: 899356.8 (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 4.3.19
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.

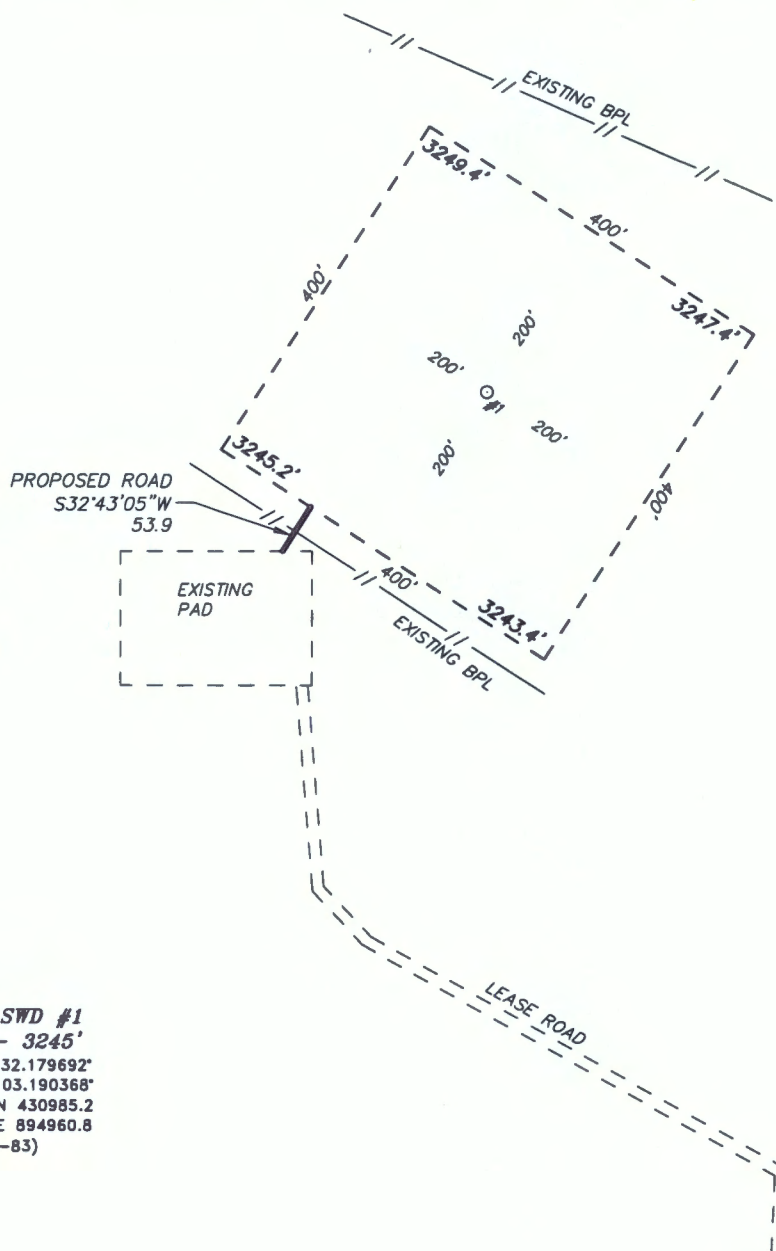
OCTOBER 30 2018
Date Surveyed

Signature & Seal of Professional Surveyor
7977

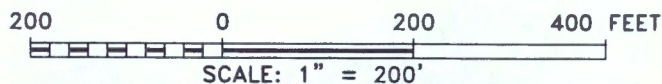
Certificate No. 7977
BASIN SURVEYS

0' 1000' 2000' 3000' 4000'
SCALE: 1" = 2000'
WO Num.: 34168

**SECTION 32, TOWNSHIP 24 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



JAL, NM IS ±5 MILES TO THE SOUTH OF LOCATION.



DELAWARE ENERGY

REF: FLASH SWD #1 / WELL PAD TOPO

THE FLASH SWD #1 LOCATED 521' FROM
THE NORTH LINE AND 961' FROM THE WEST LINE OF
SECTION 32, TOWNSHIP 24 SOUTH, RANGE 37 EAST.

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



P.O. Box 1728 (575) 393-7318 - Office
1120 N. West County Rd. (575) 392-2206 - Fax
focused on excellence Hobbs, New Mexico 88241 basin-surveys.com
in the oilfield

W.O. Number: 34168

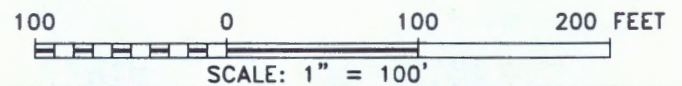
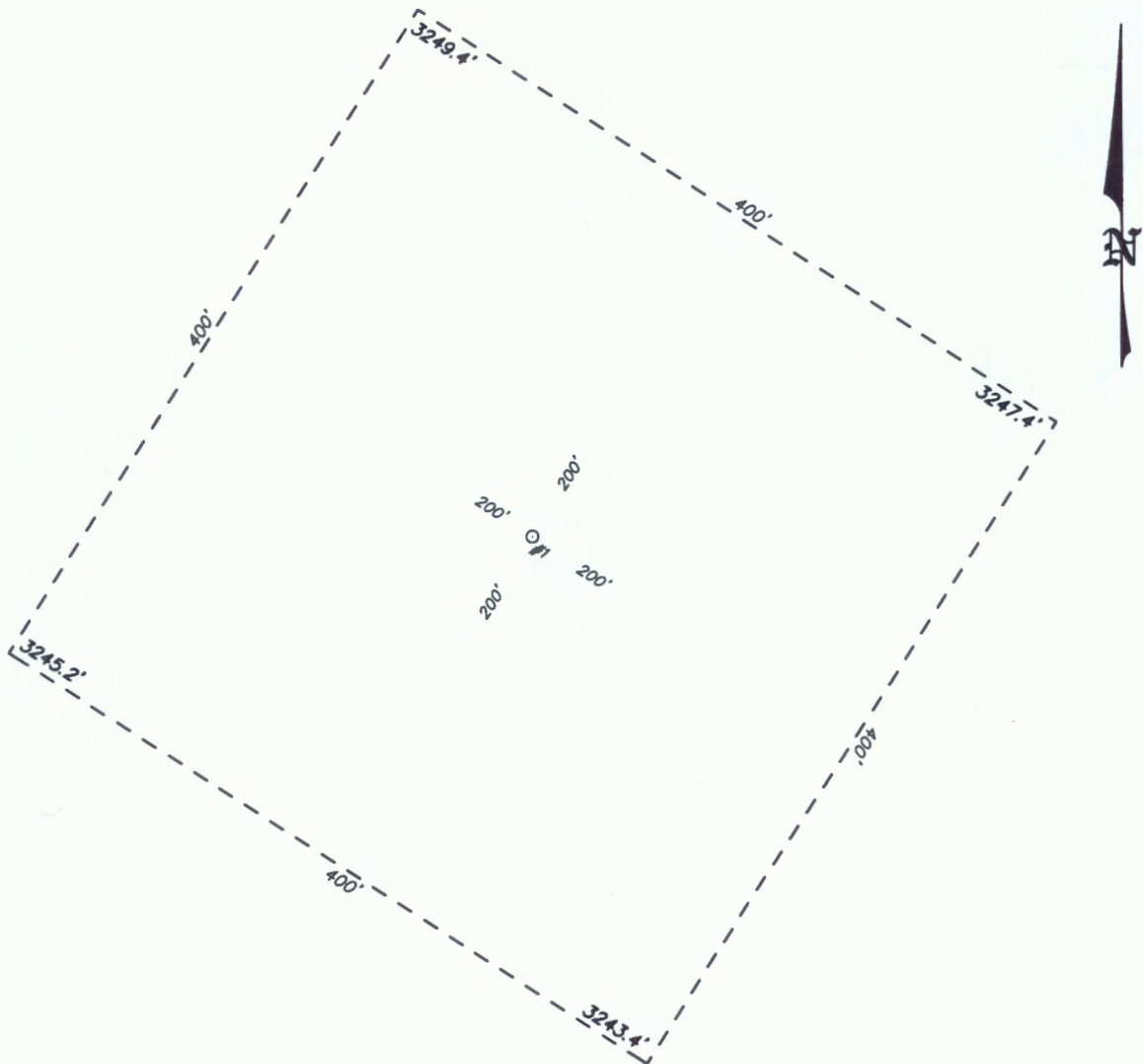
Drawn By: J GOAD

Date: 11-5-2018

Survey Date: 10-30-2018

Sheet 1 of 1 Sheets

SECTION 32, TOWNSHIP 24 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DELAWARE ENERGY

REF: FLASH SWD #1 / WELL PAD TOPO

THE FLASH SWD #1 LOCATED 521' FROM
THE NORTH LINE AND 961' FROM THE WEST LINE OF
SECTION 32, TOWNSHIP 24 SOUTH, RANGE 37 EAST.

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



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



FLASH SWD #1

Located 521' FNL and 961' FWL
 Section 32, Township 24 South, Range 37 East,
 N.M.P.M., Lea County, New Mexico.

basin
surveys
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 in the oilfield

P.O. Box 1785
 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'

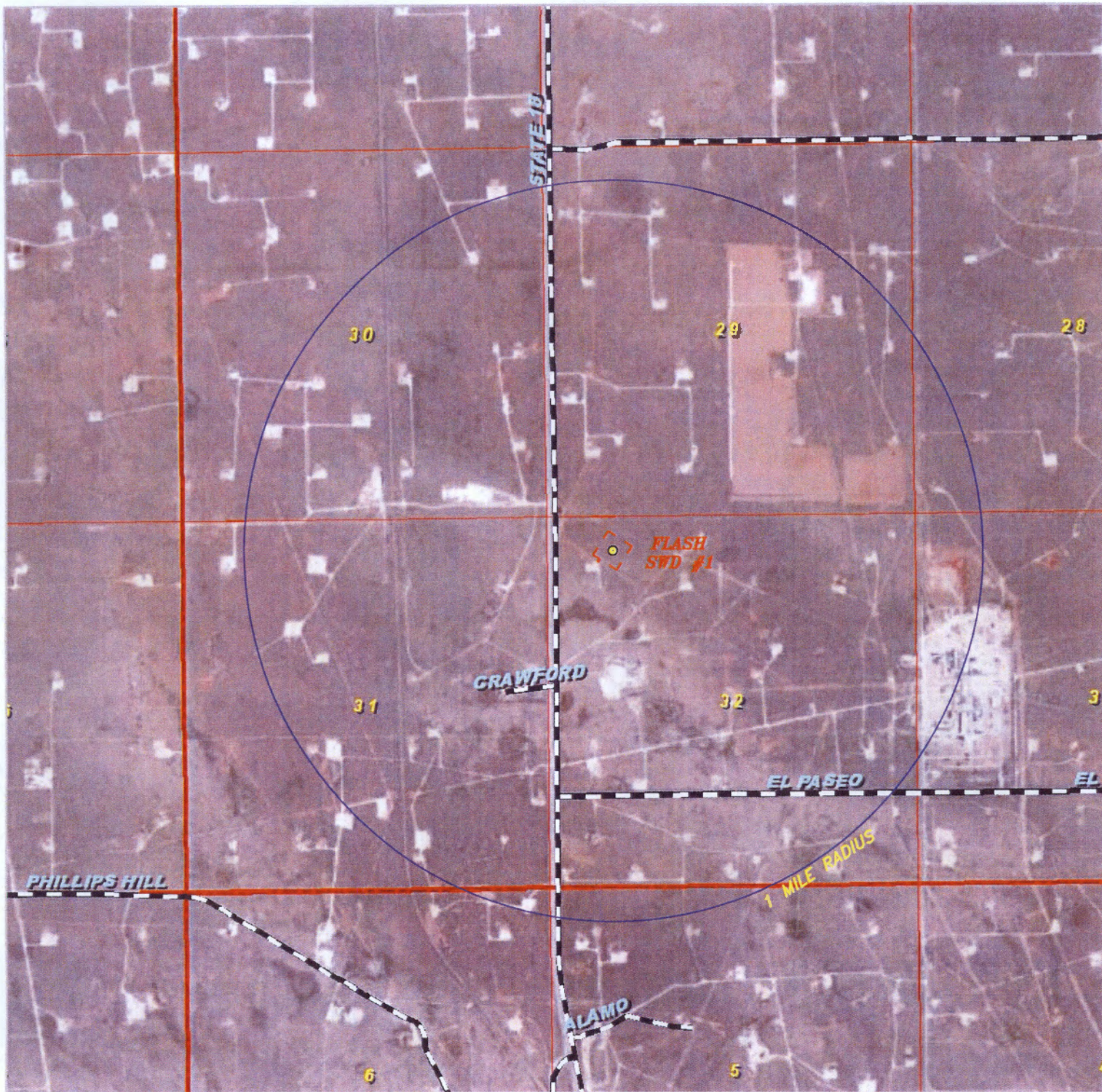
W.O. Number: JG 34168

Survey Date: 10-30-2018

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



DELAWARE
ENERGY



FLASH SWD #1

Located 521' FNL and 961' FWL
 Section 32, Township 24 South, Range 37 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) 392-2208 - Fax
 basin-surveys.com

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

W.D. Number: JG 34168

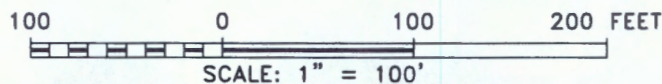
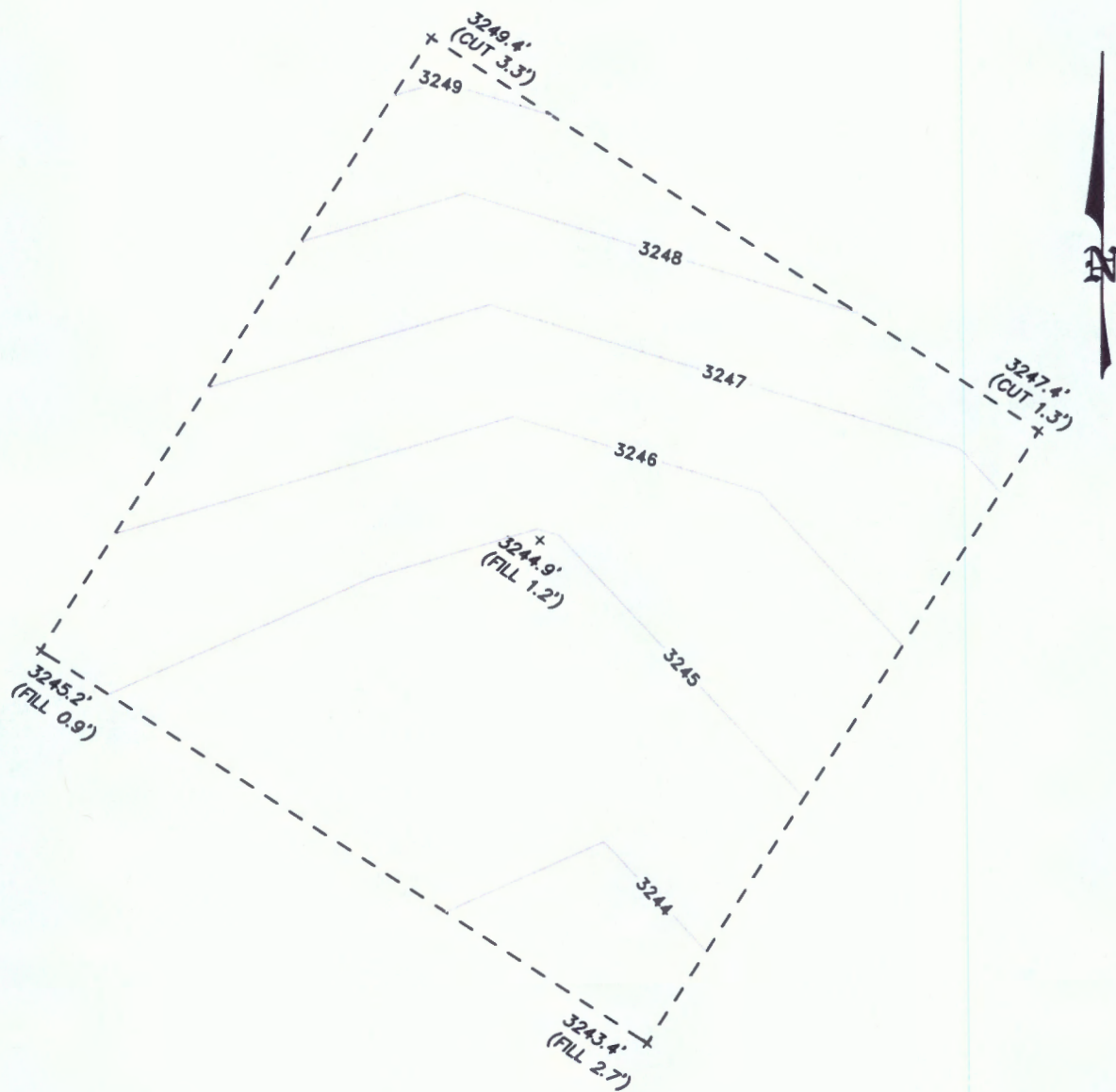
Survey Date: 10-30-2018

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



DELAWARE
ENERGY

SECTION 32, TOWNSHIP 24 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



DELAWARE ENERGY

REF: FLASH SWD #1 / CUT & FILL

THE FLASH SWD #1 LOCATED 521' FROM
THE NORTH LINE AND 961' FROM THE WEST LINE OF
SECTION 32, TOWNSHIP 24 SOUTH, RANGE 37 EAST.

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



P.O. Box 1788 (575) 393-7318 - Office
1120 N. West County Rd (575) 392-2208 - Fax
Hobbs, New Mexico 88241 basin-surveys.com

Water Analysis - Disposal Zone - DEVONIAN

NM WAIDS DATA				
S-T-R	FIELD	FORMATION	TDS	CHLRD
24-235-29E	REMUDA	DEVONIAN	64582	37500
24-235-29E	REMUDA	DEVONIAN	56922	29000
06-235-34E	BELL LAKE NORTH	DEVONIAN	71078	42200
34-235-34E	ANTELOPE RIDGE	DEVONIAN	80187	47900

Water Analysis - Source Zone - BONE SPRING

Biotech
Laboratory Analysis

Requested by: T. Ratliff

Endurance
Jazzmaster 17 State #4H

Sample Date: 1/31/2014

Lea Co. NM

Water Analysis Measurements		Cations (+)		Anions (-)	
Oxygen (mg/L)	100	Barium (Ba)	0	Carbonate (CO ₃)	0
Carbon Dioxide (mg/L)	628.18	Calcium (Ca)	18.440	Bicarbonate (HCO ₃)	11.60
Hydrogen Sulfide (mg/L)	0.0	Magnesium (Mg)	380	Chloride (mg/L)	118.520
pH	5.7	Sodium (Na)	54.270	Sulfate (SO ₄)	319
Temperature °F	73	Iron (Fe)	3.00		
		Manganese (Mn)	0.07		
Oil in Water (ppm)	N/A				
Specific Gravity	1.150				
Total Dissolved Solids (TDS)	186.458				
(mg/L) (um)	18.000				
Total Hardness (mg/L)	18.000				

Water Analysis - Source Zone - DELAWARE

Biotech
Laboratory Analysis

Requested by: T. Ratliff

Endurance
Jazzmaster 17 State #4H

Sample Date: 1/31/2014

Lea Co. NM

Martin Water Laboratories, Inc.

RESULT OF WATER ANALYSIS

TO: Mr. Joe Scull LABORATORY NO: 89293

FROM: P.O. Box 51810, 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 SURVEY: Lea COUNTY: Lea STATE: NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO 1: Recovered 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.	1.1462			
pH at 60° F.	5.26			
Oil in Water (ppm)	1.16			
Total Dissolved Solids (TDS)	186.458			
Total Hardness (mg/L)	18.000			
Calcium (Ca)	18.440			
Magnesium (Mg)	380			
Sodium (Na)	54.270			
Iron (Fe)	3.00			
Manganese (Mn)	0.07			
Barium (Ba)	0			
Carbonate (CO ₃)	0			
Bicarbonate (HCO ₃)	11.60			
Chloride (mg/L)	118.520			
Sulfate (SO ₄)	319			
Temperature °F	73			
Carbon Dioxide (mg/L)	628.18			
Hydrogen Sulfide (mg/L)	0.0			
pH	5.7			
Oil in Water (ppm)	N/A			
Specific Gravity	1.150			
Total Dissolved Solids (TDS)	186.458			
(mg/L) (um)	18.000			
Total Hardness (mg/L)	18.000			



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

Water Analysis

Code 213702

Client Information

**Delaware Energy
County:**

Rep: Derrick Boutwell

Sample Information

Lease/Well: Flash/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)	127
Iron (as Fe)	0
Sodium (as Na)	100
Magnesium (as Mg)	38

Anions

Ion	Concentration(mg/L)
Chlorides (as Cl)	166
Sulfate (as SO ₄)	228
Carbonate (as CO ₃)	0
Bicarbonates (as HCO ₃)	220
Sulfide (as S ²⁻)	0

Other Measurements

Measurement	Value
pH	8.24
SG	1.001
Turbidity	3
CO ₂	
Total Dissolved Solids	879.000

Scaling Indices

Temp(F)	CaCO ₃	CaSO ₄ *2H ₂ O	CaSO ₄	BaSO ₄
80	1.2648	0.0000	0.0000	-27.6831
120	1.5753	0.0000	0.0000	-27.8897
160	1.9151	0.0000	0.0000	-27.9995
200	2.2232	0.0000	0.0000	-28.0423
250	2.5108	0.0000	0.0000	-28.0367

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

Comments

N 32.19551
W 103.19166

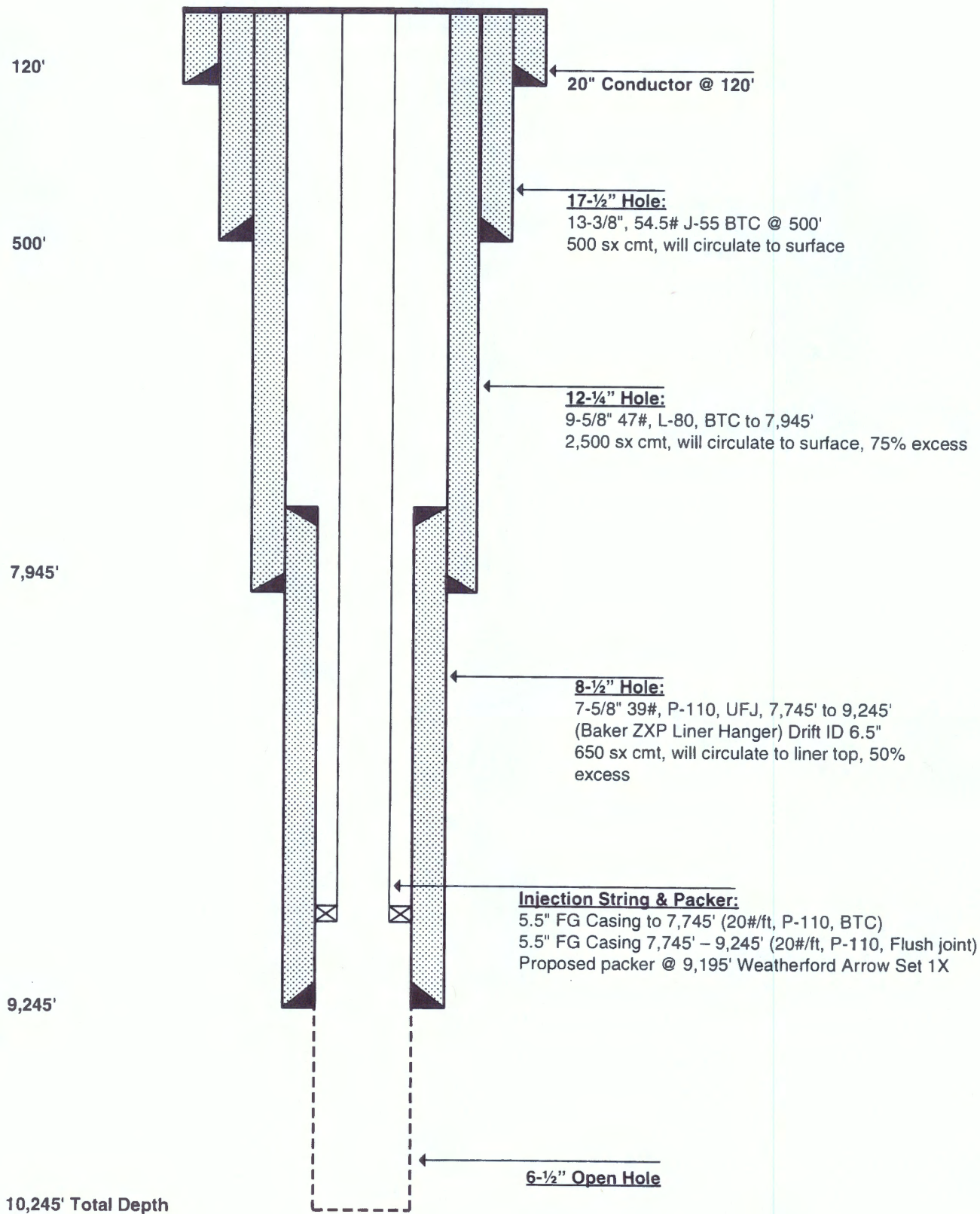
Flash SWD # 1

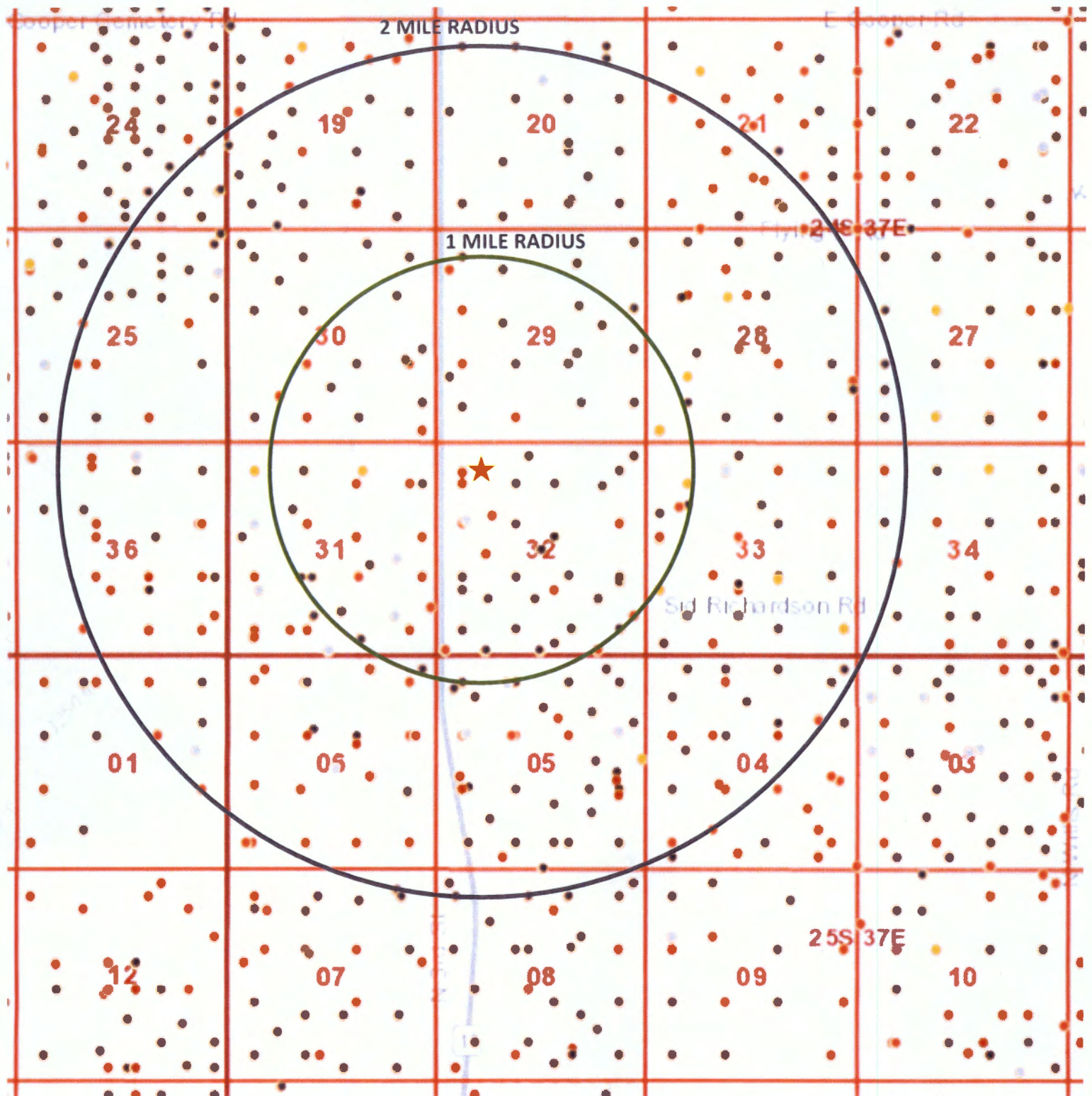
API # PENDING
521' FNL & 961' FWL, Sec. 32, T24S, R37E, UL "D"
LEA COUNTY, NEW MEXICO

ELEVATION:

GL: 3,245'

PROPOSED WELLBORE





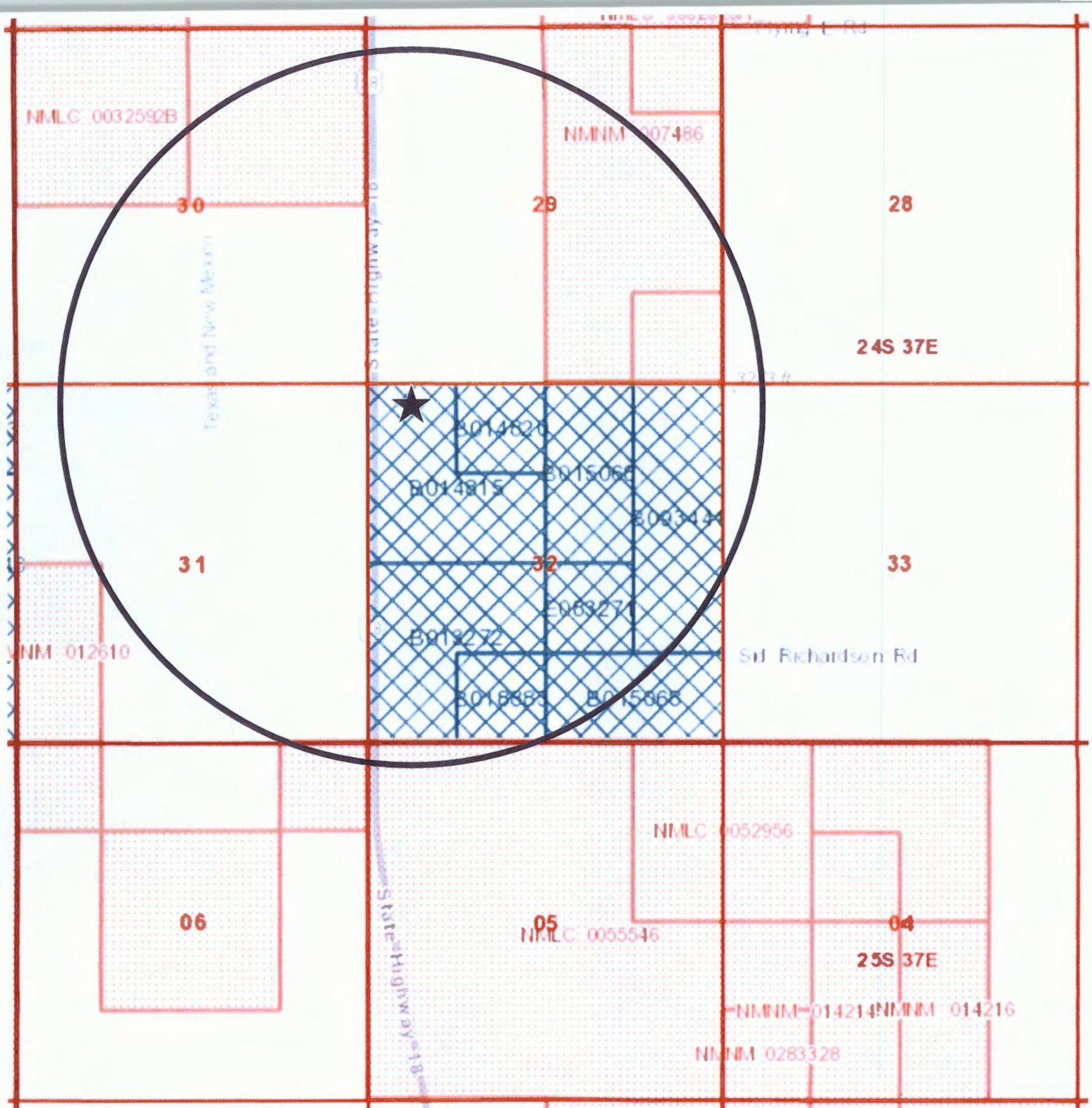
WELLS – ONE MILE RADIUS

NO WELLS PENETRATE THE DEVONIAN FORMATION IN THE AOR

SECTION 32-T24S-R37E



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



LEASES – ONE MILE RADIUS

★ Flash SWD #1
 Sec. 32-T24S-R37E
 Lea Co. NM

Flash SWD #1

LEASES – ONE MILE RADIUS

Section 5, T25S-R37E

Federal Lease

Operator

- **Herman L Loeb, LLC**
10760 Country Club Rd.
Lawrenceville, IL 62439
- **Pogo Oil & Gas Operating, Inc**
1515 W. Calle Sur, Suite 174
Hobbs, NM 88240
- **Pogo Resources, LLC**
4809 Cole Ave., Ste. 108
Dallas, TX 75205
- **Penroc Oil Corporation**
P.O.Box 2769
Hobbs, NM 88241

Section 6, T25S-R37E

Federal Lease

Operator

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

Section 31, T24S-R37E

Fee

Operator

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

Operator

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

Operator

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

- **Patriot Energy**
P.O. Box 548
Breckenridge, TX 76424

Section 32, T24S-R37E

State Lease

Operator

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

Operator

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

Operator

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

Operator

- **Cameron Oil & Gas, Inc.**
PO Box 1089
Eunice, NM 88231

Operator

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

Operator

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

State Lease (B014815)

- **Kerr-McGee Oil & Gas Onshore, LP**
1201 Lake Robbins Dr.
Spring
The Woodlands, TX 77380
- **Conoco Phillips Co. (E08327)**
P.O.Box 2197
Houston, TX 77252
- **Patriot Energy**
P.O. Box 548
Breckenridge, TX 76424

Section 33, T24S-R37E

Fee
Operator

- **Special Energy Corp**
PO Box 369
Stillwater, OK 74076-0369

Section 28, T24S-R37E

Fee
Operator

- **McDonnold Operating, Inc.**
505 N Big Spring St # 204
Midland, TX 79701

Section 29, T24S-R37E

Federal Lease
Operator

- **McDonnold Operating, Inc.**
505 N Big Spring St # 204
Midland, TX 79701

Fee
Operator

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

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

Section 30, T24S-R37E

Federal Lease
Operator

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

Federal Lease
Operator

- **Legacy Reserves Operating, LP**
303 W Wall St.
Midland, TX 79701

Fee
Operator

- **Special Energy Corp**
PO Box 369
Stillwater, OK 74076-0369

Fee
Operator

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

Flash SWD #1

Location: 521' FNL & 961' FWL

Sec. 32, T-24-S, R-37-E

Estimated Pre-Drill Formation Tops

Top of Salt	1,245'
Base Salt	2,495'
Tansill	2,545'
Yates	2,695'
Bone Spring/Abo	7,545'
Wolfcamp	7,945'
Mississippian	8,645'
Woodford	8,945'
Devonian	9,245'

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

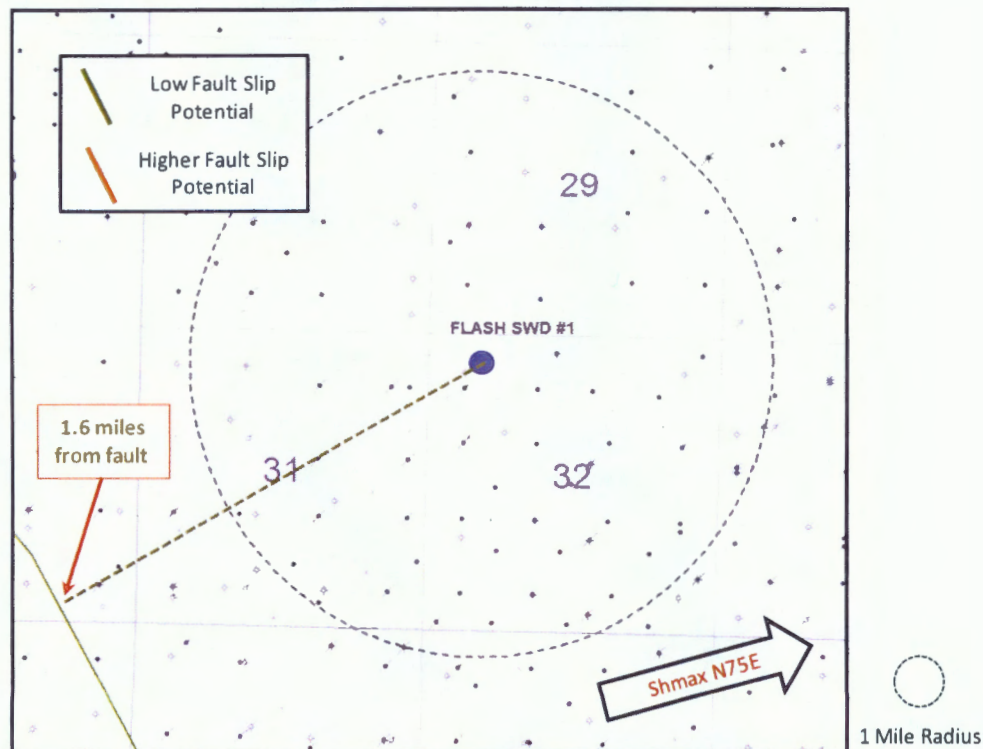
Historically, the area near the proposed Flash SWD #1 has not seen any major seismic activity. There have been two seismic events (as per public data available on the USGS database) in the area. All events are over 11.0 miles from the proposed SWD location. The most recent event was 12.1 miles southeast on May 3, 2017 and measured 2.6, the closest was 11.3 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 1.6 miles SW 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 SW 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 reduced due to the distance of the proposed SWD well from the fault (1.6 miles). There has been no nearby seismicity associated or documented with this fault found in the public domain.

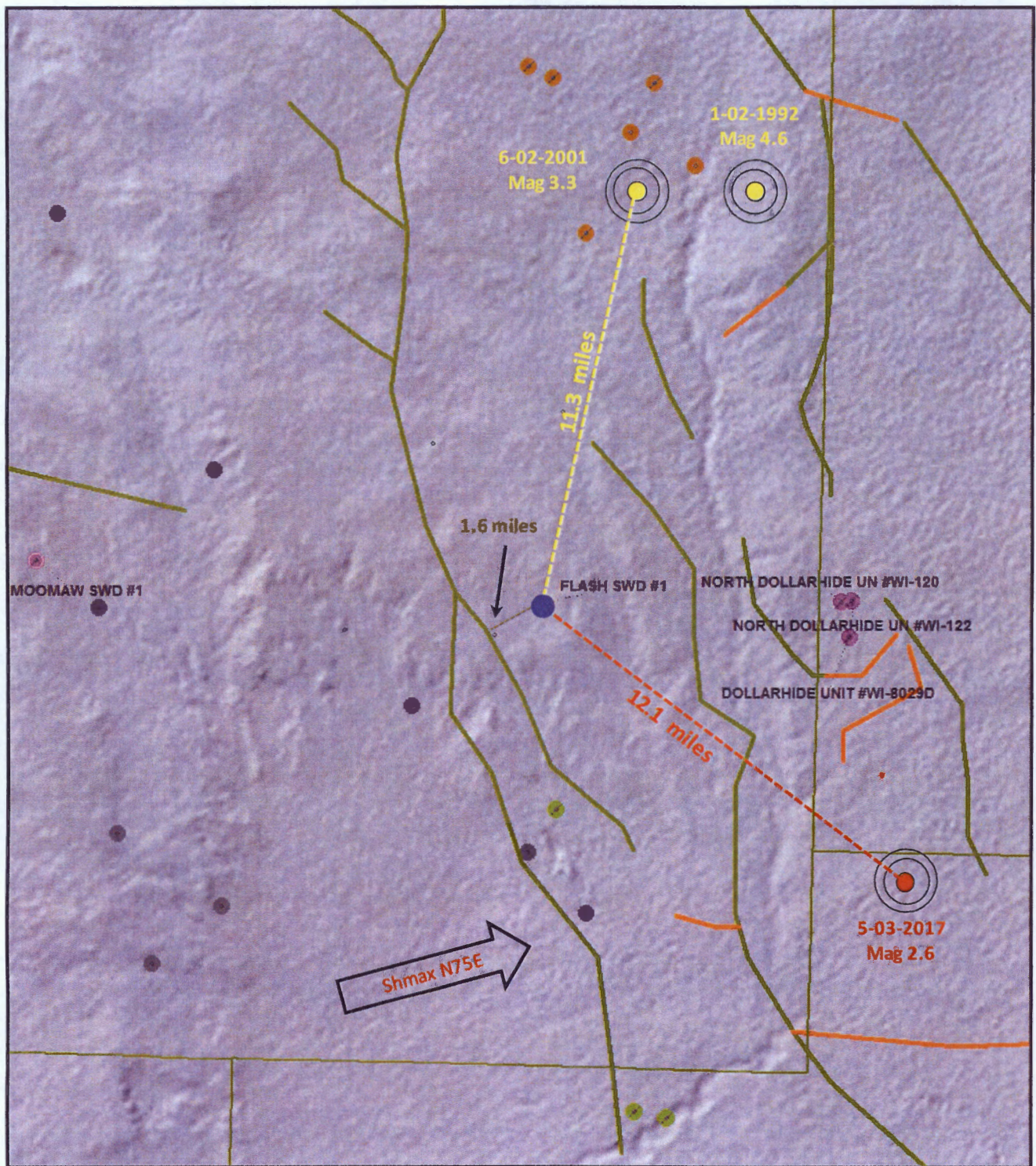
The proposed Flash SWD #1 is located well away from the nearest active Devonian SWD or other SWD wells (see map below). The well should meet current OCD and Industry recommended practices.

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)



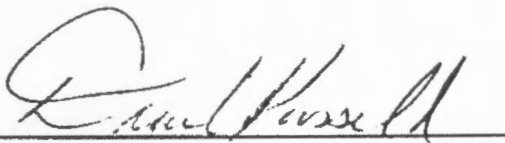
Data and Interpretation Disclosure - Although care has been taken to ensure that these data are up to date and accurate, this information and data is being providing as is. The data are what is believed to be the best public data available based on published documents, reports, and information available 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

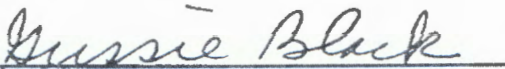
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

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



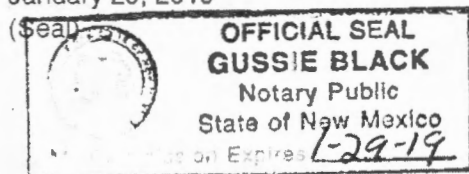
Publisher

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

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

The Flash SWD #1 is located at 521' FNL and 961' FWL, Unit Letter D, Section 32, Township 24 South, Range 37 East, Lea County, New Mexico. The well will dispose of water produced from oil and gas wells into the Devonian Formation from 9,245' to 10,245' at a maximum rate of 25,000 barrels of water per day at a maximum pressure of 1,849 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 #33637

67114908

00223458

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

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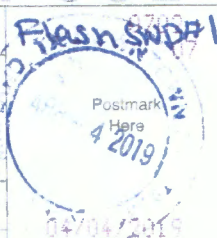
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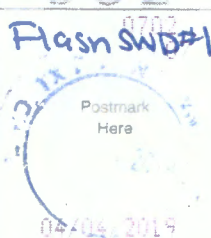
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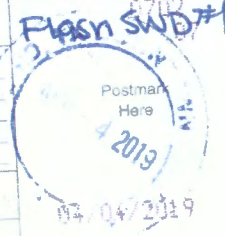
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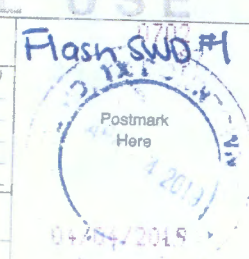
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Street and Apt. No., or PO Box No.

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City, State, ZIP+4®
The Woodlands, TX 77380

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

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☐ Return Receipt (hardcopy) \$2.80
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☐ Certified Mail Restricted Delivery \$0.00
☐ Adult Signature Required \$0.00
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Postage \$1.75

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