

RECEIVED:	REVIEWER:	TYPE:	APP NO: PAM 191354 1237
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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: Tarantula Hawk 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

4/30/2019

Date

432-685-7005

Phone Number

s.presley@delawareenergy.com

e-mail Address

Delaware Energy, LLC
Application for Injection/SWD
Tarantula Hawk SWD #1

MAY 14 2019 PM03:23

MAY 14 2019 PM03:22

UL P, Sec. 18, T-26-S, R-28-E, 210' FSL & 400' FEL, Eddy 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 Bone Spring Formation Water Sample
6. Chemical Analysis of Wolfcamp Formation Water Sample
7. Chemical Analysis of Delaware Formation Water Sample
8. Planned wellbore diagram for the Tarantula Hawk 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 30, 2019

Surface Owner / Offset Operators

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

Ladies and Gentlemen:

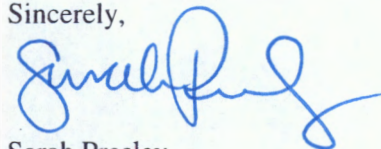
Delaware Energy, LLC is seeking administrative approval to utilize the proposed Tarantula Hawk SWD #1 as a commercial Salt Water Disposal well. As required by the New Mexico Oil Conservation Division Rules, we are notifying you of the following proposed salt water disposal well. This letter is a notice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

<u>Well:</u>	Tarantula Hawk SWD #1
<u>Proposed Disposal Zone:</u>	Devonian Formation (from 14,294' - 15,294')
<u>Location:</u>	210' FSL & 400' FEL, UL P, Sec. 18, T26S, R28E, Eddy Co., NM
<u>Applicants Name:</u>	Delaware Energy, L.L.C.
<u>Applicants Address:</u>	405 N. Marienfeld, Suite 200, Midland, TX 79701

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

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

Sincerely,



Sarah Presley

DISTRIBUTION LIST

Surface Owner:

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

Offset Operators/Leasehold Owners:

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

COG Operating, LLC
600 W. Illinois
Midland, TX 79701

EOG Resources, Inc
5509 Champions Dr.
Midland, TX 79706

Chevron USA, Inc.
6301 Deauville Blvd.
Midland, Texas 79706-2964

Cimarex Energy Co.
600 N Marienfeld, Ste. 600
Midland, TX 79701

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 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 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: 4/30/2019
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.

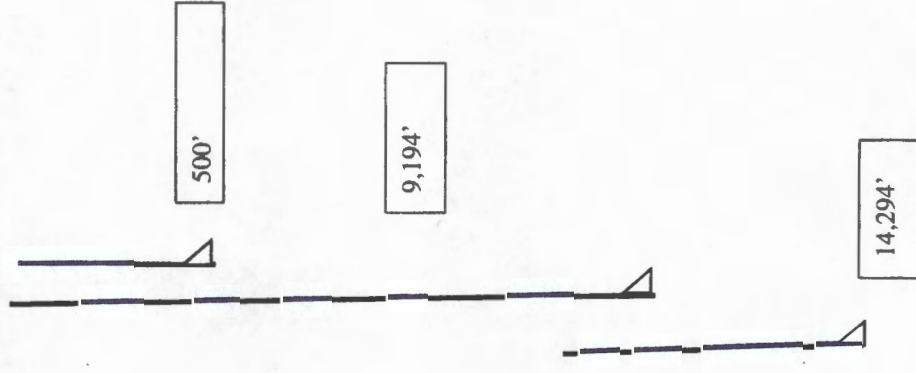
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (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: Tarantula Hawk SWD # 1WELL LOCATION: 210' FSL & 400' FEL P 18 26S 28E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATIC see attached wellbore sketchWELL CONSTRUCTION DATASurface CasingHole Size: 17-1/2" Casing Size: 13-3/8", 54.5#
Cemented with: 500 sx. or ft³
Top of Cement: surface Method Determined: Plan to CirculateIntermediate CasingHole Size: 12-1/4" Casing Size: 9-5/8", 47#, L-80
Cemented with: 2,500' sx. or ft³
Top of Cement: surface Method Determined: Plan to CirculateProduction CasingHole Size: 8-1/2" Casing Size: 7-5/8", 39#, P-110
Cemented with: 650 sx. or ft³
Top of Cement: Top of Liner Method Determined: Plan to Circulate
to liner topTotal Depth: 14,294'Injection Interval14,294' feet to 15,294'
(OPEN HOLE)

INJECTION WELL DATA SHEETTubing Size: 5.5" BTC x 5.5" Flush Joint Lining Material: Fiber GlassType of Packer: Weatherford Arrow Set IXPacker Setting Depth: 14,244'Other Type of Tubing/Casing Seal (if applicable): noneAdditional Data1. Is this a new well drilled for injection? XXXXXX Yes NoIf no, for what purpose was the well originally drilled? N/A2. 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 2,394' - 6,094'; Bone Springs 6,094' - 9,194'; Wolfcamp 9,194' - 11,694'; Strawn 11,694' - 11,994'; Atoka 11,994' - 12,694'; Morrow 12,694' - 14,994'

Additional Questions on C-108

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 2,859 PSI

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

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

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

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

***VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.**

The proposed disposal interval is in the Devonian formation 14,294'-15,294'. Devonian is an impermeable organic Shale at the very top (14,194 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.

Water Sample attached taken from 32.127208. -104.127848

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 Tarantula Hawk 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.

Tarantula Hawk SWD #1, Sec. 18-T26S-R28E, 210' FSL & 400' FEL, UL P, Eddy County, New Mexico

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

Casing Size	Setting Depth	Sacks of Cement	Hole Size	Top of Cement	Determined
13-3/8"	500'	500	17-1/2"	Surface	CIRC
9-5/8"	9,194'	2500	12-1/4"	Surface	CIRC
7-5/8"	8,994'-14,294'	650	8-1/2"	Liner Top	CIRC & CBL

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

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

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

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

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

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

Devonian Formation

Pool Name: SWD (Devonian)

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

14,294' to 15,294' (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 2,394' – 6,094'; Bone Springs 6,094' – 9,194'; Wolfcamp 9,194' – 11,694'; Strawn 11,694' – 11,994'; Atoka 11,994' – 12,694'; Morrow 12,694' – 14,994'

Next Lower: None

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-8181 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1263 Fax: (575) 748-9729

DISTRICT III
1000 Rio Braxos Rd., Aztec, NM 87410
Phone (505) 334-6176 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 TARANTULA HAWK SWD	Well Number 1
OGRID No. 371195	Operator Name DELAWARE ENERGY	Elevation 3094'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	26 S	28 E		210	SOUTH	400	EAST	EDDY

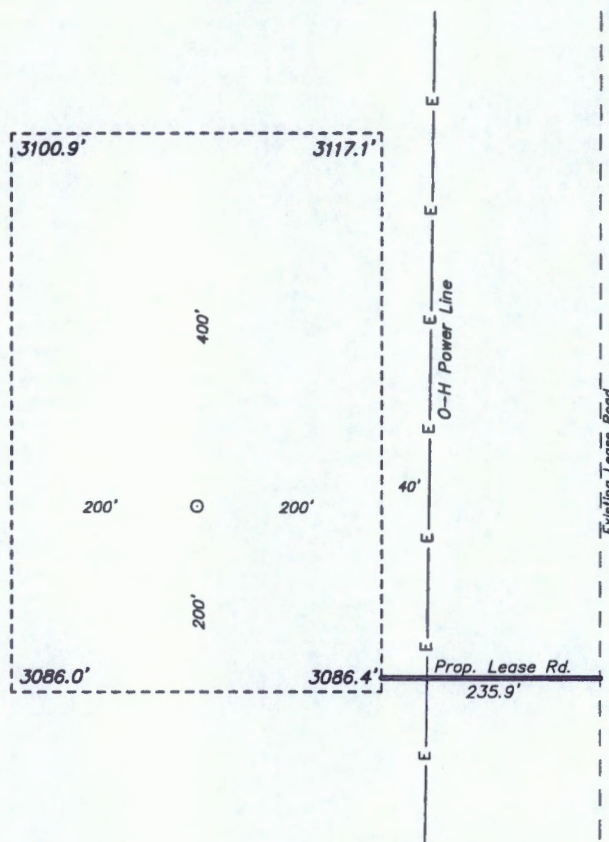
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

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

N.: 376552.4 E.: 602736.5 (NAD83)	N.: 379173.4 E.: 608037.3 (NAD83)	N.: 381913.1 E.: 608008.6 (NAD83)	SURFACE LOCATION Lat - N 32.119378° Long - W 104.119378° NMSPC-E N 376878.7 E 607636.7 (NAD-83)	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Sarah Presley</i> 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. MARCH 11, 2019 Date Surveyed Signature & Seal of Professional Surveyor 7977 Certificate No. 7977 BASIC SURVEY
0' 500' 1000' 1500' 2000' SCALE: 1" = 1000' WO Num.: 34394				

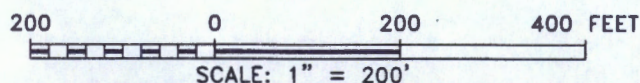
**SECTION 18, TOWNSHIP 26 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



TARANTULA HAWK SWD #1
ELEV. - 3094'

Lat - N 32.119378°
Long - W 104.119378°
NMSPCE- N 376876.7
E 607636.7
(NAD-83)

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



DELMARE ENERGY

REF: TARANTULA HAWK SWD #1 / WELL PAD TOPO

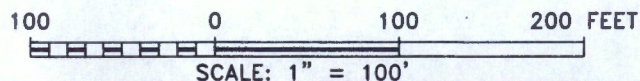
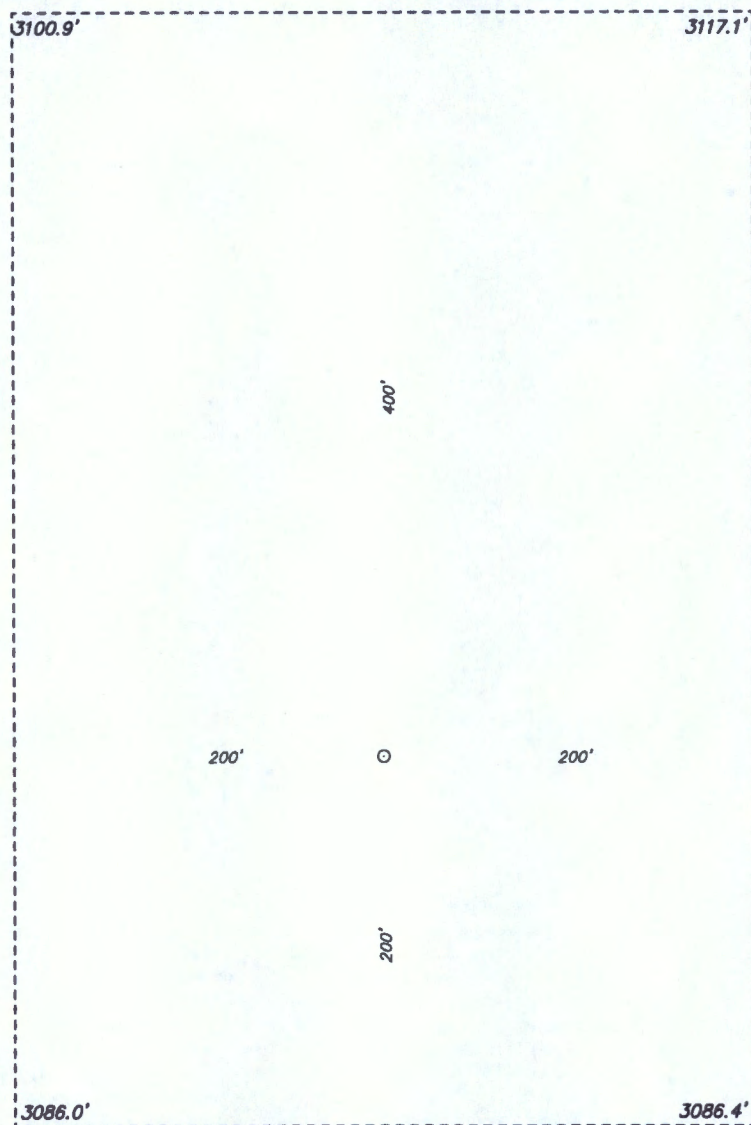
THE TARANTULA HAWK SWD #1 LOCATED 210' FROM
THE SOUTH LINE AND 400' FROM THE EAST LINE OF
SECTION 18, TOWNSHIP 26 SOUTH, RANGE 28 EAST.

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

basin
surveys
focused on excellence
in the oilfield

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

**SECTION 18, TOWNSHIP 26 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



DELTARE ENERGY

REF: TARANTULA HAWK SWD #1 / WELL PAD TOPO

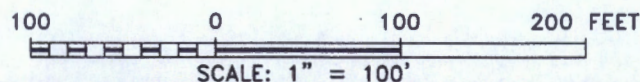
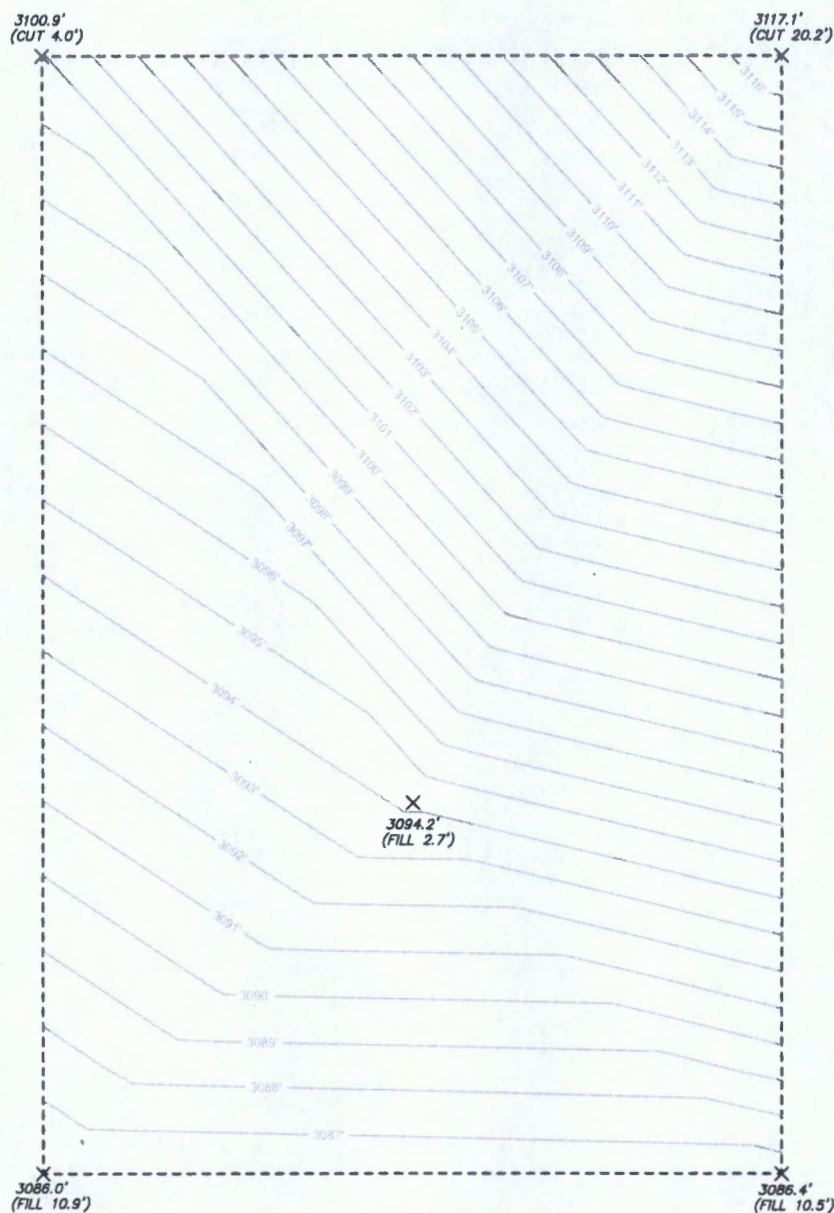
THE TARANTULA HAWK SWD #1 LOCATED 210' FROM
THE SOUTH LINE AND 400' FROM THE EAST LINE OF
SECTION 18, TOWNSHIP 26 SOUTH, RANGE 28 EAST.

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



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

**SECTION 18, TOWNSHIP 26 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



DELMWARE ENERGY

REF: TARANTULA HAWK SWD #1 / CUT & FILL

THE TARANTULA HAWK SWD #1 LOCATED 210' FROM
THE SOUTH LINE AND 400' FROM THE EAST LINE OF
SECTION 18, TOWNSHIP 26 SOUTH, RANGE 28 EAST.

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

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

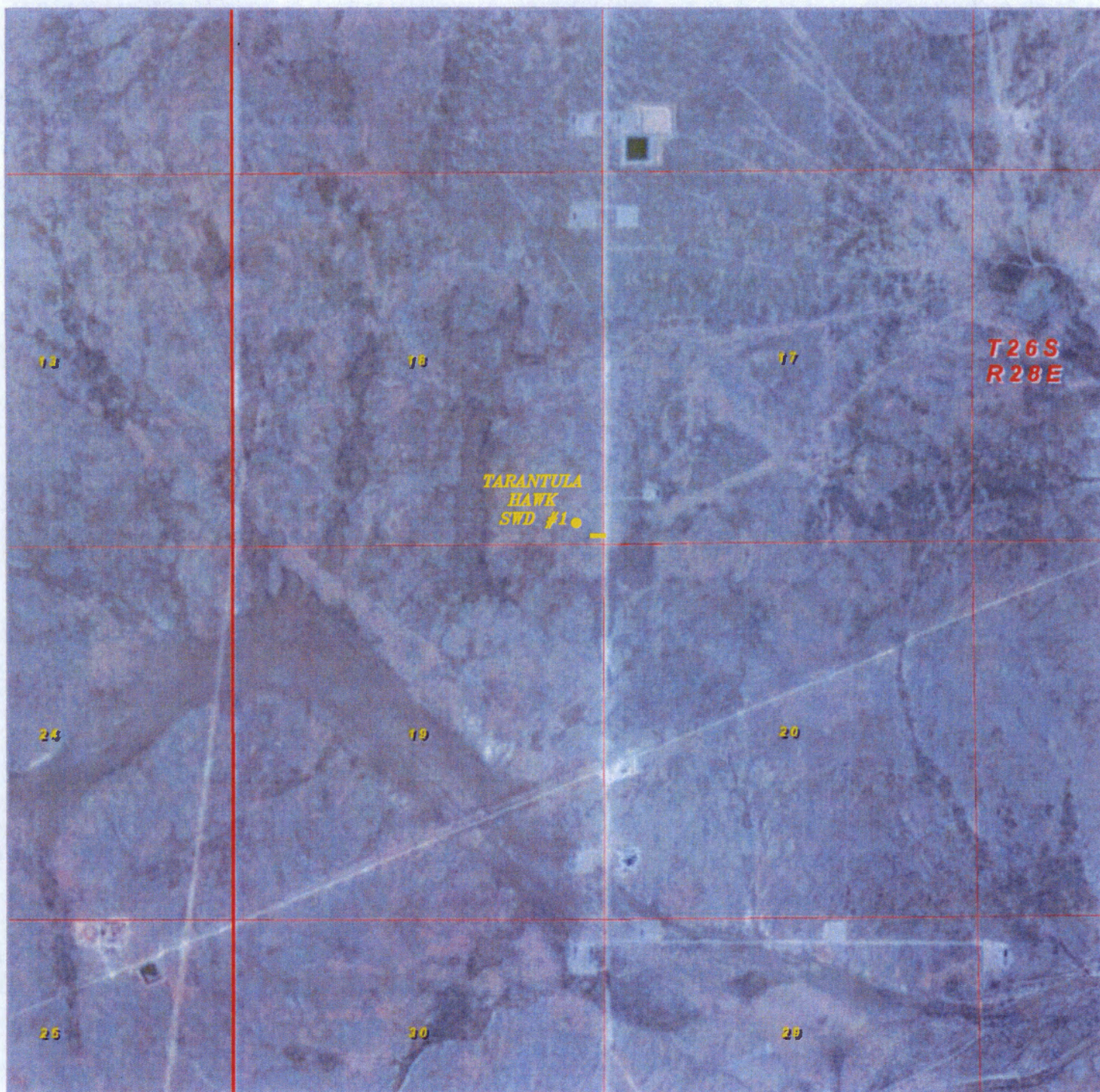
W.O. Number: 34394

Drawn By: K. GOAD

Date: 03-18-2019

Survey Date: 03-11-2019

Sheet 1 of 1 Sheets



TARANTULA HAWK SWD #1

Located 210' FSL and 400' FEL
 Section 18, Township 26 South, Range 28 East,
 N.M.P.M., Eddy County, New Mexico.



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

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

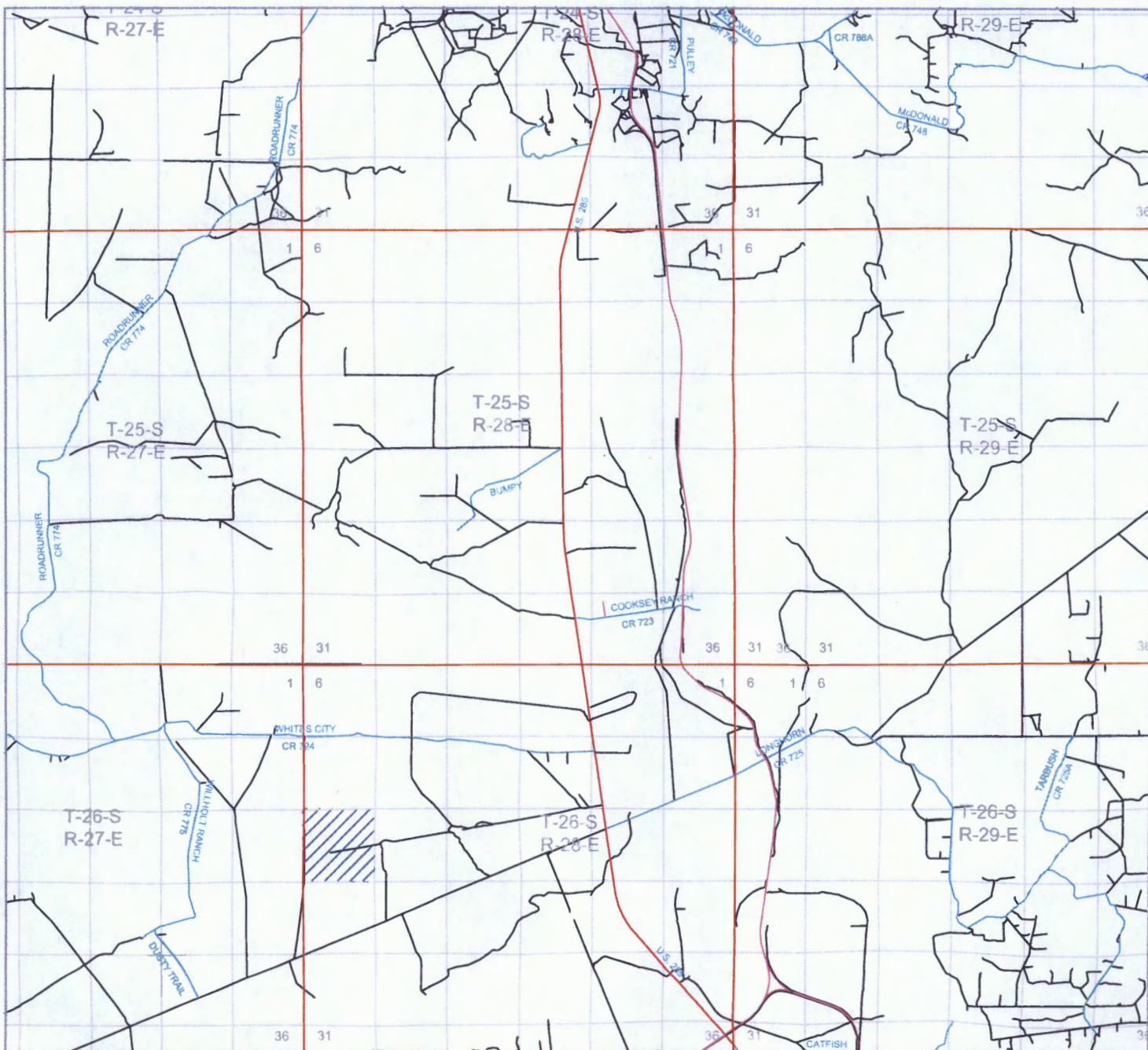
W.O. Number: KJG 34394

Survey Date: 03-11-2019

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



**DELAWARE
 ENERGY**



TARANTULA HAWK SWD #1

Located 210' FSL and 400' FEL
Section 18, Township 26 South, Range 28 East,
N.M.P.M., Eddy County, New Mexico.

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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: KJG 34394

Survey Date: 03-11-2019

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



DELMWARE
ENERGY

Sec 22, T25S, R28E

North Permian Basin Region

P.O. Box 740

Sundown, TX 79372-0740

(806) 229-8121

Lab Team Leader - Shella Hernandez

(432) 495-7240

Bone Spring

Water Analysis Report by Baker Petrolite

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

Summary		Analysis of Sample 534665 @ 75 F					
Sampling Date:	03/10/11	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	03/18/11	Chloride:	109618.0	3091.92	Sodium:	70275.7	3056.82
Analyst:	SANDRA GOMEZ	Bicarbonate:	2135.0	34.99	Magnesium:	195.0	16.04
		Carbonate:	0.0	0.	Calcium:	844.0	42.12
TDS (mg/l or g/m3):	184911.1	Sulfate:	747.0	15.55	Strontium:	220.0	5.02
Density (g/cm3, tonne/m3):	1.113	Phosphate:			Barium:	0.8	0.01
Anion/Cation Ratio:	1	Borate:			Iron:	6.5	0.23
		Silicate:			Potassium:	869.0	22.22
					Aluminum:		
Carbon Dioxide:	0.50 PPM	Hydrogen Sulfide:		0 PPM	Chromium:		
Oxygen:		pH at time of sampling:		7	Copper:		
Comments:		pH at time of analysis:			Lead:		
		pH used in Calculation:		7	Manganese:	0.100	0.
					Nickel:		

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
°F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	1.08	188.52	-1.20	0.00	-1.18	0.00	-0.11	0.00	0.56	0.29	1.72
100	0	1.10	208.05	-1.29	0.00	-1.20	0.00	-0.15	0.00	0.35	0.29	2.35
120	0	1.12	224.17	-1.36	0.00	-1.19	0.00	-0.17	0.00	0.16	0.00	3.17
140	0	1.13	243.17	-1.42	0.00	-1.18	0.00	-0.18	0.00	0.00	0.00	4.21

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

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

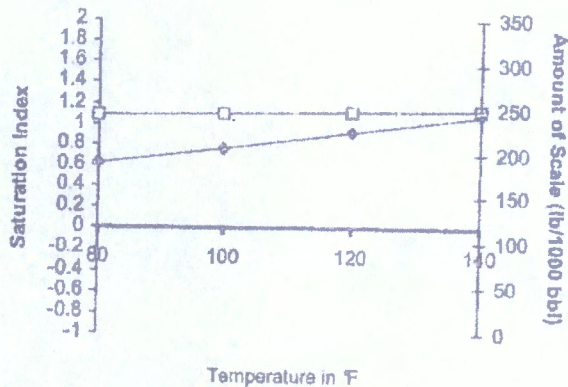
Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

Scale Predictions from Baker Petrolite

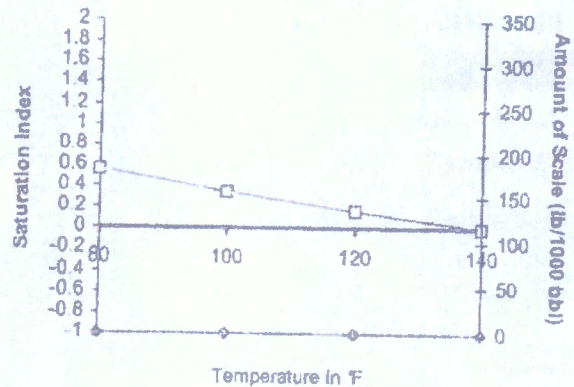
Analysis of Sample 534665 @ 75 °F for

03/18/11

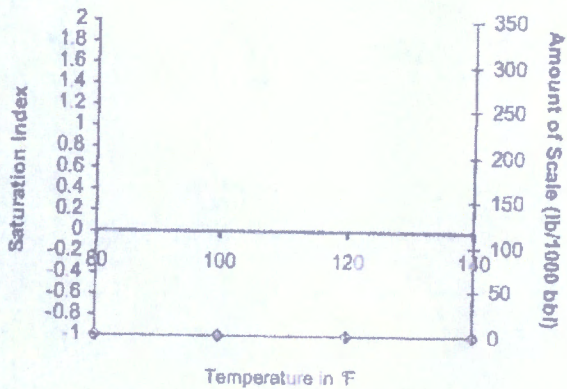
Calcite - CaCO_3



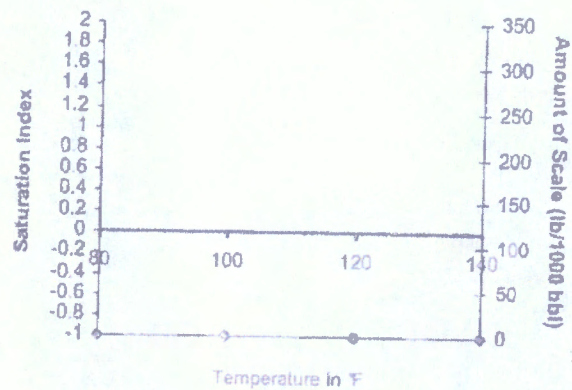
Barite - BaSO_4



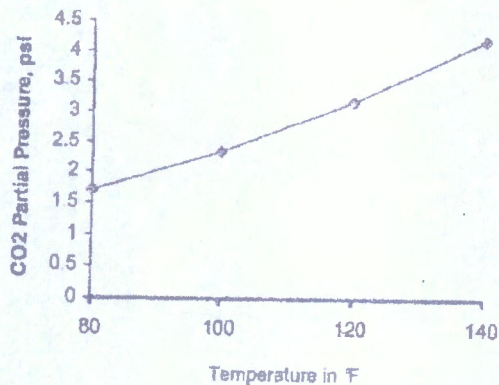
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



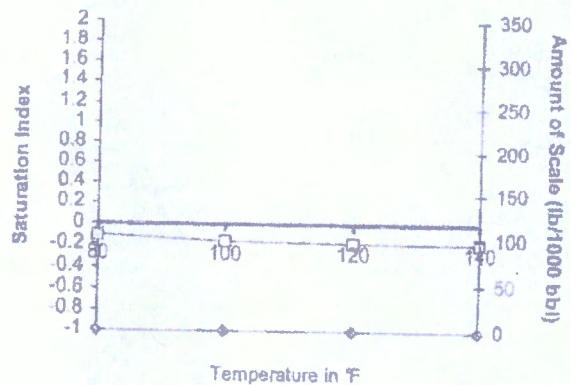
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



Sec 16, T23S R28E



PRODUCTION DEPARTMENT

MILLER CHEMICALS, INC.

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

Delaware Brushy Canyon

WATER ANALYSIS REPORT

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

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

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

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
18561 *Ca <---- *HCO3	Ca(HCO3)2	81.0 15.2	1231
/-----/	CaSO4	68.1 10.4	709
821 *Mg <---- *SO4	CaCl2	55.5 1830.7	101584
<-----/	Mg(HCO3)2	73.2	
33751 *Na <---- *Cl	MgSO4	60.2	
+-----+	MgCl2	47.6 82.0	3902
Saturation Values Dist. Water 20 C	NaHCO3	84.0	
CaCO3 13 mg/L	Na2SO4	71.0	
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4 3374.8	197223
BaSO4 2.4 mg/L			

REMARKS:



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

Water Analysis

Code 214943

Client Information

Sample Information

**Delaware Energy
County:**

Eddy

Lease/Well: Taranchula Hawk/1 SWD

Sample Point: Stock Tank

Date Sampled: 04/23/2019

Rep:

Derrick Boutwell

Date Reported: 04/25/2019

Results

Cations

Ion	Concentration(mg/L)
Barium (as Ba)	0
Calcium (as Ca)	591
Iron (as Fe)	0
Sodium (as Na)	207
Magnesium (as Mg)	361

Other Measurements

Measurement	Value
pH	7.86
SG	1.004
Turbidity	8
CO ₂	
Total Dissolved Solids	2479.000

Anions

Ion	Concentration(mg/L)
Chlorides (as Cl)	78
Sulfate (as SO ₄)	1120
Carbonate (as CO ₃)	0
Bicarbonates (as HCO ₃)	122
Sulfide (as S ₂ -)	0

Scaling Indices

Temp(F)	CaCO ₃	CaSO ₄ *2H ₂ O	CaSO ₄	BaSO ₄
80	1.0438	0.0000	0.0000	-28.1479
120	1.4002	0.0000	0.0000	-28.3630
160	1.8238	0.0000	0.0000	-28.4966
200	2.2089	0.0000	0.0000	-28.5580
250	2.5572	0.0000	0.0000	-28.5165

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

Comments

32.127208, -104.127848



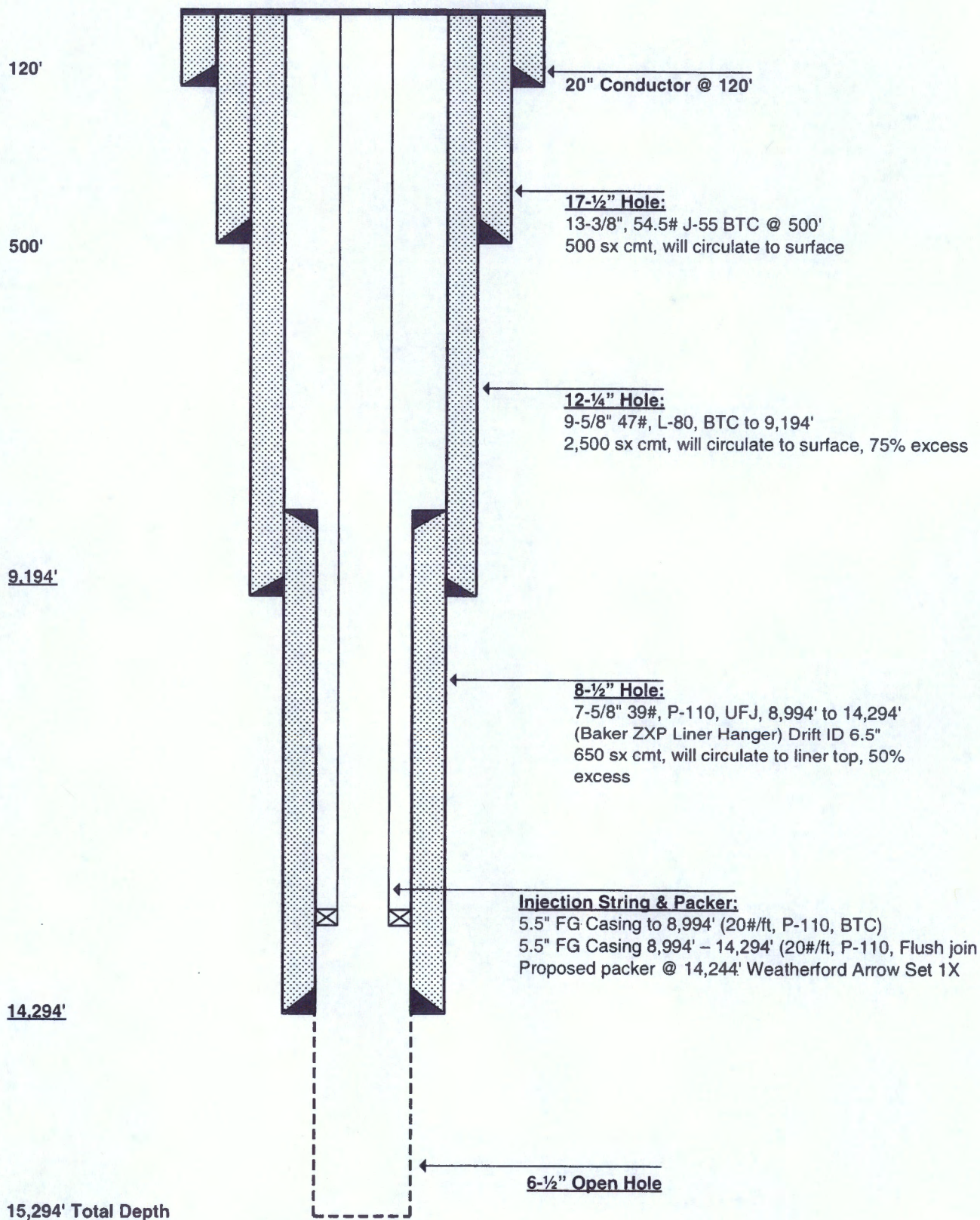
Tarantula Hawk SWD # 1

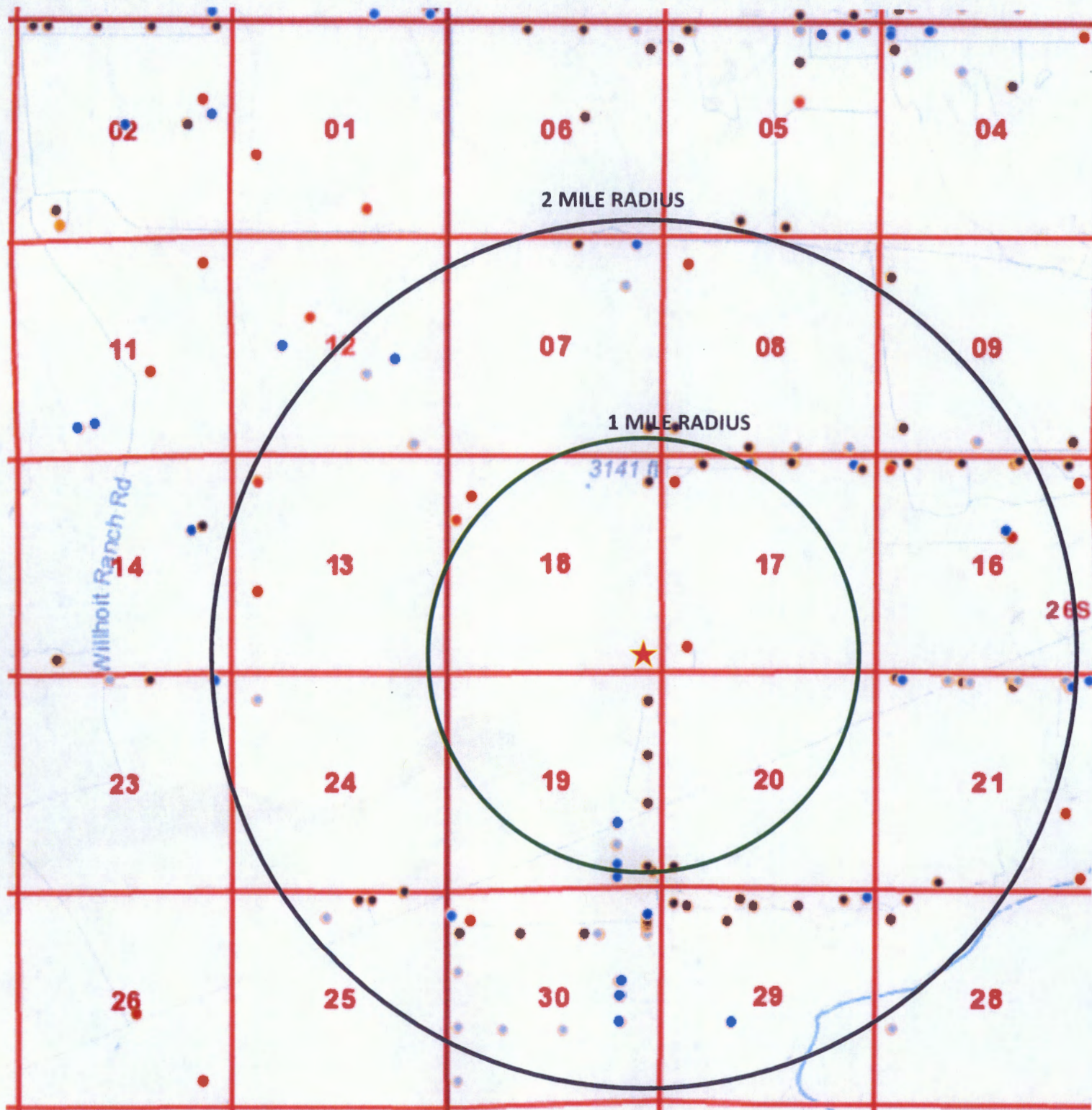
API # PENDING
210' FSL & 400' FEL, Sec. 18, T26S, R28E, UL "P"
EDDY COUNTY, NEW MEXICO

ELEVATION:

GL: 3,094'

PROPOSED WELLBORE





WELLS - ONE MILE RADIUS

NO WELLS PENETRATE THE DEVONIAN FORMATION IN THE AOR

SECTION 18-T26S-R28E



Tarantula Hawk SWD #1
(Proposed Location)
Delaware Energy, LLC



★ **Tarantula Hawk SWD #1**
Sec. 18-T26S-R28E
Eddy Co. NM

Tarantula Hawk SWD #1

LEASES – ONE MILE RADIUS

Section 7, T26S-R28E

State Lease

- **COG Operating, LLC**
600 W. Illinois
Midland, TX 79701

Section 8, T26S-R28E

State Lease

- **COG Operating, LLC**
600 W. Illinois
Midland, TX 79701

Section 13, T26S-R27E

Federal Lease (NMNM 120350)

- **Chevron USA, Inc. (Lessee)**
6301 Deauville Blvd.
Midland, Texas 79706-2964
- **Cimarex Energy Co.**
600 N Marienfeld, Ste. 600
Midland, TX 79701
- **Bureau of Land Management**
620 E. Greene Street
Carlsbad, NM 88220

Section 17, T26S-R28E

State Lease

- **COG Operating, LLC**
600 W. Illinois
Midland, TX 79701

Section 18, T26S-R28E

State Lease (V074711)

- **EOG Resources, Inc (Lessee)**
5509 Champions Dr.

Midland, TX 79706

State Lease (V074462)

- **Chevron USA, Inc. (Lessee)**
6301 Deauville Blvd.
Midland, Texas 79706-2964

- **COG Operating, LLC**
600 W. Illinois
Midland, TX 79701

Section 19, T26S-R28E

State Lease

- **COG Operating, LLC**
600 W. Illinois
Midland, TX 79701

Section 20, T26S-R28E

State Lease

- **COG Operating, LLC**
600 W. Illinois
Midland, TX 79701

Section 24, T26S-R27E

State Lease

- **EOG Resources, Inc**
5509 Champions Dr.
Midland, TX 79706

Tarantula Hawk SWD #1

Location: 210' FSL & 400' FEL

Sec. 18, T-26-S, R-28-E

Estimated Pre-Drill Formation Tops

Top of Salt	694'
Base Salt	1,944'
Delaware Mountain Group	2,394'
Bone Spring/Abo	6,094'
Wolfcamp	9,194'
Strawn	11,694'
Atoka	11,994'
Morrow	12,694'
Barnett	14,094'
Mississippian	14,994'
Woodford	14,194'
Devonian	14,294'

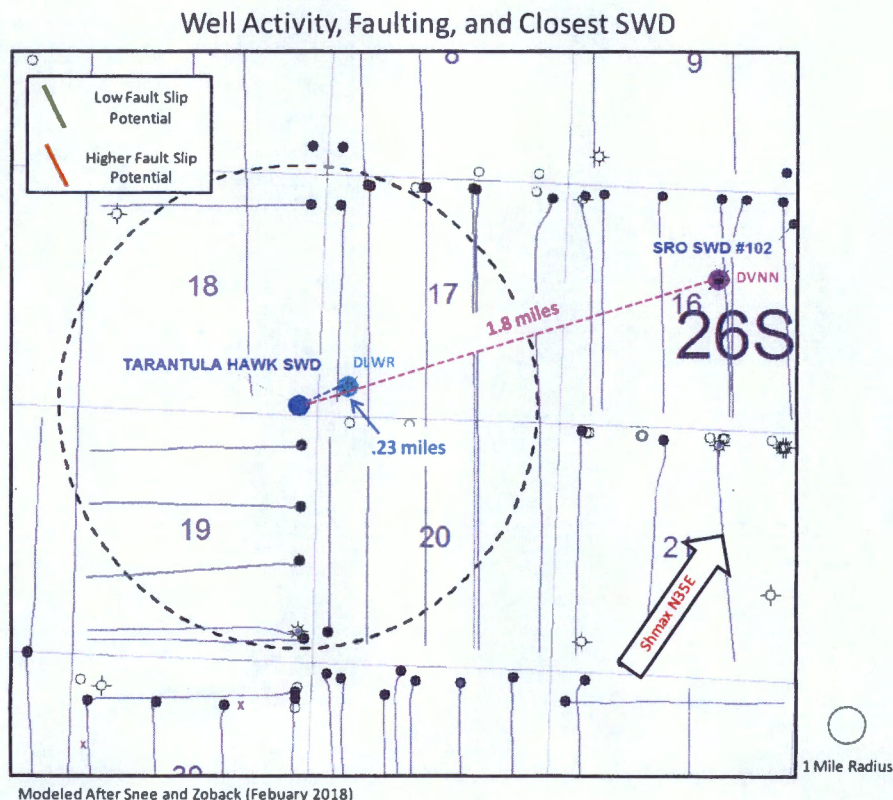
Statement Regarding Seismicity and Well Location (Tarantula Hawk SWD #1)

Historically, the area near the proposed Tarantula Hawk 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 19 miles from the proposed SWD location. The most recent event (March 18, 2012) is 21.5 miles NE, measuring 3.1, and the other is 19.1 miles to the north which measured 3.9 on November 24, 1978

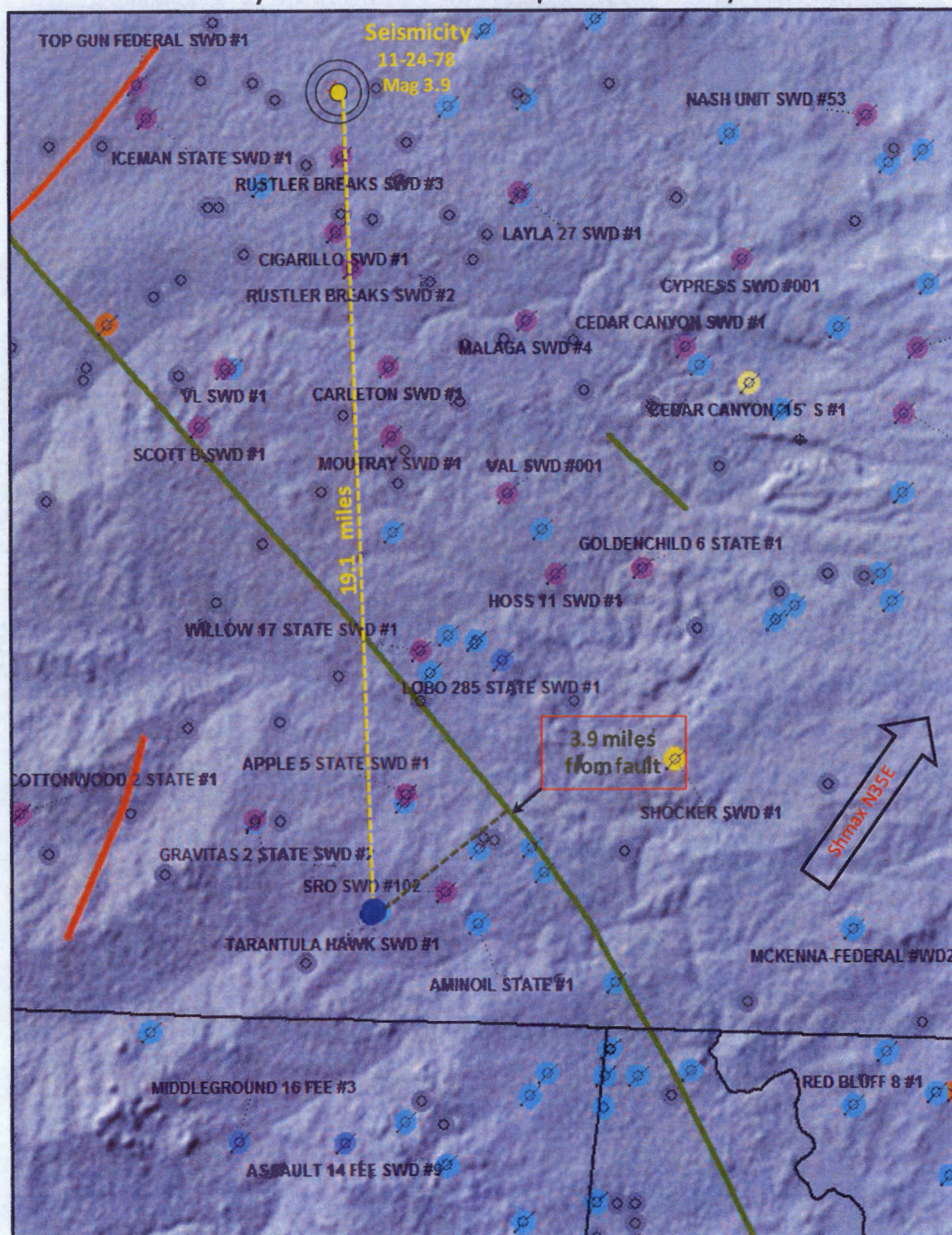
Delaware Energy does not own 2D or 3D seismic data near the proposed SWD location therefore the fault interpretations are based on data obtained from the USGS New Mexico Faults Database (2005) and other published data. Based on these sources the closest fault would be approximately 3.9 miles northeast 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 NE of the location (green) should have a very low probability of being critically stressed resulting, resulting in potential slip, due to the relationship of the strike of the fault and the regional Shmax orientation (approx. N 35 deg E) in the area. The exact position of this fault relative to the proposed location, and depth of the target formation, is unknown. No documented seismicity associated with this fault has been found in the public domain.

The proposed Tarantula Hawk SWD #1 is located 1.8 miles away from the nearest active Devonian SWD well and .23 miles from the nearest active Delaware SWD well (see map below). The Tarantula Hawk SWD #1 is targeted for the Devonian and should not affect the Delaware activity. The well should meet current OCD and Industry recommended practices.

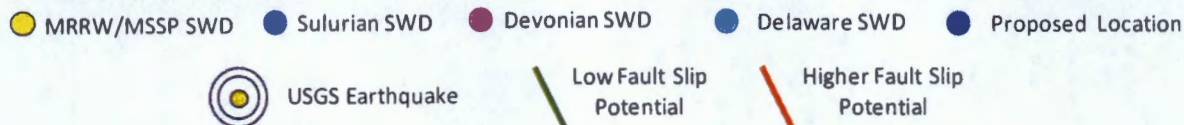
Kevin J. Schepel
Petrophysical Advisor
kevin.schepel@att.net
214-212-6540



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.

CARLSBAD
CURRENT-ARGUS

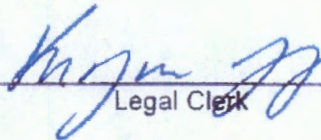
AFFIDAVIT OF PUBLICATION

Ad No.
0001281439

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

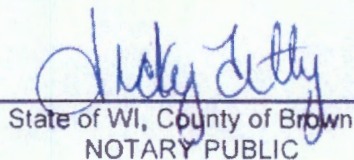
I, a legal clerk of the **Carlsbad Current-Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements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

03/29/19

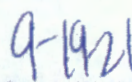


Legal Clerk

Subscribed and sworn before me this
29th of March 2019.



State of WI, County of Brown
NOTARY PUBLIC



My Commission Expires

LEGAL NOTICE

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

The Tarantula Hawk SWD #1 is located at 210' FSL and 400' FEL, Unit Letter P, Section 18, Township 26 South, Range 28 East, Eddy County, New Mexico. The well will dispose of water produced from oil and gas wells into the Devonian Formation from 14,294' to 15,294' at a maximum rate of 25,000 barrels of water per day at a maximum pressure of 2,859 psi.

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

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

Pub: March 29, 2019 #1281439



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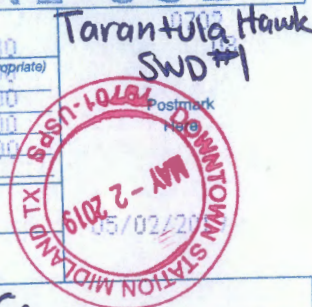
Postage \$1.75

Total Postage and Fees \$8.05

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Cimarex Energy Co.
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600 N. Marienfeld, Ste 600
City, State, ZIP+4®
Midland, TX 79701

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

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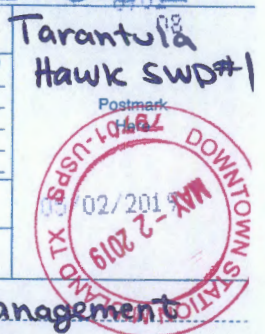
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Total Postage and Fees \$8.05

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Midland, TX 79706

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Total Postage and Fees \$8.05

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310 Old Santa Fe Trail
City, State, ZIP+4®
Santa Fe, NM 87501

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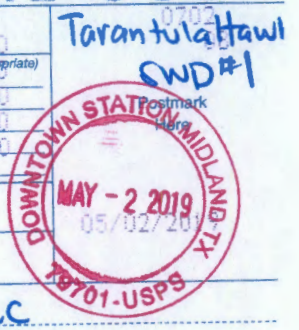
Postage \$1.75

Total Postage and Fees \$8.05

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Midland, TX 79701

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ARTEZIA NM 88210

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Postage \$1.75

Total Postage and Fees \$8.05

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State of New Mexico OCD

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

811 S. First Street

City, State, ZIP+4®

Artesia, NM 88210

Tarantula Hawk
SWD#1



7018 0680 0000 0580 5158

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 393-8161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1283 Fax: (505) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6176

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-5485

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	Pool Name
Property Code	Property Name TARANTULA HAWK SWD	Well Number 1
OGRID No.	Operator Name DELAWARE ENERGY	Elevation 3094'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	26 S	28 E		210	SOUTH	400	EAST	EDDY

Bottom Hole Location If Different From Surface

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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

	N: 381913.1 E: 608008.6 (NAD83)
	N: 379173.4 E: 608037.3 (NAD83)
SURFACE LOCATION Lat - N 32.035935° Long - W 104.119378° NAD83 NADSPCE - N 376876.7 E 607636.7 (NAD-83)	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or 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 _____ Printed Name _____ Email Address _____ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MARCH 14, 2013 Date Surveyed Signature & Seal of Professional Surveyor 7977 Certificate No. 7977 BASIC SURVEY 0' 500' 1000' 1500' 2000' SCALE: 1" = 1000' N: 376876.8 E: 608035.3 (NAD83) WO Num.: 34394
N: 376552.4 E: 602736.5 (NAD83)	

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3480 Fax: (505) 475-3482

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

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

API Number		Pool Code	Pool Name
Property Code	Property Name TARANTULA HAWK SWD		Well Number 1
OGRID No.	Operator Name DELAWARE ENERGY		Elevation 3094'

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	26 S	28 E		210	SOUTH	400	EAST	EDDY

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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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.: 381913.1
E.: 608008.6
(NAD83)

N.: 379173.4
E.: 608037.3
(NAD83)

N.: 376552.4
E.: 602736.5
(NAD83)

SURFACE LOCATION
 Lat - N 32.035935°
 Long - W 104.119378°
 NMSPCE- N 376876.7
 E 607636.7
 (NAD-83)

OPERATOR CERTIFICATION

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

Signature _____ Date _____

Printed Name _____

Email Address _____

SURVEYOR CERTIFICATION

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

MARCH 11, 2019

Date Surveyed _____

Signature of _____
Professional Surveyor

Certificate No. 7977

7977

SCALE: 1" = 1000'

NO. 376876.6
E.: 608035.3
(NAD83)

WO Num.: 34394