Additional Information
(Ownership Maps)

Scorpion Oil & Gas, LLC
BC Dickenson D No.5
(SWD-2614)

Rec'd May 21, 2024

From: Cole Reynolds
To: Harris, Anthony, EMNRD; Nathaniel Raggette; Mike Loudermilk; Joe Holsen; Cheri Bocox
Cc: Goetze, Phillip, EMNRD; Gebremichael, Million, EMNRD; Chavez, Carl, EMNRD
Subject: RE: [EXTERNAL] RE: BC Dickenson D#5 - Maps request
Date: Tuesday, May 21, 2024 4:20:51 PM
Attachments: image008.png
image009.png
DD5 Water Wells 1 Mi AOR.pdf
DD5 Well Detail - .5 Mile Radius.pdf
DD5 LeaseOwnership .5 Mi AOR.pdf
DD5 Mineral Owners .5 Mi Radius.pdf
DD5 Surface Ownership.pdf

HI Tony – Apologies for multiple emails but wanted to get these to you asap. Please see the attached maps including titles in the maps.

We will follow up on the C-108 requirements.

Best Regards,

Cole Reynolds
VP, Geology

Scorpion Oil & Gas
4779 South Main Street
Stafford, TX 77477
(o) 281-602-3407
(m) 281-628-4478
cole@scorpionog.com

From: Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>
Sent: Tuesday, May 21, 2024 4:45 PM
To: Nathaniel Raggette <nat@scorpionog.com>; Cole Reynolds <cole@scorpionog.com>; Mike Loudermilk <mike@scorpionog.com>; Joe Holsen <joe@scorpionog.com>; Cheri Bocox <cheri@scorpionog.com>
Cc: Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>; Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>; Chavez, Carl, EMNRD <Carlj.Chavez@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: BC Dickenson D#5 - Maps request

Hi Nat

Thank you for the information. My initial observations with the information that was just provided are as follows:

1. The Leaseholder map indicates multiple lease owners within the half-mile AOR (see snapshot below)
    a. Scorpion's application lists only **Stephens Engineering** as being notified as per the C-108 "Proof of Notice" Requirement
        i. As per the C-108 Section XIV (see below). All leaseholders within ½ mile must be notified.
        ii. IF my interpretation of your leaseholder map is correct, none of the leaseholders were notified?
        iii. Please provide documentation to confirm that all C-108 notice requirements have been satisfied.

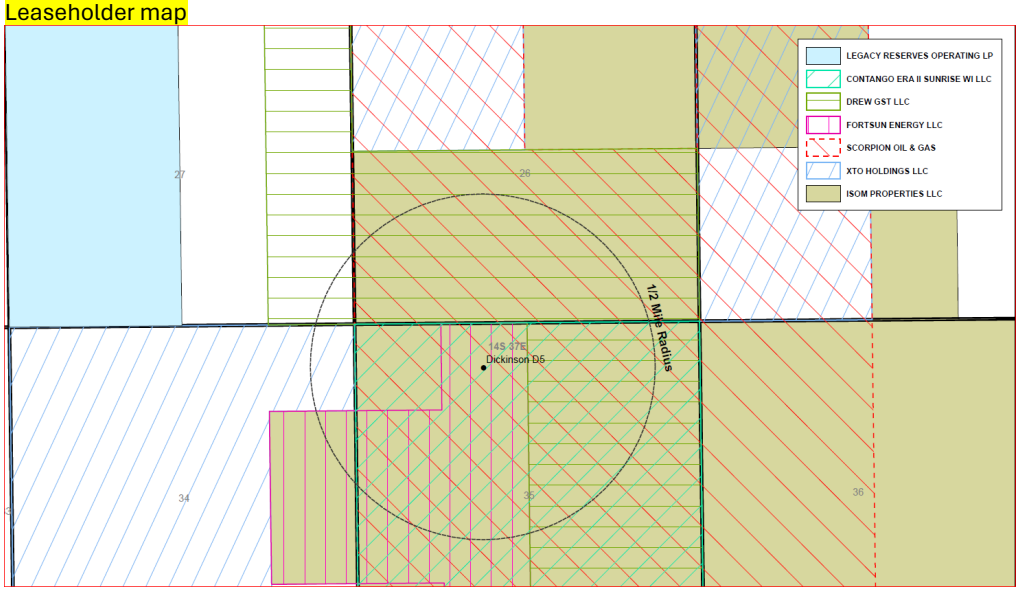
2. None of the pdf images contain a label to identify the content of the map ie. Mineral owners, lease holders etc.
    a. Since this information will be compiled into a document for the wellfile , please ensure all pdf images contain a label (not just a filename), to clearly identify what is being conveyed in each image.

I will review your documentation in more detail tomorrow, but these are my initial observations.

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.

Leaseholder map



Regards
Tony

From: Nathaniel Raggette <nat@scorpionog.com>
Sent: Tuesday, May 21, 2024 2:51 PM
To: Cole Reynolds <cole@scorpionog.com>; Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>; Mike Loudermilk <mike@scorpionog.com>; Joe Holsen <joe@scorpionog.com>; Cheri Bocox <cheri@scorpionog.com>
Cc: Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>; Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>; Chavez, Carl, EMNRD <Carlj.Chavez@emnrd.nm.gov>
Subject: [EXTERNAL] RE: BC Dickenson D#5 - Maps request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Great, thanks Cole!

Hi Tony, if you could please give us a feel for what remains outstanding for the approval and the timing, we would really, really appreciate the guidance. We **desperately** need to get more SWD capacity in our field.

Thank you in advance,
Nat

From: Cole Reynolds
Sent: Tuesday, May 21, 2024 3:36 PM
To: Nathaniel Raggette <nat@scorpionog.com>; Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>; Mike Loudermilk <mike@scorpionog.com>; Joe Holsen <joe@scorpionog.com>; Cheri Bocox <cheri@scorpionog.com>
Cc: Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>; Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>; Chavez, Carl, EMNRD <Carlj.Chavez@emnrd.nm.gov>
Subject: RE: BC Dickenson D#5 - Maps request

Good afternoon Tony,

Please see the attached maps as requested. To the best of our knowledge with data available through several State of NM reporting agencies, these maps are accurate as possible.

Best regards,

Cole Reynolds
VP, Geology

Scorpion Oil & Gas
4779 South Main Street
Stafford, TX 77477
(o) 281-602-3407
(m) 281-628-4478
cole@scorpionog.com

From: Nathaniel Raggette <nat@scorpionog.com>
Sent: Wednesday, May 15, 2024 3:32 PM
To: Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>; Mike Loudermilk <mike@scorpionog.com>; Joe Holsen <joe@scorpionog.com>; Cole Reynolds <cole@scorpionog.com>; Cheri Bocox <cheri@scorpionog.com>
Cc: Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>; Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>; Chavez, Carl, EMNRD <Carlj.Chavez@emnrd.nm.gov>
Subject: RE: BC Dickenson D#5 - Maps request

Thanks Tony. I've copied the Scorpion team and we'll get this information to you soon.

Nat

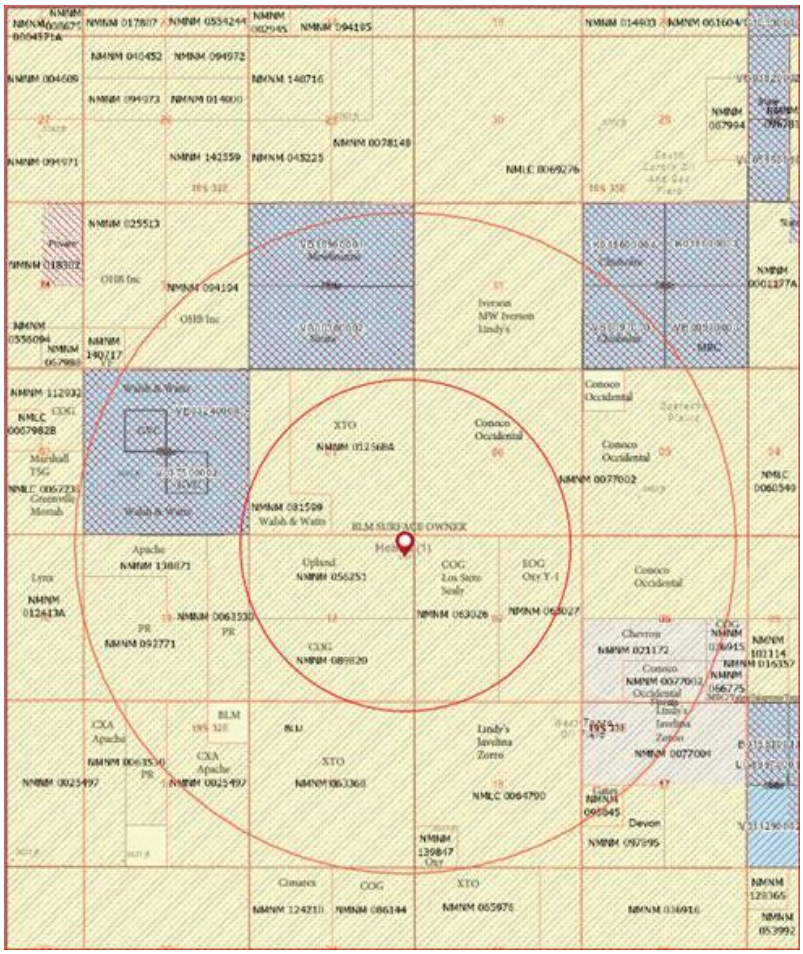
From: Harris, Anthony, EMNRD [mailto:Anthony.Harris@emnrd.nm.gov]
Sent: Wednesday, May 15, 2024 2:43 PM
To: Nathaniel Raggette <nat@scorpionog.com>
Cc: Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>; Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>; Chavez, Carl, EMNRD <Carlj.Chavez@emnrd.nm.gov>
Subject: BC Dickenson D#5 - Maps request

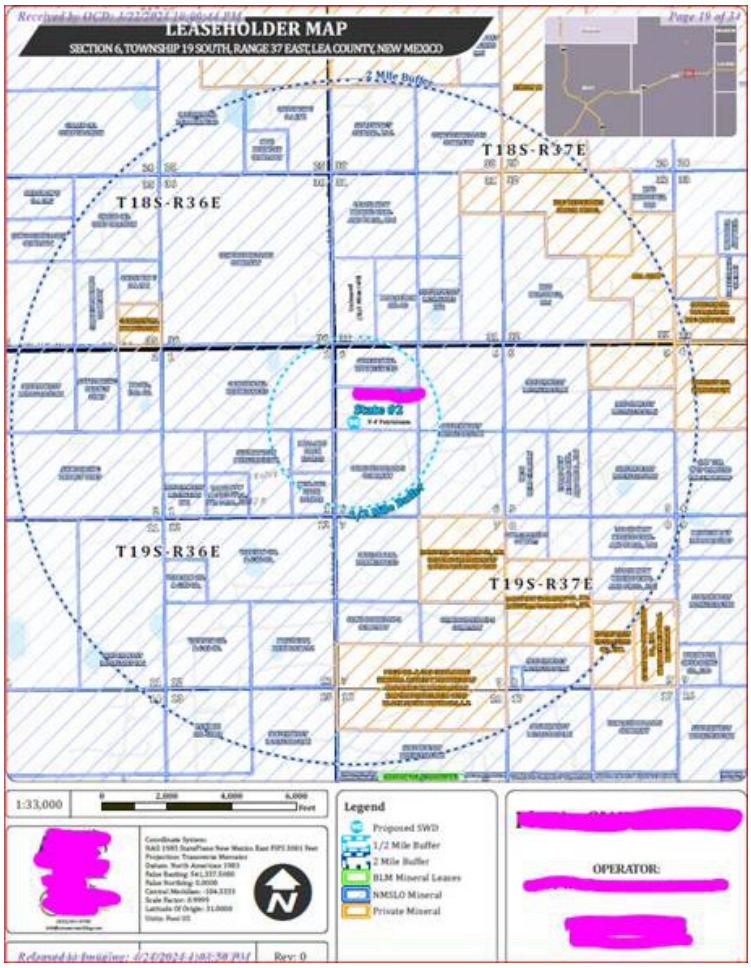
Good Day Nat

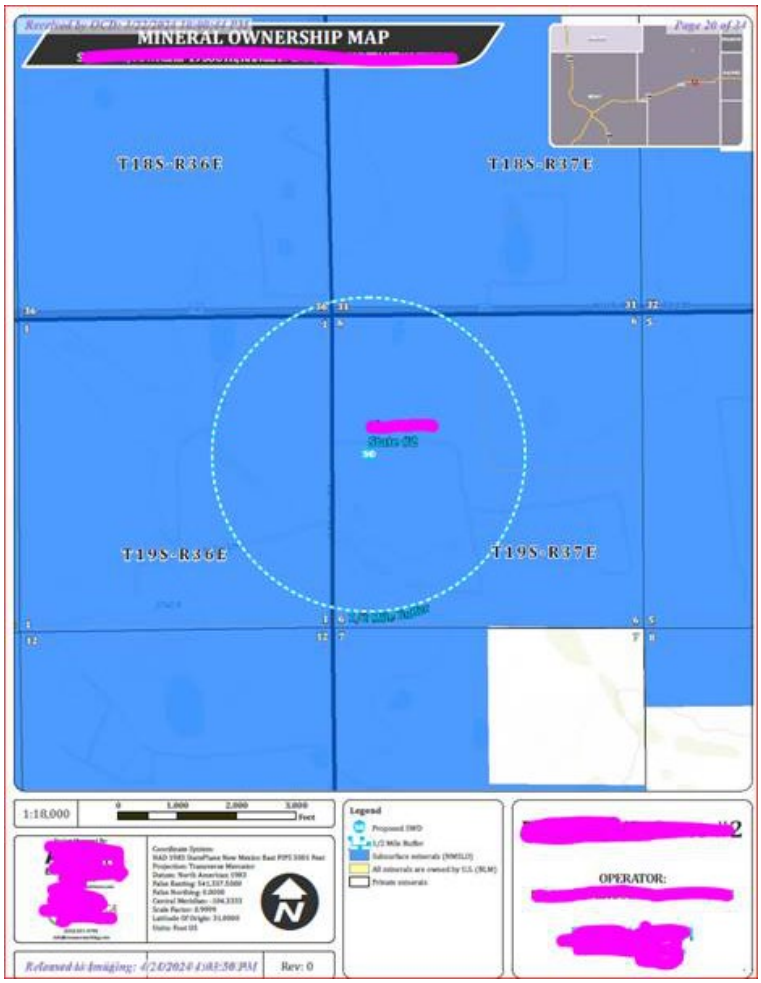
You application is under review. To help ensure consistency with other applicants, and to expedite the peer-review process could you please provide the following:

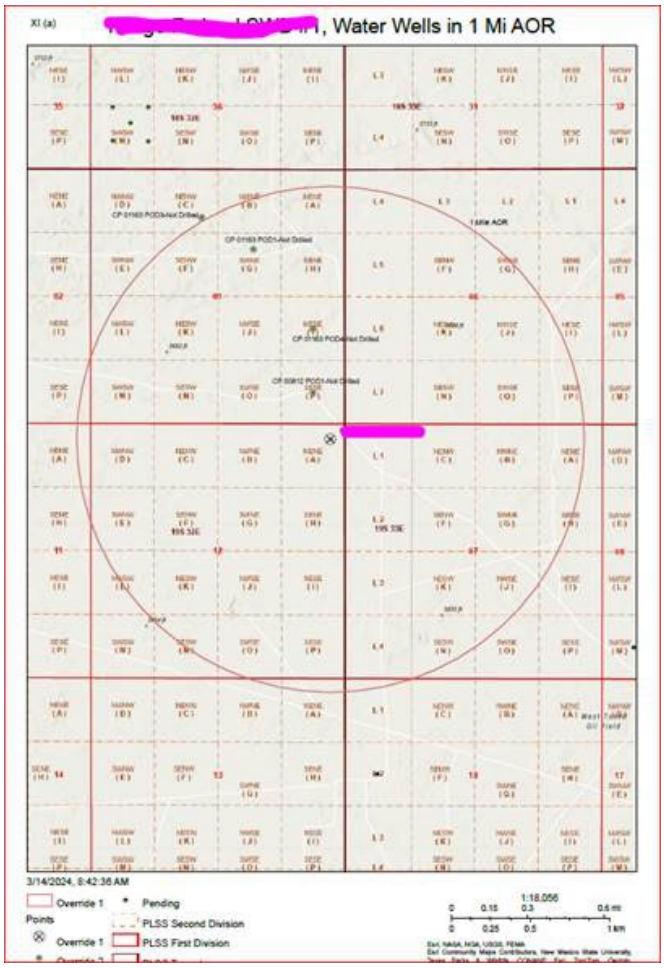
1. A map showing Surface ownership for the well location
2. A map showing Lease ownership with the ½ mile Area of Review (AOR)
3. A map showing Mineral Ownership within the ½ mile AOR
4. A map showing water wells within a 1 mile AOR
5. A map showing clearer detail for all wells within the ½ mile AOR (See snapshot below from Attachment 1 of your application).

Refer to examples below


NMNM 025513
NMNM 094194
NMNM 140717
NMNM 112932
NMLC 0067828
NMNM 081598
Walsh & Watts
BLM SURFACE OWNER
XTO
NMNM 012568A
Conoco Occidental
NMNM 0077002
NMNM 138071
Apache
Upland
NMNM 056251
COG
Los Slpes Stely
EOG Qry Y-1
NMNM 063026
NMNM 063027
NMNM 092771
NMNM 089820
Chevron
NMNM 021172
NMNM 101114
NMNM 066775
CXA
Apache
NMNM 0025497
BLU
Lindy's Javelina Zorro
NMNM 0077004
NMLC 0064790
Devon
NMNM 097995
NMNM 139847
Cimarex
NMNM 124210
NMNM 086144
NMNM 065978
NMNM 036916
NMNM 128365
NMNM 053992

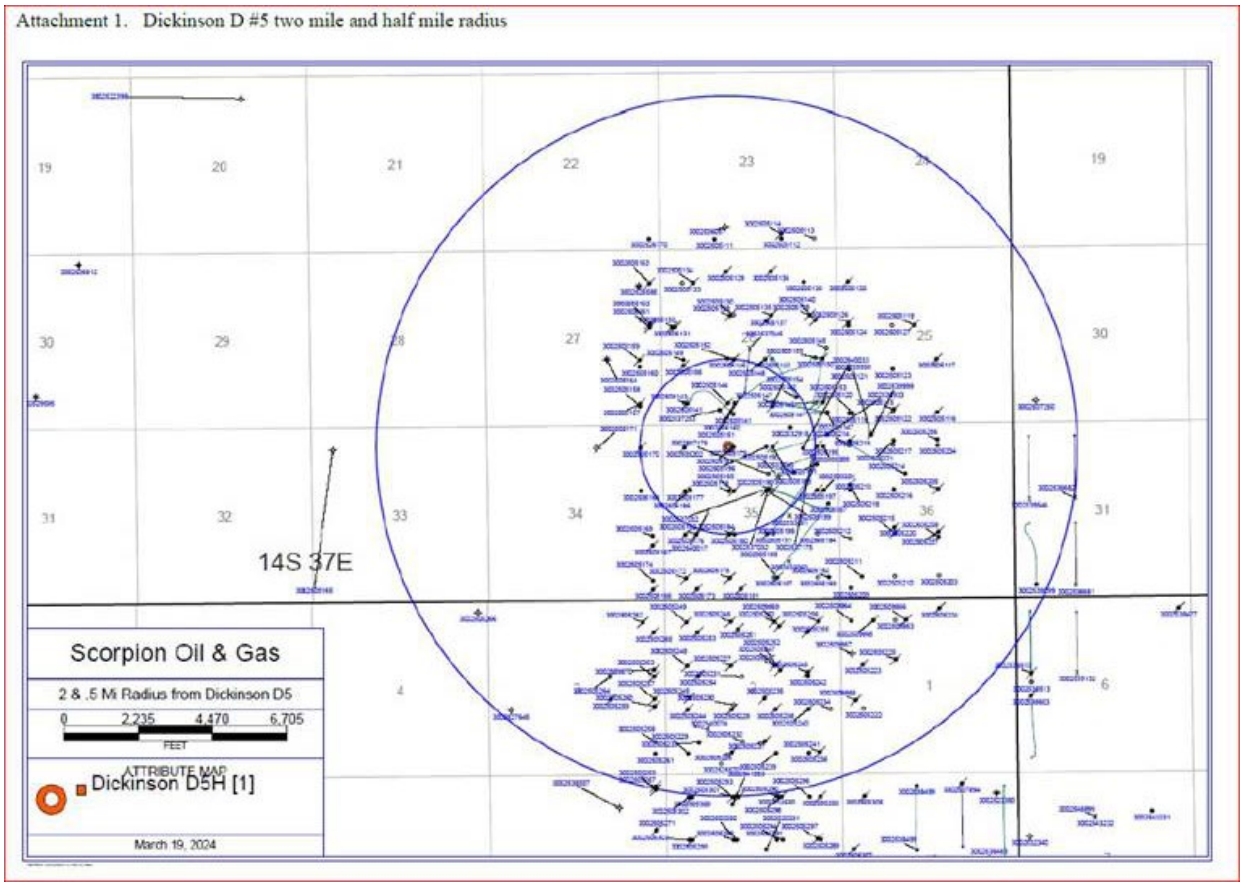

LEASEHOLDER MAP
SECTION 6, TOWNSHIP 19 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO
2 Mile Buffer
T18S-R36E
T18S-R37E
T19S-R36E
T19S-R37E
State #2
1:33,000
Legend
Proposed SWD
1/2 Mile Buffer
2 Mile Buffer
BLM Mineral Leases
NMSLO Mineral
Private Mineral
OPERATOR:


MINERAL OWNERSHIP MAP
T18S-R36E
T18S-R37E
T19S-R36E
T19S-R37E
1:18,000
Legend
OPERATOR:
Rev: 0



Please provide ½ mile AOR with clearer detail for all wells

Attachment 1. Dickinson D #5 two mile and half mile radius



Regards
Tony Harris
Petroleum Specialist
Anthony.harris@emnrd.nm.gov
505 549 8131.

TVD 100'

TVD 110'

TVD 240'

TVD 165'

TVD 246'

TVD 122'

1 Mile Radius

1/2 Mile Radius

Dickinson D5

14S 37E

14S 38E

15S 37E

28 27 26 25 30

33 34 35 36 31

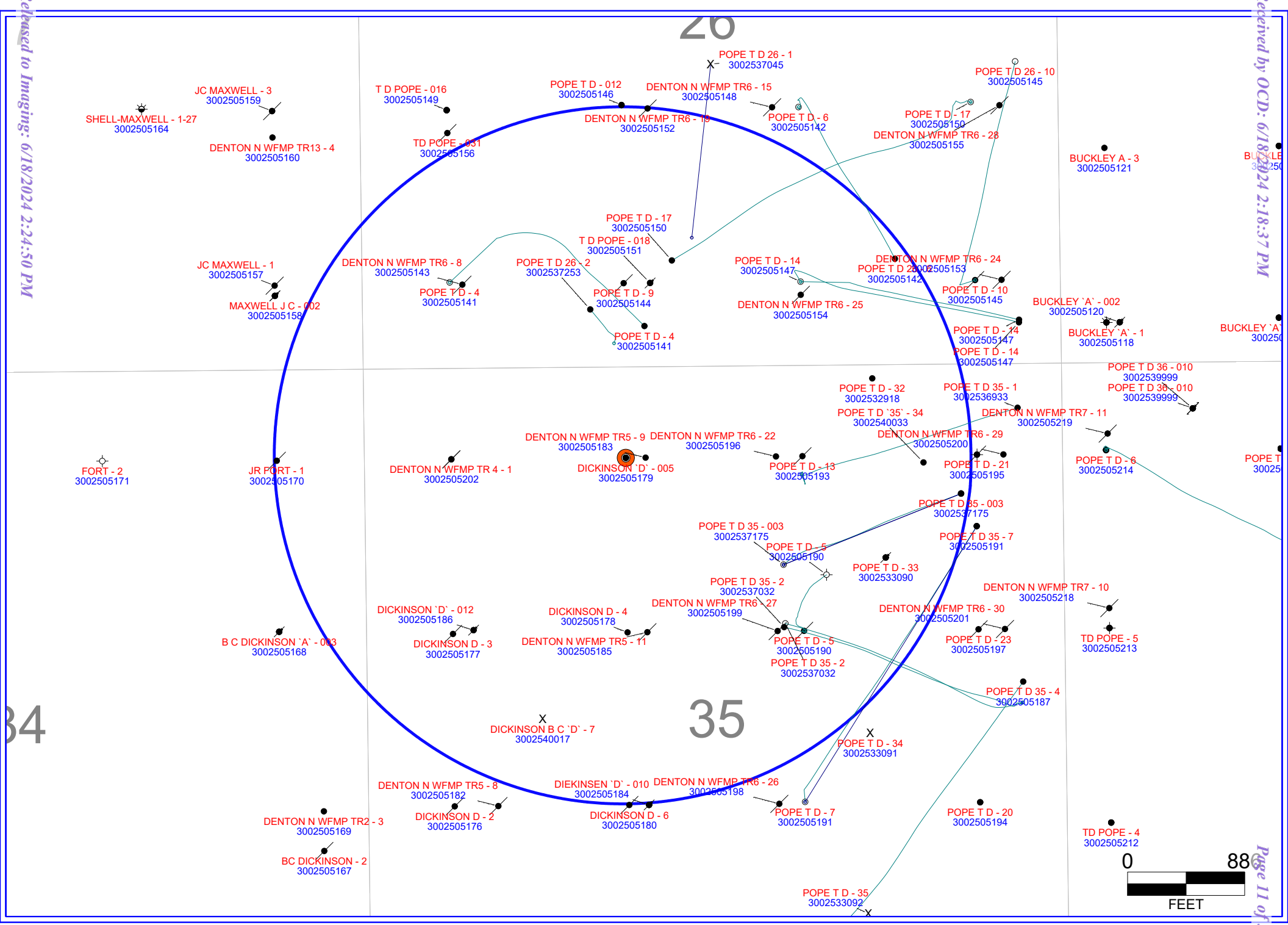
4 3 2 1 6

Water Wells
NMWRRS Current Status

Pending

Active

Well Detail - .5 Mile Radius AOR



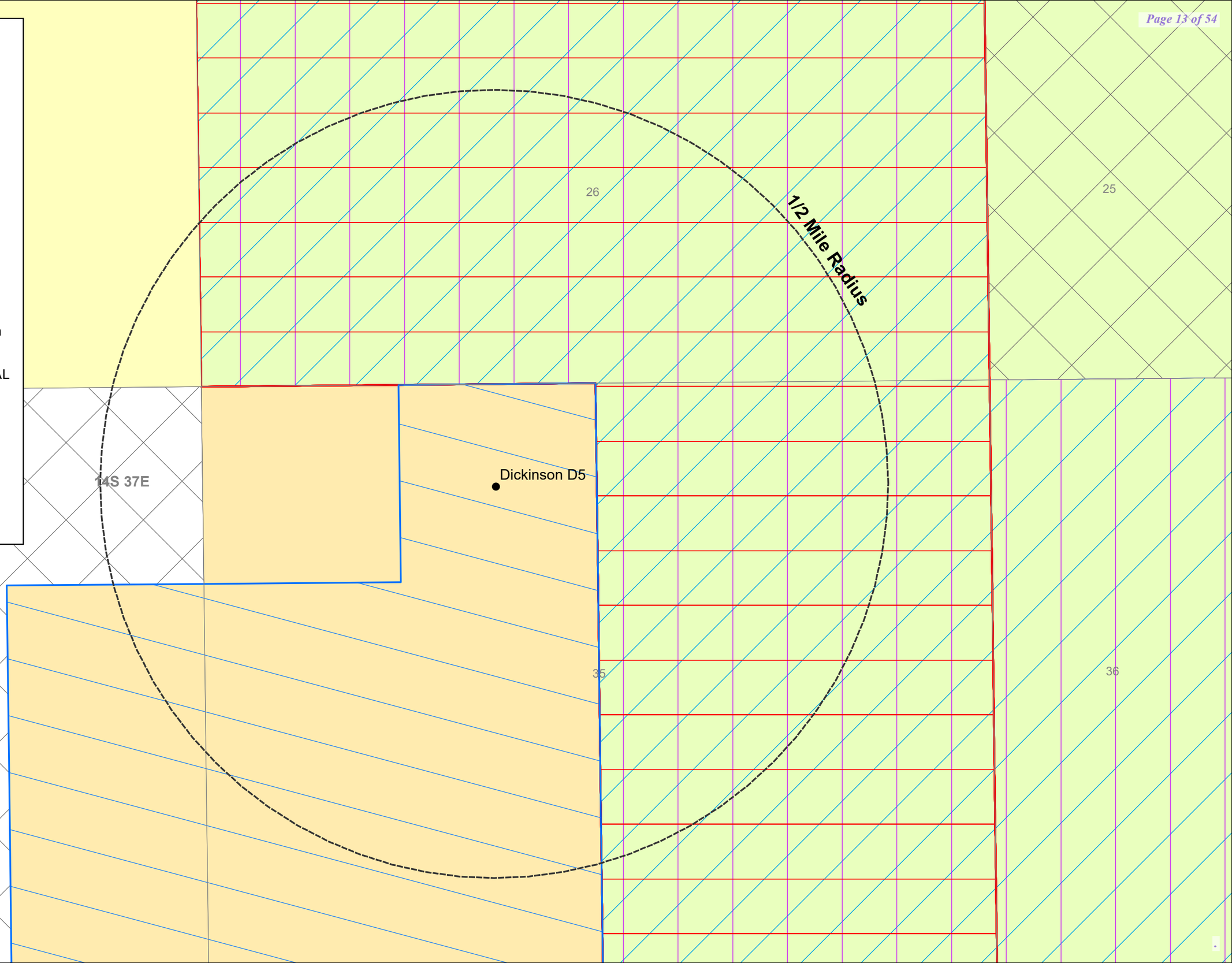
Lease Ownership

- LEGACY RESERVES OPERATING LP
- CONTANGO ERA II SUNRISE WI LLC
- DREW GST LLC
- FORTSUN ENERGY LLC
- SCORPION OIL & GAS
- XTO HOLDINGS LLC
- ISOM PROPERTIES LLC

27
26
1/2 Mile Radius
14S 37E
Dickinson D5
34
35
36
33
2
1S 37E

Mineral Ownership

- JC Maxwell ET
- BC Dickinson
- TD Pope ET
- Irene Prefontaine ET AL & Saidee Lamphear
- Bettie C Dickinson
- FG Langbien ET AL & Roy V Flesh ET AL
- Harris Trust
- Erle Payne ET



Surface Ownership

WIER BROTHERS PARTNERSHIP

STEPHENS & JOHNSON OPERATING CO

BOS DAIRY LLC

WIER BROTHERS

27

26

25

1/2 Mile Radius

WIER BROTHERS PARTNERSHIP

14S 37E

WIER BROTHERS

Dickinson D5

JOHNSON, DONNA SPEARS

34

35

36

WIER BROTHERS

STEPHENS & JOHNSON OPERATING CO

STEPHENS & JOHNSON OPERATING CO

STEPHENS & JOHNSON OPERATING CO

Additional Information

Scorpion Oil & Gas, LLC
BC Dickenson D No.5
(SWD-2614)

Rec’d May 3, 2024

From: Mike Loudermilk
To: Harris, Anthony, EMNRD
Cc: Gebremichael, Million, EMNRD; Goetze, Phillip, EMNRD; Cole Reynolds; Nathaniel Raggette; Joe Holsen
Subject: [EXTERNAL] RE: Scorpion O&G - BC Dickenson #5 - Additional Information
Date: Friday, May 3, 2024 9:53:35 PM
Attachments: image001.png
image005.png
image007.png
image008.png
image002.png
image.png
Dickenson D 5 SWD Permit final updates 5-3-24.pdf

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Please find the answers to your noted deficiencies in the C108 for the subject well.

We have included our responses in Red below and have also included the information in a copy of an updated C108 application attached to this email.
We sincerely hope these answers suffice and we can move forward quickly to getting approval for this in field disposal well.

Sincerely,

Mike Loudermilk
Scorpion Oil&Gas
VP Operations.

From: Cole Reynolds <cole@scorpionog.com>
Sent: Wednesday, May 1, 2024 11:28 AM
To: Mike Loudermilk <mike@scorpionog.com>
Cc: Nathaniel Raggette <nat@scorpionog.com>; Joe Holsen <joe@scorpionog.com>
Subject: FW: Scorpion O&G - BC Dickenson #5 - Additional Information

Thank you very much Tony! We will get responses to you **ASAP**.

Team, please see below for questions from Tony. Let's follow-up as soon as we can.

Nat

From: Harris, Anthony, EMNRD [mailto:Anthony.Harris@emnrd.nm.gov]
Sent: Tuesday, April 30, 2024 3:55 PM
To: Nathaniel Raggette <nat@scorpionog.com>
Cc: Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>; Goetze, Phillip, EMNRD <phillip.goetze@emnrd.nm.gov>
Subject: Scorpion O&G - BC Dickenson #5 - Additional Information
Importance: High

Good Afternoon

I have reviewed the subject application and completed the Admin and Tech review with the following deficiencies noted with the C-108:

C-108 Item VII

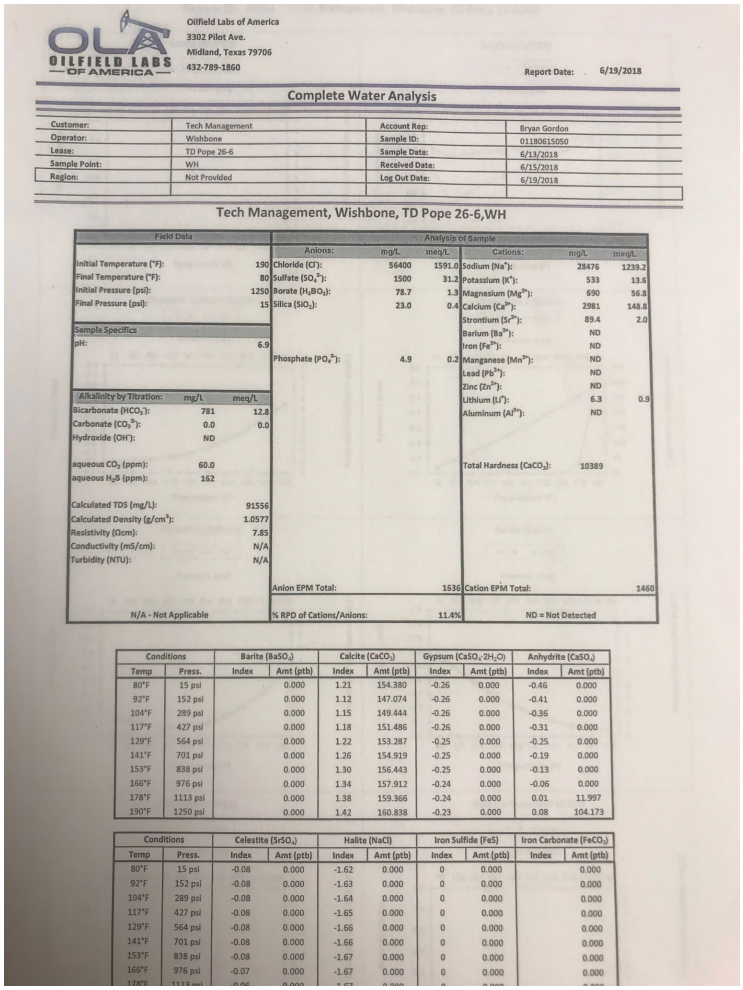
- Please confirm whether the system is Open or Closed

  The system will be a closed system and all saltwater injection will be handled from well to disposal in pipes, tanks and valves made of noncorrosive materials, properly contained, and monitored for leaks and spills.

- Please confirm the Source(s) of Injection Fluid.

  Water will be from production from the Denton Devonian formation primarily. No other wells are planned to dispose of water in the subject well at this time.

- Please provide chemical analysis of the injection fluid(s).



Oilfield Labs of America
3302 Pilot Ave.
Midland, Texas 79706
432-789-1860

Report Date: 6/19/2018

Complete Water Analysis

Customer:	Tech Management	Account Rep:	Bryan Gordon
Operator:	Wishbone	Sample ID:	01180615050
Lease:	TD Pope 26-6	Sample Date:	6/13/2018
Sample Point:	WH	Received Date:	6/15/2018
Region:	Not Provided	Log Out Date:	6/19/2018

Tech Management, Wishbone, TD Pope 26-6,WH

Field Data	
Initial Temperature (°F):	190
Final Temperature (°F):	80
Initial Pressure (psi):	1250
Final Pressure (psi):	15

Sample Specifics	
pH:	6.9

Alkalinity by Titration:	mg/L	meq/L
Bicarbonate (HCO_3^-):	781	12.8
Carbonate (CO_3^{2-}):	0.0	0.0
Hydroxide (OH^-):	ND	
aqueous CO_2 (ppm):	60.0	
aqueous H_2S (ppm):	162	
Calculated TDS (mg/L):		91556
Calculated Density (g/cm³):		1.0577
Resistivity (Ωcm):		7.85
Conductivity (mS/cm):		N/A
Turbidity (NTU):		N/A

N/A - Not Applicable

Analysis of Sample

Anions:	mg/L	meq/L
Chloride (Cl^-):	56400	1591.0
Sulfate (SO_4^{2-}):	1500	31.2
Borate ($H_2BO_3^-$):	78.7	1.3
Silica (SiO_2):	23.0	0.4
Phosphate (PO_4^{3-}):	4.9	0.2
Anion EPM Total:		1636
% RPD of Cations/Anions:		11.4%

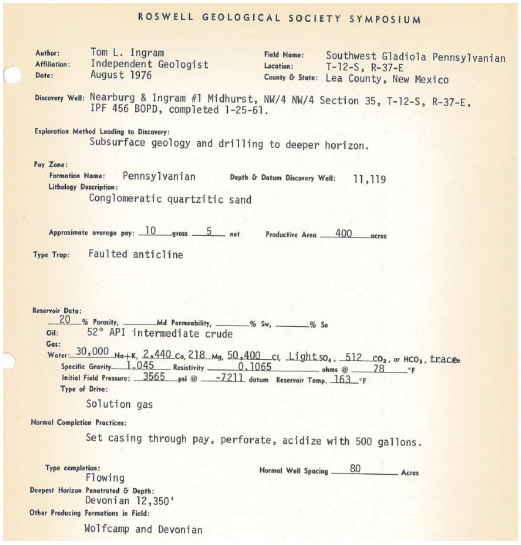
Cations:	mg/L	meq/L
Sodium (Na^+):	28476	1239.2
Potassium (K^+):	533	13.6
Magnesium (Mg^{2+}):	690	56.8
Calcium (Ca^{2+}):	2981	148.8
Strontium (Sr^{2+}):	89.4	2.0
Barium (Ba^{2+}):	ND	
Iron (Fe^{2+}):	ND	
Manganese (Mn^{2+}):	ND	
Lead (Pb^{2+}):	ND	
Zinc (Zn^{2+}):	ND	
Lithium (Li^+):	6.3	0.9
Aluminum (Al^{3+}):	ND	
Total Hardness ($CaCO_3$):	10389	
Cation EPM Total:		1460

ND = Not Detected

Conditions		Barite ($BaSO_4$)		Calcite ($CaCO_3$)		Gypsum ($CaSO_4 \cdot 2H_2O$)		Anhydrite ($CaSO_4$)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi		0.000	1.21	154.380	-0.26	0.000	-0.46	0.000
92°F	152 psi		0.000	1.12	147.074	-0.26	0.000	-0.41	0.000
104°F	289 psi		0.000	1.15	149.444	-0.26	0.000	-0.36	0.000
117°F	427 psi		0.000	1.18	151.486	-0.26	0.000	-0.31	0.000
129°F	564 psi		0.000	1.22	153.287	-0.25	0.000	-0.25	0.000
141°F	701 psi		0.000	1.26	154.919	-0.25	0.000	-0.19	0.000
153°F	838 psi		0.000	1.30	156.443	-0.25	0.000	-0.13	0.000
166°F	976 psi		0.000	1.34	157.912	-0.24	0.000	-0.06	0.000
178°F	1113 psi		0.000	1.38	159.366	-0.24	0.000	0.01	11.997
190°F	1250 psi		0.000	1.42	160.838	-0.23	0.000	0.08	104.173

Conditions		Celestite ($SrSO_4$)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate ($FeCO_3$)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	-0.08	0.000	-1.62	0.000	0	0.000		0.000
92°F	152 psi	-0.08	0.000	-1.63	0.000	0	0.000		0.000
104°F	289 psi	-0.08	0.000	-1.64	0.000	0	0.000		0.000
117°F	427 psi	-0.08	0.000	-1.65	0.000	0	0.000		0.000
129°F	564 psi	-0.08	0.000	-1.66	0.000	0	0.000		0.000
141°F	701 psi	-0.08	0.000	-1.66	0.000	0	0.000		0.000
153°F	838 psi	-0.08	0.000	-1.67	0.000	0	0.000		0.000
166°F	976 psi	-0.07	0.000	-1.67	0.000	0	0.000		0.000

- Please provide Chemical Analysis of the disposal zone formation water if available. Below as a graphic but Also in Attached updated permit package.



ROSWELL GEOLOGICAL SOCIETY SYMPOSIUM

Author: Tom L. Ingram
Affiliation: Independent Geologist
Date: August 1976

Field Name: Southwest Gladiola Pennsylvanian
Location: T-12-S, R-37-E
County & State: Lea County, New Mexico

Discovery Well: Nearburg & Ingram #1 Midhurst, NW/4 NW/4 Section 35, T-12-S, R-37-E, IPF 456 BOPD, completed 1-25-61.

Exploration Method Leading to Discovery:
Subsurface geology and drilling to deeper horizon.

Pay Zone:
Formation Name: Pennsylvanian Depth & Datum Discovery Well: 11,119
Lithology Description:
Conglomeratic quartzitic sand

Approximate average pay: 10 gross 5 net Productive Area 400 acres

Type Trap: Faulted anticline

Reservoir Data:
20 % Porosity, _____ Md Permeability, _____ % Sw, _____ % So
Oil: 52° API intermediate crude
Gas:
Water: 30,000 Na+K, 2,440 Ca, 218 Mg, 50,400 Cl, Light SO_4, 512 CO_2, or HCO_3, trace
Specific Gravity 1.045 Resistivity 0.1065 ohms @ 78 °F
Initial Field Pressure: 3665 psi @ -7211 datum Reservoir Temp. 163 °F
Type of Drive:
Solution gas

Normal Completion Practices:
Set casing through pay, perforate, acidize with 500 gallons.

Type completion:
Flowing
Normal Well Spacing 80 Acres

Deepest Horizon Penetrated & Depth:
Devonian 12,350'
Other Producing Formations in Field:
Wolfcamp and Devonian

- Please provide a statement on whether the disposal zone is capable of oil and gas production.

The Pennsylvanian (Cisco) has been tested an has never been produced in the Denton Field. It has been used as a disposal well zone for both Wolfcamp and Devonian formations.

C-108 Item VIII

- Please confirm the name of the planned disposal zone, and the corresponding formation top(s). The following discrepancies were noted:
  - Application references Pennsylvanian (Cisco) as the disposal zone with planned perfs from 9955 – 10,284 ft.
    - The name of disposal unit is confirmed as the Pennsylvanian (Cisco) and disposal zone depths are confirmed as 9955'-10284'
  - Attachment #2 references the Top of Pennsylvanian at 10,928 ft (ie. Below the planned injection interval)
    - Formation tops used in charts on Attachment 2 and Attachment 3 in the first permit submission are from original filing dated March 10, 1953 – Scorpion's interpretation of tops are reflected in the chart below and updated charts on Attachment 2 and Attachment 3 which also conform with the Dickinson D5 SP-Resistivity well log dated 2-15-53

Fromation Tops MD	Top P	Bottop P	Plugs
Rustler	2148'		
Yates	3134'		
Grayburg			
San Andres	4626'		
Holt			
Glorieta	6139'		
Drinkard	6727'		
Tubb	7271'		
Abo	7960'		
Wolfcamp	9051'		
Penn	9690'		
Miss	11310'		
Woodford	12016'		
Devonian	12156'		

  - Tops listed in Attachment #2 do not correspond with log pics
    - (Refer to well file Log SP-Resistivity dated 2-15-1953)
    - Please refer to the chart below and updated charts on Attachment 2 and Attachment 3

Fromation Tops MD	Top P	Bottop P	Plugs
Rustler	2148'		
Yates	3134'		
Grayburg			
San Andres	4626'		
Holt			
Glorieta	6139'		
Drinkard	6727'		
Tubb	7271'		
Abo	7960'		
Wolfcamp	9051'		
Penn	9690'		
Miss	11310'		
Woodford	12016'		
Devonian	12156'		

- Please confirm the name and depth of the confining geologic unit(s) above and below the disposal interval and include a technical narrative on whether the disposal fluids will be confined to the intended disposal interval.
  - Confining geologic unites are defined as: Overlain geologic unit as the Wolfcamp at 9051'-9690' and underlain geologic unit as the Mississippian from 11310'-12016.'
  - There is evidence of good cement behind all the tubulars. A CBL will be run to ensure that there is adequate isolation of all the zones behind the pipe. If not, the Pennsylvanian (Cisco) will be squeezed cemented above and below . This should ensure that all formations will be isolated at the well bore.
  - From the data we have available, There is no known open faults or hydraulic connection to underground drinking water. This would infer a hydraulic connection from ~9915' to ~150')

C-108 Item IX

Please confirm whether a stimulation program is planned and, if applicable, provide details on fluid type, quantity etc.

Stimulation will consist of pumping 5 gallons of 15% HCL acid per foot of perforations to open the perforations and clean up the near well bore, followed by a produced water flush.

C-108 Item XI

- Please provide a Chemical Analysis from two or more Fresh Water wells (if available and

producing) within 1 mile of the proposed disposal well. After some review we can find no freshwater wells that are producing within the one-mile radius of the Dickinson D 5

C-108 Item XII

Please provide an affirmative statement signed by a qualified representative. (From the data we have available, There is no known open faults or hydraulic connection to underground drinking water. This would infer a hydraulic connection from ~9915' to ~150')

Feel free to contact me if you have any questions or require clarification.

Regards

Tony Harris

Petroleum Specialist

Anthony.harris@emnrd.nm.gov

505 549 8131.

From: Nathaniel Raggette <nat@scorpionog.com>
Sent: Thursday, April 18, 2024 2:40 PM
To: Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>
Cc: Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Scorpion Oil: New SW Injection Well Permit Application

Great, thank you Million. I was able to connect with Tony.

I really appreciate your help in getting our application reviewed and approved.

Nat

From: Gebremichael, Million, EMNRD [mailto:Million.Gebremichael@emnrd.nm.gov]
Sent: Thursday, April 18, 2024 9:20 AM
To: Nathaniel Raggette <nat@scorpionog.com>
Cc: Harris, Anthony, EMNRD <Anthony.Harris@emnrd.nm.gov>
Subject: RE: [EXTERNAL] RE: Scorpion Oil: New SW Injection Well Permit Application

Hello Nathaniel,

Our OCD engineer Anthony Harris (CC'd) is taking care of your application, please follow up with him.

Thanks,

Million Gebremichael

Petroleum Specialist- A
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Cell : 505-4791137

From: Nathaniel Raggette <nat@scorpionog.com>
Sent: Wednesday, April 17, 2024 1:20 PM
To: Gebremichael, Million, EMNRD <Million.Gebremichael@emnrd.nm.gov>
Subject: [EXTERNAL] RE: Scorpion Oil: New SW Injection Well Permit Application

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hi Million,

Do you mind calling me about the SWD permit application that we submitted? I just called your office and your vmail is not set up.

I'm hoping to follow-up on the email below and to make sure the application was received and that we included everything necessary for your review. 281-306-6820

Thanks in advance for the help!

Nat

Nathaniel J. Raggette

Founder & CEO

SCORPION OIL & GAS

4779 South Main Street

Stafford, TX 77477

(o) 281.306.6820

(m) 713.594.1845

nat@scorpionog.com

From: Nathaniel Raggette
Sent: Wednesday, April 03, 2024 12:19 AM
To: million.gebremichael@emnrd.nm.gov
Cc: Mike Loudermilk <mike@scorpionog.com>; Joe Holsen <joe@scorpionog.com>; Cole Reynolds <cole@scorpionog.com>
Subject: Scorpion Oil: New SW Injection Well Permit Application
Importance: High

Hi Million,

I hope you are doing well sir!

Please find attached a new SW Injection Permit Application that we will submit as soon as we get the local newspaper's confirmation that the notice has been included in the paper. We will submit the application through appropriate channels, but I also wanted to circle back with you directly to see if

you can help us expedite this application process. We are literally begging for your help to get the application reviewed and approved quickly for the following reasons:

1. We have more than 100 Bpd of oil production that has been shut-in since September 2023 because our existing Shell Maxwell SWD has been shut-in since that month. Our Mann SWD cannot handle all of the water production in the Denton Field.
2. We have spent more than **$700,000** on the Shell Maxwell SWD trying to fix downhole problems unsuccessfully. We have not given up on the well and we plan to circle back to it, but we wanted to pay off some vendor invoices before we ask them to work on this well again.
3. Because our biggest SWD is shut-in, we cannot work-over any of our existing shut-in wells because again, we have no room to dispose the water.
4. We have found tremendous upside in our Denton field in the form of up-hole recompletions and shut-in wells that can be returned to production, but again, we cannot pursue these initiatives because our SWD capacity is at its limit.
5. The State of New Mexico is missing out on valuable severance tax revenue because of our shut-in wells.
6. Mineral owners that rely on our operations are missing out on valuable royalties because of our shut-in wells.
7. As an example, if our permit application was approved tomorrow because of emergency operations, we could recomplete into a disposal zone within days of the approval and work around the clock to get our wells back to production within weeks.
8. At that point, the State of New Mexico's tax revenue would go up *immediately* and our mineral owners would start receiving royalty payments again *immediately*.

Our whole team is losing sleep over our existing water disposal capacity. Scorpion's working capital, although adequate to support existing operations, would benefit tremendously from the immediate uplift in production and cash flow, which will be utilized to further increase production and cash flow, all the while helping the State of New Mexico and mineral owners.

Thank you in advance for your help with this matter. We are happy to provide any clarification and/or additional information that you need to expedite this process. Please do not hesitate to call us anytime.

Nat

Nathaniel J. Raggette

Founder & CEO

SCORPION OIL & GAS

4779 South Main Street

Stafford, TX 77477

(o) 281.306.6820

(m) 713.594.1845

nat@scorpionog.com

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-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance X Disposal _____Storage
Application qualifies for administrative approval? _____Yes _____No

II. OPERATOR: Scorpion Oil & Gas LLC.

ADDRESS: 4779 S Main Street, Stafford Texas, 77477

CONTACT PARTY: Mr. Nathanial Raggette, PHONE: 281-205-3043 or Mr. Mike Loudermilk Phone 281-694-4571

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? **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. **See Attachment 1**

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. **See Attachment 2**

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. Stimulation will consist of pumping 5 gallons of acid per foot of perforations to open the perforations and clean up the near well bore followed by a produced water flush.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). There is no other Logging or test data at this time. All data has been submitted to the Division. The well will be pressure tested prior to work over to ensure casing integrity. Then the behind pipe cement will be evaluated to make sure adequate isolation exists between the injection zone and other production zone.

*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. After some review we can find no freshwater wells that are producing within the one-mile radius of the Dickenson D 5

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. (From the data we have available, There is no known open faults or hydraulic connection to underground drinking water. This would infer a hydraulic connection from ~9915' to ~150')

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 Loudermilk TITLE: VP of Operations

SIGNATURE: _____DATE: 4/1/2024

E-MAIL ADDRESS: Mike@scorpionog.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: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

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: See Well Data Sheet Below

(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. The notice of publication from the Hobbs News Sun and copy of certified mail to the offset operator is attached

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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.

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.

BC Dickenson D #5,Unit C, Sec 35, T14S, R37E. 660' FNL & 1980' FWL

(1) The name of the injection formation and, if applicable, the field or pool name.
- Injection will be in the Pennsylvanian (Cisco) formation.

(2) The injection interval and whether it is perforated or open-hole.
- The zone will be perforated with 2SPF .4'dia from 9,955' - 10,085' and 10,122' – 10,284'.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.
- The well was originally drilled as a producer.

(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.
- Devonian is open hole completed from 12178' to 12575' and produced. It was then T&A by setting a CIBP@ 12100' and 25 feet of cement placed on top. No other zones were perforated in the well bore according the available information.

(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.
- The productive zone above the Pennsylvanian injection zone is the Wolf camp, with the top @ 9051' to 9690'. It is a known producer in the area, but has never produced from this well bore and is behind pipe and is covered by cement.
- The productive zone below the Pennsylvanian injection zone is the Devonian with a top @ 12156' to PBTD. It is the primary producer in this well and is cemented below the end of the 5 ½" pipe as well.
- There is evidence of good cement behind all the tubulars. A CBL will be run to ensure that there is adequate isolation of all the zones behind the pipe. If not, the Pennsylvanian (Cisco) will be squeezed cemented above and below . This should ensure that all formations will be isolated at the well bore.

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.

Geologic Age:	Pennsylvanian	
Geologic Name:	Cisco	
Average Thickness:	~685'	
Lithology:	Shaly Limestone & Dolomite	
Measured Depth:	9,692	
USDW's:	Ogallala Formation - present at depths of ~40'-150'	
Disposal Target:	9,955' - 10,085'	130
	10,122' - 10,284'	162
		292

VII. Attach data on the proposed operation, including:

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

Based on the history in the area of injection into the Pennsylvanian formation, and recent history of disposal wells in the Penn with 3 ½" IPC tubing installed, it is anticipated the injection rates will be 10,000 bbls or water at 2000 psi. Of course, a test will be run to substantiate the rates and pressures to be approved by the EMNRD

2. Whether the system is open or closed.

The system will be a closed system and all saltwater injection will be handled from well to disposal in pipes, tanks and valves made of noncorrosive materials and monitored for leaks and spills.

3. Proposed average and maximum injection pressure.

Maximum design pressure for injection is 2000 psi. The average injection pressure is expected to be much less and will be determined by a step rate test.

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

Water will be from production from the Denton Devonian formation primarily. No other wells are planned to dispose of water in the subject well at this time. Compatibility with the produced water from the Devonian has been demonstrated by the history of the wells that were used for disposal in Pennsylvanian (Cisco) in this area.

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.).

We have an existing water analysis from the Denton field. And a sample of the Pennsylvanian (Cisco) **See attachment 5** below.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Scorpion Oil and Gas LLC

WELL NAME & NUMBER: BC Dickenson D #5,

WELL LOCATION: 660’ FNL & 1980’ FWL C , Sec 35, T14S, R37E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

See Attached Well Bore Diagrams 2 & 3

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-1/4” Casing Size13 -3/8”

Cemented with: 400 sx. ***or*** 424 ft^3

Top of Cement: Surface Method Determined: Visual

Intermediate Casing

Hole Size: 12-1/4” Casing Size8 – 5/8”

Cemented with: 2000 sx. ***or*** 2120 ft^3

Top of Cement: Surface Method Determined:

Production Casing

Hole Size: 7 – 7/8” Casing Size: 5 – ½”

Cemented with: 1000 sx. ***or*** 1060 ft^3

Top of Cement: 4470’ Method Determined: Circulated

Total Depth: 12475’

Injection Interval

9955’ – 10085’ and 10122’ 10285’feet
Perforated 2 spf

INJECTION WELL DATA SHEET

Tubing Size: 3- 1/2" 7.7#N-80 IPC Lined Material: Plastic Lined

Type of Packer: Arrowset 1X packer

Packer Setting Depth: 9855'

Other Type of Tubing/Casing Seal (if applicable): NA

Additional Data

1. Is this a new well drilled for injection? No

   If no, for what purpose was the well originally drilled? Production from the Devonian

2. Name of the Injection Formation: Pennsylvanian (Cisco)

3. Name of Field or Pool (if applicable): NA

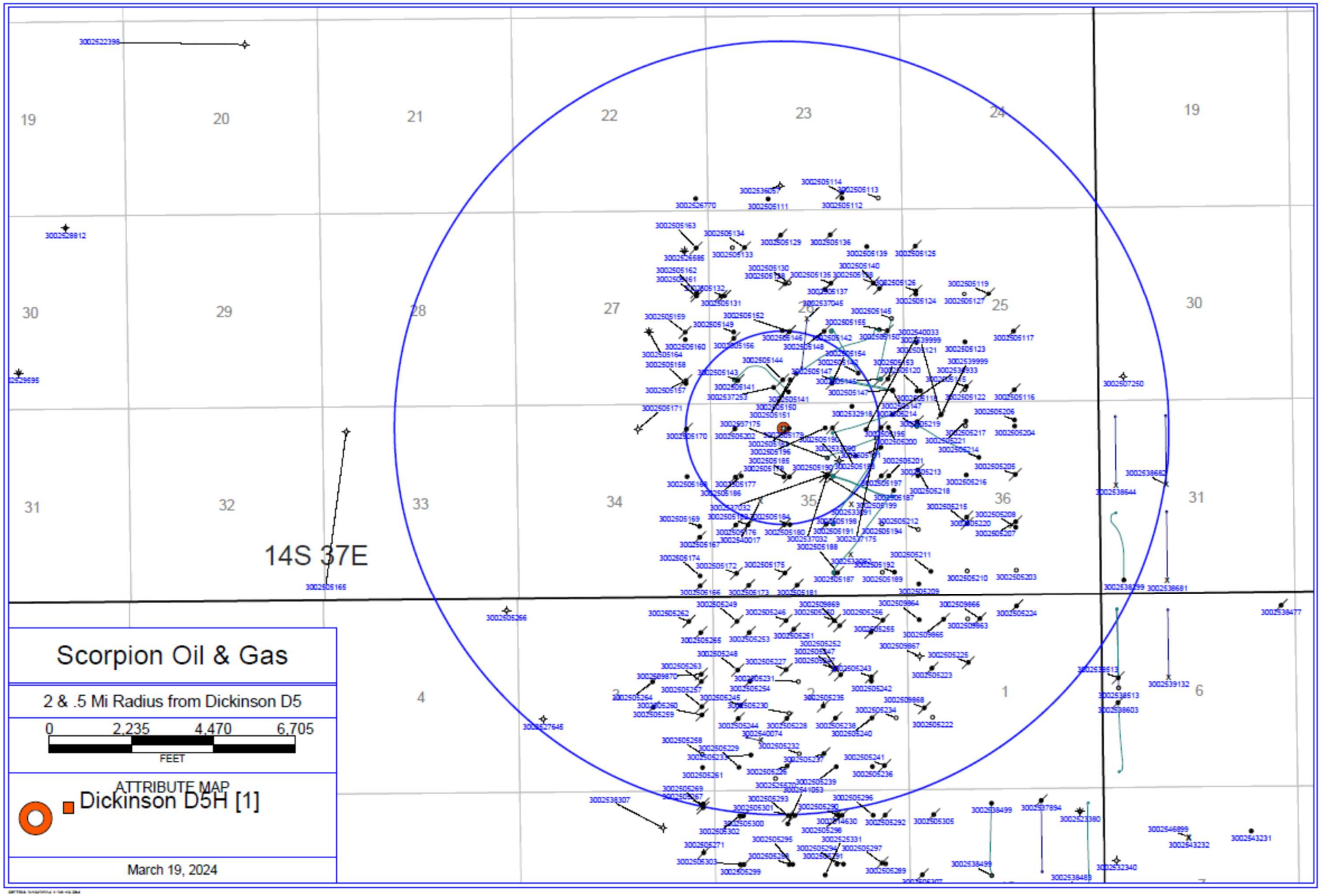
4. Has the well ever been perforated in any other zone(s)? List all such perforated. intervals and give plugging detail, i.e. sacks of cement or plug(s) used. **See Attachment 3 & 4**

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

   Wolfcamp – Top @ 9051'- 9690'

   Devonian - Top @ 12156' – 12305'

Attachment 1. Dickinson D #5 two mile and half mile radius



List of wells within the area of review which penetrate the injection zone Attachment 2

Surface casing						Intermediate Casing						2nd Intermediate Casing				Production Casing or Liner					
Casing Si	Hole Si	Dep	Sx Cı	Surfa	Visua	Casing Si	Hole Si	Dep	Sx Cı	TOC	Metho	Casing Si	Hole Si	Dep	Sx C	Casing Si	Hole Si	Dep	Sx Cı	TO	Methoc
10.75	15.00	475	450	Surface	Visual	7.625	9.875	4,405	2,070	Surface	Visual					5.5	6.75	9,355	270	7,265	TS
13.38	17.25	467	550	Surface	Visual	8.625	11	4,810	2,300	Surface	Visual					5.5	7.875	12,636	220	9,300	TS
10.75	15.00	434	500	Surface	Visual	7.625	9.875	4,805	2,272	Surface	Visual					5.5	6.75	9,370	600	7,265	TS
13.38	17.00	337	400	Surface	Visual	8.625	11	4,760	2,000	760	TS					5.5	7.875	12,508	875	3,432	cir
13.38	17.00	339	400	Surface	Visual	8.625	11	4,744	2,000	Surface	Visual					5.5	7.875	12,359	900	4,415	cir
13.38	17.00	321	400	Surface	Visual	8.625	12.25	4,760	2,100	Surface	Visual					5.5	7.875	9,200	800	4,477	cir
13.38	17.50	430	450	Surface	Visual	8.625	11	4,820	3,700	Surface	Visual					5.5	7.875	12,010	740	6,259	cal
13.38	17.25	492	525	Surface	Visual	8.625	11	4,850	2,540	Surface	Visual					5.5	7.875	12,635	800	7,740	cal
10.75	15.00	448	450	Surface	Visual	7.625	9.875	4,800	1,565	Surface	Visual					5.5	6.75	9,355	415	4,623	cir
13.38	17.50	360	350	Surface	Visual	8.625	11	4,778	3,175	Surface	Visual					5.5	7.875	12,732	1,250	5,100	TS
13.38	17.50	409	425	Surface	Visual	9.625	12.25	4,855	3,300	Surface	Visual					5.5	6.75	12,640	200	6,000	TS
13.38	17.25	462	550	Surface	Visual	8.625	11	4,850	2,680	Surface	Visual					5.5	7.875	12,635	1,500	4,858	cir
13.38	17.00	335	400	Surface	Visual	8.625	11	4,737	2,000	Surface	Visual					5.5	7.875	12,298	700	6,500	cal
13.38	17.00	319	400	Surface	Visual	8.625	11	4,730	2,000	Surface	Visual					5.5	7.875	12,178	1,000	4,470	cir
13.38	17.00	337	400	Surface	Visual	8.625	11	4,740	2,200	Surface	Visual					5.5	7.875	9,180	700	4,740	cir
10.75	15.00	450	550	Surface	Visual	7.625	9.875	4,800	2,165	Surface	Visual					5.5	6.75	9,350	240	7,500	TS
13.38	17.50	363	400	Surface	Visual	8.625	12.25	4,820	1,500	Surface	Visual					5.5	8.75	12,550	1,230	6,037	cal
13.38	17.50	425	375	Surface	Visual	9.625	11	4,700	2,558	Surface	Visual					7	8.75	12,804	2,045	1,536	cal
13.63	17.50	408	500	Surface	Visual	9.625	12.25	4,700	2,500	Surface	Visual					7	8.75	12,879	525	7,232	cal
13.38	17.50	408	500	Surface	Visual	9.625	12.25	4,700	2,500	Surface	Visual					7	8.75	12,821	1,400	4,000	cal
13.38	17.50	372	445	Surface	Visual	9.625	12.25	4,795	1,725	Surface	Visual	7"	8 3/4"	12,015	1,084	7	8.75	12,015	1,084	7,290	cbl
10.75	15.00	457	600	Surface	Visual	7.625	9.875	4,692	1,930	Surface	Visual					5.5	6.75	9,390	705	4,474	cir
13.38	17.00	350	400	Surface	Visual	8.625	11	4,750	2,100	Surface	Visual					5.5	7.875	9,160	750	4,508	cir
13.38	17.00	340	400	Surface	Visual	8.625	11	4,750	2,100	Surface	Visual					5.5	7.875		800	4617	cir
13.38	17.50	396	475	Surface	Visual	8.625	11	4,801	1,450	Surface	Reg Doc					5.5	7.875	13,160	1,475	6,280	cbl

Spud Date	Well #	Comp	Typ	Interval	Prod Fm
3/20/1953	9,355	Perf		9262-9304	Wolfcamp
3/22/1953	12,636	Perf	Acidize	12180-12125 12265-12220 12310-12350 12460-12500	Devonian
8/18/1953	9,370	Perf	Acidize	9344-9331 9225-9217 9187-9197	Wolfcamp
3/4/1952	12,670	Openhole	Acidize	12508-12670	Devonian
3/3/1953	12,560	Openhole		12369-12560	Devonian
7/27/1953	9,300	Openhole	Acidize	9190-9300	Wolfcamp
12/11/1952	12,342	Openhole		12010-12342	Devonian
4/19/1953	12,635	Perf		12020-11970 12111-12059 12133-12175 12195-12233 12243-12393 12489-12539	Devonian
9/29/1953	9,355	Perf		9181-9206	Wolfcamp
12/27/1966	12,740	Perf	Acidize	9316-9304 9338-9328 9424-9434 9438-9448	Wolfcamp
12/28/2004	14,325	Openhole		12305-12594 12641-14325	Devonian
12/4/2004	14,190	Openhole		12385-14190	Devonian
7/16/1952	12,400	Openhole	Acidize	12298-12400	Devonian
4/13/2011	12,475	Openhole		12178-12305	Devonian
6/16/1953	9,250	Openhole	Acidize	9180-9250	Wolfcamp
8/2/1953	9,350	Perf	Acidize	9183-9215	Wolfcamp
4/24/1995	12,550	Perf	Acidize	12418-12422 12447-12453	Devonian
12/5/2004	14,356	Openhole /Perf	Acidize	14356-12545 12050-12036 12055-12060	Devonian
4/23/2019	13,951	Openhole /Perf	Acidize	9232-9242 9182-9216 12879-13951	Wolfcamp/ Devonian
6/4/2005	12,821	Perf		12096-12090 12120-12112 12332-12342 12498-12510 12532-12542	Devonian
5/12/2011	12,917	Perf	Acidize	12348-12338 12429-12367 12514-12562 12600-12612 12710-12790	Wolfcamp
4/9/1968	9,390	Perf	Acidize	9210-9240 9340-9370	Wolfcamp
12/20/1976	9,280	Openhole	Acidize	9160-9280	Wolfcamp
3/16/1992	9,380	Openhole	Acidize	9280-9380	Wolfcamp
11/15/2000	13,160	Perf	Acidize	9184-9246	Wolfcamp

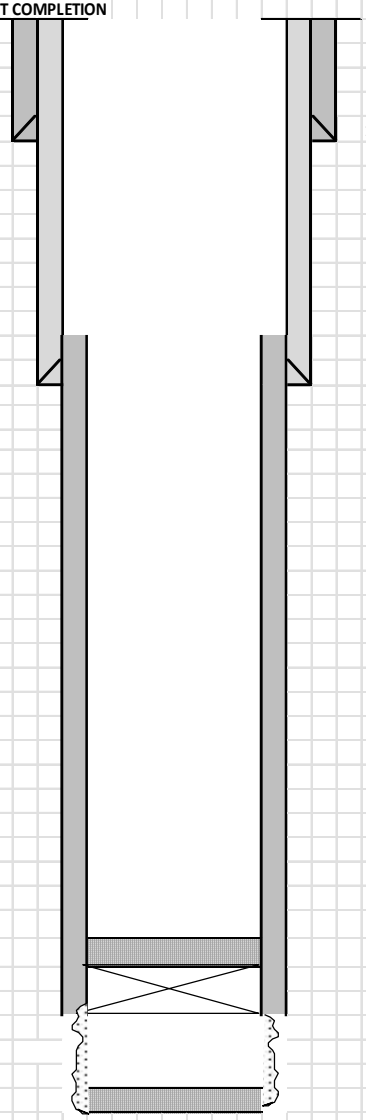
Attachment 3

Operator:	**Scorpion Oil and Gas**	**LAST UPDATED**	3/20/2024
LEASE & WELL NO.	BC Dickenson D 5	**COUNTY & STATE**	Lea - NM
FIELD NAME		**API NO.**	30-025-05179
FORMER OPERATOR	Ring Energy	**Location:**	660' FNL & 1980' FWL Sec 35, T14S, R37E
			The well is located in Lea County Denton Devonian

CURRENT COMPLETION

SPUD DATE	11/4/1952
COMPLETION DATE	2/17/1953
K.B. ELEV.	
D.F. ELEV.	
GROUND LEVEL	3812'

CURRENT COMPLETION



SURFACE CASING

SIZE	13-3/8"	WEIGHT	54.0#	DEPTH	319'
GRADE		SX. CMT.	400 sx	TOC @	Surface
Hole	17-1/4''				

13-38" 54 # H40 0 to 319' 400 sx cir to surface

INTERMEDIATE CASING

SIZE	8-5/8"	WEIGHT	32#	DEPTH	4730'
GRADE	J-55	SX. CMT.	2000 sx	TOC @	Surface
Hole	12-1/4''	SX. CMT.		1"	

4470' Top of Liner
Toc 4470' Circulated.

8-5/8" 32# J55 0 to 2000 sx cir to surface

PRODUCTION LINER

SIZE	5-1/2''	WEIGHT	17# & 20#	Top Liner	4470'
GRADE	N80	SX. CMT.	1000 sx	DEPTH	12178'
Hole	7 7/8"			TOC @	4470' cir

Tagged @ 12075'
12100' CIBP W/ 25' Cement on top

PBTD@	12305'
TD@	12475'

Devonion OH 12178' 12475'

Formation Tops MD	Top P	Bottom P	Plugs
Rustler	2152'		
Yates	3135'		
Grayburg			
San Andres	4626'		
Holt			
Glorieta	6139'		
Drinkard	6727'		
Tubbs	7271'		
Abo	7960'		
Penn	9051'		
Wolfcamp	9690'		
Miss	11310'		
Woodford	12016'		
Devonian	12156'		

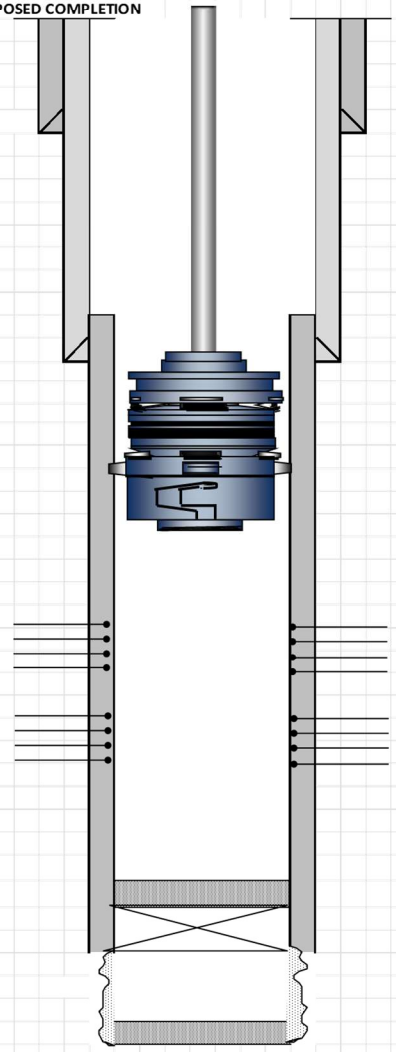
Attachment 4

Operator:	**Scorpion Oil and Gas**	**LAST UPDATED**	3/20/2024
LEASE & WELL NO.	BC Dickenson D 5	**COUNTY & STATE**	Lea - NM
FIELD NAME		**API NO.**	30-025-05179
FORMER OPERATOR	Ring Energy	**Location:**	660' FNL & 1980' FWL Sec 35, T14S, R37E
			The well is located in Lea County Denton Devonian

PROPOSED COMPLETION

SPUD DATE	11/4/1952
COMPLETION DATE	2/17/1953
K.B. ELEV.	
D.F. ELEV.	
GROUND LEVEL	3812'

PROPOSED COMPLETION



SURFACE CASING

SIZE	13-3/8"	WEIGHT	54.0#	DEPTH	319'
GRADE	H-40	SX. CMT.	400 sx	TOC @	Surface
Hole	17-1/4''				

13-38" 54 # H40 0 to 319' 400 sx cir to surface

INTERMEDIATE CASING

SIZE	8-5/8"	WEIGHT	32#	DEPTH	4730'
GRADE	J-55	SX. CMT.	2000 sx	TOC @	Surface
Hole	12-1/4''	SX. CMT.		1"	

4470' Top of Liner
Toc 4470' Circulated.

8-5/8" 32# J55 0 to 2000 sx cir to surface

PRODUCTION LINER

SIZE	5-1/2''	WEIGHT	17# & 20#	Top Liner	4470'
GRADE	N-80	SX. CMT.	1000 sx	DEPTH	12178'
Hole	7 7/8"			TOC @	4470' cir

3- 1/2" 7.7#N-80 IPC tbg w/Arrowset 1Xpkr @9855'

Perforations 9,955' - 10,085'

Perforations 10,122' - 10,284'

Tagged @ 12075'
12100' CIBP W/ 25' Cement on top
5-1/2" 17&20# N80 Liner set from 4470' to 12178' 1000 sx circulated to top of liner.

PBTD@	12305'
TD@	12475'

Devonion OH 12178' 12475'

Formation Tops MD	Top P	Bottom P	Plugs
Rustler	2152'		
Yates	3135'		
Grayburg			
San Andres	4626'		
Holt			
Glorieta	6139'		
Drinkard	6727'		
Tubbs	7271'		
Abo	7960'		
Wolfcamp	9051'		
Penn	9690'		
Miss	11310'		
Woodford	12016'		
Devonian	12156'		

Attachment 5
Disposal water analysis

Oilfield Labs of America
3302 Pilot Ave.
Midland, Texas 79706
432-789-1860

Report Date: 6/19/2018

Complete Water Analysis

Customer:	Tech Management	Account Rep:	Bryan Gordon
Operator:	Wishbone	Sample ID:	01180615050
Lease:	TD Pope 26-6	Sample Date:	6/13/2018
Sample Point:	WH	Received Date:	6/15/2018
Region:	Not Provided	Log Out Date:	6/19/2018

Tech Management, Wishbone, TD Pope 26-6,WH

Field Data	
Initial Temperature (°F):	190
Final Temperature (°F):	80
Initial Pressure (psi):	1250
Final Pressure (psi):	15
Sample Specifics	
pH:	6.9

Alkalinity by Titration:	mg/L	meq/L
Bicarbonate (HCO_3^-):	781	12.8
Carbonate (CO_3^{2-}):	0.0	0.0
Hydroxide (OH^-):	ND	
aqueous CO_2 (ppm):	60.0	
aqueous H_2S (ppm):	162	
Calculated TDS (mg/L):		91556
Calculated Density (g/cm³):		1.0577
Resistivity (Ωcm):		7.85
Conductivity (mS/cm):		N/A
Turbidity (NTU):		N/A

N/A - Not Applicable

Analysis of Sample — Anions:	mg/L	meq/L
Chloride (Cl^-):	56400	1591.0
Sulfate (SO_4^{2-}):	1500	31.2
Borate (H_3BO_3):	78.7	1.3
Silica (SiO_2):	23.0	0.4
Phosphate (PO_4^{3-}):	4.9	0.2
Anion EPM Total:		1636
% RPD of Cations/Anions:		11.4%

Cations:	mg/L	meq/L
Sodium (Na^+):	28476	1239.2
Potassium (K^+):	533	13.6
Magnesium (Mg^{2+}):	690	56.8
Calcium (Ca^{2+}):	2981	148.8
Strontium (Sr^{2+}):	89.4	2.0
Barium (Ba^{2+}):	ND	
Iron (Fe^{2+}):	ND	
Manganese (Mn^{2+}):	ND	
Lead (Pb^{2+}):	ND	
Zinc (Zn^{2+}):	ND	
Lithium (Li^+):	6.3	0.9
Aluminum (Al^{3+}):	ND	
Total Hardness ($CaCO_3$):	10389	
Cation EPM Total:		1460

ND = Not Detected

Conditions		Barite ($BaSO_4$)		Calcite ($CaCO_3$)		Gypsum ($CaSO_4 \cdot 2H_2O$)		Anhydrite ($CaSO_4$)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi		0.000	1.21	154.380	-0.26	0.000	-0.46	0.000
92°F	152 psi		0.000	1.12	147.074	-0.26	0.000	-0.41	0.000
104°F	289 psi		0.000	1.15	149.444	-0.26	0.000	-0.36	0.000
117°F	427 psi		0.000	1.18	151.486	-0.26	0.000	-0.31	0.000
129°F	564 psi		0.000	1.22	153.287	-0.25	0.000	-0.25	0.000
141°F	701 psi		0.000	1.26	154.919	-0.25	0.000	-0.19	0.000
153°F	838 psi		0.000	1.30	156.443	-0.25	0.000	-0.13	0.000
166°F	976 psi		0.000	1.34	157.912	-0.24	0.000	-0.06	0.000
178°F	1113 psi		0.000	1.38	159.366	-0.24	0.000	0.01	11.997
190°F	1250 psi		0.000	1.42	160.838	-0.23	0.000	0.08	104.173

Conditions		Celestite ($SrSO_4$)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate ($FeCO_3$)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
80°F	15 psi	-0.08	0.000	-1.62	0.000	0	0.000		0.000
92°F	152 psi	-0.08	0.000	-1.63	0.000	0	0.000		0.000
104°F	289 psi	-0.08	0.000	-1.64	0.000	0	0.000		0.000
117°F	427 psi	-0.08	0.000	-1.65	0.000	0	0.000		0.000
129°F	564 psi	-0.08	0.000	-1.66	0.000	0	0.000		0.000
141°F	701 psi	-0.08	0.000	-1.66	0.000	0	0.000		0.000
153°F	838 psi	-0.08	0.000	-1.67	0.000	0	0.000		0.000
166°F	976 psi	-0.07	0.000	-1.67	0.000	0	0.000		0.000
178°F	1113 psi	-0.06	0.000	-1.67	0.000	0	0.000		0.000

Pennsylvanian (Cisco) water analysis.

ROSWELL GEOLOGICAL SOCIETY SYMPOSIUM

Author: Tom L. Ingram
Affiliation: Independent Geologist
Date: August 1976

Field Name: Southwest Gladiola Pennsylvanian
Location: T-12-S, R-37-E
County & State: Lea County, New Mexico

Discovery Well: Nearburg & Ingram #1 Midhurst, NW/4 NW/4 Section 35, T-12-S, R-37-E, IPF 456 BOPD, completed 1-25-61.

Exploration Method Leading to Discovery:
Subsurface geology and drilling to deeper horizon.

Pay Zone:
Formation Name: Pennsylvanian Depth & Datum Discovery Well: 11,119
Lithology Description:
Conglomeratic quartzitic sand

Approximate average pay: 10 gross 5 net Productive Area 400 acres

Type Trap: Faulted anticline

Reservoir Data:
20 % Porosity, _____ Md Permeability, _____ % Sw, _____ % So
Oil: 52° API intermediate crude
Gas:
Water: 30,000 Na+K, 2,440 Ca, 218 Mg, 50,400 Cl, Light SO_4, 512 CO_2, or HCO_3, trace
Specific Gravity 1.045 Resistivity 0.1065 ohms @ 78 °F
Initial Field Pressure: 3565 psi @ -7211 datum Reservoir Temp. 163 °F
Type of Drive:
Solution gas

Normal Completion Practices:
Set casing through pay, perforate, acidize with 500 gallons.

Type completion:
Flowing
Normal Well Spacing 80 Acres

Deepest Horizon Penetrated & Depth:
Devonian 12,350'

Other Producing Formations in Field:
Wolfcamp and Devonian

Production Data:

YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF		YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF	
		Prod.	S.I.or Abd.	ANNUAL	CUMULATIVE			Prod.	S.I.or Abd.	ANNUAL	CUMULATIVE
68	OIL	1	4	17,797	170,563	72	OIL		5		190,380
	GAS			49	781		GAS				890
69	OIL	1	4	15,306	185,869	73	OIL		5		190,380
	GAS			74	855		GAS				890
70	OIL	1	4	4,106	189,975	74	OIL	1	4	2,886	193,266
	GAS			33	888		GAS				890
71	OIL	1	4	405	190,380	75	OIL		5		193,266
	GAS			2	890		GAS				890

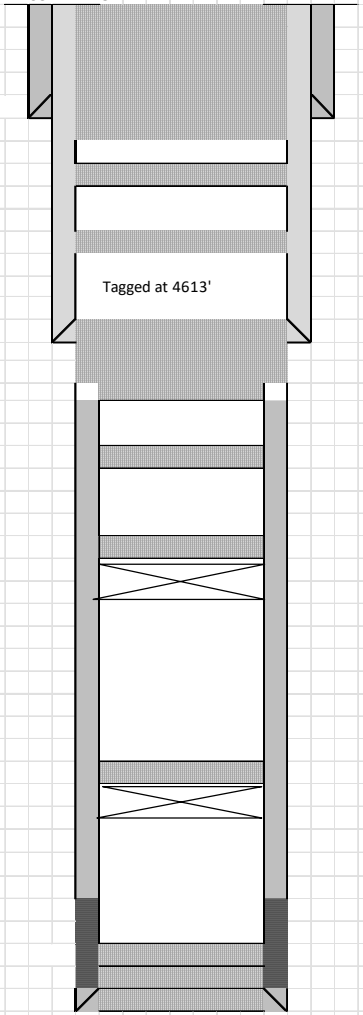
101

Plugged wells in the area.

Operator:	**Scorpion Oil & Gas LLC**	**LAST UPDATED**	3/20/2024
LEASE & WELL NO.	Dento N WFMP TR 4 1	**COUNTY & STATE**	Lea - NM
FIELD NAME	Denton Wolfcamp	**API NO.**	30-025-05202
FORMER OPERATOR	Mobile	**Location:**	NW/4 or NW/4 660' FNL & 660' FEL Sec 35, T14S, R37E
			The well is located in Lea County No. Denton Wolfcamp pool.

SPUD DATE	3/10/1952
COMPLETION DATE	7/17/1952
K.B. ELEV.	
D.F. ELEV.	
GROUND LEVEL	3824'

CURRENT COMPLETION



SURFACE CASING

SIZE	13-3/8''	WEIGHT	26,27& 48#	DEPTH	360'
GRADE	H 40	SX. CMT.	350 sx	TOC @	Surface
Hole	17-1/4''				

INTERMEDIATE CASING

SIZE	8-5/8''	WEIGHT	24 & 26#	DEPTH	4778'
GRADE	J 55	SX. CMT.	3175 sx	TOC @	Surface
Hole	11''	SX. CMT.		1"	

PRODUCTION CASING

SIZE	5-1/2''	WEIGHT	15.5, 17, &20	DEPTH	12732'
GRADE	K-55	SX. CMT.	500 sx	TOC @	5100 TS
Hole	7-7/8''	SX. CMT.	750 sx	DV TOOL	8944

PRODUCTION LINER

SIZE		WEIGHT		Top Liner	
GRADE		SX. CMT.		DEPTH	
Hole				TOC @	

PBTD@	12732'
TD@	12740'

Set DH marker

Spot 125 sx from 412' to surface

13.375" @ 360'

35 sx @ 2200'

35 sx @ 3150'

8-5/8" @ 4778'

Cut 5- 1/2" @ 4696'
50 sx @ 4832'
TOC 5100' by TS

25sx @6300'

CIBP @ 9225' with 25 sx

Wolfcamp
Perforations 9304' - 9316'
Perforations 9328' - 9338' **1 spf**
Perforations 9424' - 9434'
Perforations 9438' - 9448

Baker CIBP 9562' W/2 sx

Devonian
Perforations 12315' - 12426'
Perforations 12456' - 12550'
Perforations 12580' - 12680'
Perforations 12705' - 12730'

5-1/2" @ 12732'

Hydromite Bridge from 12499' - 12565'

Formation Tops MD	Top P	Bottom P	Plugs
Rustler	2195'		
Yates	3492'		
Grayburg			
San Andres	4670'		
Holt			
Glorieta			
Drinkard			
Tubbs	7333'		
Abo	7992'		
Penn			
Wolfcamp	9298'		
Miss	11450'		
Woodford			
Devonian	12315'		

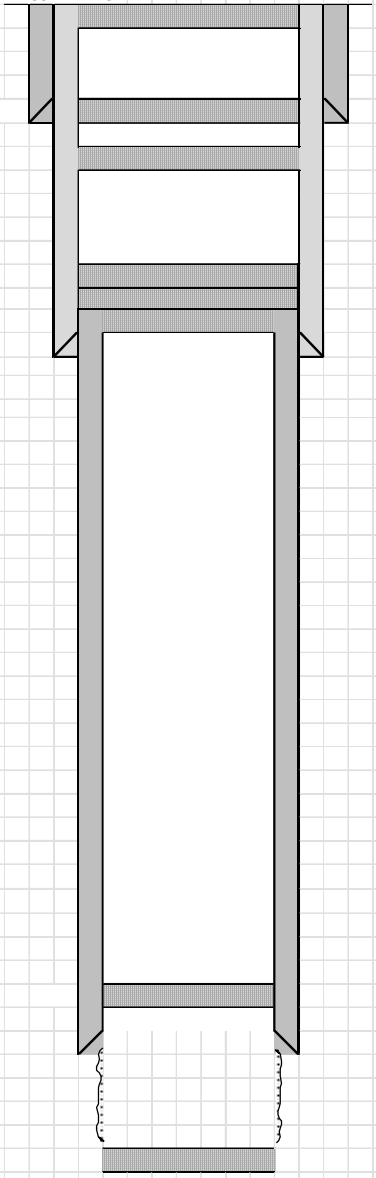
DV Tool	8944'
TOC @	5100'
MRK	

WELL HISTORY

Operator:	**Scorpion Oil & Gas LLC**	**LAST UPDATED**	3/20/2024
LEASE & WELL NO.	Dento N WFMP TR 5 11	**COUNTY & STATE**	Lea - NM
FIELD NAME	Denton Wolfcamp	**API NO.**	30-025-05185
FORMER OPERATOR	Mobile	**Location:**	F unit 1980' FNL & 2310' FWL Sec 35, T14S, R37E
			The well is located in Lea County No. Denton Wolfcamp pool.

SPUD DATE	7/27/1953
COMPLETION DATE	10/19/1953
K.B. ELEV.	
D.F. ELEV.	
GROUND LEVEL	3813'

CURRENT COMPLETION



SURFACE CASING

SIZE	13-3/8''	WEIGHT	48.0#	DEPTH	321'
GRADE		SX. CMT.	400 sx	TOC @	Surface
Hole	17''				

INTERMEDIATE CASING

SIZE	8-5/8''	WEIGHT	32.0#	DEPTH	4760'
GRADE		SX. CMT.	2100 sx	TOC @	surface
Hole	11''	SX. CMT.		1"	

PRODUCTION LINER

SIZE	5-1/2''	WEIGHT	20.0#	Top Liner	4477'
GRADE		SX. CMT.	800 sx	DEPTH	9200'
Hole	7-7/8''			TOC @	4477' ts
				PBTD@	9288'
				TD@	9300'

Surface - 28' spot 10 sx, Set DH marker

242' - 378' 40sx plug

13-3/8" @ 321'

2114'-2250' 40 sx plug

4588' to 4812' 25sx plug

8-5/8" @ 4760'

8980' - 9070 10 sx plug

5-1/2" @ 9200'

Open Hole 9200' to 9288'

Formation Tops MD	Top P	Bottom P	Plugs
Rustler	2120'		
Yates	3134'		
Grayburg			
San Andres	4660'		
Holt			
Glorieta	6140'		
Drinkard			
Tubbs	7305'		
Abo	7992'		
Penn			
Wolfcamp	9200'		
Miss			
Woodford			
Devonian			

WELL HISTORY

DV Tool

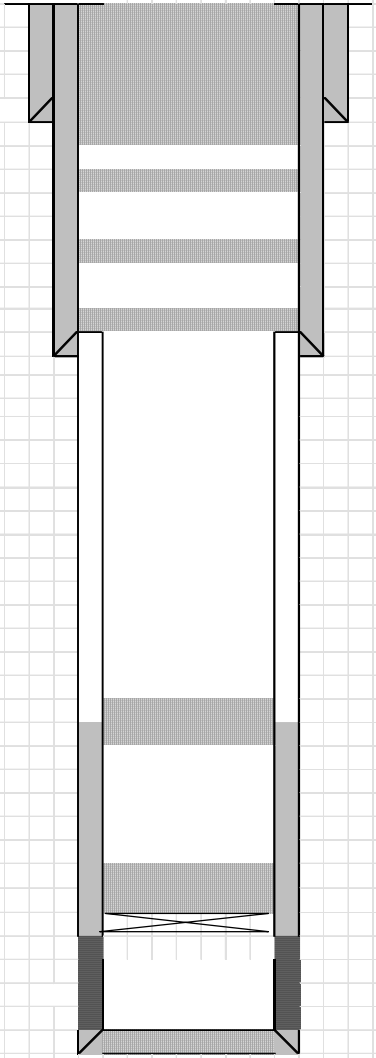
TOC @

MRK

Operator:	**Scorpion Oil & Gas LLC**	**LAST UPDATED**	3/20/2024
LEASE & WELL NO.	Denton N WFMP TR6 8	**COUNTY & STATE**	Lea - NM
FIELD NAME	Denton Wolfcamp	**API NO.**	30-025-05143
FORMER OPERATOR	Mobile	**Location:**	M Unit 660' FSL & 760' FWL Sec 26, T14S, R37E
			The well is located in Lea County No. Denton Wolfcamp pool.

SPUD DATE	3/21/1953
COMPLETION DATE	5/6/1953
K.B. ELEV.	3821'
D.F. ELEV.	
GROUND LEVEL	3810'

CURRENT COMPLETION



SURFACE CASING

SIZE	10-3/4''	WEIGHT	35.75#	DEPTH	475'
GRADE	H-40	SX. CMT.	450 sx	TOC @	Surface
Hole	15''				

INTERMEDIATE CASING

SIZE	7-5/8''	WEIGHT	26.4#	DEPTH	4405'
GRADE	J 55	SX. CMT.	2070 sx	TOC @	Surface
Hole	9-7/8''	SX. CMT.		1"	

PRODUCTION CASING

SIZE		WEIGHT		DEPTH	
GRADE		SX. CMT.		TOC @	
Hole		SX. CMT.		DV TOOL	

PRODUCTION LINER

SIZE	5-1/2''	WEIGHT	16.85#	Top Liner	4176'
GRADE	J55 & N80	SX. CMT.	550 sx	DEPTH	9355'
Hole	6 3/4''			TOC @	7265' ts
				PBTD@	9352'
				TD@	9355'

Set DH marker

Surface - 525' cirulated 135sx

10 3/4" @ 475'

2080' - 2200' spot 25 sx tagged @ 2080'

3048 - 3150 spot 25 sx tagged top @ 3048'

4074' - 4226' spot 30 sx tagged @ 4048'

7-5/8" @ 4805'

6300' spot 25 sx
TOC 7265' ts

9210' set CIBP with 35' cement on top tag plug at 9175'

9210' Spotted 30 Sx tagged at 8889'

Wolfcamp

Perforations 9262' - 9304'

5-1/2" @ 9370'

Formation Tops MD	Top P	Bottom P	Plugs
Rustler			
Yates			
Grayburg			
San Andres			
Holt			
Glorieta			
Drinkard			
Tubbs			
Abo			
Penn			
Wolfcamp			
Miss			
Woodford			
Devonian			

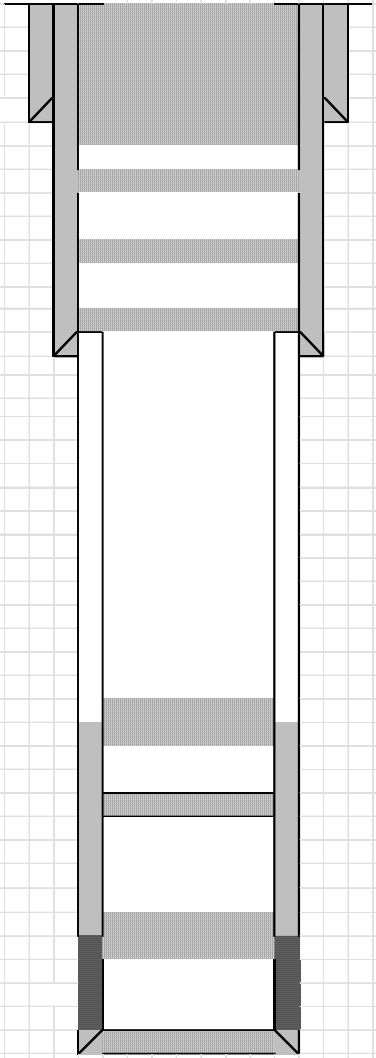
DV Tool	
TOC @	
MRK	

WELL HISTORY

Operator:	**Scorpion Oil & Gas LLC**	**LAST UPDATED**	3/20/2024
LEASE & WELL NO.		**COUNTY & STATE**	Lea - NM
FIELD NAME	Denton Wolfcamp	**API NO.**	30-025-05154
FORMER OPERATOR	Mobile	**Location:**	SW/4 of SE/4. 550' FSL & 1980' FEL Sec 26, T14S, R37E
			The well is located in Lea County No. Denton Wolfcamp pool.

SPUD DATE	8/18/1953
COMPLETION DATE	10/19/1953
K.B. ELEV.	
D.F. ELEV.	3824'
GROUND LEVEL	3806'

CURRENT COMPLETION



SURFACE CASING

SIZE	10-3/4''	WEIGHT	32.7#	DEPTH	434'
GRADE		SX. CMT.	500 sx	TOC @	Surface
Hole	15''				

INTERMEDIATE CASING

SIZE	7-5/8''	WEIGHT	24 & 26#	DEPTH	4805'
GRADE	H 40	SX. CMT.	1950 sx	TOC @	Surface
Hole	9-7/8''	SX. CMT.		1"	

PRODUCTION CASING

SIZE		WEIGHT		DEPTH	
GRADE		SX. CMT.		TOC @	
Hole		SX. CMT.		DV TOOL	

PRODUCTION LINER

SIZE	5-1/2''	WEIGHT	17# & 20#	Top Liner	4634'
GRADE	N80	SX. CMT.	600 sx	DEPTH	9370'
Hole	6 3/4''			TOC @	7265 ts
				PBTD@	9368'
				TD@	9370'

Set DH marker	Surface - 490' cir 125sx
	10 3/4" @ 434'
	2075' - 2200' spotted 25 sx
	3025' - 3150 Spotted 25 sx
	4510' - 4685' Spotted 30 sx tagged at 4499'
	7-5/8" @ 4805'
	6048' - 6300' Spotted 25 sx
	TOC 7265' ts
	9210' Spotted 30 Sx tagged at 8889'
	Wolfcamp
	Perforations 9187' - 9344'
	5-1/2" @ 9370'

Formation Tops MD	Top P	Bottom P	Plugs
Rustler	2147'		
Yates	3126'		
Grayburg			
San Andres	4650'		
Holt			
Glorieta	6136'		
Drinkard			
Tubbs			
Abo	7956'		
Penn	9215'		
Wolfcamp	9153'		
Miss			
Woodford			
Devonian			

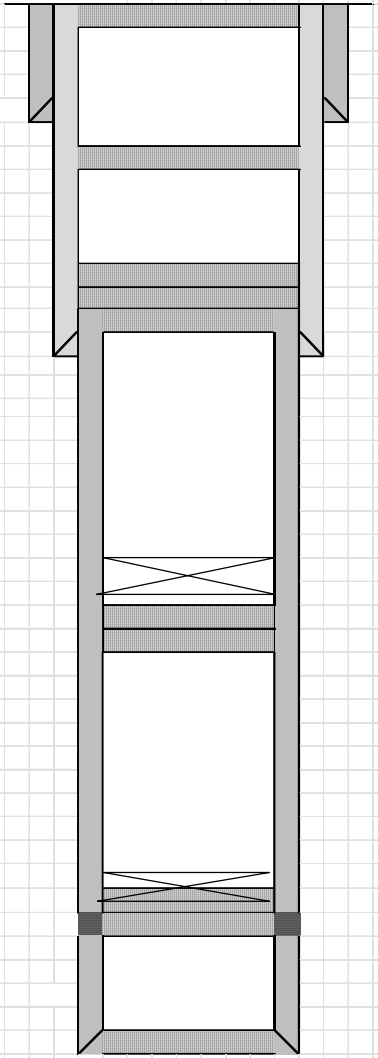
DV Tool	
TOC @	
MRK	

WELL HISTORY

Operator:	**Scorpion Oil & Gas LLC**	**LAST UPDATED**	3/20/2024
LEASE & WELL NO.	Dento N WFMP TR 6 27	**COUNTY & STATE**	Lea - NM
FIELD NAME	Denton Wolfcamp	**API NO.**	30-025-05199
FORMER OPERATOR	Mobile	**Location:**	G unit 1980' FNL & 2180' FEL Sec 35, T14S, R37E
			The well is located in Lea County No. Denton Wolfcamp pool.

SPUD DATE	9/29/1953
COMPLETION DATE	11/20/1953
K.B. ELEV.	
D.F. ELEV.	
GROUND LEVEL	3805'

CURRENT COMPLETION



SURFACE CASING

SIZE	10-3/4''	WEIGHT	32.75#	DEPTH	448'
GRADE		SX. CMT.	450 sx	TOC @	Surface
Hole	15				

INTERMEDIATE CASING

SIZE	7-5/8''	WEIGHT	24 & 26#	DEPTH	4800'
GRADE		SX. CMT.	1535 sx	TOC @	surface
Hole	9-7/8''	SX. CMT.		1"	

PRODUCTION LINER

SIZE	51/2"	WEIGHT	17.0#	Top Liner	4623'
GRADE		SX. CMT.	715 sx	DEPTH	9355'
Hole	6-3/4''			TOC @	4623'
				PBTD@	9353'
				TD@	9355'

Surface spot 10 sx, Set DH marker

10-3/4" @ 448'

2150'-2250' 25 sx plug

4700'-4900' 25 sx plug

7-5/8" @ 4800'

EZ Drill Cement retainer set @ 5321'

Squeeze with 250 SX

EZ Drill Cement retainer set @ 8987'

Squeeze off perforations with 150 SX

Perforations 9181'-9206'

5-1/2" @ 9355

Formation Tops MD	Top P	Bottom P	Plugs
Rustler	2132'		
Yates	3130'		
Grayburg			
San Andres	4634'		
Holt			
Glorieta	6160'		
Drinkard			
Tubbs	7267'		
Abo	7998'		
Penn			
Wolfcamp	9149'		
Miss			
Woodford			
Devonian			

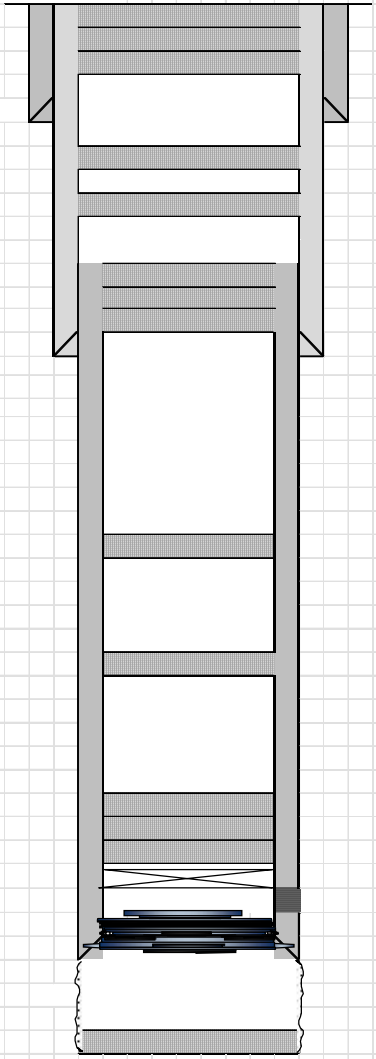
DV Tool	
TOC @	
MRK	

WELL HISTORY

Operator:	**Scorpion Oil and Gas**	**LAST UPDATED**	3/20/2024
LEASE & WELL NO.	BC Dickenson D 3	**COUNTY & STATE**	Lea - NM
FIELD NAME	Denton	**API NO.**	30-025-05177
FORMER OPERATOR	Ring Energy	**Location:**	E unit 1980' FNL & 660' FWL Sec 35, T14S, R37E
			The well is located in Lea County No. Denton pool.

SPUD DATE	3/4/1952
COMPLETION DATE	7/1/1952
K.B. ELEV.	
D.F. ELEV.	
GROUND LEVEL	3822'

CURRENT COMPLETION



SURFACE CASING

SIZE	13-3/8"	WEIGHT	50.0#	DEPTH	337'
GRADE		SX. CMT.	400 sx	TOC @	Surface
Hole	17				

INTERMEDIATE CASING

SIZE	8-5/8"	WEIGHT	36.0#	DEPTH	4760'
GRADE		SX. CMT.	2000 sx	TOC @	760' TS
Hole	11	SX. CMT.		1"	

PRODUCTION CASING

SIZE	5-1/2''	WEIGHT	15.5, 17, &20	DEPTH	12508'
GRADE	K-55	SX. CMT.	75 sx	TOC @	3432' TS
Hole	7-7/8''	SX. CMT.	800 sx	DV TOOL	11900.00

PRODUCTION LINER

SIZE		WEIGHT		Top Liner	
GRADE		SX. CMT.		DEPTH	
Hole				TOC @	

PBTD@	12500'
TD@	12670'

Set DH marker

Perf @ 387' sqz 100 sx to surface

13-3/8" @ 430'

Perf @ 2200' sqs 35 sx tag @ 2023'

Perf @ 3000' sqz 35 sx tag @ 2835'

Cut and Pull 5 1/2" casing from 3432'

4502'-4810' 35 sx plug Covered

8-5/8" @ 4820'

5751' - 5998' W/ 65 sx

8268' - 8515' W/ 25 sx

11500' - 1207' W/ 800 sx perfs & Plug

12027' - 12287' W/ 55 sx

Bridge Plug set @ 12285'

Perforations. Devonian 12400' - 12487' 4 SPF

12500' BP BAKER MOD D

12500' to 12670' OHC

Formation Tops MD	Top P	Bottom P	Plugs
Rustler			
Yates	3146'		
Grayburg			
San Andres	4657'		
Holt			
Glorieta	6195'		
Drinkard			
Tubbs			
Abo			
Penn	10895'		
Wolfcamp	9225'		
Miss	11510'		
Woodford	12269'		
Devonian	12395'		

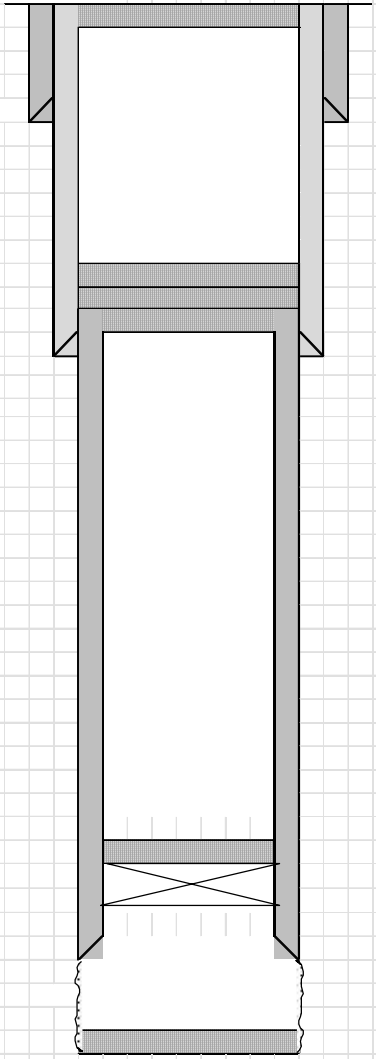
WELL HISTORY

DV Tool	
TOC @	
MRK	

Operator:	**Scorpion Oil and Gas**	**LAST UPDATED**	3/20/2024
LEASE & WELL NO.	BC Dickenson D 6	**COUNTY & STATE**	Lea - NM
FIELD NAME	Denton	**API NO.**	30-025-05180
FORMER OPERATOR	Ring Energy	**Location:**	K unit 1980' FSL & 1980' FWL Sec 35, T14S, R37E
			The well is located in Lea County No. Denton pool.

SPUD DATE	3/3/1953
COMPLETION DATE	6/17/1953
K.B. ELEV.	
D.F. ELEV.	
GROUND LEVEL	3806'

CURRENT COMPLETION



Surface spot 10 sx, Set DH marker

13-3/8" @ 430'

4355'-4495' 30 sx plug Covered

8-5/8" @ 4820'

12008' CIBP W/5 SX 44' Cement on top

12359' to 12560' OHC

SURFACE CASING

SIZE	13-3/8"	WEIGHT	48.0#	DEPTH	350'
GRADE		SX. CMT.	400 sx	TOC @	Surface
Hole	17				

INTERMEDIATE CASING

SIZE	8-5/8"	WEIGHT	32#	DEPTH	4744'
GRADE		SX. CMT.	2000 sx	TOC @	surface
Hole	11	SX. CMT.		1"	

PRODUCTION LINER

SIZE	51/2"	WEIGHT	17# & 20#	Top Liner	4415'
GRADE		SX. CMT.	900 sx	DEPTH	12359'
Hole	7 7/8"			TOC @	4415' ts
				PBTD@	12359'
				TD@	12560'

Formation Tops MD	Top P	Bottom P	Plugs
Rustler	2150'		
Yates	3135'		
Grayburg			
San Andres	4665'		
Holt			
Glorieta	6152'		
Drinkard			
Tubbs	7305'		
Abo	7998'		
Penn	10930'		
Wolfcamp			
Miss	11450'		
Woodford			
Devonian	12359'		

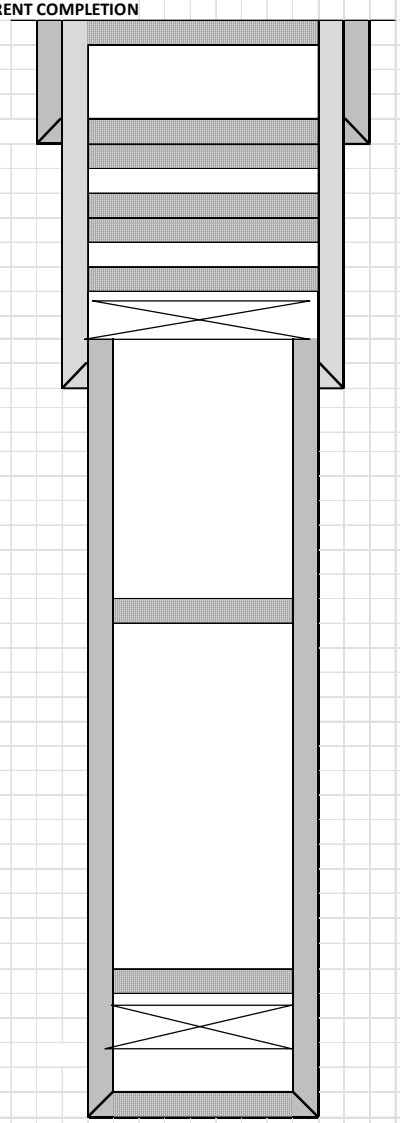
WELL HISTORY

DV Tool	
TOC @	
MRK	

Operator:	**Scorpion Oil and Gas**	**LAST UPDATED**	3/20/2024
LEASE & WELL NO.	TD Pope 5	**COUNTY & STATE**	Lea - NM
FIELD NAME	Denton	**API NO.**	30-025-05190
FORMER OPERATOR	Ring Energy	**Location:**	G unit 1980' FNL & 1980' FEL Sec 35, T14S, R37E
			The well is located in Lea County No. Denton pool.

SPUD DATE	12/11/1953
COMPLETION DATE	11/2/1982
K.B. ELEV.	
D.F. ELEV.	
GROUND LEVEL	2514'

CURRENT COMPLETION



SURFACE CASING

SIZE	13-3/8"	WEIGHT	35.63#	DEPTH	430'
GRADE		SX. CMT.	450 sx	TOC @	Surface
Hole	17-1/2"				

INTERMEDIATE CASING

SIZE	8-5/8"	WEIGHT	32#	DEPTH	4820'
GRADE		SX. CMT.	3700 sx	TOC @	surface
Hole	11	SX. CMT.		1"	

PRODUCTION LINER

SIZE	51/2"	WEIGHT	17# & 20#	Top Liner	4584'
GRADE		SX. CMT.	940 sx	DEPTH	12010'
Hole	6-1/2"			TOC @	6259' cal
				PBTD@	12010'
				TD@	12342'

Surface spot 10SX Set DH marker

13-3/8" @ 430'

530' - 330' Spot 60SX plug

4740'-4270' 200' plug see tagged @4270'

4790' CIBP W/35' Cement on top

8-5/8" @ 4820'

8400' 100' Cement plug spotted

11980' CIBP W/35' Cement on top

Formation Tops MD	Top P	Bottom P	Plugs
Rustler	2125'		
Yates	3130'		
Grayburg			
San Andres	4635'		
Holt			
Glorieta	6262'		
Drinkard			
Tubbs	7270'		
Abo	7970'		
Penn	9164'		
Wolfcamp	9185'		
Miss	11193'		
Woodford	11900'		
Devonian	12001'		

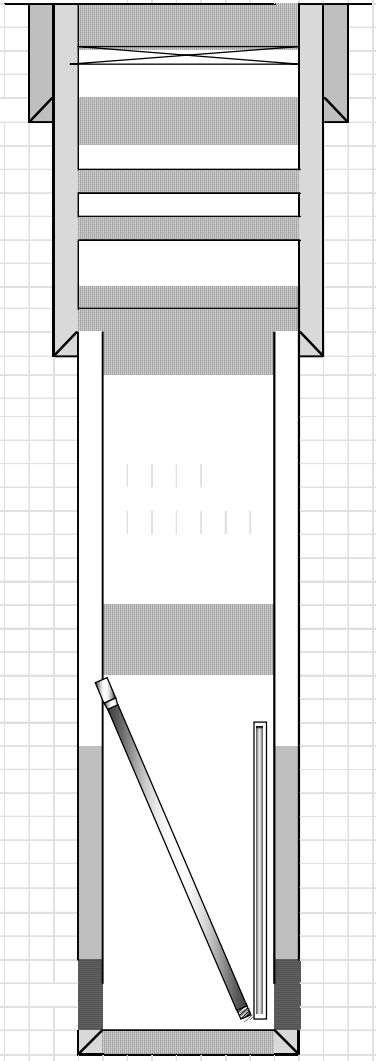
WELL HISTORY

DV Tool	
TOC @	
MRK	

Operator:	**Scorpion Oil and Gas**	**LAST UPDATED**	3/20/2024
LEASE & WELL NO.	TD Pope 9	**COUNTY & STATE**	Lea - NM
FIELD NAME	Denton	**API NO.**	30-025-05144
FORMER OPERATOR	Ring Energy	**Location:**	SE1/4, SW1/4 660' FSL & 1980' FWL Sec 26, T14S, R37E
			The well is located in Lea County Denton Devonian

SPUD DATE	3/23/1953
COMPLETION DATE	7/23/1953
K.B. ELEV.	
D.F. ELEV.	
GROUND LEVEL	3821'

CURRENT COMPLETION



SURFACE CASING

SIZE	13-3/8"	WEIGHT	68.0#	DEPTH	467'
GRADE		SX. CMT.	500 sx	TOC @	Surface
Hole	17-1/2''				

INTERMEDIATE CASING

SIZE	8-5/8"	WEIGHT	32# & 40#	DEPTH	4810'
GRADE	J-55	SX. CMT.	2300 sx	TOC @	Surface
Hole	11''	SX. CMT.		1"	

PRODUCTION LINER

SIZE	5-1/2''	WEIGHT	17# & 20#	Top Liner	4592'
GRADE	N80	SX. CMT.	1240 sx	DEPTH	12936'
Hole	7 7/8"			TOC @	9,300
				PBTD@	12634'
				TD@	12636'

Spot 20 sx @ surface to 60' Set DH marker

Set CIBP @ 250 with 30 sx on top 116' calculated top

Tag top of plug @305'

567' spot 65 sx

13-3/8" @ 492'

Perf @ 517' Would not squeeze

2085' -2200' Spot 30 sx

3035' - 3150' Spot 30 sx

Tag top of plug @ 4450'

4860' spot 75 sx

8-5/8" @ 4635'

Tag top of plug @ 6471'

7242 spot 75 sx

Tag top of plug @7242'

7518' spot 75 sx

TOC 9300' TS

Junk in Hole 2-3/8" and 1" tubing from 7800 toTD

Perforations from 12125' - 12350'

Formation Tops MD	Top P	Bottom P	Plugs
Rustler	2120'		
Yates	3120'		
Grayburg			
San Andres	4640'		
Holt			
Glorieta	6140'		
Drinkard			
Tubbs			
Abo	7970'		
Penn	9234'		
Wolfcamp	9185'		
Miss	11220'		
Woodford	11960'		
Devonian	12100'		

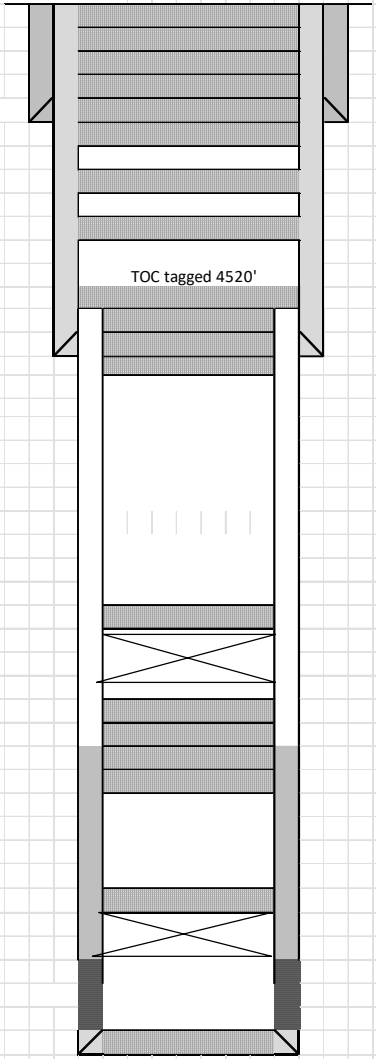
DV Tool	
TOC @	
MRK	

WELL HISTORY

Operator:	**Scorpion Oil and Gas**	**LAST UPDATED**	3/20/2024
LEASE & WELL NO.	TD Pope 13	**COUNTY & STATE**	Lea - NM
FIELD NAME	Denton	**API NO.**	30-025-05193
FORMER OPERATOR	Ring Energy	**Location:**	660' FNL & 1980' FWL Sec 35, T14S, R37E
			The well is located in Lea County Denton Devonian

SPUD DATE	4/19/1953
COMPLETION DATE	8/4/1953
K.B. ELEV.	
D.F. ELEV.	
GROUND LEVEL	3820'

CURRENT COMPLETION



SURFACE CASING

SIZE	13-3/8"	WEIGHT	35 & 48#	DEPTH	492'
GRADE		SX. CMT.	525 sx	TOC @	Surface
Hole	17-1/4''				

INTERMEDIATE CASING

SIZE	8-5/8"	WEIGHT	32#	DEPTH	4635'
GRADE	J-55	SX. CMT.	2450 sx	TOC @	Surface
Hole	12-1/4''	SX. CMT.		1"	

PRODUCTION LINER

SIZE	5-1/2''	WEIGHT	17# & 20#	Top Liner	4635'
GRADE	N80	SX. CMT.	800 sx	DEPTH	12359'
Hole	7 7/8"			TOC @	7,740
				PBTD@	12633'
				TD@	12635'

Set DH marker	
Surface to 600' Spot 160 sx	
13-3/8" @ 492'	
1169' - 1400' Spot 60 sx	
2115' -2250' Spot 35 sx	
2915' - 3050' Spot 35 sx	
4355'-4495' 30 sx plug Covered	
8-5/8" @ 4635'	
4703' Spot 40 Sx	
Cement Retainer set @ 6800' 10 sx on top	
TOC 7740' Calculated	
11827' CIBP W/5 SX 35' Cement on top	
Perforations from 11970' - 12539'	

Formation Tops MD	Top P	Bottom P	Plugs
Rustler	2130'		
Yates	3126'		
Grayburg			
San Andres	4628'		
Holt			
Glorieta	6155'		
Drinkard			
Tubbs	7263'		
Abo	7954'		
Penn	9143'		
Wolfcamp			
Miss	11152'		
Woodford	11844'		
Devonian	11962'		

WELL HISTORY

DV Tool	
TOC @	
MRK	

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Legal notice printed in local paper Hobbs News Sun

Legal Notice

To whom it may concern, this well be converted to inject water into the Penn at a depth of approximately 9955’ in the Denton North field of Lea County as a disposal well. The expected maximum injection rate is 10000 barrels per day at a maximum injection rate of 2000 psig. Well information is as follows:

Well name and Number	Dickinson D 5
Location:	Unit C Sec 35, T14S, R37E. 660’ FNL & 1980’ FWL
Injection level	9955’ to 10284’

Any interested party who wishes to file an objection or wishes to request a hearing, must request to do so within 15 days to the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505.

Mike Loudermilk
Scorpion Oil & Gas LLC
4779 S Main Street
Stafford Texas, 77477
(281) 694-4571

XII. Affirmative Statement

Re: BC Dickenson #5 SWD Permit Application

We have examined the available geologic and engineering data and find no evidence of open faults or any other hydraulic connection between the disposal zone and any underground source of drinking water.

Scorpion Oil & Gas, LLC

Date: 5/7/2024

Steven Cole Reynolds, *Senior Geologist*

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) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 355613

CONDITIONS

Operator: Scorpion Oil & Gas, LLC 4779 South Main Street Stafford, TX 77477	OGRID: 332127
	Action Number: 355613
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
anthony.harris	None	6/18/2024