

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL
RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF NGL WATER
SOLUTIONS PERMIAN, LLC
FOR APPROVAL OF SALT WATER
DISPOSAL WELL IN LEA COUNTY,
NEW MEXICO**

CASE NO. 16443

Table of Contents

Tab A: Neel Durcan Exhibits

Tab B: Dr. Kate Zeigler Exhibits

Tab C: Dr. Steven Taylor Exhibits

Tab D: Todd Reynolds Exhibits

Tab E: Scott J. Wilson Exhibits

**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
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**APPLICATION OF NGL WATER
SOLUTIONS PERMIAN, LLC
TO APPROVE SALT WATER
DISPOSAL WELL IN LEA
COUNTY, NEW MEXICO.**

CASE NO. 16443

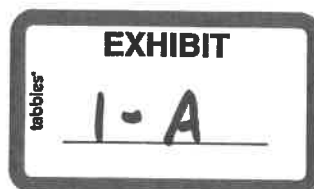
AMENDED APPLICATION

NGL Water Solutions Permian, LLC ("NGL"), OGRID No. 372338, through its undersigned attorneys, hereby submits this Amended Application to the Oil Conservation Division pursuant to the provisions of N.M. Stat. Ann. § 70-2-12, for an order approving drilling of a salt water disposal well in Lea County, New Mexico. In support of this application, NGL states as follows:

(1) NGL originally submitted an application to drill the Sidewinder SWD #1 well on August 24, 2018. NGL submitted an amended application on September 21, 2018. NGL is providing this amended application to update the proposed location for drilling the well. NGL proposes to drill the Sidewinder SWD #1 well at a surface location 1755 feet from the North line and 18 feet from the East line of Section 15, Township 25 South, Range 34 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well.

(2) Apart from the change in location, NGL makes no further changes to the NGL applications currently filed with the Division.

(3) A revised plat, revised maps of the area of review, and a revised lists of wells and operators within the one-mile area of review are attached hereto in Attachment A.



(4) The granting of this application will avoid the drilling of unnecessary wells, will prevent waste, and will protect correlative rights.

(5) This case has been continued to the January 10, 2018 docket or will be set for a special docket date.

WHEREFORE, NGL requests that, after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

MODRALL, SPERLING, ROEHL, HARRIS
& SISK, P.A.

By: Deana M. Bennett
Deana M. Bennett
Zoe E. Lees
Post Office Box 2168
Bank of America Centre
500 Fourth Street NW, Suite 1000
Albuquerque, New Mexico 87103-2168
Telephone: 505.848.1800
Attorneys for Applicant

CASE NO. 16443: Amended Application of NGL Water Solutions Permian, LLC for approval of salt water disposal well in Lea County, New Mexico. Applicant seeks an order approving disposal into the Silurian-Devonian formation through Sidewinder SWD #1 well at a surface location 1755 feet from the North line and 18 feet from the East line of Section 15, Township 25 South, Range 34 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. The target injection interval is the Devonian and Silurian formations at a depth of 17,157' - 19,067'. NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 1/2 inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day. Said area is located approximately 22 miles west of Jal, New Mexico.

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 Road, 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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1,
2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 96101		³ Pool Name SWD; Silurian-Devonian	
⁴ Property Code		⁵ Property Name SIDEWINDER SWD			⁶ Well Number 1
⁷ OGRID No. 372338		⁸ Operator Name NGL WATER SOLUTIONS PERMIAN, LLC			⁹ Elevation 3330.00'±

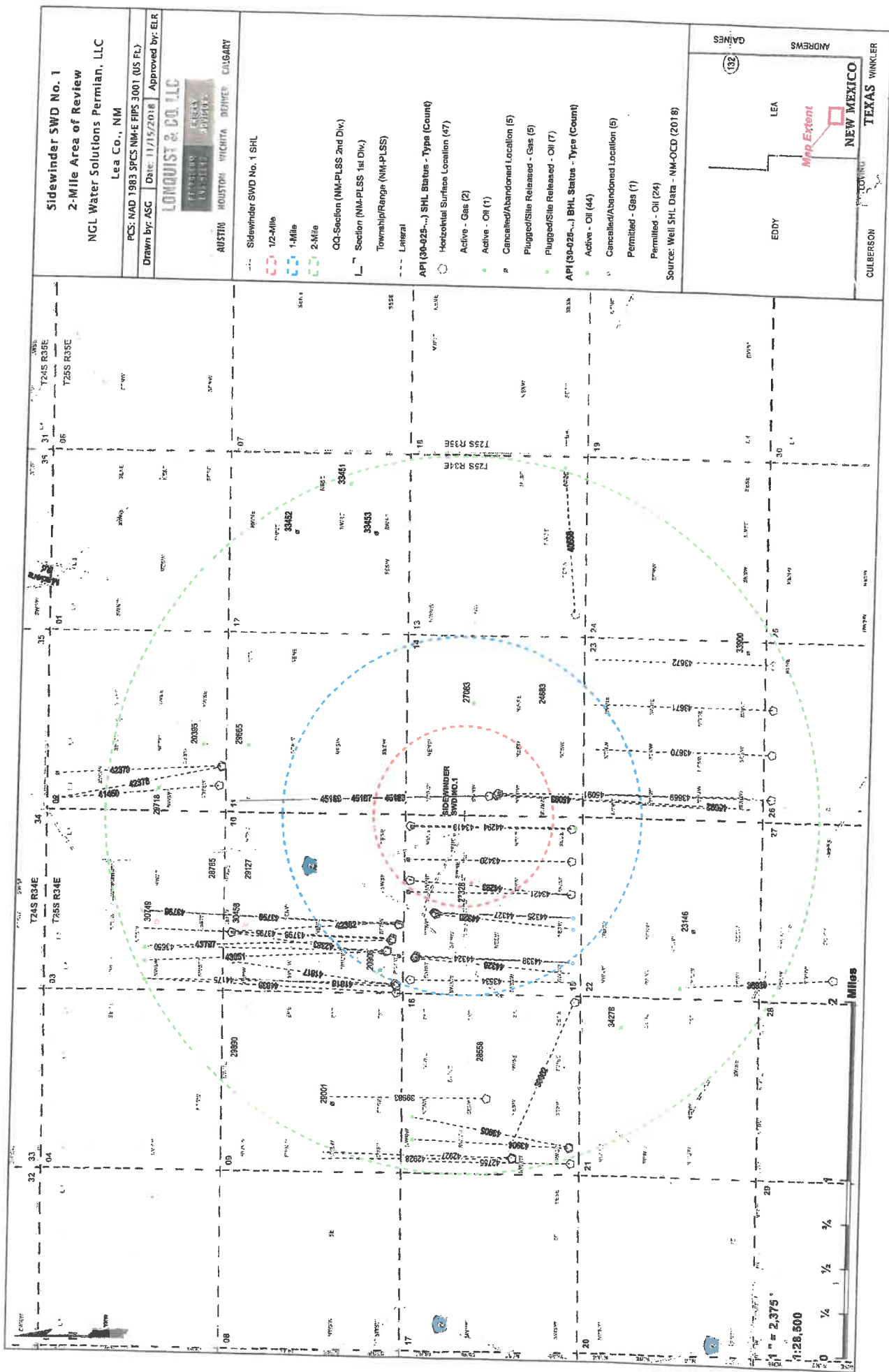
¹⁰ Surface Location									
UL or lot no. H	Section 15	Township 25 S	Range 34 E	Lot Idn N/A	Feet from the 1755'	North/South line NORTH	Feet from the 18'	East/West line EAST	County LEA

¹¹ 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
¹² Dedicated Acres		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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.

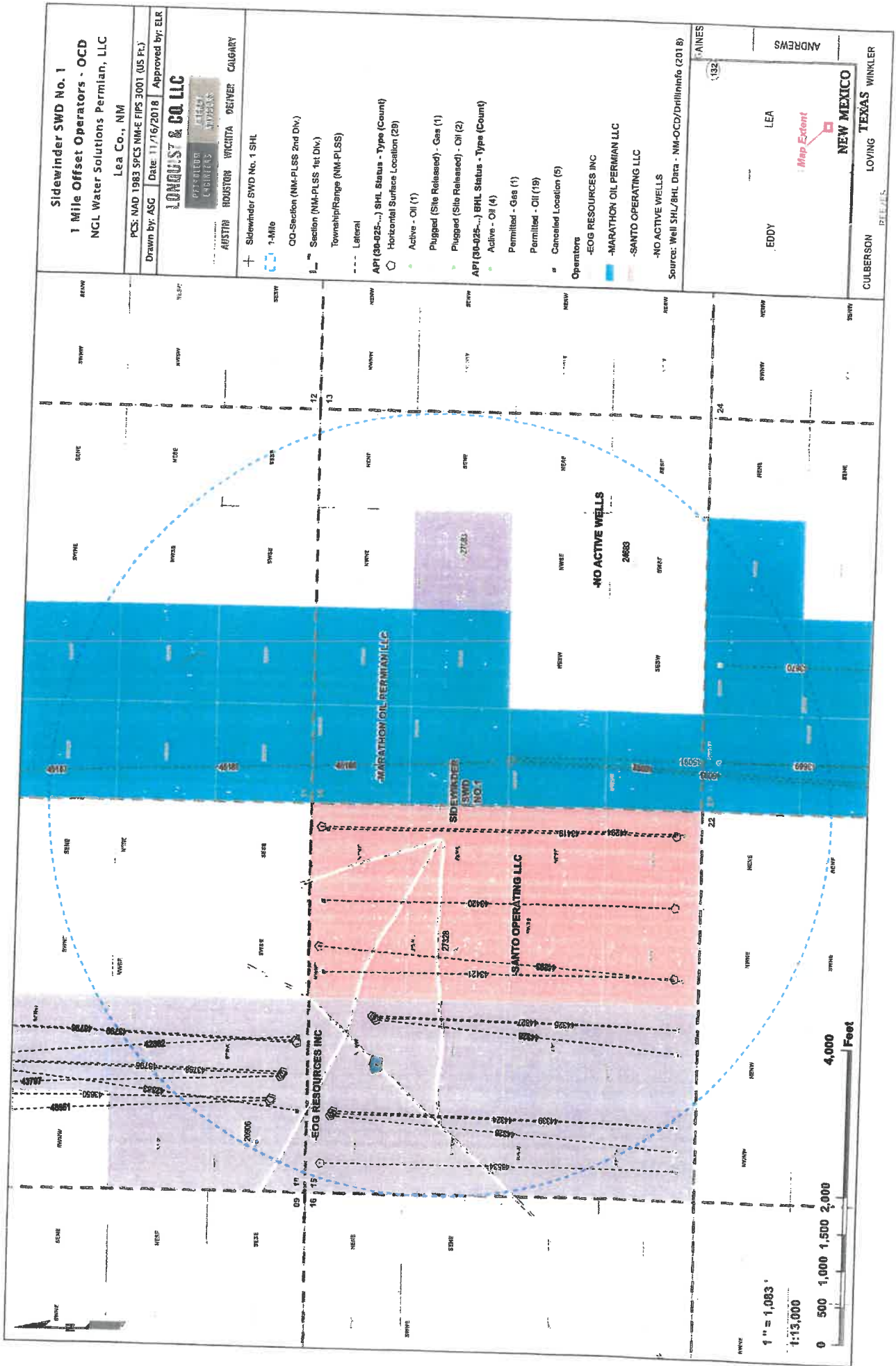
SECTION 15 2622' 1755' 18' PROPOSED SIDEWINDER SWD 1 NMSP-E (NAD27) N: 413,183.95' E: 773,763.20' NMSP-E (NAD83) N: 413,222.00' E: 814,969.48' Lat: N32°07'58.58" Long: W103°26'57.67"	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or sustained 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 hereinafter entered by the division. Signature: <i>Chris Weyand</i> Date: 11/16/2018 Chris Weyand Printed Name chris@lonquist.com E-mail Address
	¹⁸ 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. 11/08/2018 Date of Survey Signature: <i>Cody A. Clark</i> CODY A. CLARK NEW MEXICO 23001 PROFESSIONAL SURVEYOR 23001

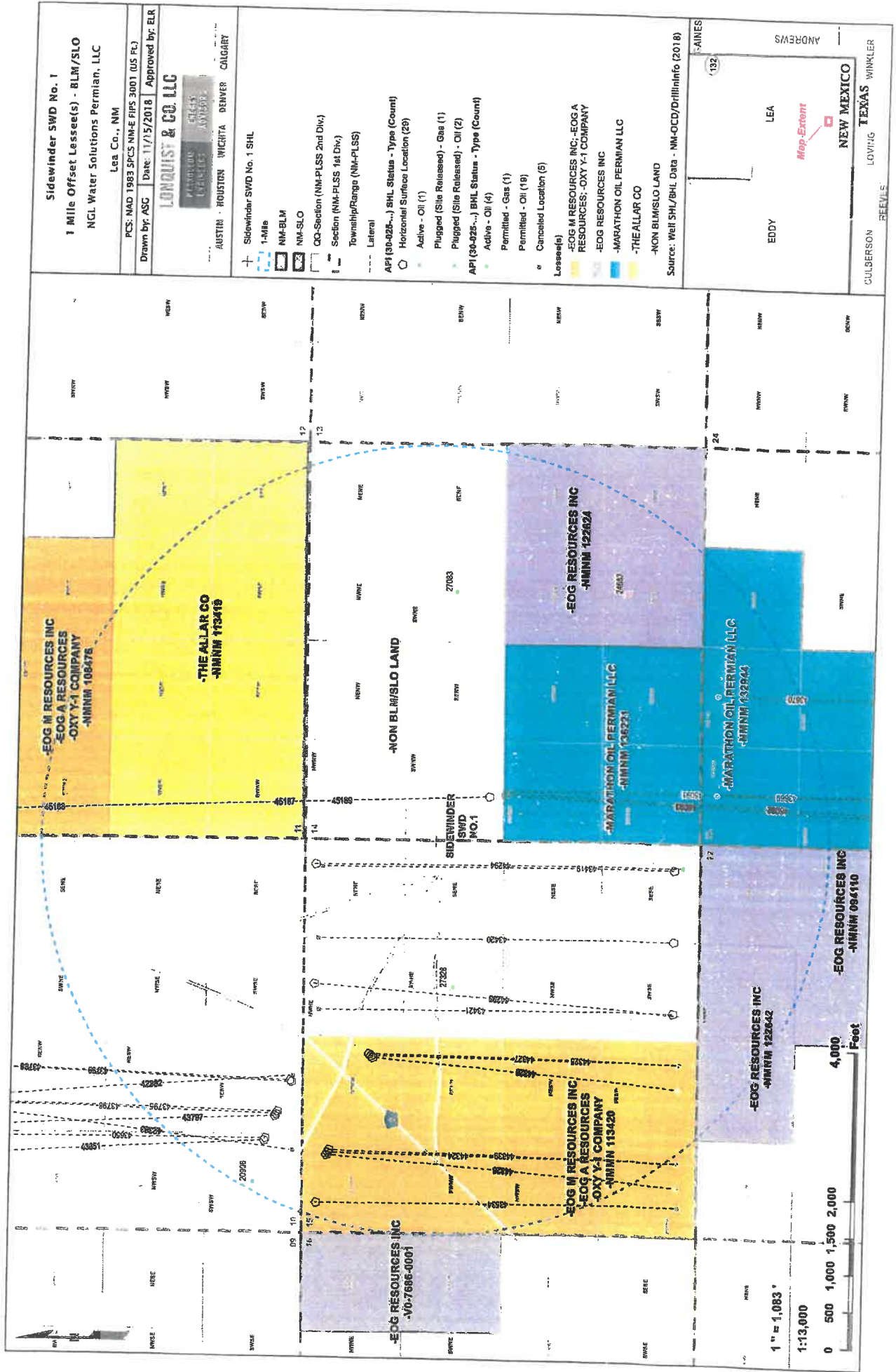




Sidewinder SWD No. 1
1 Mile Area of Review List

API (30-025-...)	WELL NAME	WELL TYPE	STATUS	OPERATOR	TVD (FT.)	LATITUDE (NAD83 DD)	LONGITUDE (NAD83 DD)	DATE DRILLED
20906	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	5481	32.13954160000	-103.46416470000	1/1/1900
24683	PRE-ONGARD WELL #001	G	P	PRE-ONGARD WELL OPERATOR	20915	32.12588880000	-103.43856050000	3/16/1974
27083	FAIRVIEW 14 FEE #001	O	A	EOG RESOURCES INC	17500	32.13224410000	-103.43856810000	12/25/1980
27328	PRE-ONGARD WELL #001	O	P	PRE-ONGARD WELL OPERATOR	400	32.13226700000	-103.45565800000	1/1/1900
42382	OSPNEY 10 #702C	O	C	EOG RESOURCES INC	0	32.15163105000	-103.46071659000	12/31/9999
42383	OSPNEY 10 #701C	O	C	EOG RESOURCES INC	0	32.15163123700	-103.46081395000	12/31/9999
43419	OCOTILLO SUNRISE 15 #001C	O	C	SANTO OPERATING LLC	0	32.12416280000	-103.45045000000	12/31/9999
43420	OCOTILLO SUNRISE 15 #002C	O	C	SANTO OPERATING LLC	0	32.12416850000	-103.45355640000	12/31/9999
43421	OCOTILLO SUNRISE 15 #003C	O	C	SANTO OPERATING LLC	0	32.12416850000	-103.45665440000	12/31/9999
43534	PISTOLERO 15 FEDERAL #701H	O	A	EOG RESOURCES INC	12612	32.13723070000	-103.46504520000	4/28/2017
43650	OSPNEY 20 #602H	O	A	EOG RESOURCES INC	12027	32.13910780000	-103.46226890000	4/7/2017
43651	OSPNEY 10 #701H	O	A	EOG RESOURCES INC	12405	32.13915390000	-103.46236750000	4/6/2017
43669	DOGIE DRAW 23 FEDERAL #001H	O	N	MARATHON OIL PERMIAN LLC	0	32.10807972000	-103.44715483000	12/31/9999
43670	DOGIE DRAW 23 FEDERAL #002H	O	N	MARATHON OIL PERMIAN LLC	0	32.10806809000	-103.44289196000	12/31/9999
43795	OSPNEY 10 #603H	O	N	EOG RESOURCES INC	0	32.13867580000	-103.46110560000	12/31/9999
43796	OSPNEY 10 #604H	O	N	EOG RESOURCES INC	0	32.13823000000	-103.45974210000	12/31/9999
43797	OSPNEY 10 #702H	O	N	EOG RESOURCES INC	0	32.13876800000	-103.46130410000	12/31/9999
43798	OSPNEY 10 #703H	O	N	EOG RESOURCES INC	0	32.13872190000	-103.46120480000	12/31/9999
43799	OSPNEY 10 #704H	O	N	EOG RESOURCES INC	0	32.13815870000	-103.45981800000	12/31/9999
44293	OCOTILLO SUNRISE 15 WA BO FEE #001H	O	N	SANTO OPERATING LLC	0	32.13735900000	-103.45555400000	12/31/9999
44294	OCOTILLO SUNRISE 15 WA AP FEE #002H	O	A	SANTO OPERATING LLC	12571	32.13735300000	-103.45036900000	3/23/2018
44324	PISTOLERO 15 FEDERAL COM #601H	O	N	EOG RESOURCES INC	0	32.13682170000	-103.46286980000	12/31/9999
44325	PISTOLERO 15 FEDERAL COM #603H	O	N	EOG RESOURCES INC	0	32.13529450000	-103.45866980000	12/31/9999
44326	PISTOLERO 15 FEDERAL COM #702H	O	N	EOG RESOURCES INC	0	32.13686600000	-103.46297010000	12/31/9999
44327	PISTOLERO 15 FEDERAL COM #707H	O	N	EOG RESOURCES INC	0	32.13536410000	-103.45859190000	12/31/9999
44328	PISTOLERO 15 FEDERAL COM #706H	O	N	EOG RESOURCES INC	0	32.13522480000	-103.45874780000	12/31/9999
44339	PISTOLERO 15 FEDERAL COM #703H	O	N	EOG RESOURCES INC	0	32.13677390000	-103.46276940000	12/31/9999
45091	DOGIE DRAW 25 34 14 AV FEDERAL COM #024H	O	N	MARATHON OIL PERMIAN LLC	0	32.13024759000	-103.44717181000	12/31/9999
45092	DOGIE DRAW 25 34 14 TB FEDERAL COM #001H	O	N	MARATHON OIL PERMIAN LLC	0	32.13039356000	-103.44726870000	12/31/9999
45093	DOGIE DRAW 25 34 14 WA FEDERAL COM #002H	O	N	MARATHON OIL PERMIAN LLC	0	32.13039422000	-103.44736562000	12/31/9999
45187	INDER WIGGINS 25 34 14 WA FEDERAL COM #001	O	N	MARATHON OIL PERMIAN LLC	0	32.13102489000	-103.44741084000	12/31/9999
45188	INDER WIGGINS 25 34 14 TB FEDERAL COM #003H	O	N	MARATHON OIL PERMIAN LLC	0	32.13102547000	-103.44741084000	12/31/9999
45189	INDER WIGGINS 25 34 14 WD FEDERAL COM #002	G	N	MARATHON OIL PERMIAN LLC	0	32.13102574000	-103.44741084000	12/31/9999





Deana M. Bennett

From: Karlene S. Schuman
Sent: Friday, December 14, 2018 2:27 PM
To: 'Davidson, Florene, EMNRD'
Cc: 'Jones, William V, EMNRD'; 'Phillip.Goetze@state.nm.us'; Jennifer L. Bradfute; Deana M. Bennett; Zina Crum; 'Murphy, Kathleen A, EMNRD'
Subject: RE: No. 16443 NGL_ Amended Application_Sidewinder SWD #1
Attachments: No. 16443_NGL_Amended Application_Sidewinder SWD#1.pdf; No.16443_NGL_Publication Notice_Sidewinder SWD#1 (W3327825x7A92D).docx

Dear Florene: Please find for filing the attached Amended Application for NGL Water Solutions Permian, LLC. A paper copy will be mailed to you, today.

NGL

Amended Application Sidewinder SWD #1
Case No.:16443

Also attached is the Advertisement in Word.

Thank you,
Karlene



Karlene Schuman
Assistant to Walter Stern, Deana Bennett,
James Houghton, and Robin James
Modrall Sperling | www.modrall.com
P.O. Box 2168 | Albuquerque, NM 87103-2168
500 4th St. NW, Ste. 1000 | Albuquerque, NM 87102
D: 505.848.1800 *1619 | O: 505.848.1800 | F: 505.848.9710



**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION**

**APPLICATION OF NGL WATER
SOLUTIONS PERMIAN, LLC
FOR APPROVAL OF SALT WATER
DISPOSAL WELL IN LEA COUNTY,
NEW MEXICO**

CASE NO. 16443

AFFIDAVIT OF CHRIS WEYAND

STATE OF Texas)
) ss.
COUNTY OF Travis)

I, Chris Weyand, make the following affidavit based upon my own personal knowledge.

1. I am over eighteen (18) years of age and am otherwise competent to make the statements contained herein.
2. I am a Staff Engineer at Lonquist & Co., LLC. My responsibilities at Lonquist & Co., LLC include saltwater disposal well permitting efforts in New Mexico as well as other states and jurisdictions.
3. I graduated from Texas A&M University in 2010 with an engineering degree.
4. I am familiar with the applications that NGL Water Solutions Permian, LLC ("NGL") has filed in these matters.
5. In Case No. 16443, NGL (OGRID No. 372338) seeks an order approving the Sidewinder SWD #1 well ("Sidewinder well"), which is a salt water disposal well.
6. I prepared a revised C-102 for the Sidewinder SWD well, attached as Exhibit A.



7. I compiled a list of all parties entitled to notice within a one-mile area of review. I reviewed County and Division records to determine the parties entitled to notice, including the owner of the surface (NGL) and leasehold operators or other affected person. With respect to affected parties, I determined whether there was an operator, as shown in the Division records, or a designated unit operator, and if not, whether there were any working interests whose interest is evidenced by a written conveyance document either of record; and as to any tract or interest not subject to an existing oil and gas lease, whether there were mineral interest owner whose interest is evidenced by a written conveyance document either of record; and whether the United States or state of New Mexico owns the mineral estate in the spacing unit or identified tract or any part thereof, the BLM or state land office, as applicable.

8. The area of review was evaluated for offset wellbores penetrating the injection formation and to determine notice parties as part of the C-108 Application. I updated the notice list based on the changed location and provided those additional names to counsel for NGL so that notice could be sent to the new notice parties.

9. The Sidewinder well is in the E/2 of Section 15. The W/2 of Section 15 is State Lands. Based on my review, it appears that the nearest state minerals are located approximately one mile from Sidewinder, in the E/2 NE/4 of Section 16-25S-34E.

10. The Telluride Fed SWD #1 well proposed by Solaris Water Midstream is in Unit P of Section 3-25S-34E. The adjacent Section 2 is State Lands. Based on my review, it appears that the nearest state minerals are located less than ¼-mile from Telluride in Section 2-25S-34E.

11. The Aspen SWD #1 well proposed by Solaris Water Midstream is in Unit D of Section 35-24S-33E. The adjacent Section 34 is State Lands. Based on my review, it appears that the nearest state minerals are located less than ¼-mile from Aspen in Section 34-24S-33E.

12. I attest that the information provided herein is correct and complete to the best of my knowledge and belief.

[Signature page follows]


Chris Weyand

SUBSCRIBED AND SWORN to before me this ___ th day of February, 2019 by Chris Weyand.


Notary Public

My commission expires: 09/16/2019



DECLARATION OF STEVEN NAVE

I, Steven Nave, declare under penalty of perjury under the law of New Mexico that the following is true and correct to the best of my knowledge and belief.

1. I am over eighteen (18) years of age and am otherwise competent to make this declaration.

2. I am the president of Nave Oil and Gas, which is a fishing tool company that performs fishing operations in several areas, including the area of Southeastern, New Mexico.

3. I worked as a fisherman for Star Tool Company, a fishing tool company, from 1980 until 2001. I later became a partner in Star Tool Company until that company was sold. I then later started my own company, Nave Oil and Gas, which also performs fishing operations. Over the years, I have developed expertise in fishing operations and I have performed fishing operations on Devonian salt water disposal wells located within Southeastern, New Mexico.

4. I am familiar with tubing and casing design requested by NGL Water Solutions Permian, LLC which consists of using tapered string tubing that is 7" x 5 1/2".

5. I have been informed that NGL's wells will be isolated to the Devonian and Silurian formations and will have four strings of casing protecting the fresh water, the salt interval, the Permian aged rocks through the Wolfcamp formation, and the depths to the top of the Devonian. There is a liner, and the deepest casing is 7 5/8", which will be cemented and cement will be circulated.

6. Based on my experience as a fisherman, it is my opinion that there is sufficient clearance between the 7 5/8" 39 pounds per foot or less casing and the proposed 5 1/2" tubing to



perform fishing operations. My company regularly performs fishing operations in situations involving similar dimensions and clearances.

7. Fishing can be performed through different methods when 7 5/8" 39 pounds per foot or less casing and the proposed 5 1/2" tubing is utilized; such as through the use of overshot tools, spear fishing tools, and (if needed) cutting tools.

8. The use of 7 5/8" 39 pounds per foot or less casing and the proposed 5 1/2" tubing will actually allow for the use of a wider variety of fishing tools that cannot typically be used within salt water disposal wells equipped with smaller tubing and casing sizes. This is because there is more room to run tools through the inside of the tubing. Additionally, it is my opinion that it is easier to perform fishing operations when 5 1/2" tubing is used.

9. Recently, I supervised a fishing job which involved a horizontal Wolfcamp well which was equipped with casing with a diameter of 7 5/8" 39 pounds per foot or less and casing with a diameter of 5 1/2". In that situation, my company was able to mill off the collar and use overshot tools to latch on to the piping that needed to be fished out of the well.

10. In my opinion, fishing operations could be successfully performed even at deeper depths for Devonian disposal wells provided that a sufficient rig is obtained for the operation.

[Signature Page Follows.]

A handwritten signature in cursive script, appearing to read 'Stephan Nave', written over a horizontal line.

Steven Nave

Stephan Nave

**STATE OF NEW MEXICO
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**APPLICATION OF NGL WATER
SOLUTIONS PERMIAN, LLC
FOR APPROVAL OF SALT WATER
DISPOSAL WELL IN LEA COUNTY,
NEW MEXICO**

CASE NO. 16443

AFFIDAVIT

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

Deana M. Bennett, attorney in fact and authorized representative of NGL Water Solutions Permian LLC, the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Application was provided under a notice letter and that proof of receipt is attached hereto.



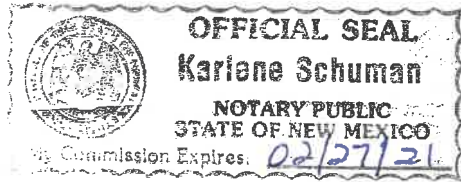
Deana M. Bennett



SUBSCRIBED AND SWORN to before me this 20th day of February, 2019 by Deana M. Bennett.

Karlene Schuman

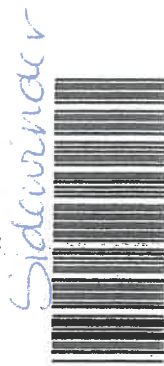
Notary Public



Karlene Schuman
Modrall Sperling Rochl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED
12/14/2018



Firm Mailing Book ID: 157397

Line	Article Number	Name, Street & P.O. Address	Postage	Fee	R.R.Fee	Reference	Rest.Del.Fee Contents
1	9314 8699 0430 0053 9870 55	Oil Conservation Division District I - Hobbs 1625 N. French Drive Hobbs NM 88240	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
2	9314 8699 0430 0053 9870 62	BUREAU OF LAND MGMT 620 E. Greene Street Carlsbad NM 88220	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
3	9314 8699 0430 0053 9870 79	NEW MEXICO STATE LAND OFFICE P.O. Box 1148 Santa Fe NM 87504	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
4	9314 8699 0430 0053 9870 86	EOG RESOURCES P.O. Box 2267 Midland TX 79702	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
5	9314 8699 0430 0053 9870 93	EOG RESOURCES INC 333 CLAY ST #4200 Houston TX 77002	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
6	9314 8699 0430 0053 9871 09	EOG RESOURCES INC P.O. BOX 4362 Houston TX 77210	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
7	9314 8699 0430 0053 9871 16	EOG M RESOURCES INC 105 S 4TH ST Artesia NM 88210	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
8	9314 8699 0430 0053 9871 23	EOG A RESOURCES 105 S 4TH ST Artesia NM 88210	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
9	9314 8699 0430 0053 9871 30	OXY Y-1 COMPANY PO BOX 27570 Houston TX 77227	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
10	9314 8699 0430 0053 9871 47	MARATHON OIL PERMIAN LLC 5555 San Felipe St Houston TX 77056	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
11	9314 8699 0430 0053 9871 54	SANTO OPERATING LLC PO BOX 1020 Artesia NM 88211	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
12	9314 8699 0430 0053 9871 61	Joan G. Phillips C/O Douglas G. McCormick	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
13	9314 8699 0430 0053 9871 78	MRC Permian Company 5400 LBJ Freeway, Suite 1500 Dallas TX 75240	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
14	9314 8699 0430 0053 9871 85	OneEnergy Partners Operating, LLC 2929 Allen Parkway, Suite 200 Houston TX 77019	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
15	9314 8699 0430 0053 9871 92	Black Mountain Oil and Gas 500 Main Street, Suite 500 Fort Worth TX 76102	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice

Karlene Schuman
Modrall Spering Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED
12/14/2018



Firm Mailing Book ID: 157397

Line	Article Number	Name, Street & P.O. Address	Postage	Fee	R.R.Fee	Reference	Rest.Del.Fee Contents
16	9314 8699 0430 0053 9872 08	EOG Resources, Inc. 155 E. Broad Street Columbus OH 43215	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
17	9314 8699 0430 0053 9872 15	Marathon Oil Permian, LLC 5555 San Felipe Street Houston TX 77056	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
18	9314 8699 0430 0053 9872 22	COG Operating, LLC One Concho Center 600 West Illinois Midland TX 79701	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
19	9314 8699 0430 0053 9872 39	Amerdev New Mexico, LLC 5707 SW Parkway, Building 1 Suite 275 Austin TX 78735	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
20	9314 8699 0430 0053 9872 46	MBOE, Inc. 4925 Greenville Ave., Suite 915 Dallas TX 75206	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
21	9314 8699 0430 0053 9872 53	Robert Landreth 110 West Louisiana, Suite 404 Midland TX 79701	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
22	9314 8699 0430 0053 9872 60	Duer Wagner, Jr., Individually and as Trustee of the Ruth Wagner Trust 3100 W. 7th Street, Suite 400 Fort Worth TX 76107	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
23	9314 8699 0430 0053 9872 77	Shannon Sprowls, Individually and Under the Shannon R. Sprowls 2012 Trust 12801 Saratoga Springs Circle Keller TX 76244	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
24	9314 8699 0430 0053 9872 84	John T. Neisler, Individually and Under the John T. Neisler 2012 Trust 5121 Westgrove Blvd. Haltom City TX 76117	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
25	9314 8699 0430 0053 9872 91	Springbok Energy Partners II, LLC 5950 Berkshire Lane, Suite 1250 Dallas TX 75225	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
26	9314 8699 0430 0053 9873 07	Silver Spur Resources, LLC PO Box 92761, Southlake Southlake TX 76092	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
27	9314 8699 0430 0053 9873 14	Chevron USA, Inc. 3310 W. Wall Street Midland TX 79701	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
28	9314 8699 0430 0053 9873 21	Fortis Minerals II, LLC 1111 Bagby St., Suite 2150 Houston TX 77002	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
29	9314 8699 0430 0053 9873 38	Katy Pipeline and Production Corporation 8580 Woodway Drive Houston TX 77063	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice



Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED
12/14/2018



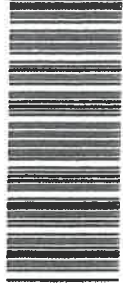
Firm Mailing Book ID: 157397

Line	Article Number	Name, Street & P.O. Address	Postage	Fee	R.R.Fee	Reference	Rest.Del.Fee Contents
30	9314 8699 0430 0053 9873 45	Sugarberry Oil & Gas Corporation 5950 Cedar Springs Road, Suite 230 Dallas TX 75235	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
31	9314 8699 0430 0053 9873 52	Energen Resources Corporation 605 Richard Arrington Jr Blvd N Birmingham AL 35203	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
32	9314 8699 0430 0053 9873 69	EOG Resources, Inc. 5509 Champions Dr. Midland TX 79706	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
33	9314 8699 0430 0053 9873 76	COG Operating, LLC 1293 C R 305 Midland TX 79701	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
34	9314 8699 0430 0053 9873 83	THE ALLAR CO PO BOX 1567 Graham TX 76450	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
35	9314 8699 0430 0053 9873 90	Susan Duff 50 Sequoyah Shawnee OK 74801	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
36	9314 8699 0430 0053 9874 06	Nommensen Investment Company 12411 Broken Bough Dr. Houston TX 77024	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
37	9314 8699 0430 0053 9874 13	John V. McCarthy, II P.O. Box 3688 Bernice OK 74331	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
38	9314 8699 0430 0053 9874 20	Bates Family Investment Company, LLC, The Trust Company of Oklahoma P.O. Box 3627 Tulsa OK 74101	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
39	9314 8699 0430 0053 9874 37	Duard B. Thomas, PR Of the Estate of Warren J. Bates P.O. Box 1357 Ada OK 74820	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
40	9314 8699 0430 0053 9874 44	Texas State Bank Trustee of the Lucille Chism Bates Testamentary Trust P.O. Box 3782 San Angelo TX 76902	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
41	9314 8699 0430 0053 9874 51	Robert F. Fleet Revocable Trust P.O. Box 729 Ada OK 74821	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
42	9314 8699 0430 0053 9874 68	Rae Ann Fleet Gossett P.O. Box 729 Ada OK 74821	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
43	9314 8699 0430 0053 9874 75	B.H.C.H. Mineral, Ltd. & Fredericksburg Royalty, Ltd. 5111 Broadway San Antonio TX 78209	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice

Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED
12/14/2018



Firm Mailing Book ID: 157397

Line	Article Number	Name, Street & P.O. Address	Postage	Fee	R.R.Fee	Reference	Rest.Del.Fee Contents
44	9314 8699 0430 0053 9874 82	James Ray Bates P. O. Box 6216 Shawnee Mission KA 66206	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
45	9314 8699 0430 0053 9874 99	Margaret Helen Kalmar Children's Trust P.O. Box 729 Ada OK 74820	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
46	9314 8699 0430 0053 9875 05	PAWN Enterprises, Ltd. P.O. Box 729 Ada OK 74820	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
47	9314 8699 0430 0053 9875 12	NGL Water Solutions Permian, LLC Attn: Joe Vargo 1509 W Wall St., Ste 306 Midland TX 79701	\$1.84	\$3.45	\$1.50	87806-0003	\$0.00 Notice
Totals:			\$86.48	\$162.15	\$70.50		\$0.00
					Grand Total:	\$319.13	

List Number of Pieces
Listed by Sender

Total Number of Pieces
Received at Post Office

Postmaster:
Name of receiving employee

Dated:



Transaction Report Details - CertifiedPronet -
Firm Mail Book ID= 157397
Generated: 2/12/2019 2:11:59 PM

Certified Mail Article Number	Date Created	Name 1	Name 2	Address	City	State	Zip	Certified Mailing Status	Service Options	Mail Delivery Date
9314869904300053987512	2018-12-14 12:54 PM	NGI Water Solutions Permian, LLC	Attn: Joe Vargo	1509 W Wall St., Ste 306	Midland	TX	79701	Delivered	Return Receipt - Electronic	12-17-2018
9314869904300053987505	2018-12-14 12:54 PM	PANW Enterprises, Ltd.		P.O. Box 729	Ada	OK	74820	Delivered	Return Receipt - Electronic	12-20-2018
9314869904300053987499	2018-12-14 12:54 PM	Margaret Helen Kalmar Children's Trust		P.O. Box 729	Ada	OK	74820	Delivered	Return Receipt - Electronic	12-20-2018
9314869904300053987482	2018-12-14 12:54 PM	James Ray Bates	Fredericksburg Royalty, Ltd.	P.O. Box 6216	Shawnee Mission	KA	66206	Delivered	Return Receipt - Electronic	12-18-2018
9314869904300053987475	2018-12-14 12:54 PM	B.H.C.H. Mineral, Ltd. &		5111 Broadway	San Antonio	TX	78209	Delivered	Return Receipt - Electronic	12-20-2018
9314869904300053987468	2018-12-14 12:54 PM	Rae Ann Fleet Gossett		P.O. Box 729	Ada	OK	74821	Delivered	Return Receipt - Electronic	12-20-2018
9314869904300053987451	2018-12-14 12:54 PM	Robert F. Fleet Revocable Trust		P.O. Box 729	Ada	OK	74821	Delivered	Return Receipt - Electronic	12-20-2018
9314869904300053987444	2018-12-14 12:54 PM	Texas State Bank Trustee of the Lucille Chism	Bailes Testamentary Trust	P.O. Box 3782	San Angelo	TX	76902	Delivered	Return Receipt - Electronic	12-19-2018
9314869904300053987437	2018-12-14 12:54 PM	Duard B. Thomas, PR	Of the Estate of Warren J. Bates	P.O. Box 1357	Ada	OK	74820	Delivered	Return Receipt - Electronic	12-19-2018
9314869904300053987420	2018-12-14 12:54 PM	Bates Family Investment Company, LLC,	The Trust Company of Oklahoma	P.O. Box 4628	Tulsa	OK	74101	Delivered	Return Receipt - Electronic	01-02-2019
9314869904300053987413	2018-12-14 12:54 PM	John V. McCarthy, II		P.O. Box 3677	Bernice	OK	74331	Delivered	Return Receipt - Electronic	12-19-2018
9314869904300053987406	2018-12-14 12:54 PM	Nommensen Investment Company		12411 Broken Bough Dr.	Houston	TX	77024	Delivered	Return Receipt - Electronic	12-19-2018
9314869904300053987390	2018-12-14 12:54 PM	Susan Duff		50 Sequoyah	Shawnee	OK	74801	Delivered	Return Receipt - Electronic	12-18-2018
9314869904300053987383	2018-12-14 12:54 PM	THE ALLAR CO		PO BOX 1567	Graham	TX	76450	Delivered	Return Receipt - Electronic	12-18-2018
9314869904300053987376	2018-12-14 12:54 PM	COG Operating, LLC		1293 C R 305	Midland	TX	79701	To be Returned	Return Receipt - Electronic	12-18-2018
9314869904300053987369	2018-12-14 12:54 PM	EOG Resources, Inc.		5508 Champions Dr.	Midland	TX	79706	Delivered	Return Receipt - Electronic	12-17-2018
9314869904300053987352	2018-12-14 12:54 PM	Energen Resources Corporation		605 Richard Arrington Jr Blvd N	Birmingham	AL	35203	Delivered	Return Receipt - Electronic	12-17-2018
9314869904300053987345	2018-12-14 12:54 PM	Sugberry Oil & Gas Corporation		5950 Cedar Springs Road, Suite 230	Dallas	TX	75235	Delivered	Return Receipt - Electronic	12-18-2018
9314869904300053987338	2018-12-14 12:54 PM	Katy Pipeline and Production Corporation		8560 Woodway Drive	Houston	TX	77063	Undelivered	Return Receipt - Electronic	12-18-2018
9314869904300053987321	2018-12-14 12:54 PM	Fortis Minerals II, LLC		1111 Bagby St., Suite 2150	Houston	TX	77002	Delivered	Return Receipt - Electronic	12-18-2018
9314869904300053987314	2018-12-14 12:54 PM	Chevron USA, Inc.		3310 W. Wall Street	Midland	TX	79701	Delivered	Return Receipt - Electronic	12-17-2018
9314869904300053987307	2018-12-14 12:54 PM	Silver Spur Resources, LLC		PO Box 92761, Southlake	Southlake	TX	76092	Delivered	Return Receipt - Electronic	12-22-2018
9314869904300053987291	2018-12-14 12:54 PM	Springbok Energy Partners II, LLC		5950 Berkshire Lane, Suite 1250	Dallas	TX	75225	Lost	Return Receipt - Electronic	12-18-2018
9314869904300053987284	2018-12-14 12:54 PM	John T. Neisler, Individually and Under the	John T. Neisler 2012 Trust	5121 Westgrove Blvd.	Haltom City	TX	76117	Delivered	Return Receipt - Electronic	12-18-2018
9314869904300053987277	2018-12-14 12:54 PM	Shannon Sprolins, Individually and Under	the Shannon R. Sprolins 2012 Trust	12801 Saratoga Springs Circle	Keller	TX	76244	Delivered	Return Receipt - Electronic	12-20-2018
9314869904300053987260	2018-12-14 12:54 PM	Duer Wagner, Jr., Individually and as	Trustee of the Ruth Wagner Trust	3100 W. 7th Street, Suite 400	Fort Worth	TX	76107	Undelivered	Return Receipt - Electronic	12-17-2018
9314869904300053987253	2018-12-14 12:54 PM	Robert Landreth		110 West Louisiana, Suite 404	Midland	TX	79701	Delivered	Return Receipt - Electronic	12-18-2018
9314869904300053987246	2018-12-14 12:54 PM	Amerdev New Mexico, LLC		4925 Greenville Ave., Suite 915	Dallas	TX	75206	Delivered	Return Receipt - Electronic	12-17-2018
9314869904300053987239	2018-12-14 12:54 PM	COG Operating, LLC		5707 SW Parkway, Building 1 Suite 275	Austin	TX	78735	Delivered	Return Receipt - Electronic	12-17-2018
9314869904300053987222	2018-12-14 12:54 PM	Marathon Oil Permian, LLC		One Concho Center 600 West Illinois	Midland	TX	79701	Delivered	Return Receipt - Electronic	12-17-2018
9314869904300053987215	2018-12-14 12:54 PM	EOG Resources, Inc.		5555 San Felipe Street	Houston	TX	77056	Lost	Return Receipt - Electronic	12-18-2018
9314869904300053987208	2018-12-14 12:54 PM	Black Mountain Oil and Gas		155 E. Broad Street	Columbus	OH	43215	Lost	Return Receipt - Electronic	12-18-2018
9314869904300053987192	2018-12-14 12:54 PM	OneEnergy Partners Operating, LLC		500 Main Street, Suite 500	Fort Worth	TX	76102	Delivered	Return Receipt - Electronic	12-19-2018
9314869904300053987185	2018-12-14 12:54 PM	MRC Permian Company		2925 Allen Parkway, Suite 200	Houston	TX	77019	Delivered	Return Receipt - Electronic	12-18-2018
9314869904300053987178	2018-12-14 12:54 PM	Joan G. Phillips C/O Douglas G. McCormick		5400 LBJ Parkway, Suite 1500	Dallas	TX	75240	Delivered	Return Receipt - Electronic	12-18-2018
9314869904300053987161	2018-12-14 12:54 PM	SANTO OPERATING LLC		155 E. Broad Street	Columbus	OH	43215	To be Returned	Return Receipt - Electronic	12-18-2018
9314869904300053987154	2018-12-14 12:54 PM	MARATHON OIL PERMIAN LLC		PO BOX 1020	Artesia	NM	88211	Delivered	Return Receipt - Electronic	12-26-2018
9314869904300053987147	2018-12-14 12:54 PM	OXY Y-1 COMPANY		5555 San Felipe St	Houston	TX	77056	Lost	Return Receipt - Electronic	12-20-2018
9314869904300053987130	2018-12-14 12:54 PM	EOG A RESOURCES		PO BOX 27570	Houston	TX	77227	Delivered	Return Receipt - Electronic	12-20-2018
9314869904300053987123	2018-12-14 12:54 PM	EOG M RESOURCES INC		105 S 4TH ST	Artesia	NM	88210	Delivered	Return Receipt - Electronic	12-17-2018
9314869904300053987116	2018-12-14 12:54 PM	EOG RESOURCES INC		305 S 4TH ST	Artesia	NM	88210	Delivered	Return Receipt - Electronic	12-17-2018
9314869904300053987109	2018-12-14 12:54 PM	EOG RESOURCES INC		PO BOX 4362	Houston	TX	77210	Delivered	Return Receipt - Electronic	12-19-2018
9314869904300053987093	2018-12-14 12:54 PM	EOG RESOURCES INC		333 CLAY ST #4200	Houston	TX	77002	To be Returned	Return Receipt - Electronic	12-18-2018
9314869904300053987086	2018-12-14 12:54 PM	NEW MEXICO STATE LAND OFFICE		P.O. Box 1267	Midland	TX	79702	Delivered	Return Receipt - Electronic	12-18-2018
9314869904300053987079	2018-12-14 12:54 PM	BUREAU OF LAND MGMT		P.O. Box 1148	Santa Fe	NM	87504	Delivered	Return Receipt - Electronic	12-18-2018
9314869904300053987062	2018-12-14 12:54 PM	Oil Conservation Division District 1 - Hobbs		620 E. Greene Street	Carlsbad	NM	88220	Delivered	Return Receipt - Electronic	12-18-2018
9314869904300053987055	2018-12-14 12:54 PM			1625 N. French Drive	Hobbs	NM	88240	Delivered	Return Receipt - Electronic	12-17-2018

Transaction Details

Recipient:
COG Operating, LLC
1293 C R 305
Midland, TX 79701

Sender:
Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque, NM 87102

Transaction created by: Karlenes
User ID: 20660
Firm Mailing Book ID: 157397
Batch ID: 152495

Certified Mail Article Number: 9314869904300053987376
Return Receipt Article Number:

Service Options: Return Receipt - Electronic
Mail Service: Certified
Reference #: 87806-0003
Postage: \$1.84
Fees: \$4.95
Status: To be Returned
Custom Field 1: 87806-0003
Custom Field 2: Sidewinder
Custom Field 3: 87806-0003

Transaction History

Event Description	Event Date	Details
Mailbook Generated	12-14-2018 01:05 PM	[WALZ] - Firm Mailing Book 157397 generated by Karlenes
USPS® Certified Mail	12-14-2018 05:10 PM	[USPS] - PRESHIPMENT INFO SENT USPS AWAITS ITEM at TEMECULA,CA
USPS® Certified Mail	12-14-2018 09:30 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-14-2018 09:39 PM	[USPS] - DEPART USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-16-2018 07:20 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at MIDLAND,TX
USPS® Certified Mail	12-16-2018 09:31 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at MIDLAND,TX
USPS® Certified Mail	12-17-2018 04:58 AM	[USPS] - DEPART USPS FACILITY at MIDLAND,TX
USPS® Certified Mail	12-17-2018 06:18 AM	[USPS] - ARRIVAL AT UNIT at MIDLAND,TX
USPS® Certified Mail	12-17-2018 06:19 AM	[USPS] - UNABLE TO DELIVER PROBLEM WITH ADDRESS at MIDLAND,TX
USPS® Certified Mail	12-19-2018 09:11 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at OKLAHOMA CITY,OK
USPS® Certified Mail	12-19-2018 09:22 PM	[USPS] - DEPART USPS FACILITY at OKLAHOMA CITY,OK

Transaction Details

Recipient:

Katy Pipeline and Production Corporation
8580 Woodway Drive
Houston, TX 77063

Sender:

Karlene Schuman
Modrall Sperlberg Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque, NM 87102

Transaction created by: Karlenes

User ID: 20660

Firm Mailing Book ID: 157397

Batch ID: 152495

Certified Mail Article Number: 9314869904300053987338

Return Receipt Article Number:

Service Options:

Return Receipt - Electronic

Mail Service:

Certified

Reference #:

87806-0003

Postage:

\$1.84

Fees:

\$4.95

Status:

Undelivered

Custom Field 1:

87806-0003

Custom Field 2:

Sidewinder

Custom Field 3:

87806-0003

Transaction History

Event Description**Event Date****Details**

Mailbook Generated	12-14-2018 01:05 PM	[WALZ] - Firm Mailing Book 157397 generated by Karlenes
USPS® Certified Mail	12-14-2018 05:10 PM	[USPS] - PRESHIPMENT INFO SENT USPS AWAITS ITEM at TEMECULA,CA
USPS® Certified Mail	12-14-2018 09:30 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-14-2018 09:39 PM	[USPS] - DEPART USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-17-2018 10:40 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX
USPS® Certified Mail	12-21-2018 04:02 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at BEAUMONT,TX
USPS® Certified Mail	12-22-2018 07:27 AM	[USPS] - DEPART USPS FACILITY at BEAUMONT,TX
USPS® Certified Mail	12-24-2018 04:29 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX
USPS® Certified Mail	12-26-2018 06:19 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX
USPS® Certified Mail	12-28-2018 02:31 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX
USPS® Certified Mail	12-29-2018 05:28 AM	[USPS] - ARRIVAL AT UNIT at HOUSTON,TX
USPS® Certified Mail	12-29-2018 09:25 AM	[USPS] - SORTINGPROCESSING COMPLETE at HOUSTON,TX
USPS® Certified Mail	12-29-2018 09:35 AM	[USPS] - OUT FOR DELIVERY at HOUSTON,TX
USPS® Certified Mail	12-29-2018 11:35 PM	[USPS] - AWAITING DELIVERY SCAN at HOUSTON,TX
USPS® Certified Mail	01-03-2019 12:20 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX
USPS® Certified Mail	01-05-2019 12:02 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX
USPS® Certified Mail	01-07-2019 05:43 AM	[USPS] - ARRIVAL AT UNIT at HOUSTON,TX
USPS® Certified Mail	01-18-2019 11:20 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX
USPS® Certified Mail	01-18-2019 11:05 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX
USPS® Certified Mail	01-19-2019 04:05 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX
USPS® Certified Mail	01-21-2019 04:46 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX
USPS® Certified Mail	01-22-2019 07:07 AM	[USPS] - ARRIVAL AT UNIT at HOUSTON,TX

Transaction Details

Recipient:
Springbok Energy Partners II, LLC
5950 Berkshire Lane, Suite 1250
Dallas, TX 75225

Sender:
Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque, NM 87102

Transaction created by: Karlenes
User ID: 20660
Firm Mailing Book ID: 157397
Batch ID: 152495

Certified Mail Article Number: 9314869904300053987291
Return Receipt Article Number:

Service Options: Return Receipt - Electronic
Mail Service: Certified
Reference #: 87806-0003
Postage: \$1.84
Fees: \$4.95
Status: Lost
Custom Field 1: 87806-0003
Custom Field 2: Sidewinder
Custom Field 3: 87806-0003

Transaction History

Event Description	Event Date	Details
Mailbook Generated	12-14-2018 01:05 PM	[WALZ] - Firm Mailing Book 157397 generated by Karlenes
USPS® Certified Mail	12-14-2018 05:10 PM	[USPS] - PRESHIPMENT INFO SENT USPS AWAITS ITEM at TEMECULA,CA
USPS® Certified Mail	12-14-2018 09:30 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-14-2018 09:39 PM	[USPS] - DEPART USPS FACILITY at ALBUQUERQUE,NM

Transaction Details

Recipient:

Duer Wagner, Jr., Individually and as
Trustee of the Ruth Wagner Trust
3100 W. 7th Street, Suite 400
Fort Worth, TX 76107

Sender:

Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque, NM 87102

Transaction created by: Karlenes

User ID: 20660

Firm Mailing Book ID: 157397

Batch ID: 152495

Certified Mail Article Number: 9314869904300053987260

Return Receipt Article Number:

Service Options:

Return Receipt - Electronic

Mail Service:

Certified

Reference #:

87806-0003

Postage:

\$1.84

Fees:

\$4.95

Status:

Undelivered

Custom Field 1:

87806-0003

Custom Field 2:

Sidewinder

Custom Field 3:

87806-0003

Transaction History

Event Description**Event Date****Details**

Mailbook Generated	12-14-2018 01:05 PM	[WALZ] - Firm Mailing Book 157397 generated by Karlenes
USPS® Certified Mail	12-14-2018 05:10 PM	[USPS] - PRESHIPMENT INFO SENT USPS AWAITS ITEM at TEMECULA,CA
USPS® Certified Mail	12-14-2018 09:30 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-14-2018 09:39 PM	[USPS] - DEPART USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-16-2018 05:44 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at FORT WORTH,TX
USPS® Certified Mail	12-17-2018 06:24 AM	[USPS] - DEPART USPS FACILITY at FORT WORTH,TX
USPS® Certified Mail	12-17-2018 10:25 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at FORT WORTH,TX
USPS® Certified Mail	12-18-2018 07:13 AM	[USPS] - ARRIVAL AT UNIT at FORT WORTH,TX
USPS® Certified Mail	12-18-2018 10:02 AM	[USPS] - SORTINGPROCESSING COMPLETE at FORT WORTH,TX
USPS® Certified Mail	12-18-2018 10:12 AM	[USPS] - OUT FOR DELIVERY at FORT WORTH,TX
USPS® Certified Mail	12-19-2018 12:12 AM	[USPS] - AWAITING DELIVERY SCAN at FORT WORTH,TX
USPS® Certified Mail	12-19-2018 05:33 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at OKLAHOMA CITY,OK
USPS® Certified Mail	12-19-2018 09:22 PM	[USPS] - DEPART USPS FACILITY at OKLAHOMA CITY,OK
USPS® Certified Mail	12-28-2018 03:44 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at OKLAHOMA CITY,OK
USPS® Certified Mail	01-17-2019 01:29 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	01-17-2019 09:06 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	01-17-2019 11:09 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	01-18-2019 05:53 AM	[USPS] - ARRIVAL AT UNIT at ALBUQUERQUE,NM

Transaction Details

Recipient:

Marathon Oil Permian, LLC
5555 San Felipe Street
Houston, TX 77056

Sender:

Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque, NM 87102

Transaction created by: Karlenes

User ID: 20660

Firm Mailing Book ID: 157397

Batch ID: 152495

Certified Mail Article Number: 9314869904300053987215

Return Receipt Article Number:

Service Options:

Return Receipt - Electronic

Mail Service:

Certified

Reference #:

87806-0003

Postage:

\$1.84

Fees:

\$4.95

Status:

Lost

Custom Field 1:

87806-0003

Custom Field 2:

Sidewinder

Custom Field 3:

87806-0003

Transaction History

Event Description**Event Date****Details**

Mailbook Generated

12-14-2018 01:05 PM

[WALZ] - Firm Mailing Book 157397 generated by Karlenes

USPS® Certified Mail

12-14-2018 05:10 PM

[USPS] - PRESHIPMENT INFO SENT USPS AWAITS ITEM at TEMECULA,CA

USPS® Certified Mail

12-14-2018 09:30 PM

[USPS] - PROCESSED THROUGH USPS FACILITY at ALBUQUERQUE,NM

USPS® Certified Mail

12-14-2018 09:39 PM

[USPS] - DEPART USPS FACILITY at ALBUQUERQUE,NM

USPS® Certified Mail

12-17-2018 10:40 AM

[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX

Transaction Details

Recipient:
EOG Resources, Inc.
155 E. Broad Street
Columbus, OH 43215

Sender:
Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque, NM 87102

Transaction created by: Karlenes
User ID: 20660
Firm Mailing Book ID: 157397
Batch ID: 152495

Certified Mail Article Number: 9314869904300053987208
Return Receipt Article Number:

Service Options: Return Receipt - Electronic
Mail Service: Certified
Reference #: 87806-0003
Postage: \$1.84
Fees: \$4.95
Status: Lost
Custom Field 1: 87806-0003
Custom Field 2: Sidewinder
Custom Field 3: 87806-0003

Transaction History

Event Description	Event Date	Details
Mailbook Generated	12-14-2018 01:05 PM	[WALZ] - Firm Mailing Book 157397 generated by Karlenes
USPS® Certified Mail	12-14-2018 05:10 PM	[USPS] - PRESHIPMENT INFO SENT USPS AWAITS ITEM at TEMECULA,CA
USPS® Certified Mail	12-14-2018 09:30 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-14-2018 09:39 PM	[USPS] - DEPART USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-16-2018 03:28 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at COLUMBUS,OH
USPS® Certified Mail	12-17-2018 02:45 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at COLUMBUS,OH
USPS® Certified Mail	12-25-2018 09:26 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at DETROIT,MI

Transaction Details

Recipient:
Joan G. Phillips C/O Douglas G. McCormick
155 E. Broad Street
Columbus, OH 43215

Sender:
Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque, NM 87102

Transaction created by: Karlenes
User ID: 20660
Firm Mailing Book ID: 157397
Batch ID: 152495

Certified Mail Article Number: 9314869904300053987161
Return Receipt Article Number:

Service Options: Return Receipt - Electronic
Mail Service: Certified
Reference #: 87806-0003
Postage: \$1.84
Fees: \$4.95
Status: To be Returned
Custom Field 1: 87806-0003
Custom Field 2: Sidewinder
Custom Field 3: 87806-0003

Transaction History

Event Description	Event Date	Details
Mailbook Generated	12-14-2018 01:05 PM	[WALZ] - Firm Mailing Book 157397 generated by Karlenes
USPS® Certified Mail	12-14-2018 05:10 PM	[USPS] - PRESHIPMENT INFO SENT USPS AWAITS ITEM at TEMECULA,CA
USPS® Certified Mail	12-14-2018 09:30 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-14-2018 09:39 PM	[USPS] - DEPART USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-16-2018 03:28 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at COLUMBUS,OH
USPS® Certified Mail	12-17-2018 02:45 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at COLUMBUS,OH
USPS® Certified Mail	12-25-2018 09:24 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at DETROIT,MI
USPS® Certified Mail	12-27-2018 12:47 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at PONTIAC,MI
USPS® Certified Mail	12-28-2018 03:07 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-29-2018 05:23 AM	[USPS] - MISSENT at ALBUQUERQUE,NM

Transaction Details

Recipient:
MARATHON OIL PERMIAN LLC
5555 San Felipe St
Houston, TX 77056

Sender:
Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque, NM 87102

Transaction created by: Karlenes
User ID: 20660
Firm Mailing Book ID: 157397
Batch ID: 152495

Certified Mail Article Number: 9314869904300053987147
Return Receipt Article Number:

Service Options: Return Receipt - Electronic
Mail Service: Certified
Reference #: 87806-0003
Postage: \$1.84
Fees: \$4.95
Status: Lost
Custom Field 1: 87806-0003
Custom Field 2: Sidewinder
Custom Field 3: 87806-0003

Transaction History

Event Description	Event Date	Details
Mailbook Generated	12-14-2018 01:05 PM	[WALZ] - Firm Mailing Book 157397 generated by Karlenes
USPS® Certified Mail	12-14-2018 05:10 PM	[USPS] - PRESHIPMENT INFO SENT USPS AWAITS ITEM at TEMECULA,CA
USPS® Certified Mail	12-14-2018 09:30 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-14-2018 09:39 PM	[USPS] - DEPART USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-17-2018 10:42 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX

Transaction Details

Recipient:
EOG RESOURCES INC
333 CLAY ST #4200
Houston, TX 77002

Sender:
Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque, NM 87102

Transaction created by: Karlenes
User ID: 20660
Firm Mailing Book ID: 157397
Batch ID: 152495

Certified Mail Article Number: 9314869904300053987093
Return Receipt Article Number:

Service Options: Return Receipt - Electronic
Mail Service: Certified
Reference #: 87806-0003
Postage: \$1.84
Fees: \$4.95
Status: To be Returned
Custom Field 1: 87806-0003
Custom Field 2: Sidewinder
Custom Field 3: 87806-0003

Transaction History

Event Description	Event Date	Details
Mailbook Generated	12-14-2018 01:05 PM	[WALZ] - Firm Mailing Book 157397 generated by Karlenes
USPS® Certified Mail	12-14-2018 05:10 PM	[USPS] - PRESHIPMENT INFO SENT USPS AWAITS ITEM at TEMECULA,CA
USPS® Certified Mail	12-14-2018 09:30 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-14-2018 09:39 PM	[USPS] - DEPART USPS FACILITY at ALBUQUERQUE,NM
USPS® Certified Mail	12-17-2018 10:40 AM	[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX
USPS® Certified Mail	12-17-2018 05:23 PM	[USPS] - PROCESSED THROUGH USPS FACILITY at NORTH HOUSTON,TX
USPS® Certified Mail	12-18-2018 11:31 AM	[USPS] - ARRIVAL AT UNIT at HOUSTON,TX
USPS® Certified Mail	12-18-2018 11:44 AM	[USPS] - AVAILABLE FOR PICKUP at HOUSTON,TX
USPS® Certified Mail	12-23-2018 04:27 AM	[USPS] - REMINDER TO SCHEDULE REDELIVERY at HOUSTON,TX
USPS® Certified Mail	01-02-2019 03:34 AM	[USPS] - PACKAGE RETURN NOTICE GENERATED at HOUSTON,TX

15

SENDER: COMPLETE THIS SECTION

■ Complete items 1, 2, and 3.

■ Print your name and address on the reverse so that we can return the card to you.

■ Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

D. Morgan FirestoneFiran Corp.
353 Rodanos Shore Road
Oaksville, Ontario, Canada L6M1M3



9590 9402 3381 7227 2773 22

2. Article Number (Transfer from service label)

7018 0360 0001 4283 0586

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☒ X

☐ Agent

☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature

☐ Priority Mail Express®

☐ Adult Signature Restricted Delivery

☐ Registered Mail™

☐ Certified Mail®

☐ Registered Mail Restricted Delivery

☐ Certified Mail Restricted Delivery

☐ Return Receipt for Merchandise

☐ Collect on Delivery

☐ Signature Confirmation™

☐ Collect on Delivery Restricted Delivery

☐ Signature Confirmation Restricted Delivery

☐ Insured Mail

☐ Signature Confirmation Restricted Delivery (over \$500)

☐ Insured Mail Restricted Delivery (over \$500)

☐ Signature Confirmation Restricted Delivery (over \$500)

☐ Insured Mail Restricted Delivery (over \$500)

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☐ Signature Confirmation Restricted Delivery (over \$500)

☐ Insured Mail Restricted Delivery (over \$500)

☐ Signature Confirmation Restricted Delivery (over \$500)

Domestic Return Receipt

Medtrall Sperting Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque, NM 87102

7018 0360 0001 4283 0586

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

For delivery information, visit our website at www.usps.com

Certified Mail Fee

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

☐ Return Receipt (hardcopy)	\$
☐ Return Receipt (electronic)	\$
☐ Certified Mail Restricted Delivery	\$
☐ Adult Signature Required	\$
☐ Adult Signature Restricted Delivery	\$

Postage \$

Total Postage and Fees \$ 7.83

Sent To

Street and Apt. No

City, State, ZIP+4®

D. Morgan FirestoneFiran Corp.
353 Iroquois Shore Road
Oaksville, Ontario, Canada L6M1M3

PS Form 3800, April 2012 Edition (PSN 7530-02-000-9000-9) See Reverse for Instructions

Albuquerque NM 87102 DEC 11 2018

D. Morgan FirestoneFiran Corp.
353 Iroquois Shore Road
Oaksville, Ontario, Canada L6M1M2

Sidewinder

NEOPOST
12/4/2018
US POSTAGE \$0.00

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11

ADDRESS INCOMPLETE // ADRESSE INCOMPL
RETURN TO SENDER
NM 87102
USA

11

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

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

Beginning with the issue dated
December 26, 2018
and ending with the issue dated
December 26, 2018.



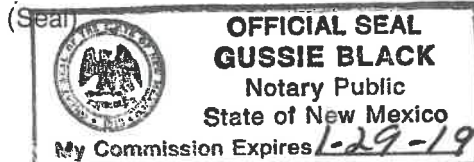
Publisher

Sworn and subscribed to before me this
26th day of December 2018.



Business Manager

My commission expires
January 29, 2019



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

LEGAL

LEGAL

LEGAL

LEGAL NOTICE
DECEMBER 26, 2018

CASE NO. 16443: Notice to all affected parties, as well as the heirs and devisees of BUREAU OF LAND MGMT; NEW MEXICO STATE LAND OFFICE; EOG RESOURCES; EOG RESOURCES INC; EOG M RESOURCES INC; EOG A RESOURCES; OXY Y-1 COMPANY; MARATHON OIL PERMIAN LLC; SANTO OPERATING LLC; JOAN G. PHILLIPS C/O DOUGLAS G. MCCORMICK; MRC PERMIAN COMPANY; ONEENERGY PARTNERS OPERATING, LLC; BLACK MOUNTAIN OIL AND GAS; COG OPERATING, LLC; AMEREDDEV NEW MEXICO, LLC; MBOE, INC.; ROBERT LANDRETH; DUER WAGNER, JR., INDIVIDUALLY AND AS TRUSTEE OF THE RUTH WAGNER TRUST; SHANNON SPROWLS, INDIVIDUALLY AND UNDER THE SHANNON R. SPROWLS 2012 TRUST; JOHN T. NEISLER, INDIVIDUALLY AND UNDER THE JOHN T. NEISLER 2012 TRUST; SPRINGBOK ENERGY PARTNERS II, LLC; SILVER SPUR RESOURCES, LLC; CHEVRON USA, INC.; FORTIS MINERALS II, LLC; KATY PIPELINE AND PRODUCTION CORPORATION; SUGARBERRY OIL & GAS CORPORATION; ENERGEN RESOURCES CORPORATION; COG OPERATING, LLC; THE ALLAR CO; SUSAN DUFF; NOMMENSEN INVESTMENT COMPANY; JOHN V. MCCARTHY, II; BATES FAMILY INVESTMENT COMPANY, LLC; THE TRUST COMPANY OF OKLAHOMA; DUARD B. THOMAS, PR OF THE ESTATE OF WARREN J. BATES; TEXAS STATE BANK TRUSTEE OF THE LUCILLE CHISM BATES TESTAMENTARY TRUST; ROBERT F. FLEET REVOCABLE TRUST; RAE ANN FLEET GOSSETT; B.H.C.H. MINERAL, LTD. & FREDERICKSBURG ROYALTY, LTD.; JAMES RAY BATES; MARGARET HELEN KALMAR CHILDREN'S TRUST; PAWN ENTERPRISES, LTD.; D. MORGAN FIRESTONE FIRAN CORP.; NGL Water Solutions Permian, LLC, 1509 W. Wall Street, Suite 306, Midland, Texas 79701 is filing an amended application for hearing along with a C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for approval of salt water disposal well in Lea County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on January 10, 2019, to consider this application. In this amended application, NGL seeks an order approving disposal into the Silurian-Devonian formation through the Sidewinder SWD #1 well at a surface location 1755 feet from the North line and 18 feet from the East line of Section 15, Township 25 South, Range 34 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. The target injection interval is the Devonian and Silurian formations at a depth of 17,157' - 19,067'. NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 1/2 inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day. Said area is located approximately 22 miles west of Jal, New Mexico.

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LEGAL NOTICE
DECEMBER 26, 2018

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CASE NO. 16443: Notice to all affected parties, as well as the heirs and devisees of BUREAU OF LAND MGMT; NEW MEXICO STATE LAND OFFICE; EOG RESOURCES; EOG RESOURCES INC; EOG M RESOURCES INC; EOG A RESOURCES; OXY Y-1 COMPANY; MARATHON OIL PERMIAN LLC; SANTO OPERATING LLC; JOAN G. PHILLIPS C/O DOUGLAS G. MCCORMICK; MRC PERMIAN COMPANY; ONEENERGY PARTNERS OPERATING, LLC; BLACK MOUNTAIN OIL AND GAS;; COG OPERATING, LLC; AMEREDEV NEW MEXICO, LLC; MBOE, INC.; ROBERT LANDRETH; DUER WAGNER, JR., INDIVIDUALLY AND AS TRUSTEE OF THE RUTH WAGNER TRUST; SHANNON SPROWLS, INDIVIDUALLY AND UNDER THE SHANNON R. SPROWLS 2012 TRUST; JOHN T. NEISLER, INDIVIDUALLY AND UNDER THE JOHN T. NEISLER 2012 TRUST; SPRINGBOK ENERGY PARTNERS II, LLC; SILVER SPUR RESOURCES, LLC; CHEVRON USA, INC.; FORTIS MINERALS II, LLC; KATY PIPELINE AND PRODUCTION CORPORATION; SUGARBERRY OIL & GAS CORPORATION; ENERGEN RESOURCES CORPORATION; COG OPERATING, LLC; THE ALLAR CO; SUSAN DUFF; NOMMENSEN INVESTMENT COMPANY; JOHN V. MCCARTHY, II; BATES FAMILY INVESTMENT COMPANY, LLC, THE TRUST COMPANY OF OKLAHOMA; DUARD B. THOMAS, PR OF THE ESTATE OF WARREN J. BATES; TEXAS STATE BANK TRUSTEE OF THE LUCILLE CHISM BATES TESTAMENTARY TRUST; ROBERT F. FLEET REVOCABLE TRUST; RAE ANN FLEET GOSSETT; B.H.C.H. MINERAL, LTD. & FREDERICKSBURG ROYALTY, LTD.; JAMES RAY BATES; MARGARET HELEN KALMAR CHILDREN'S TRUST; PAWN ENTERPRISES, LTD.; D. MORGAN FIRESTONEFIRAN CORP.: NGL Water Solutions Permian, LLC, 1509 W. Wall Street, Suite 306, Midland, Texas 79701 is filing an amended application for hearing along with a C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for approval of salt water disposal well in Lea County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on January 10, 2019, to consider this application. In this amended application, NGL seeks an order approving disposal into the Silurian-Devonian formation through the Sidewinder SWD #1 well at a surface location 1755 feet from the North line and 18 feet from the East line of Section 15, Township 25 South, Range 34 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. The target injection interval is the Devonian and Silurian formations at a depth of 17,157' - 19,067'. NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 1/2 inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day. Said area is located approximately 22 miles west of Jal, New Mexico.

CASE NO. 20139: Notice to all affected parties, as well as the heirs and devisees of NEW MEXICO STATE LAND OFFICE ; BUREAU OF LAND MGMT; EOG RESOURCES INC ; LETA T. DILLON FAMILY LIMITED PARTNERSHIP C/O JAMES PATRICK KNIGHT; NGL Water Solutions Permian, LLC, 1509 W. Wall Street, Suite 306, Midland, Texas 79701 is filing an amended application for hearing along with a C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for approval of salt water disposal well in Lea County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on January 10, 2019, to consider this application. In this application, NGL seeks an order approving disposal into the Silurian-Devonian formation through the Asroc SWD #1 well at a surface location 2017 feet from the South line and 1420 feet from the East line of Section 6, Township 25 South, Range 34 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. NGL seeks authority to inject salt water into the Silurian-Devonian formation at a depth of 17,020' to 18,890'. NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 1/2 inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day. Said area is located approximately 19 miles west of Jal, New Mexico.

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CASE NO. 20141: Notice to all affected parties, as well as the heirs and devisees of NEW MEXICO STATE LAND OFFICE; BUREAU OF LAND MGMT; COG OPERATING LLC; MATADOR PRODUCTION COMPANY; DEVON ENERGY PRODUCTION COMPANY, LP; KAISER-FRANCIS OIL CO; EOG Y RESOURCES, INC; EOG RESOURCES INC; TAP ROCK OPERATING, LLC; NGL Water Solutions Permian, LLC, 1509 W. Wall Street, Suite 306, Midland, Texas 79701 is filing an amended application for hearing along with a C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division for approval of salt water disposal well in Lea County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on January 10, 2019, to consider this application. In this application, NGL seeks an order approving disposal into the Silurian-Devonian formation through the Sparrow SWD #1 well at a surface location 405 feet from the North line and 297 feet from the West line of Section 11, Township 24 South, Range 33 East, NMPM, Lea County, New Mexico for the purpose of operating a salt water disposal well. NGL seeks authority to inject salt water into the Silurian-Devonian formation at a depth of 16,940' - 18,658'. NGL further seeks approval of the use of 7 inch tubing inside the surface and intermediate casings and 5 1/2 inch tubing inside the liner and requests that the Division approve a maximum daily injection rate for the well of 50,000 bbls per day. Said area is located approximately 22.6 miles northwest of Jal, New Mexico.

CASE NO. 20142: Notice to all affected parties, as well as the heirs and devisees of

Delaware Basin Stratigraphic Unit Descriptions

Lower Paleozoic

Woodford Shale (Upper Devonian)

The Woodford Shale is dominated by organic-rich mudstone interbedded with carbonate (limestone and/or dolostone) beds, chert beds and radiolarian laminae. This unit has been interpreted to include sedimentary gravity-flow deposits. Dominantly shale means lower porosity and permeability than the limestone/dolostone units above and below. The Woodford Shale is unconformable on the units below it. Locally this contact includes solution cavities and fissures down into the underlying carbonate unit(s), creating a complex boundary. It is up to 150' thick locally.

Thirtyone Formation (Lower Devonian)

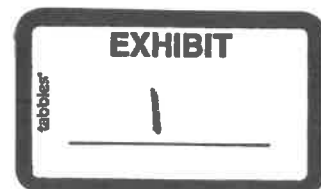
The Thirtyone Formation is part of a wedge of sedimentary rocks that thins to the north and the west where the wedge ends up truncated beneath the base of the overlying Woodford Shale. The Thirtyone Formation is only present in southeastern Lea County and consists of an upper coarsely crystalline dolostone unit and lower chert unit. This unit is not present in the area of concern.

Wristen Group (Middle-Upper Silurian)

The Wristen Group consists of interbedded limestone and dolostone that has a maximum thickness in Lea County, then thins to the north and the west. Thicknesses range from 0 to 1,400' thick. In the Delaware Basin, it occurs up to 19,000' below land surface, then rises to 10,000' to 12,000' subsurface to the north and west. It represents deposition in a shelf-margin environment and includes buildups of coral reefs, stromatoporoids and other invertebrate colonialists. The carbonate beds include boundstones, rudstones and oolitic grainstones with significant primary porosity. To the north, reservoirs targeted for production are dolomitic with vugular and fracture-related porosity.

Fusselman Formation (Late Ordovician-Lower Silurian)

The Fusselman Formation is almost entirely dolostone and can be up to 1,500' thick. As with the overlying Thirtyone Formation and Wristen Group, the Fusselman Formation thins to the north and west where it is truncated beneath the Woodford Shale to the north of where the Wristen Group pinches out. In Lea County, the Fusselman Formation can be 18,000' or more below land surface. It is primarily coarsely crystalline dolostone that is vugular, fractured and/or brecciated, with significant secondary porosity due to the fracturing and brecciation.



Montoya Group (Middle-Upper Ordovician)

The Montoya Formation includes three dolostone members overlying a sandstone unit. The three upper carbonate units include the Upham, Aleman and Cutter Members and the lower sandstone unit is the Cable Canyon Sandstone. The entire package can be up to 600' thick and depth to the top of the unit ranges from 5,500' near the northern pinchout in Chaves County to as much as 20,000' in southern Lea County. The Montoya Group was stripped from the higher parts of the Central Basin Platform by erosion in the Late Pennsylvanian and Early Permian.

Simpson Group (Middle-Upper Ordovician)

The Simpson Group is a heterogeneous unit with limestone, dolostone, sandstone and green shale horizons. Up to 1000' thick, it is dominated by the shale beds (55% of total thickness), followed by the dolostone and limestone beds (40%) and finally sandstone (5%). The shale horizons can serve as a permeability barrier between the underlying Precambrian basement rocks and overlying reservoirs where the Simpson Group is present and has sufficient thickness. Depths to the Simpson Group range from 6,700' on parts of the Central Basin Platform to up to 21,000' in the Delaware Basin.

Ellenburger Formation (Lower Ordovician)

The Ellenburger Formation is up to 1000' thick and composed of limestone and dolostone that represent cyclic deposition in waters of the inner platform with restricted circulation. Porosity in the Ellenburger Formation includes porosity in the matrix, vugs, major karst dissolution features, collapse karst breccias and fractures. Depths to the top of the unit range from 7,500' on the Central Basin Platform to up to 22,000' in the Delaware Basin.

References

Broadhead, R.F., 2017, Petroleum Geology: *in* V.T. McLemore, S. Timmons and M. Wilks (eds.), Energy and Mineral Resources of New Mexico, New Mexico Bureau of Geology and Mineral Resources Memoir 50, vol. A, 90 p.

Comer, J.B., 1991, Stratigraphic analysis of the Upper Devonian Woodford Formation, Permian Basin, West Texas and southeastern New Mexico: Bureau of Economic Geology, University of Texas at Austin, Report of Investigations no. 201, 63 p.

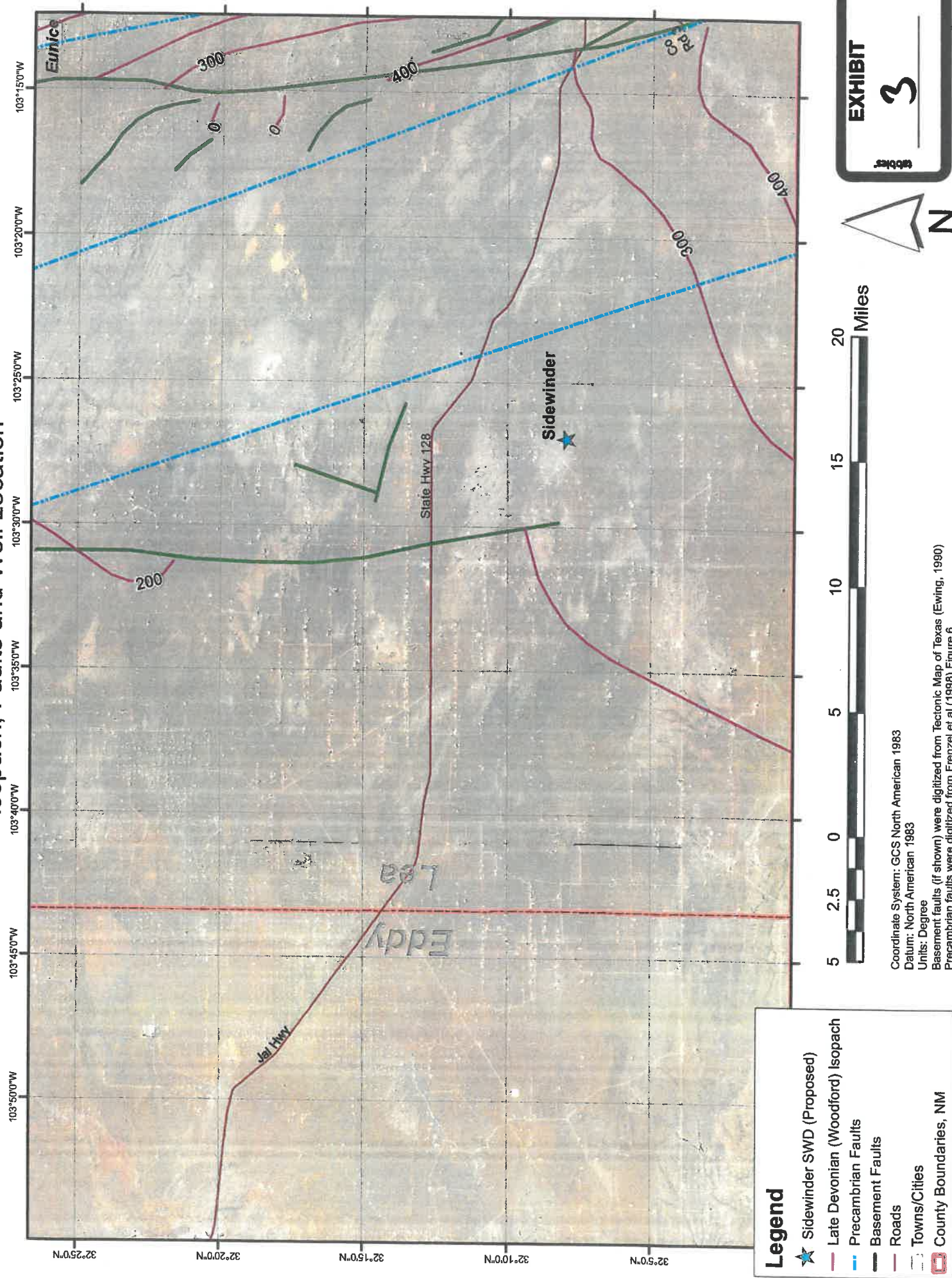
Hemmesch, N.T., Harris, N.B., Mnich, C.A. and Selby, D., 2014, A sequence-stratigraphic framework for the Upper Devonian Woodford Shale, Permian Basin, west Texas: American Association of Petroleum Geologists Bulletin, v. 98, no. 1, p. 23-47, doi:10.1306/05221312077

Texas Bureau of Economic Geology, 2009, Integrated Synthesis of the Permian Basin: Data and Models for Recovering Existing and Undiscovered Oil Resources from the Largest Oil-Bearing Basin in the U.S.: Department of Energy Final Technical Report, Award No: DE-FC26-04NT15509, 964 p.

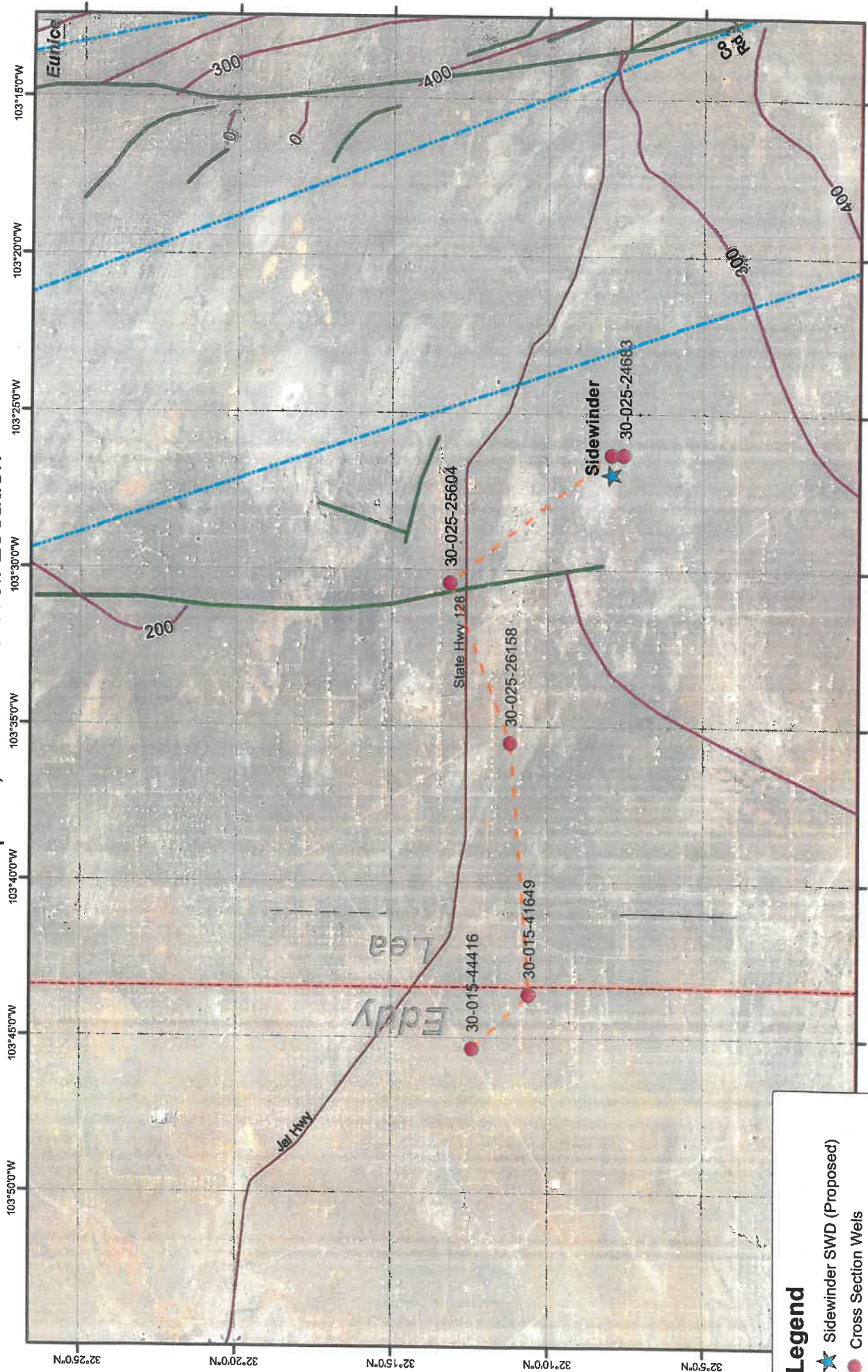
Age	Stratigraphic Unit	Key Feature	Estimated Depth
Triassic	Chinle	Freshwater resources	
	Santa Rosa		
Ochoan	Dewey Lake		
	Rustler		
Guadalupian	Salado		
	Castile		
Leonardian	Bell Canyon	Current petroleum zone	
	Cherry Canyon		
Wolfcampian	Brushy Canyon	Current petroleum zone	
	Bone Spring		
Pennsylvanian	Wolfcamp		
	Cisco		
Mississ.	Canyon		
	Strawn		
Devon.	Atoka	Current petroleum zone	
	Morrow		
Silur.	Barnett	Shale permeability barrier	-16,600'
	limestones		
Ordov.	Woodford	Target Injection Interval	-16,750'
	Thirtyone		
Cambrian	Wristen		
	Fusselman		-17,600'
Precambrian	Montoya	Shale permeability barrier	-18,400'
	Simpson		-18,900'
	Ellenburger		
	Bliss		
	basement		-19,600'

Stratigraphic chart for the Delaware Basin from Broadhead (2017).
 * Based on data from 30-015-4416 Striker 2 SWD #1 (23-24S-31E).
 **Note the Thirtyone Formation is not present in the project area.

Isopach, Faults and Well Location



Isopach, Faults and Well Location



Legend

- ★ Sidewinder SWD (Proposed)
- Cross Section Wells
- - - X-section Line
- Late Devonian (Woodford) Isopach
- Precambrian Faults
- Basement Faults
- Roads
- Towns/Cities
- County Boundaries, NM

Coordinate System: GCS North American 1983

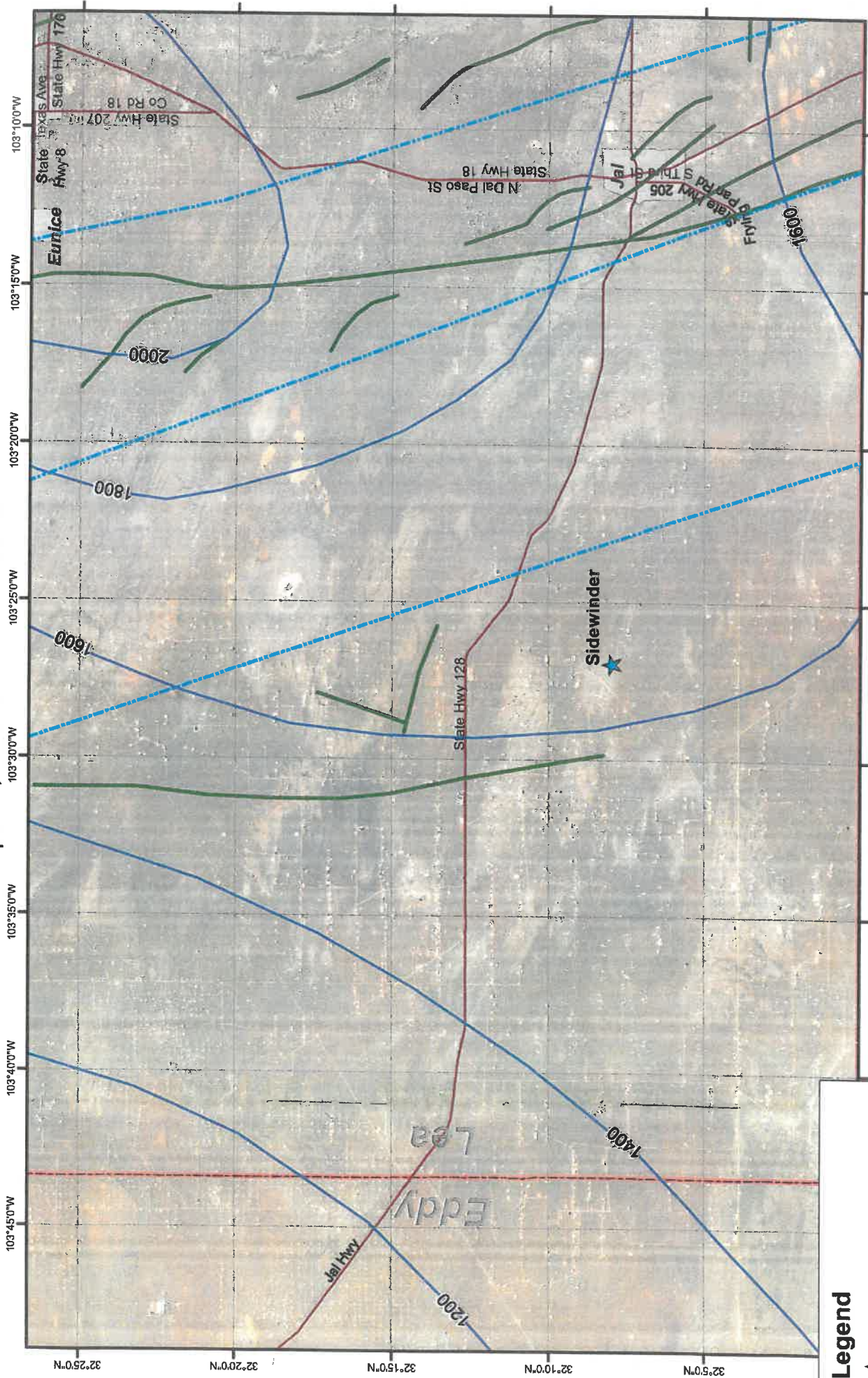
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Units: Degree

Basement faults (if shown) were digitized from Tectonic Map of Texas (Ewing, 1990)

Precambrian faults were digitized from Frenzel et al (1998) Figure 6.

Isopach, Faults and Well Location

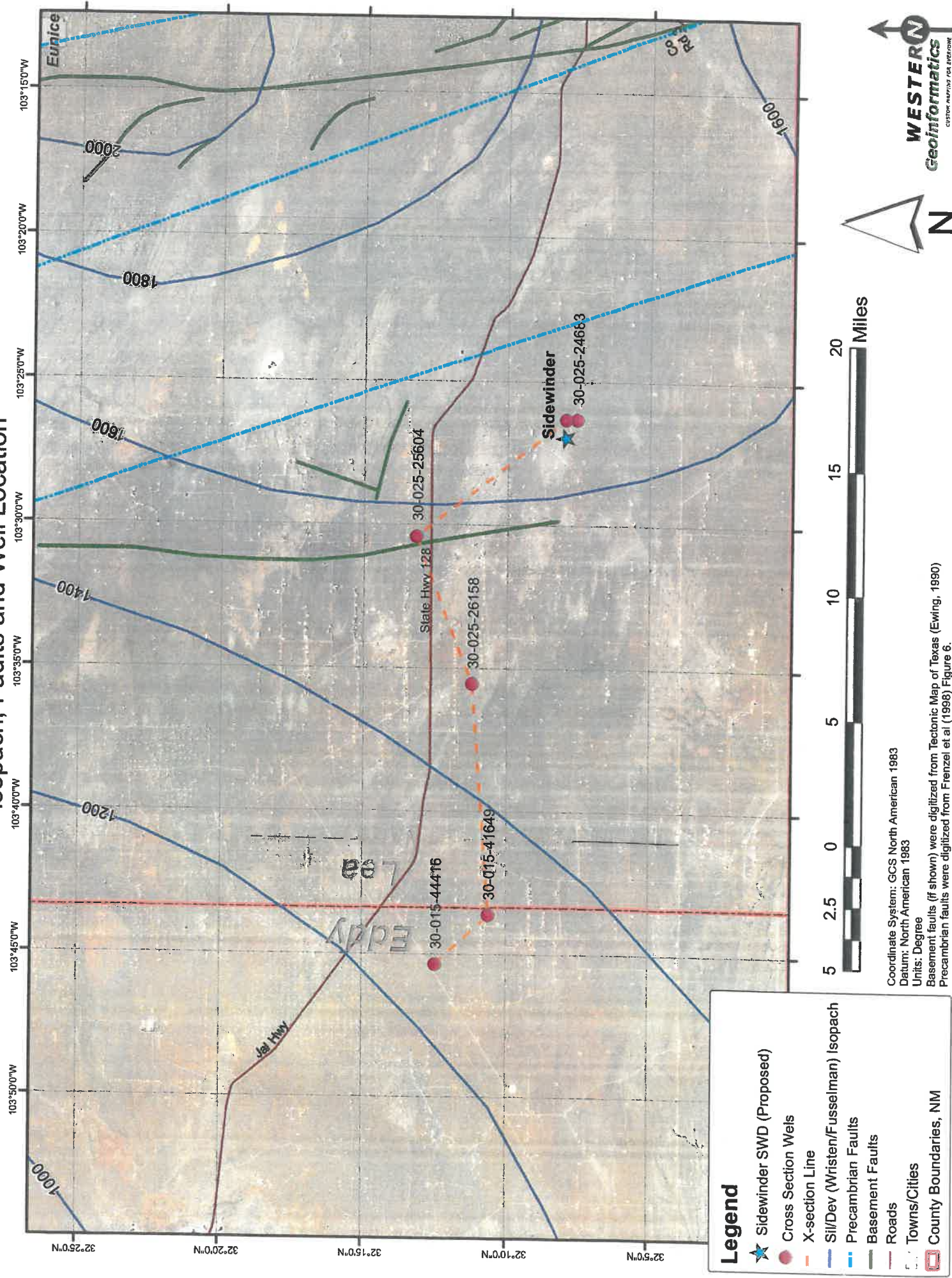


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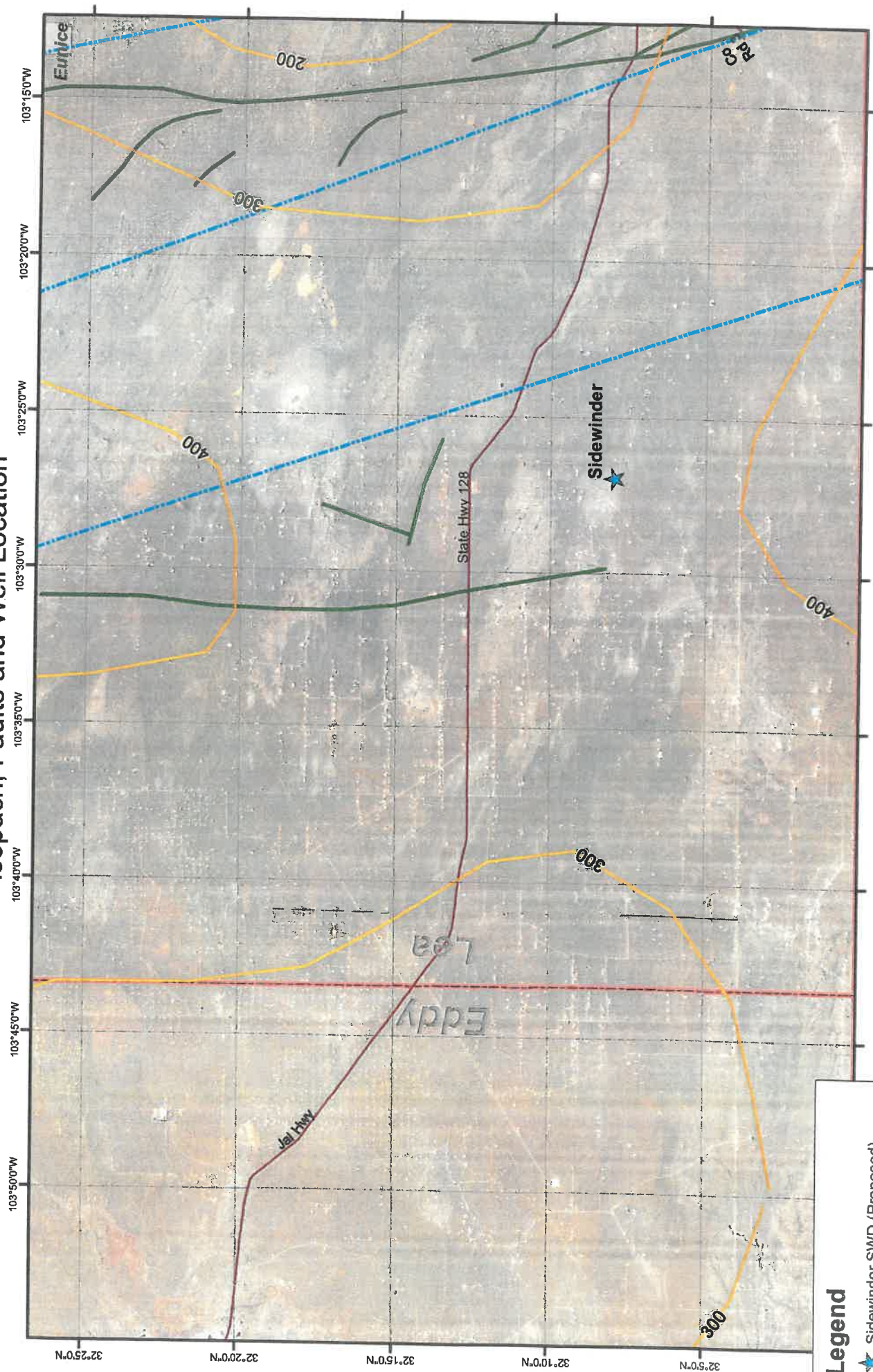
- ★ Sidewinder SWD (Proposed)
- Sil/Dev (Wristen/Fusselman) Isopach
- - - Precambrian Faults
- Basement Faults
- Roads
- Towns/Cities
- County Boundaries, NM



Isopach, Faults and Well Location



Isopach, Faults and Well Location



Legend

- ★ Sidewinder SWD (Proposed)
- Upper Ordovician (Montoya) Isopach
- - - Precambrian Faults
- Basement Faults
- Roads
- Towns/Cities
- County Boundaries, NM



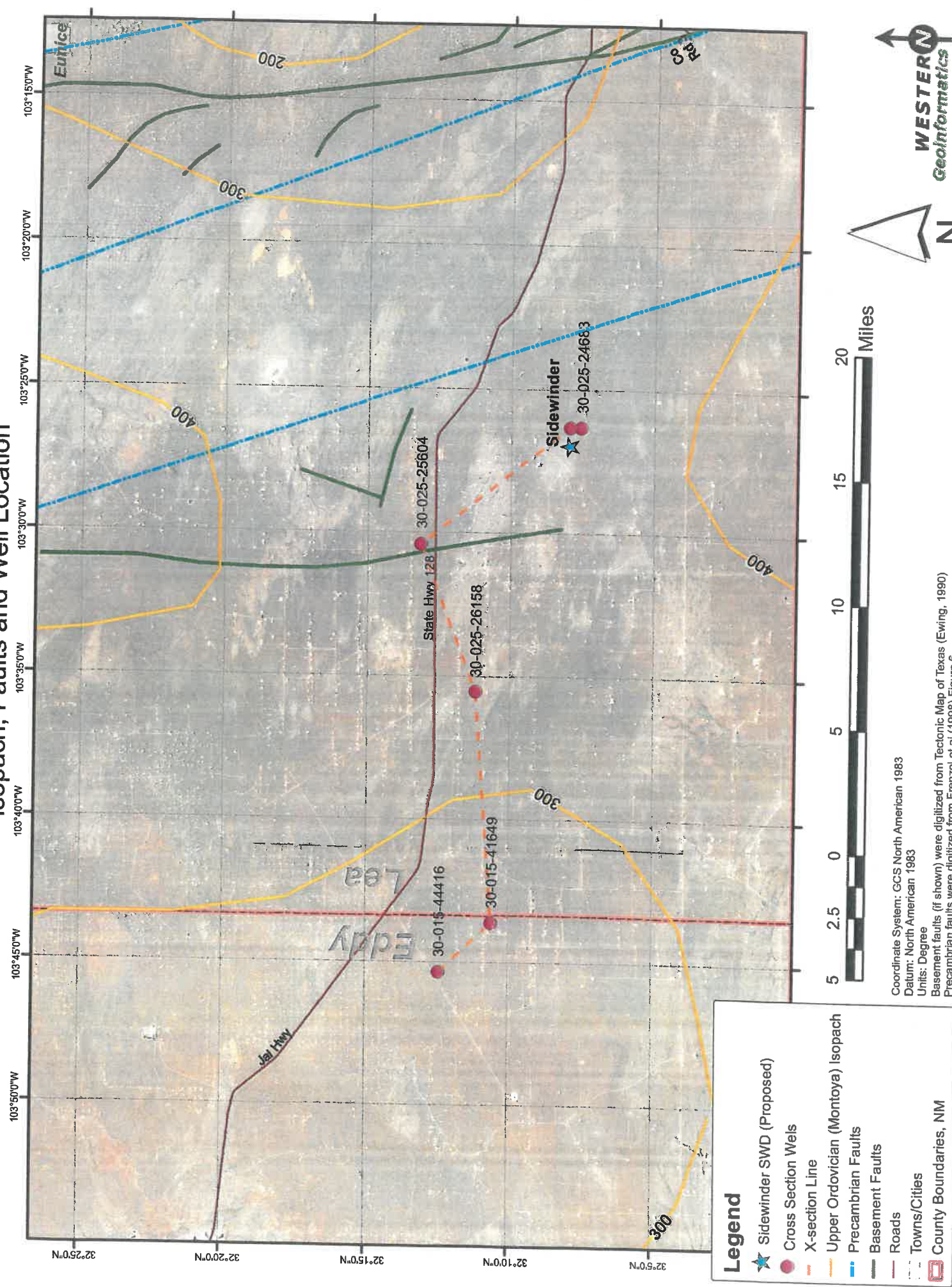
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Datum: North American 1983

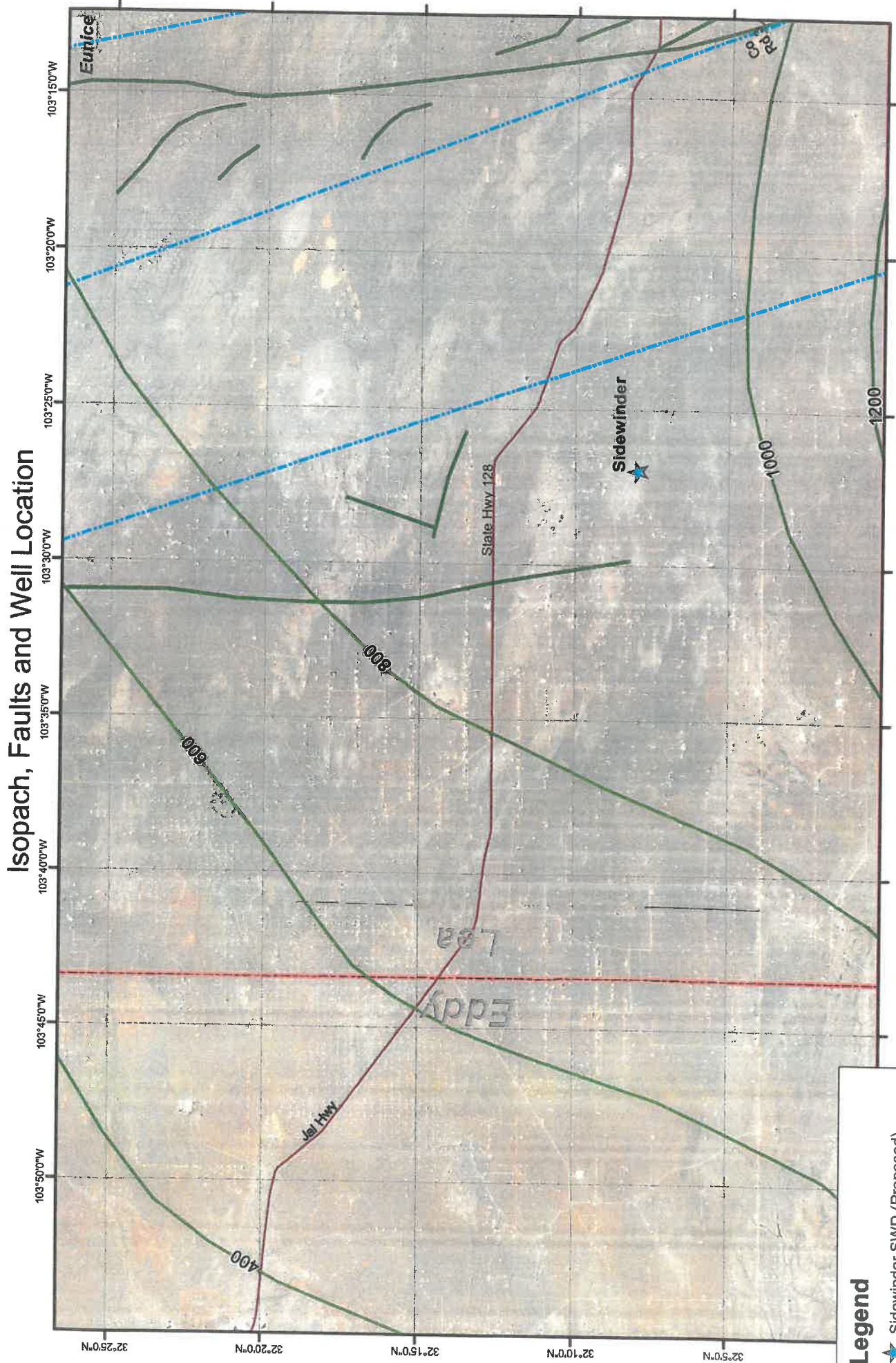
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Basement faults (if shown) were digitized from Tectonic Map of Texas (Ewing, 1990)
Precambrian faults were digitized from Frenzel et al (1998) Figure 6.

Isopach, Faults and Well Location



Isopach, Faults and Well Location



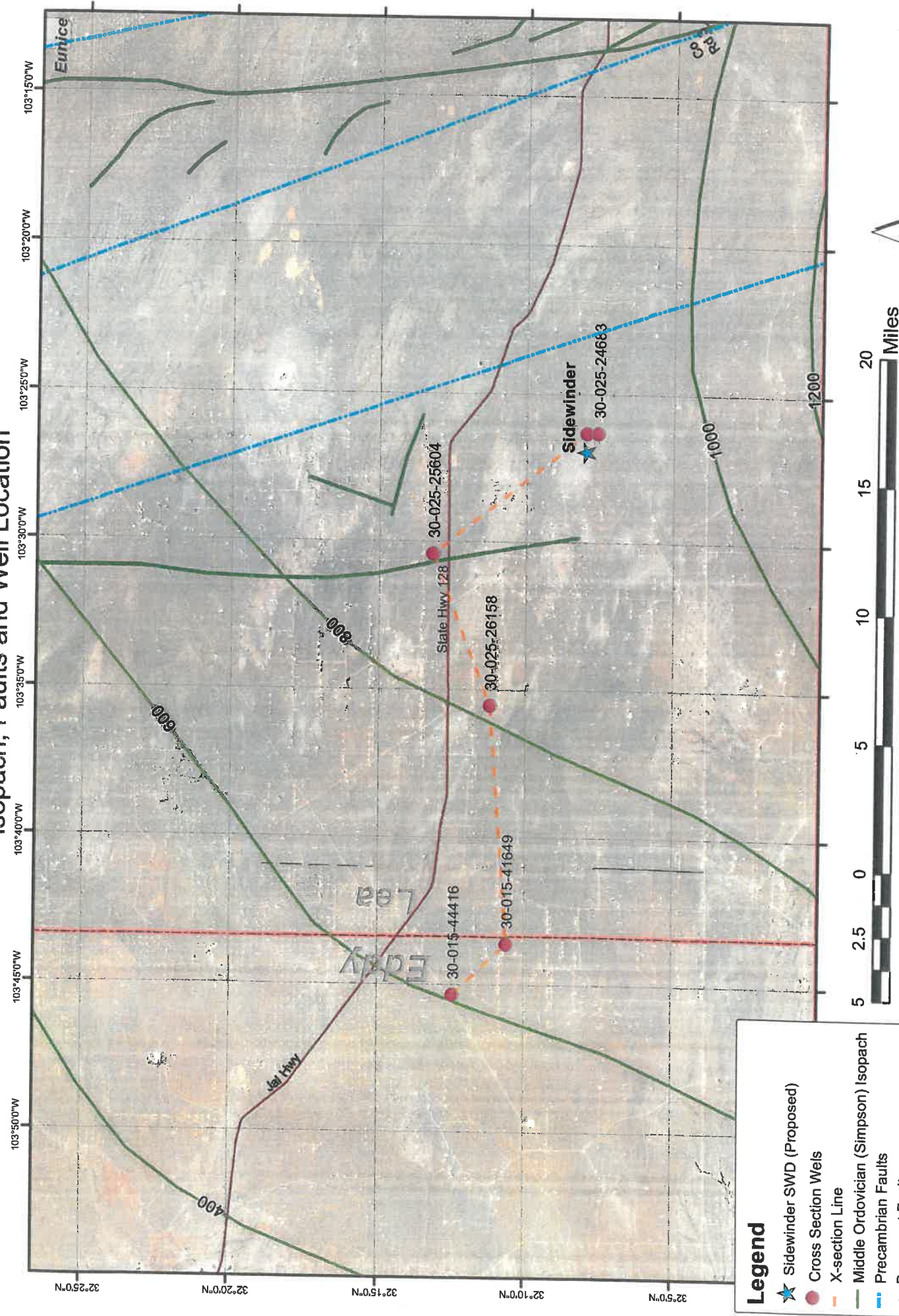
Legend

- ★ Sidewinder SWD (Proposed)
- Middle Ordovician (Simpson) Isopach
- - - Precambrian Faults
- Basement Faults
- Roads
- Towns/Cities
- County Boundaries, NM



Coordinate System: GCS North American 1983
 Datum: North American 1983
 Units: Degree
 Basement faults (if shown) were digitized from Tectonic Map of Texas (Ewing, 1990)
 Precambrian faults were digitized from Frenzel et al (1998) Figure 6.

Isopach, Faults and Well Location



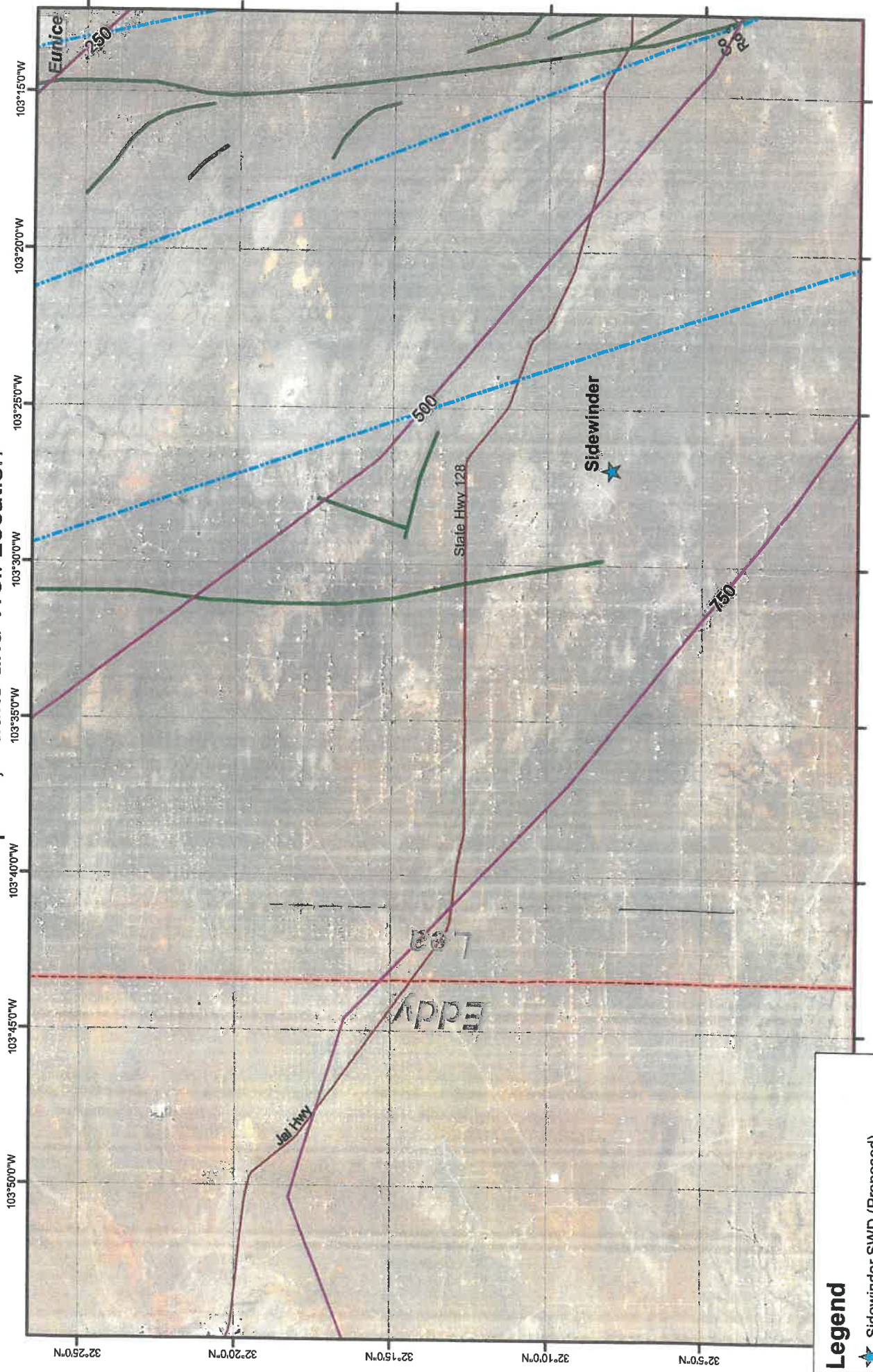
Legend

- Sidewinder SWD (Proposed)
- Cross Section Wells
- X-section Line
- Middle Ordovician (Simpson) Isopach
- Precambrian Faults
- Basement Faults
- Roads
- Towns/Cities
- County Boundaries, NM

Coordinate System: GCS North American 1983
Datum: North American 1983
Units: Degree

Basement faults (if shown) were digitized from Tectonic Map of Texas (Ewing, 1990)
Precambrian faults were digitized from Frenzel et al (1998) Figure 6

Isopach, Faults and Well Location



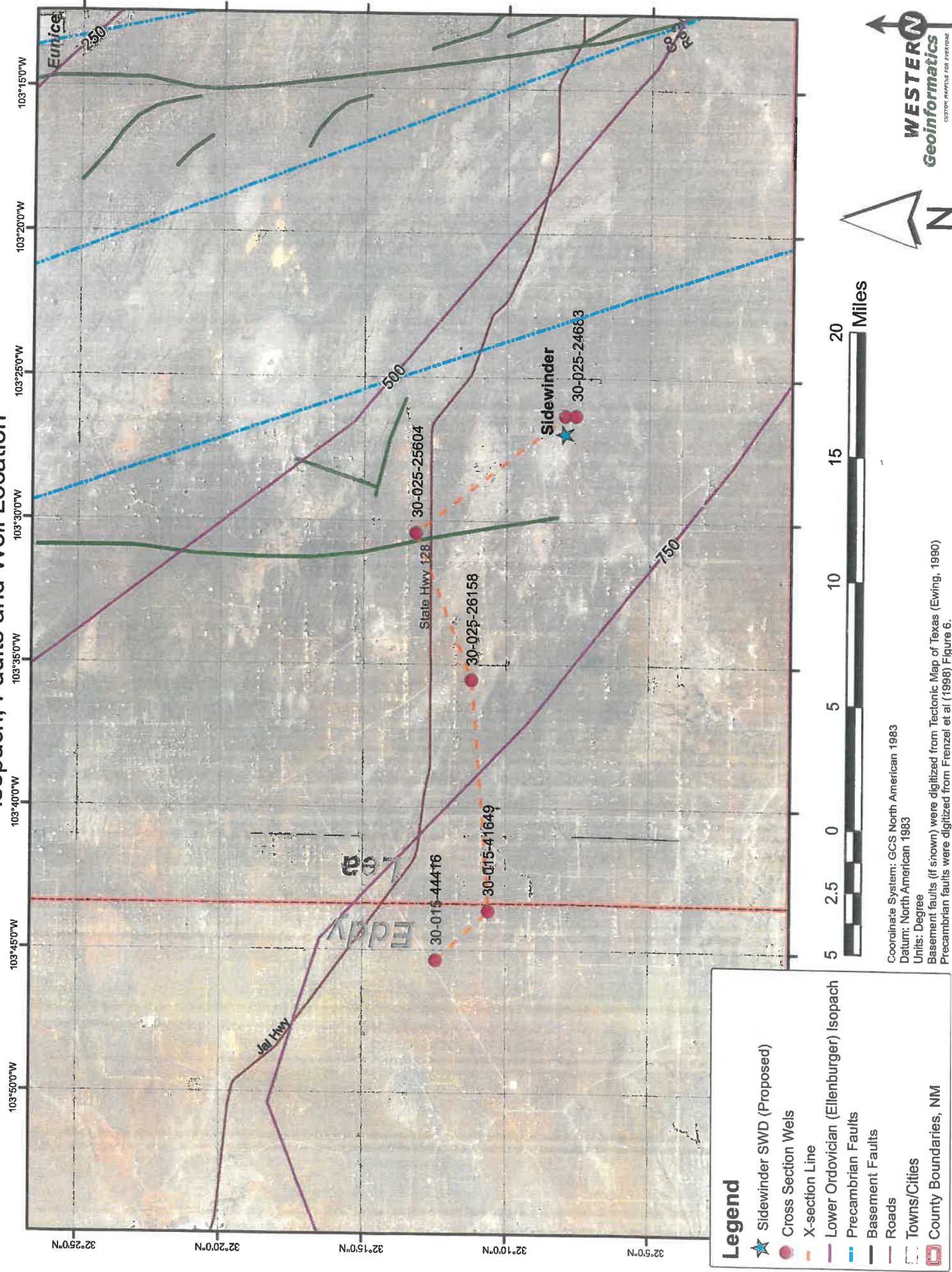
Legend

- Sidewinder SWD (Proposed)
- Lower Ordovician (Ellenburger) Isopach
- Precambrian Faults
- Basement Faults
- Roads
- Towns/Cities
- County Boundaries, NM

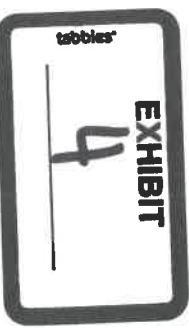


Coordinate System: GCS North American 1983
 Datum: North American 1983
 Units: Degree
 Basement faults (if shown) were digitized from Tectonic Map of Texas (Ewing, 1990)
 Precambrian faults were digitized from Frenzel et al (1998) Figure 6.

Isopach, Faults and Well Location



Southwest



Seismic Catalog Analysis Within 50 km of Sidewinder SWD Well

Prepared for NGL-Permian
by
GeoEnergy Monitoring Systems
February 21, 2019

Analysis is based on NMT seismic catalogs, unpublished catalogs and USGS catalogs for the time period 2010-2017 selecting events within 50 km of the Striker 2 SWD well. Additionally, seismic monitoring through January 31, 2019 from the three NGL seismic stations installed at Striker 2, Striker 3 and Striker 6 SWD wells on September 6, 2018.

Striker Two, Sand Dunes well, Lat/Long: 32.2072820/-103.7557370

Striker Three, Gossett well, Lat/Long: 32.2551110/-104.0868610

Striker Six, Madera well, Lat/Long: 32.2091150/-103.5359570

Figure 1 shows seismic station locations for three wells (blue pushpins) with estimated detection levels for M 1.0 (green circles) and M 1.5 (red circles) along with NGL-Permian stations (yellow pushpins). **Figure 2** shows seismicity listed in Table 1 shown as red circles and additional regional stations from TexNet and NMT (green pushpins). These regional stations are used along with the 3 Striker SWD seismic stations for regional monitoring.

The USGS reports only two events in the vicinity since 2010. New Mexico Tech runs a seismic network (SC) north of the wells for the DOE Waste Isolation Plant (only short-period vertical components). There are a total of seven seismic events in this time period ranging in magnitude from 1.0 to 3.1. Since the seismic deployment, there have been six event detections and having preliminary locations using available regional data (**Figure 3**). Due to the small magnitudes, the signal-to-noise levels are low so the locations have large uncertainty and there is little constraint on depth.

Table 1: Seismicity Within 50 km of Striker SWD Wells 2010-2017

Date	Origin Time GMT	Latitude	Longitude	Depth (km)	Magnitude
20111227	23:10:37	32.37	-103.95	NaN	1.6
20120318	10:57:22	32.281	-103.892	5.0	3.1
20170211	14:34:27	32.29	-103.92	NaN	1.5
20170302	11:38:53	32.37	-103.88	NaN	1.7
20170325	22:46:01	32.13	-103.77	NaN	1
20170503	17:47:21	32.082	-103.023	5.0	2.6
20170814	01:09:56	32.39	-103.56	NaN	1.2

Table 2. New Mexico Area Reporting Period Seismicity (km units)

Date	Origin Time (GMT)	Lat	Long	Depth	Loc Error	M	(+/-)
09/10/18	23:35:43.942	32.1793	-103.5283	1	5.58	1.25	0.23
09/14/18	06:57:47.614	32.1540	-103.5030	1	5.58	1.11	0.41
09/15/18	16:48:21.041	32.1630	-103.5211	1	5.37	1.50	0.00
10/13/18	22:07:22.259	32.0998	-103.4560	6	5.64	1.60	0.12
11/18/18	09:04:52.707	32.2526	-103.7853	5	3.77	1.75	0.20
12/09/18	18:51:00.805	32.3634	-103.8510	1	2.09	1.44	0.08
01/03/19	09:15:48.809	32.2761	-103.6732	6	5.64	1.63	0.00
01/03/18	23:05:33.122	32.2599	-103.7654	4	5.51	1.60	0.25
01/04/19	09:45:38.943	32.2346	-103.7798	4	4.34	1.98	0.38
01/09/19	10:18:54.389	32.2255	-103.7166	5	2.80	1.47	0.41
01/27/19	07:33:47.127	32.2219	-103.7220	5	3.53	1.72	0.31

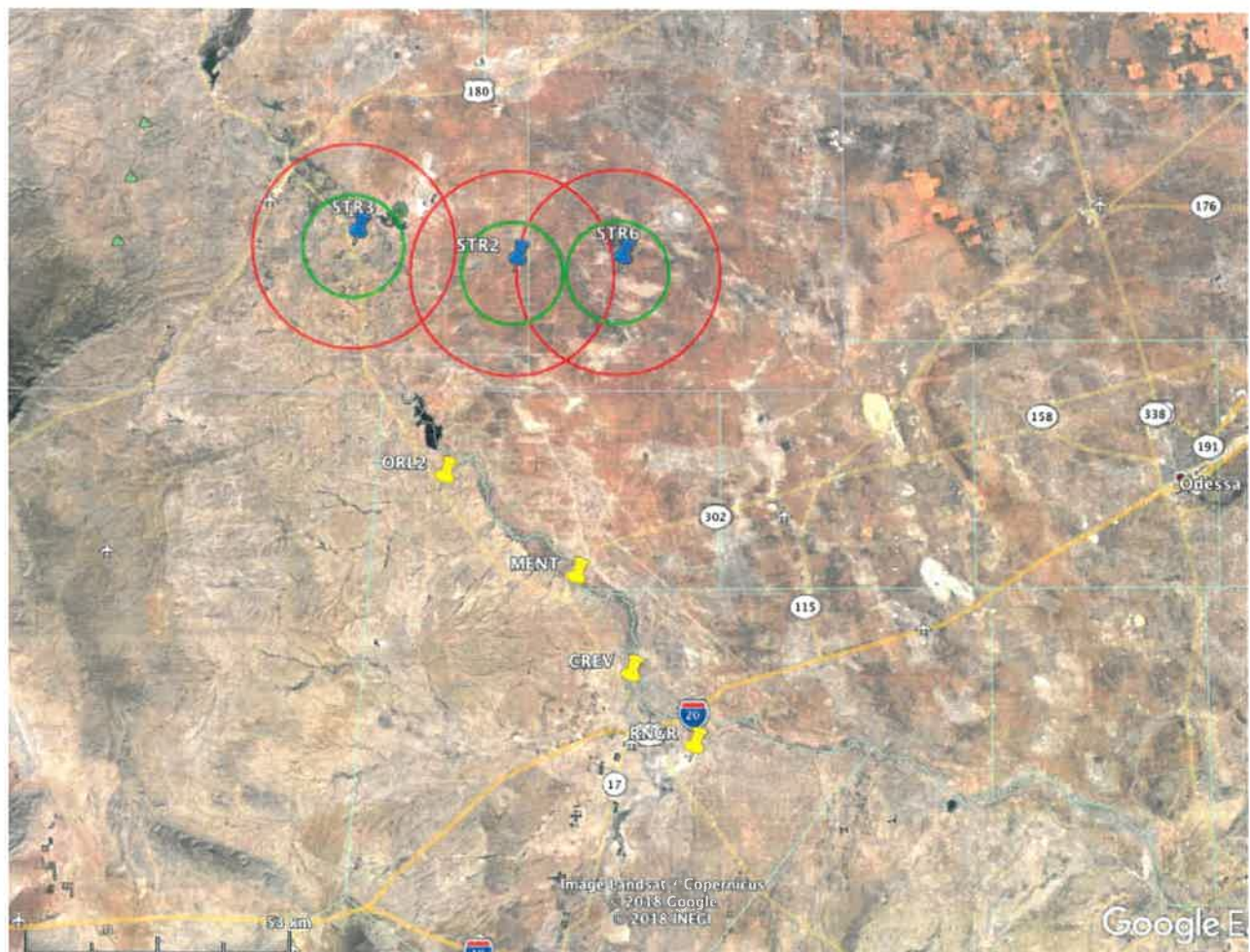


Figure 1. Striker SWD wells seismic station locations (blue push pins) and existing NGL-Permian seismic stations (yellow pushpins). Green and red circles around stations show approximate detection levels for ML 1.0 and 1.5, respectively.

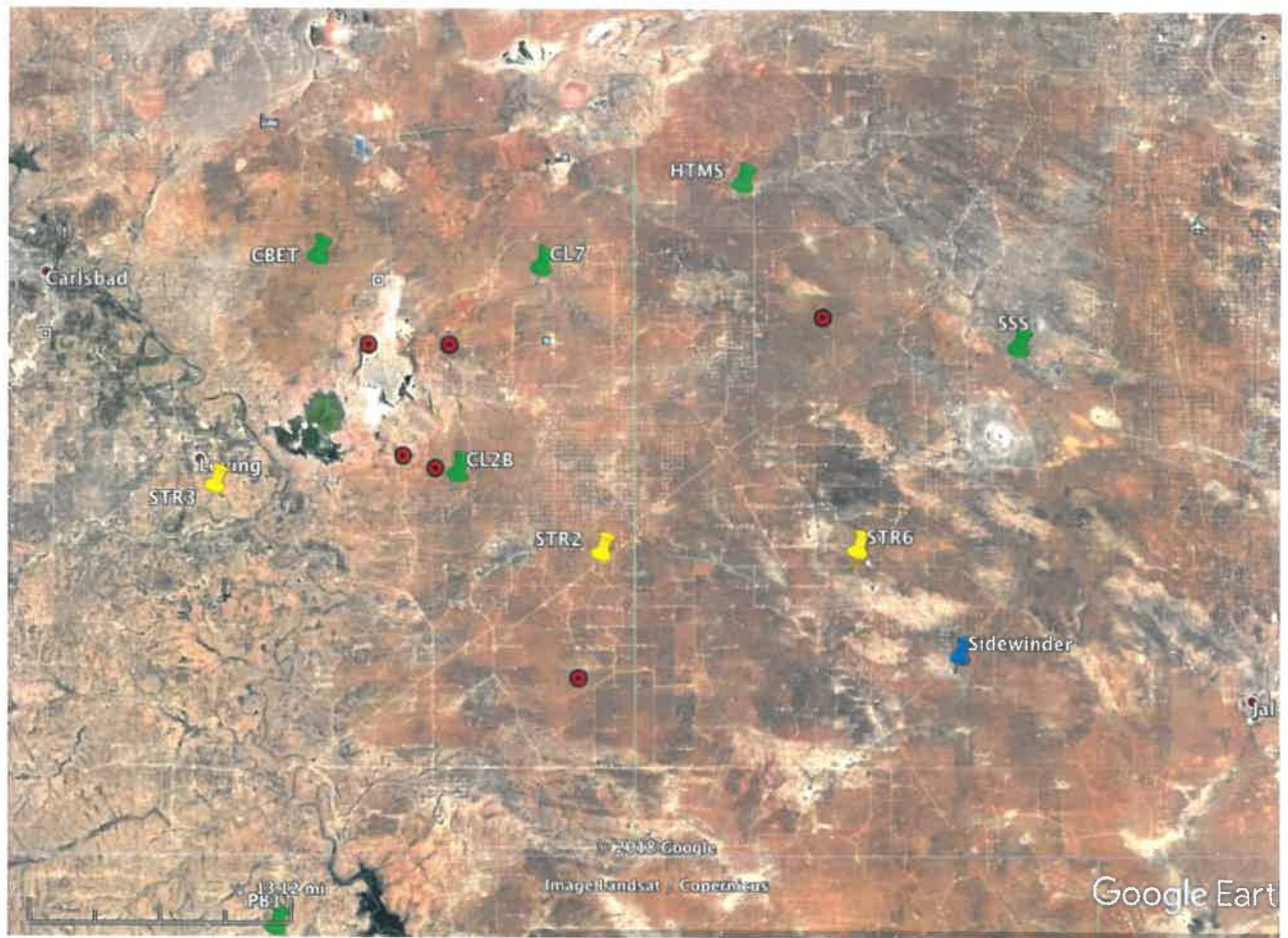


Figure 2. Striker SWD wells seismic station locations (yellow push pins) and existing NGL-Permian seismic stations (yellow pushpins). Other regional seismic stations run by TexNet and New Mexico Tech are shown as green pushpins. Historic seismicity listed in Table 1 shown as red circles. Sidewinder SWD well is shown as blue pushpin.

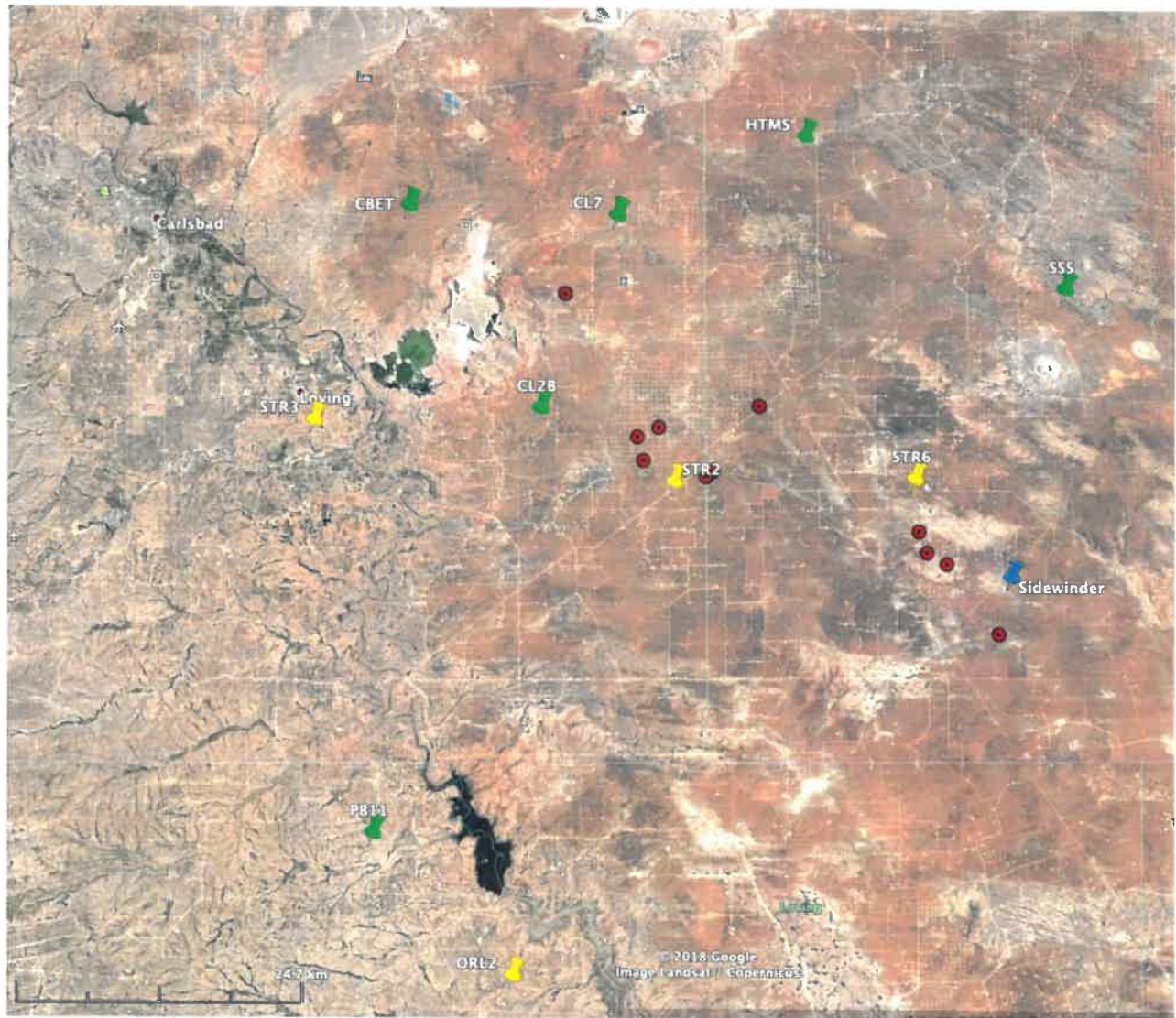
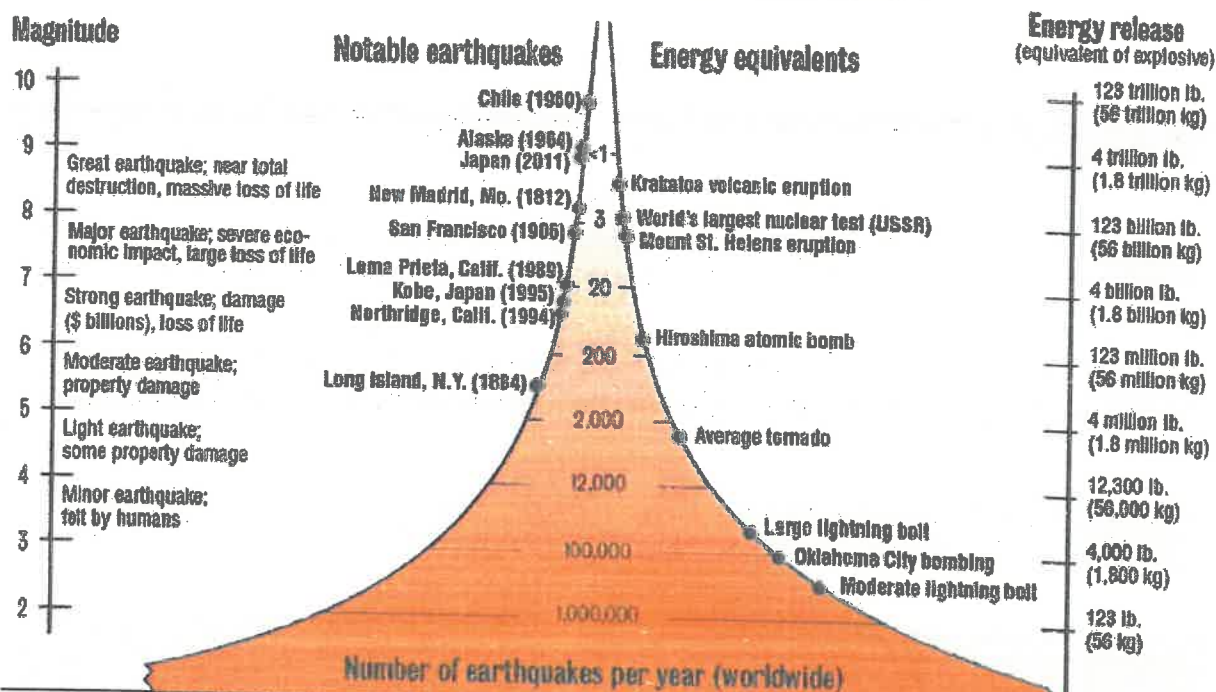


Figure 3. Seismic events in between September 6 and January 31, 2019 as red circles (Table 2). Sidewinder SWD well shown as blue pushpin. Seismic stations as yellow (NGL) or green (NMT and TexNet) pushpins.

Earthquake frequency and destructive power

The left side of the chart shows the magnitude of the earthquake and the right side represents the amount of high explosive required to produce the energy released by the earthquake. The middle of the chart shows the relative frequencies.



Source: U.S. Geological Survey

MCT

tabbles

EXHIBIT

1



Texas Registered Engineering Firm No F - 16381

February 19, 2019

RE: FSP Analysis Multiple NGL SWD well locations **(SIDEWINDER SWD)**
Lea County, New Mexico

FSP Analysis

The FSP software used for this analysis was jointly developed by Stanford University, Exxon Mobil and XTO Energy as a tool for estimating fault slip potential resulting from fluid injection.

I have reviewed the geology, seismic activity, injection history and future proposed injection in the Subject Area and I would conclude that the Proposed SWD wells do not pose a risk of increasing seismicity in the area. The primary risk reduction factor is that the faults are not optimally oriented to slip, and significant pressure increases would be necessary to initiate slip on the faults analyzed.

Fault slip potential (FSP) was analyzed in the area of review shown on **Exhibit No. 1**. The analysis integrates all of the proposed well locations as well as any existing injection wells in order to fully assess the pressure implications of injection in the area and the potential for slip along existing faults. Historical USGS earthquake events are denoted by the “blue” bulls-eye symbols. Recent low magnitude events recorded on the NGL seismic network are denoted by the “magenta” bulls-eye symbols.

Exhibit No. 2 shows the FSP input parameters for the local stress, average reservoir depth, pressure gradients and reservoir characteristics. Depths and reservoir characteristics were derived from nearby well logs and stress values were derived from the Lund Snee and Zoback (2018) paper related to Stress in the Permian Basin.

Exhibit No. 3 shows the location of existing wells and locations of the Proposed SWD wells relative to the faults documented in this area. The faults are sourced from the Texas Bureau of Economic Geology and these are also the fault traces shown in the referenced Snee/Zoback paper (Figure 3 in the



paper) and shown as **Exhibit No. 4** in my report. The Snee/Zoback paper only considers fault orientation relative to the stress orientation in determination of fault slip potential. Based on their limited analysis of the area they concluded the faults have low slip potential based on orientation/azimuth. My analysis further incorporates the injection history and future injection projections and the injection reservoir characteristics to fully assess the potential for slip along these faults. Existing wells were incorporated into the analysis using their injection volume histories and holding them constant into the future at their last reported monthly injection volume. The highlighted wells were modelled at 40,000 bbls/day and held constant for the life of the analysis (+25 years). The remaining proposed wells were all modelled at 30,000 bbls/day and held constant for the life of the analysis (+25 years).

The proposed wells are denoted in the model as follows: (**Exhibit No. 3**)

AR – Asroc SWD

AS – Aspen SWD

FA – Falcon SWD

HP – Harpoon SWD

JV – Javelin SWD

MC – McCloy Central SWD

MM – Minuteman SWD

MV – Maverick SWD

MW – McCloy West SWD

Mo – Moab SWD

PT - Patriot SWD

SR - Sparrow SWD

SW - Sidewinder SWD

TL – Telluride SWD

TB – Thunderbolt SWD

TD -Trident SWD

TH - Tomahawk SWD

VP - Viper SWD

Also included in the model are existing SWD injection wells as follows: (**Exhibit No. 3**)

MD - Madera SWD
S6 – Striker Six SWD
VD – Vaca Draw SWD

Exhibit No. 5 illustrates the geomechanical properties of the fault segments in the area of review. It should be noted that the FSP software only calculates a single pressure change along a fault (at the fault mid-point) so it is critical that faults are broken into multiple segments to get a true evaluation of the pressure increases associated with injection. **Exhibit No. 5** also shows the **direction** of max hor. stress as denoted by the grey arrows outside the circle on the stereonet in the lower right portion of this exhibit. Faults that align parallel or closer to this orientation will have the highest potential for slip or lowest ΔP to slip. Faults 15-17 have the highest potential for slip and Faults 1-14 have very low potential for slip. Segments F18 and F19 are hypothetical faults at the location of recent seismicity.

Exhibit No. 6 shows that the input stress and fault values were varied by +/-10% to allow for uncertainty in the input parameters. Even considering the variability of the inputs the model results show low probability for slip on the faults in the area of review. An increase of 750 psi at Fault 15 still only results in a 10% probability of fault slip.

Exhibit No. 7 takes a closer look at fault 15. The sensitivity analysis is highlighted in the lower right portion of this exhibit and shows that without any variability of inputs the ΔP needed to slip is 1,150 psi along this fault. A 10% decrease in the friction coefficient of the fault could lower ΔP needed to slip to 750 psi.

Exhibit No. 8 takes a closer look at fault 16. The sensitivity analysis is highlighted in the lower right portion of this exhibit and shows that without any variability of inputs the ΔP needed to slip is 1,530 psi along this fault. A 10% decrease in the friction coefficient of the fault could lower ΔP needed to slip to 1,100 psi. Fault 17 shows similar FSP values as fault 16.

Exhibit No. 9 takes a closer look at fault 14. The sensitivity analysis is highlighted in the lower right portion of this exhibit and shows that without any variability of inputs the ΔP needed to slip is +3,500 psi along this fault. A 10% change in the fault strike or SHmax azimuth could lower ΔP needed to slip to 1,850 psi.

Exhibit No. 10 takes a closer look at fault 1. The sensitivity analysis is highlighted in the lower right portion of this exhibit and shows that without any variability of inputs the ΔP needed to slip is +5,600 psi along this fault. A 10% change in the fault strike or SHmax azimuth could lower ΔP needed to slip to 3,050 psi. Faults 2-13 and 18 & 19 all exhibit similar high ΔP pressure values needed to initiate slip and thus fault slip potential is very low along all of the N-S trending faults.

In general, only Fault segment 15 shows any concern for fault slip potential. The following exhibits will track the pressure changes at the faults moving forward in time based upon the anticipated injection in the future from these proposed wells and the existing wells in the Subject Area.

Exhibit No. 11 illustrates the ΔP pressure in a “heat map” and shows ΔP pressure increases at the faults as of 1/1/2020. This map indicates ΔP pressure increases of 7 psi at F15 and 53 psi at F17.

Exhibit No. 12 illustrates the ΔP pressure in a “heat map” and shows ΔP pressure increases at the faults as of 1/1/2025. This map indicates ΔP pressure increases of 44 psi at F15 and 108 psi at F17.

Exhibit No. 13 illustrates the ΔP pressure in a “heat map” and shows ΔP pressure increases at the faults as of 1/1/2030. This map indicates ΔP pressure increases of 126 psi at F15 and 175psi at F17. Note that these pressures are still well below the pressures that could initiate fault slip. F9 shows a ΔP pressure increase of 1,331 psi however this fault requires extremely high pressures (+4,400 psi) to initiate fault slip.

Exhibit No. 14 illustrates the ΔP pressure in a “heat map” and shows ΔP pressure increases at the faults as of 1/1/2035. This map indicates ΔP pressure increases of 239psi at F15 and 264 psi at F17. Note that these pressures are still well below the pressures that could initiate fault slip. F9 shows a ΔP pressure increase of 1,716psi however this fault requires extremely high pressures (+4,400 psi) to initiate fault slip.

Exhibit No. 15 illustrates the ΔP pressure in a “heat map” and shows ΔP pressure increases at the faults as of 1/1/2040. This map indicates ΔP pressure increases of 363 psi at F15 and 364 psi at F17. Note

that these pressures are still well below the pressures that could initiate fault slip. F9 shows a ΔP pressure increase of 2,033 psi however this fault requires extremely high pressures (+4,400 psi) to initiate fault slip.

Exhibit No. 16 illustrates the ΔP pressure in a “heat map” and shows ΔP pressure increases at the faults as of 1/1/2045. This map indicates ΔP pressure increases of 489 psi at F15 and 469 psi at F17. Note that these pressures are still well below the pressures that could initiate fault slip. F9 shows a ΔP pressure increase of 2,304 psi however this fault requires extremely high pressures (+4,400 psi) to initiate fault slip.

The pressure analysis over time shows that pressure is expected to increase along the faults however pressures remain below critical levels. The table below shows the ΔP pressure increases needed to imitate fault slip along each fault segment and the corresponding ΔP pressure increases as of 2045:

Fault Segment	ΔP to slip (fixed inputs)	ΔP to slip (10% varied inputs)	ΔP at 2045
F1	5,600	3,050	43
F2	6,300	3,850	327
F3	7,000	4,750	872
F4	7,000	4,750	1,279
F5	6,850	4,400	1,481
F6	6,850	4,400	1,686
F7	6,850	4,400	2,015
F8	6,850	4,400	2,182
F9	6,850	4,400	2,304
F10	6,850	4,400	2,151
F11	6,850	4,400	2,103
F12	6,850	4,400	1,215
F13	6,990	4,750	292
F14	3,500	1,800	212
F15	1,150	750	489
F16	1,530	1,100	475
F17	1,530	1,100	469
F18	6,850	4,400	1,769
F19	6,850	4,400	643

This analysis demonstrates that there is a low likelihood of injection induced seismicity in the Subject Area.

Recently recorded Seismicity

NGL has recorded and located 4 events in the area on its local seismology network:

9/10/18 – 1.25 mag

9/14/18 – 1.11 mag

9/15/18 – 1.50 mag

10/13/18 – 1.60 mag

All of these events are below the magnitude of “felt” events and are so small that they are not detected on the USGS network. **Exhibit No. 17** shows minimal ΔP pressure increases as of 1/1/2019. In the area of the 4 seismic events there is no calculated pressure increase (0) as would be expected since the few injection wells have short injection histories and they are several miles from the events. Minimal ΔP pressure increases are noted in the area to the NE (24-39 psi) near the Madera SWD.

The seismicity is likely a poroelastic stress response due to the pressure reduction associated with recent production at Wolfcamp depths and also short-term increases in pressure associated with Frac-stimulations at these same depths. TexNet data, in the Texas portion of the Delaware Basin, appears to confirm that the seismicity is primarily focused within the overpressured section with some deeper responses in the basement.

The recent seismicity in the Pecos Townsite area of the Delaware Basin shows similarities to seismicity recorded in this region from 1975 to 1979. Between 1975 and 1979 a network of 12 seismograph stations was operated within the Permian Basin to assist in evaluating the seismic risk to a proposed radioactive waste disposal site in southeastern New Mexico. During the period of network operation over 2,000 events were recorded, and 1,300 events were located. During this same time, oil reservoirs were being developed in the overpressured formations primarily in the Wolfcamp. Spatial and temporal correlation between the earthquakes and oil field development in the overpressured Wolfcamp formation was noted by Doser et al. (1991). (paper titled; “The Not So Simple Relationship Between Seismicity and Oil Production in the Permian Basin, West Texas”) These same authors further concluded that the seismicity in the region correlated strongly with the overpressured system within the

Delaware Basin. (paper titled; "Distribution and Generation of the Overpressure System, Eastern Delaware Basin, Western Texas and Southern New Mexico")

The seismicity recorded from 1975 to 1979 was focused around the War-Wink Area in Ward County Texas. **Exhibit No. 18** shows the oil, water and gas production and SWD injection history in the War-Wink area. The period of increased seismicity occurred during a period of increased development in the Wolfcamp immediately overlying the overpressured section. This was at a time when there was no SWD injection in the area (purple curve). Since that time injection has steadily increased in the area with no additional seismicity reported in almost 40 years.

Exhibit No. 19 is a similar graph for the area around the Pecos Townsite in Reeves County, Texas. This area has also experienced a similar increase in seismicity that shows the same depth distribution that was observed at War-Wink. It should also be noted that seismicity is declining as production/extraction has peaked in the Pecos Townsite area.

What is unique about the War-Wink area and most of the Delaware Basin is the presence of a highly overpressured interval from the base of the Wolfcamp through the base of the Woodford Shale. This can be seen from the "Mud weight distribution plot" shown in **Exhibit No. 20**. This shows extremely high pore pressures sandwiched between normal pressures above and below.

Exhibit No. 21 is a similar graph for the Subject Area near the proposed SWD wells in Lea County, New Mexico. Deep injection in the area has been minimal and the FSP analysis shows that this area has not experienced any appreciable pressure increase associated with the SWD injection to date. Like War-Wink and Pecos this area also shows an overpressured section between the Wolfcamp and base of Woodford as depicted in **Exhibit No. 22**.

In my opinion the seismicity recorded and located in this area is of similar origin as the seismicity reported at War-Wink and Pecos and is related to the extraction of fluids from the formations immediately overlying the overpressured section.

Conclusion

The faults and fault trends in this area of review are not optimally oriented to slip. The orientation of the faults requires significant pressure changes ($\Delta P +1,000$ psi) based on the fixed input parameters and the ΔP increase at the most vulnerable fault only reaches 512 psi by 2045. This model assumes constant injection rates over the next +25 years which is not a typical scenario as SWD wells tend to decrease injection volumes over time as the well ages and disposal demand decreases in the area. If injection volumes are lower over time than the model represents, then the risk for fault slip is lowered also.

In the event seismicity should occur in the future, the wells closest to the faults (proposed and existing) should be the wells considered for modification or reduction of injection rates. At this time there is no evidence to support rate reduction for any of the existing or proposed wells.

Should you have any questions, please do not hesitate to call me at (512) 327-6930 or email me at todd.reynolds@ftiplattsparks.com.

Regards,

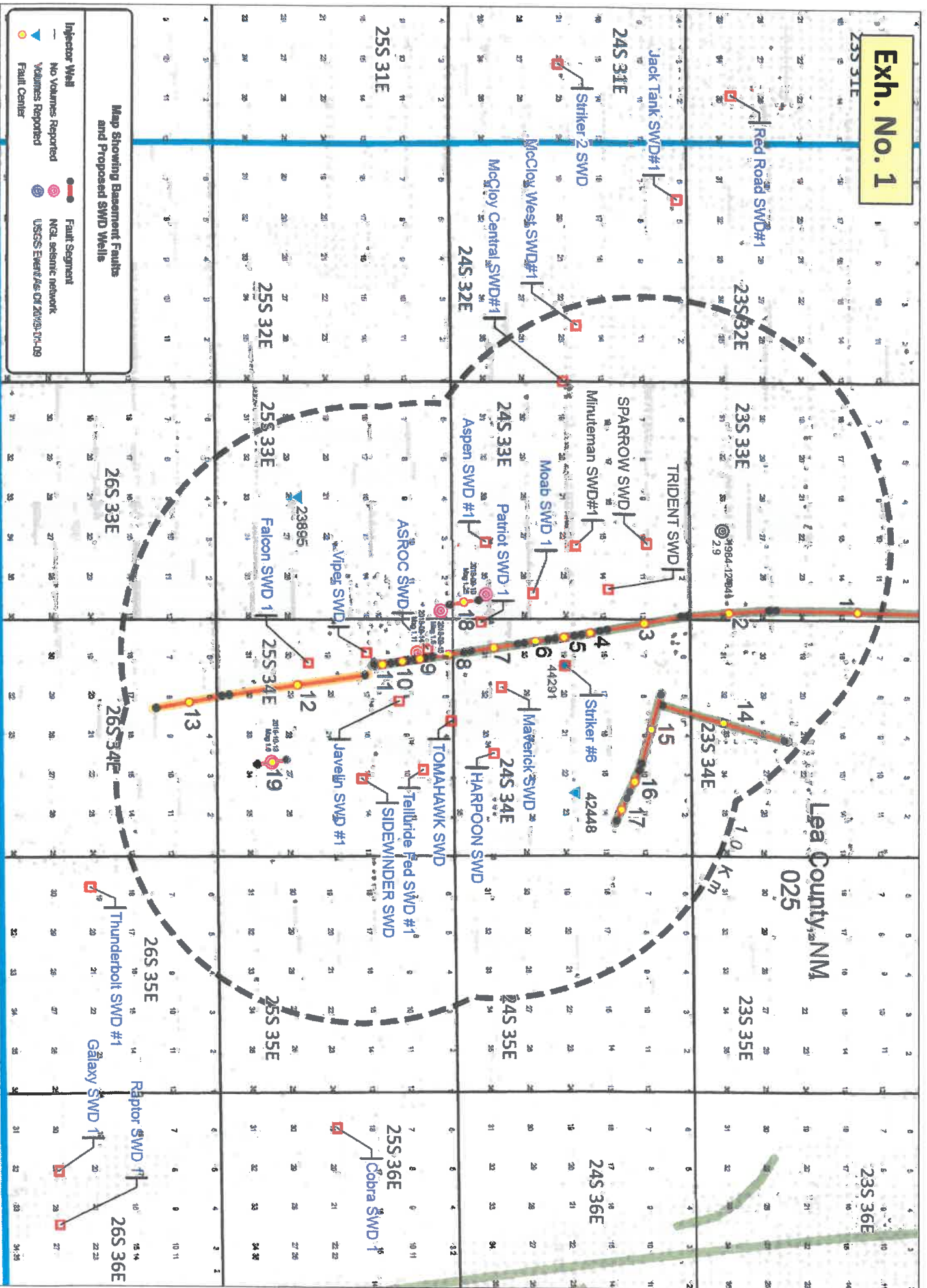
Todd W. Reynolds – Geologist/Geophysicist
Managing Director, Economics/FTI Platt Sparks



Todd W. Reynolds

FTI Platt Sparks
512.327.6930 office

Exh. No. 1



Exh. No. 2

FSP INPUT PARAMETERS

Stress Data

Vertical Stress Gradient [psi/ft] 1.1

Max Hor Stress Direction (deg N CW) 75

Reference Depth for Calculations [ft] 16900

Initial Res Pressure Gradient [psi/ft] 0.46

Min Horiz Stress Gradient [psi/ft] 0.06517

Max Horiz Stress Gradient [psi/ft] 0.92807

A Phi Parameter 0.6

Reference Friction Coefficient mu 0.6

OK

Hydrology Data

Enter Hydrologic Parameters

Load External Hydrologic Model

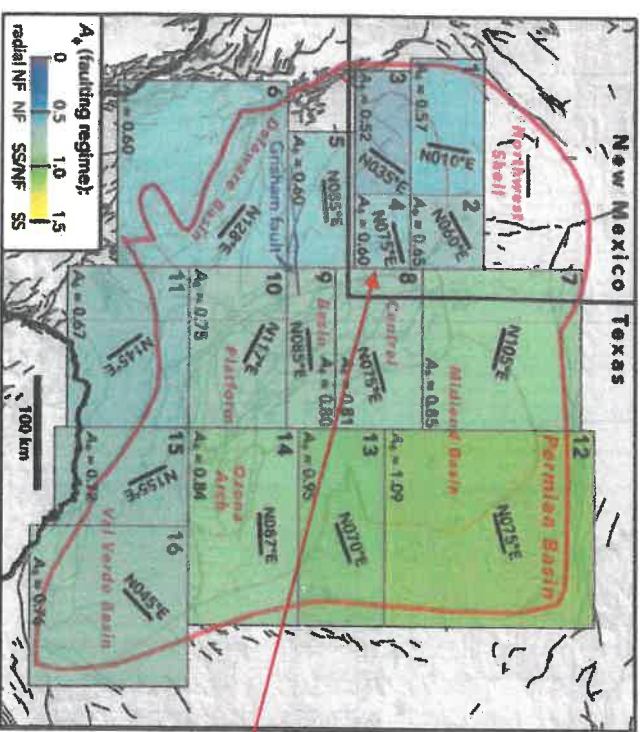
Aquifer Thickness [m] 900

Porosity (%) 4

Permeability [mD] 20

Fault dips assumed – 80 deg

OK



Input Parameter Comments

Hydrologic Parameters – Derived from Striker 6 SWD #2 logs

Stress Gradients – Derived from A Phi parameter from Snee/Zoback paper (.60)

Max Hor. Stress Direction - Derived from Snee/Zoback paper (N75E)

Area of Review

Low slip potential
based on fault
orientation
(green faults)

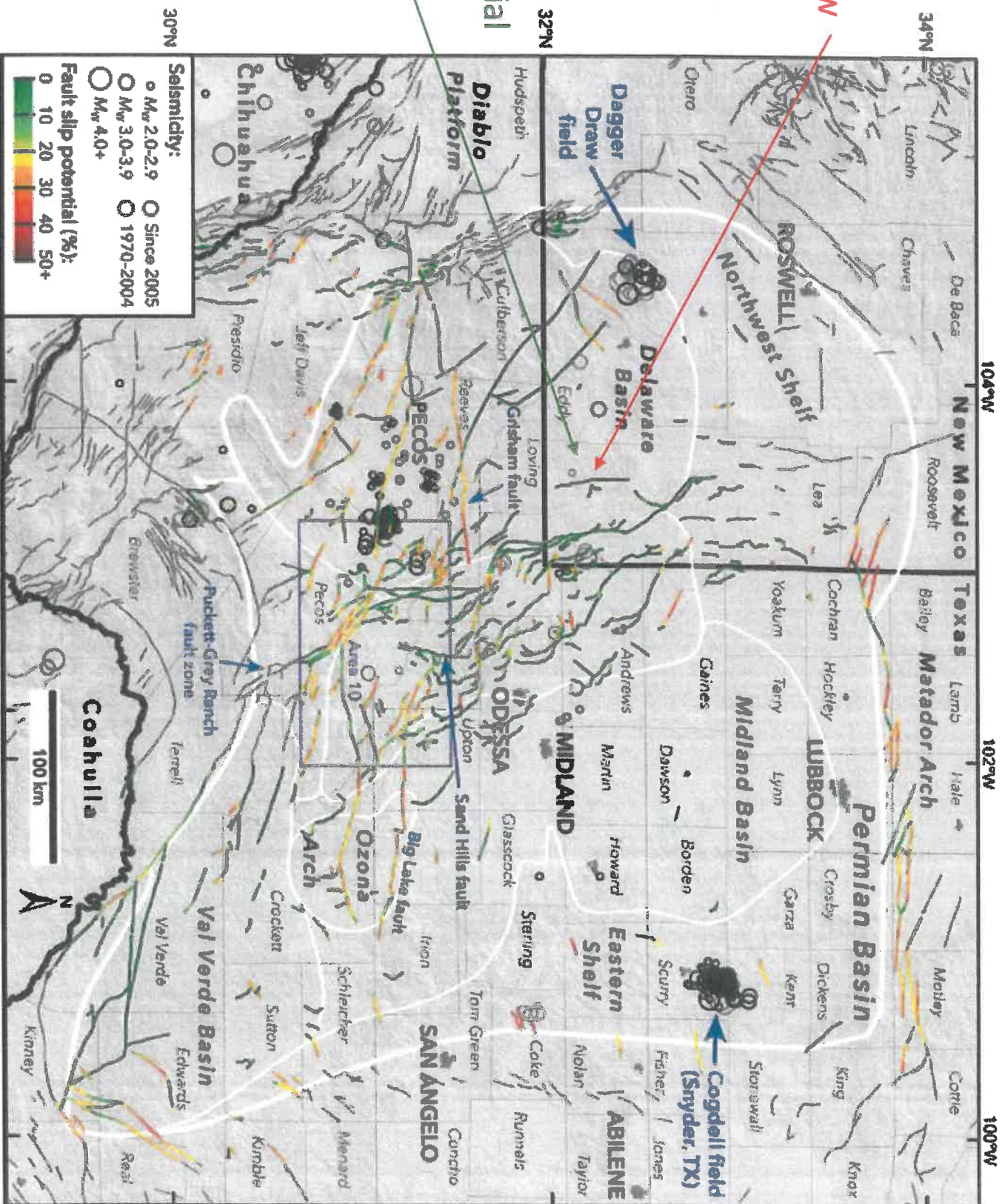


Figure 3. Results of our probabilistic FSP analysis across the Permian Basin. Data sources are as in Figures 1 and 2.

Fault Slip Potential

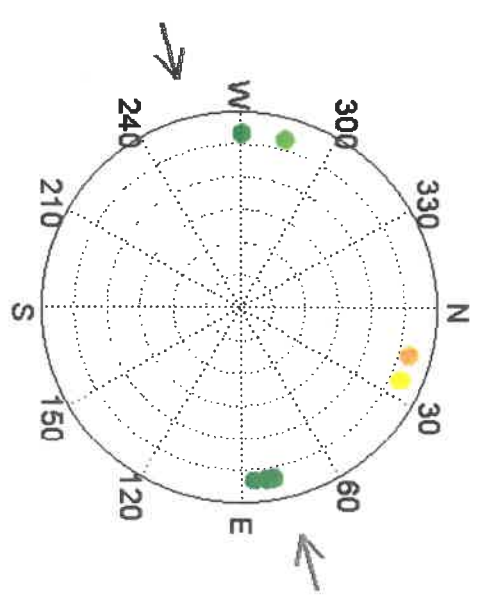
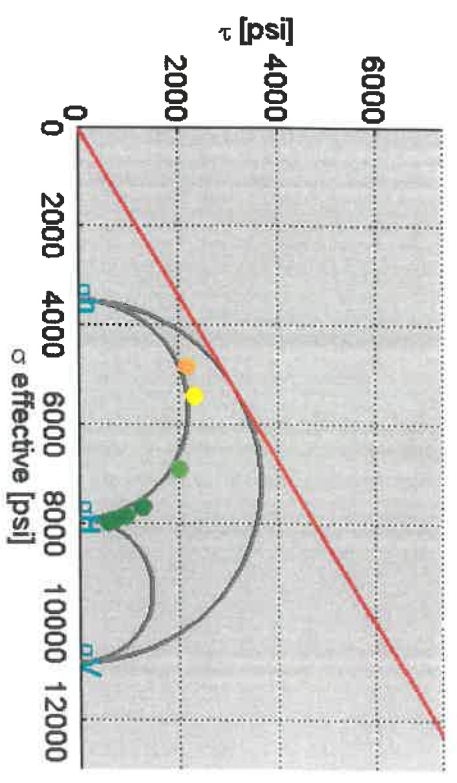
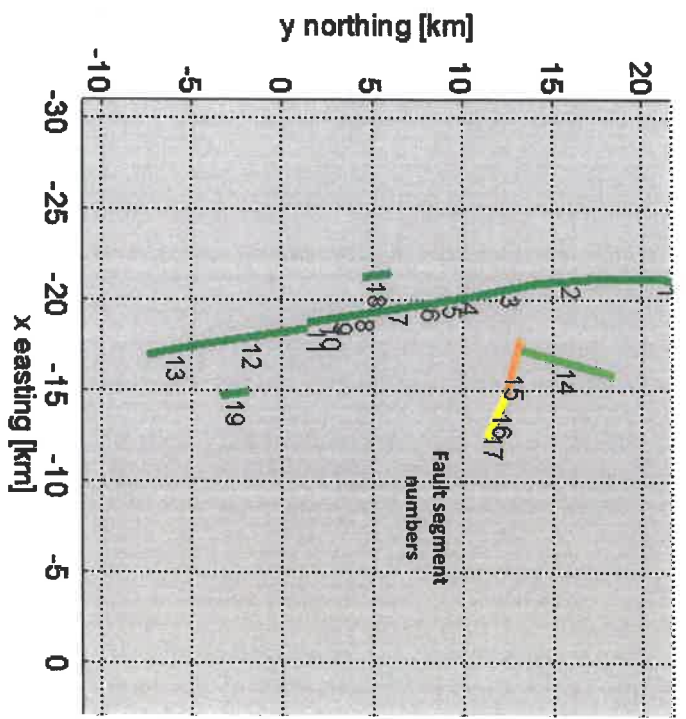
Fault Selector:

- All Faults
- Fault #1
- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10
- Fault #11
- Fault #12
- Fault #13
- Fault #14
- Fault #15
- Fault #16
- Fault #17
- Fault #18
- Fault #19

Calculate

- MODEL INPUTS
- GEOMECHANICS
- PROB. GEOMECH
- HYDROLOGY
- PROB. HYDRO
- INTEGRATED

a) Fault Number ▼ Help



Stereonet Show: Fault Normals ▼

Fault Slip Potential

Fault Selector:

- All Faults
- Fault #1
- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10
- Fault #11
- Fault #12
- Fault #13
- Fault #14
- Fault #15
- Fault #16
- Fault #17
- Fault #18
- Fault #19

Calculate

MODEL INPUTS

GEOMECHANICS

PROB. GEOM...

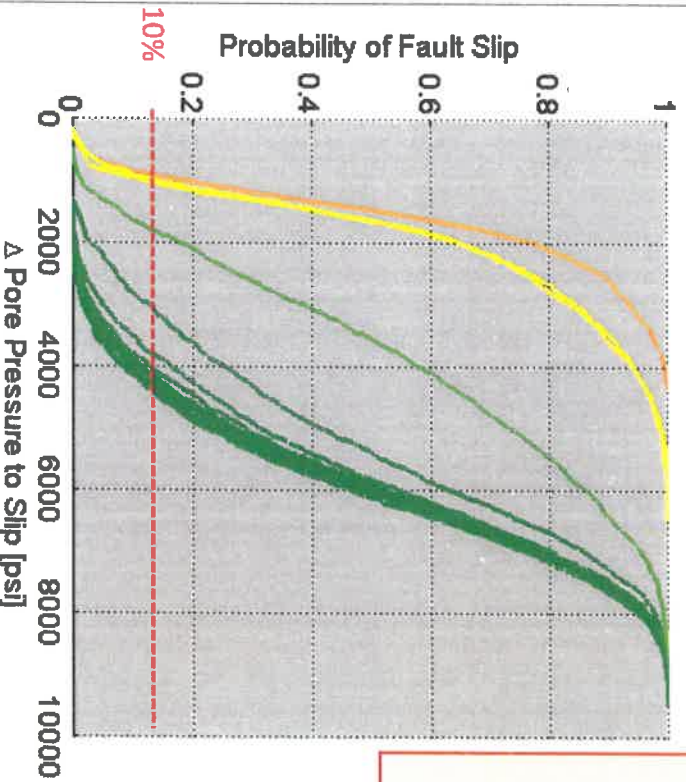
HYDROLOGY

PROB. HYDRO

INTEGRATED

Load Distributions

Run Analysis

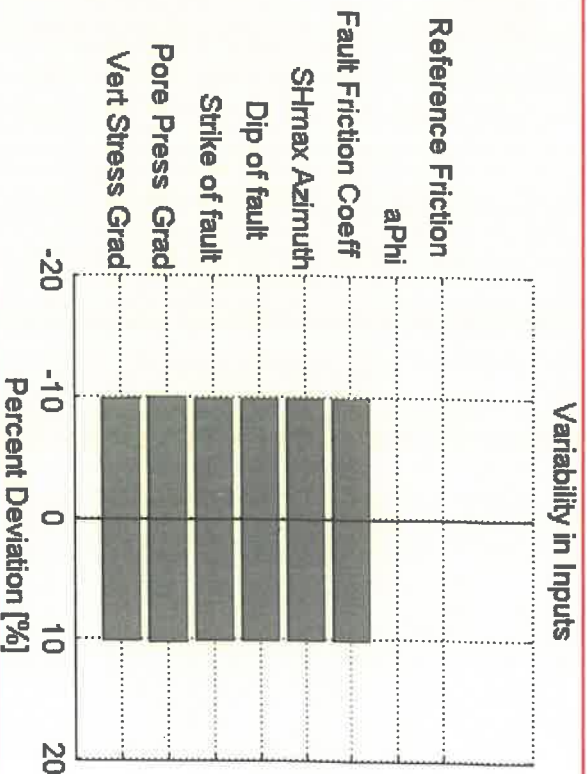


Max Delta PP [psij]

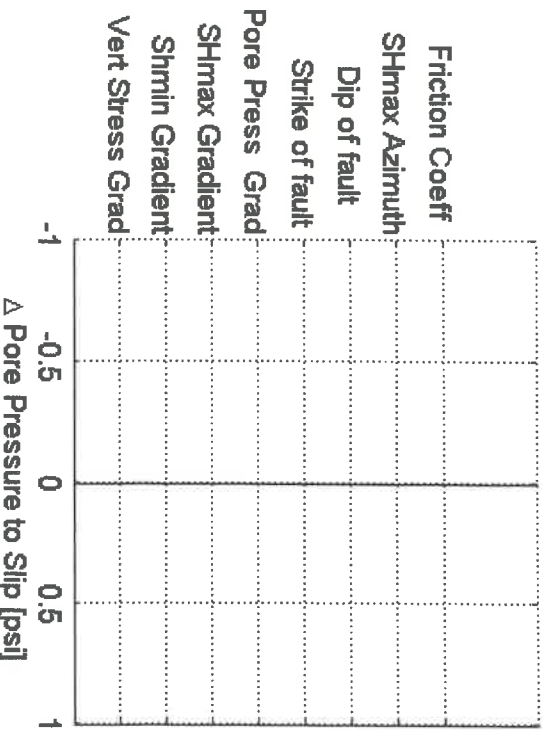
10000

Export CDF data

Show Input Distributions



Choose a fault to see sensitivity analysis



Fault Slip Potential

Fault Selector:

All Faults:
 Fault #1
 Fault #2
 Fault #3
 Fault #4
 Fault #5
 Fault #6
 Fault #7
 Fault #8
 Fault #9
 Fault #10
 Fault #11
 Fault #12
 Fault #13
 Fault #14
 Fault #15
 Fault #16
 Fault #17

Calculate

MODEL INPUTS

GEOMECHANICS

PROB. GEOM...

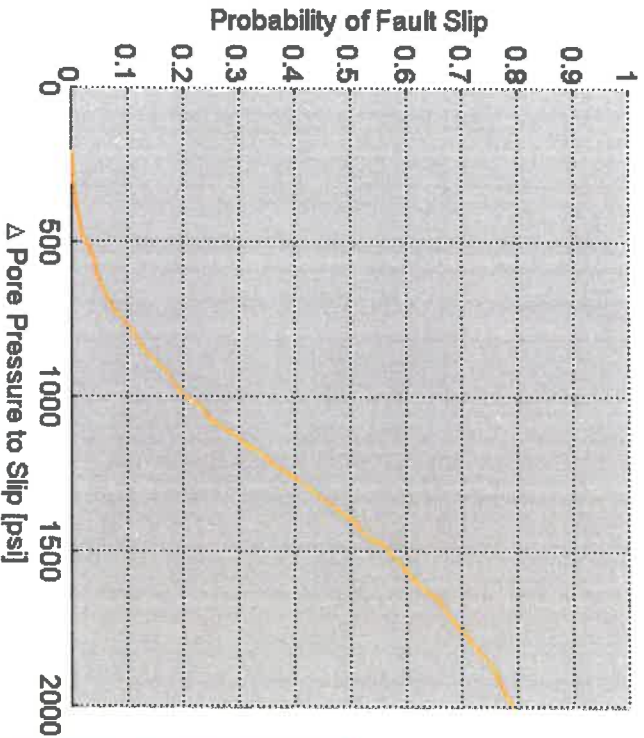
HYDROLOGY

PROB. HYDRO

INTEGRATED

Load Distributions

Run Analysis



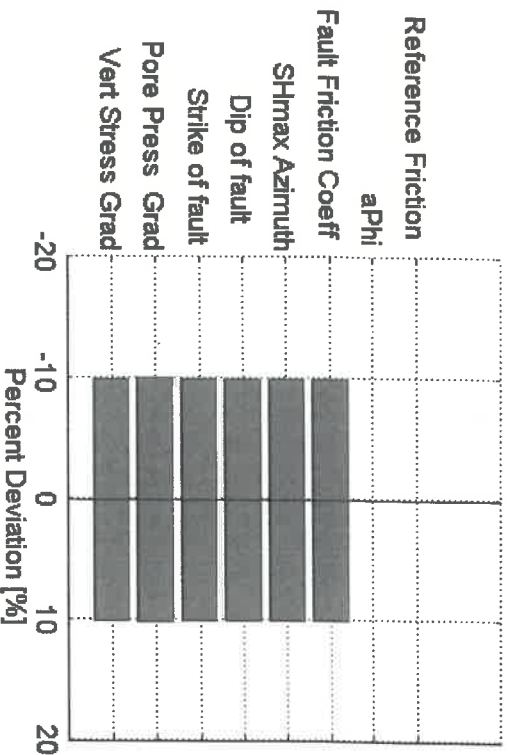
Max Delta PP [psf]:

2000

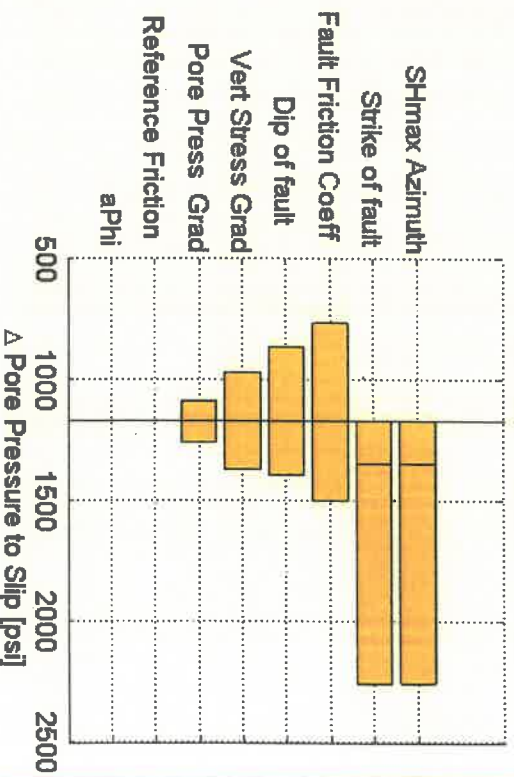
Export CDF data

Show Input Distributions

Variability in Inputs



Sensitivity Analysis for Fault #15



Fault Slip Potential

Fault Selector

- All Faults
- Fault #1
- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10
- Fault #11
- Fault #12
- Fault #13
- Fault #14
- Fault #15
- Fault #16**
- Fault #17

Calculate

MODEL INPUTS

GEOMECHANICS

PROB. GEOM...

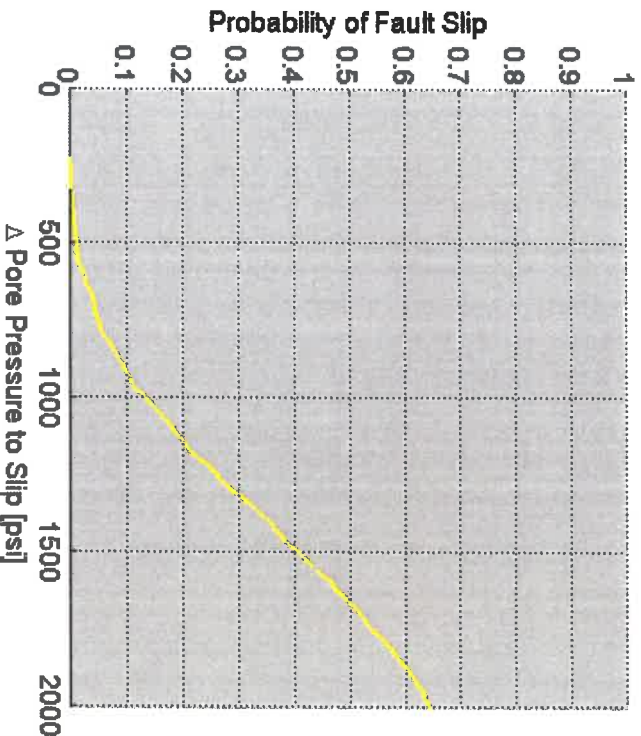
HYDROLOGY

PROB. HYDRO

INTEGRATED

Load Distributions

Run Analysis



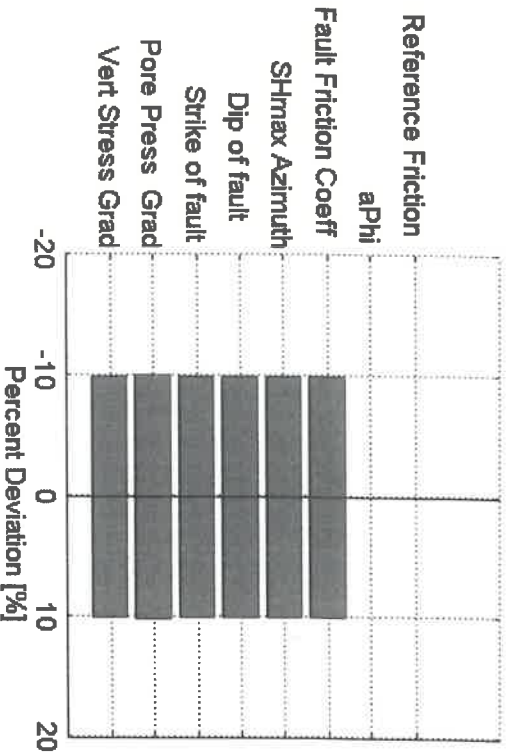
Max Delta PP [psf]:

2000

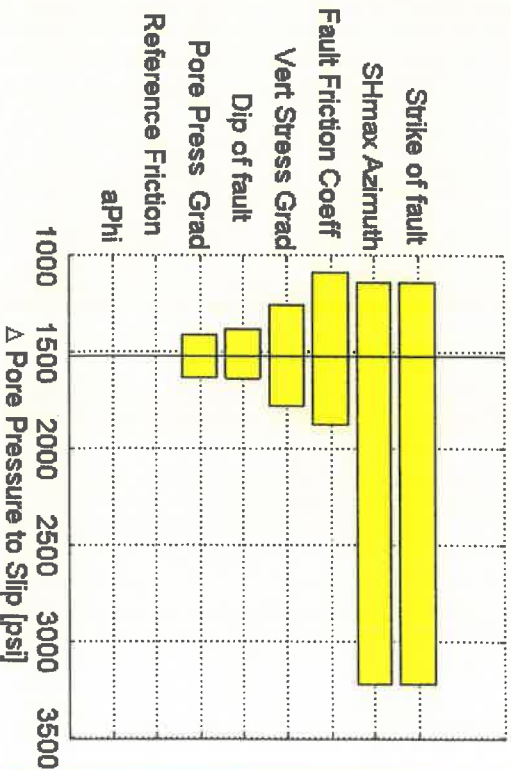
Export CDF data

Show Input Distributions

Variability in Inputs



Sensitivity Analysis for Fault #16



Fault Slip Potential

Fault Selector:

- All Faults
- Fault #1
- Fault #2
- Fault #3
- Fault #4
- Fault #5
- Fault #6
- Fault #7
- Fault #8
- Fault #9
- Fault #10
- Fault #11
- Fault #12
- Fault #13
- Fault #14
- Fault #15
- Fault #16
- Fault #17

Calculate

MODEL INPUTS

GEOMECHANICS

PROB. GEOM...

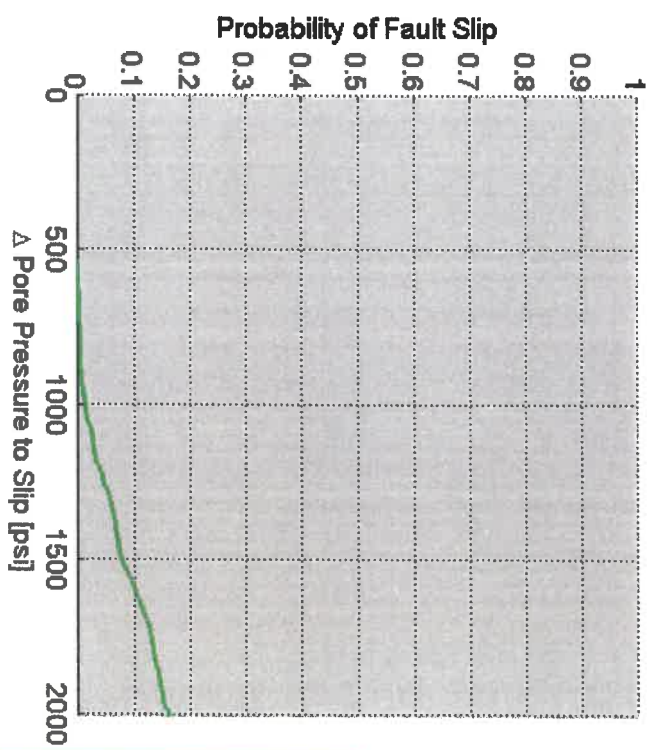
HYDROLOGY

PROB. HYDRO

INTEGRATED

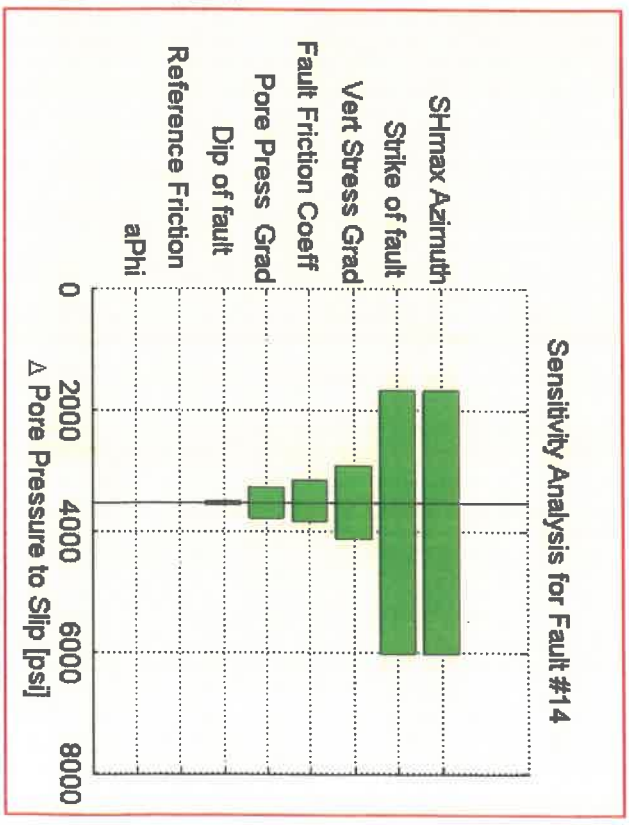
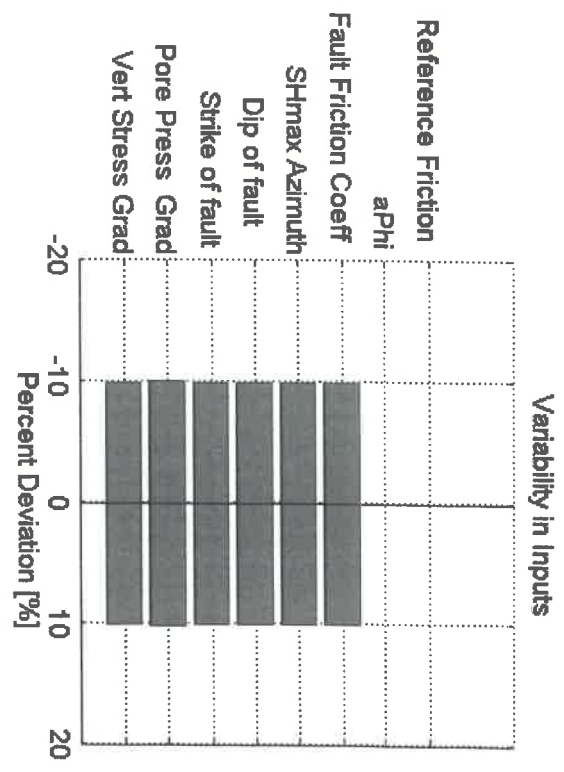
Load Distributions

Run Analysis



Export CDF data

Show Input Distributions



Fault Slip Potential

Fault Selector:

- All Faults
 Fault #1
 Fault #2
 Fault #3
 Fault #4
 Fault #5
 Fault #6
 Fault #7
 Fault #8
 Fault #9
 Fault #10
 Fault #11
 Fault #12
 Fault #13
 Fault #14
 Fault #15
 Fault #16
 Fault #17

Calculate

MODEL INPUTS

GEOMECHANICS

PROB. GEOM...

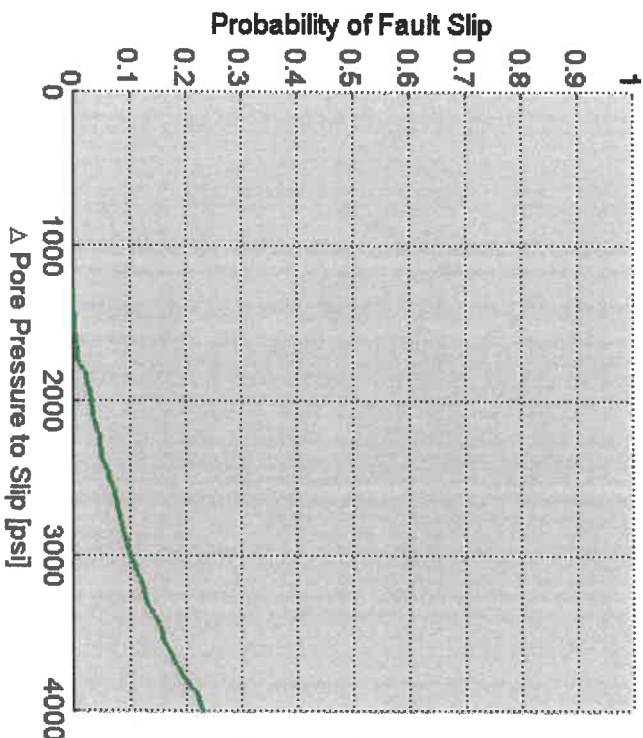
HYDROLOGY

PROB. HYDRO

INTEGRATED

Load Distributions

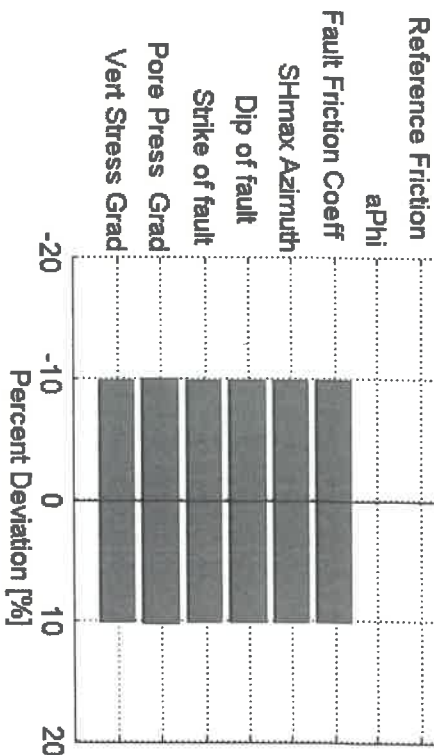
Run Analysis



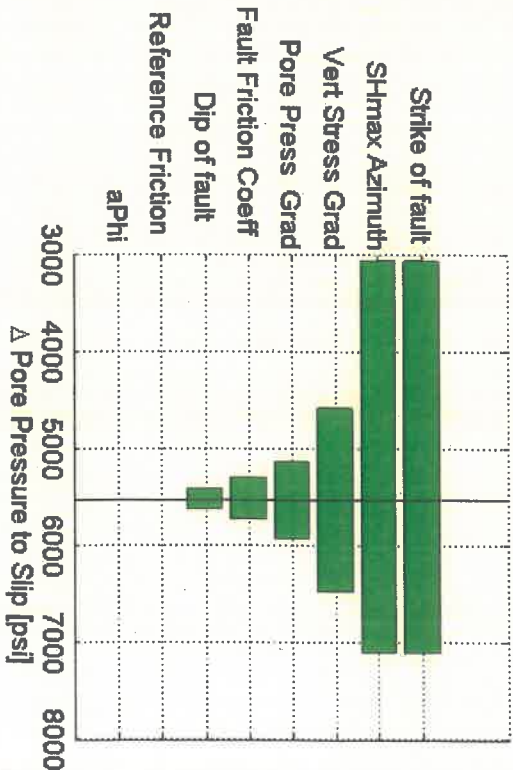
Export CDF data

Show Input Distributions

Variability in Inputs



Sensitivity Analysis for Fault #1



Fault Slip Potential

Fault Selector:

All Faults

Fault #1	0.00	FSP
Fault #2	0.00	FSP
Fault #3	0.00	FSP
Fault #4	0.00	FSP
Fault #5	0.00	FSP
Fault #6	0.00	FSP
Fault #7	0.00	FSP
Fault #8	0.00	FSP
Fault #9	0.00	FSP
Fault #10	0.00	FSP
Fault #11	0.00	FSP
Fault #12	0.00	FSP
Fault #13	0.00	FSP
Fault #14	0.00	FSP
Fault #15	0.00	FSP
Fault #16	0.00	FSP
Fault #17	0.00	FSP
Fault #18	0.00	FSP
Fault #19	0.00	FSP

Calculate

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

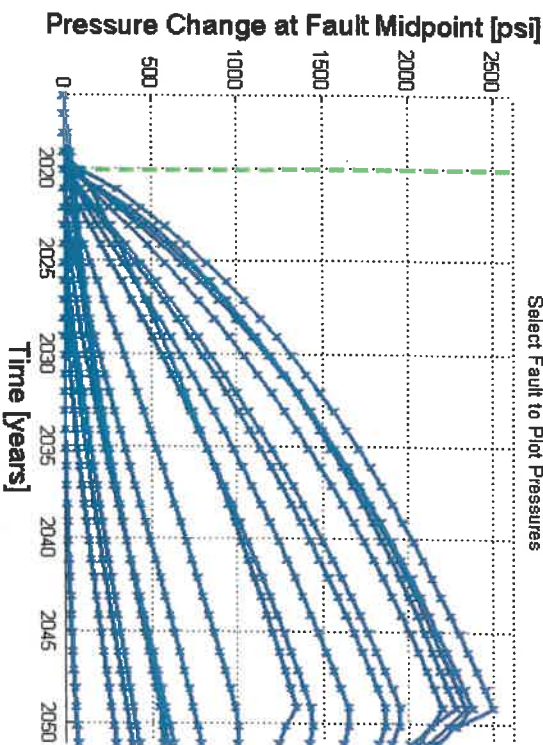
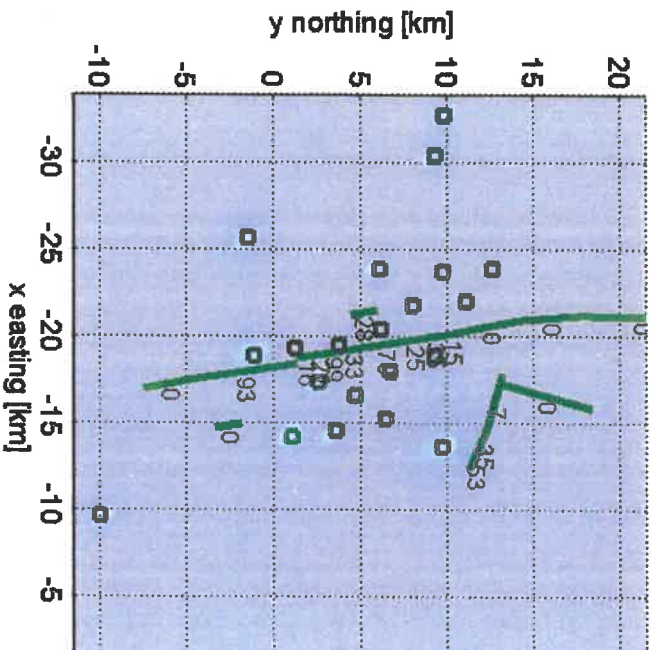
PROB. HYDRO

INTEGRATED

Export

b) PP Change at fault [psi]

Summary Plots



Select Fault to Plot Pressures



FSP

Export

Year:

2020

Time [years]

Fault Slip Potential

Fault Selector:

All Faults

Fault #1	0.00 FSP
Fault #2	0.00 FSP
Fault #3	0.00 FSP
Fault #4	0.00 FSP
Fault #5	0.00 FSP
Fault #6	0.00 FSP
Fault #7	0.00 FSP
Fault #8	0.00 FSP
Fault #9	0.00 FSP
Fault #10	0.00 FSP
Fault #11	0.00 FSP
Fault #12	0.00 FSP
Fault #13	0.00 FSP
Fault #14	0.00 FSP
Fault #15	0.00 FSP
Fault #16	0.00 FSP
Fault #17	0.00 FSP
Fault #18	0.00 FSP
Fault #19	0.00 FSP

Calculate

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

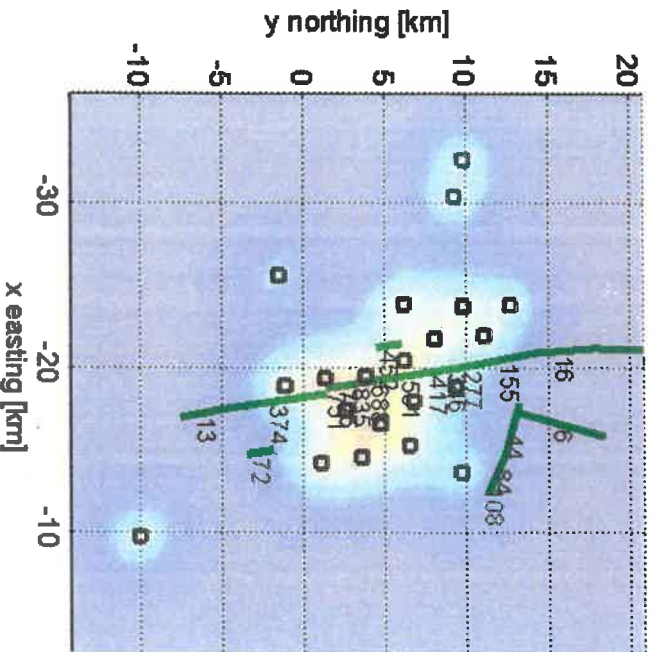
PROB. HYDRO

INTEGRATED

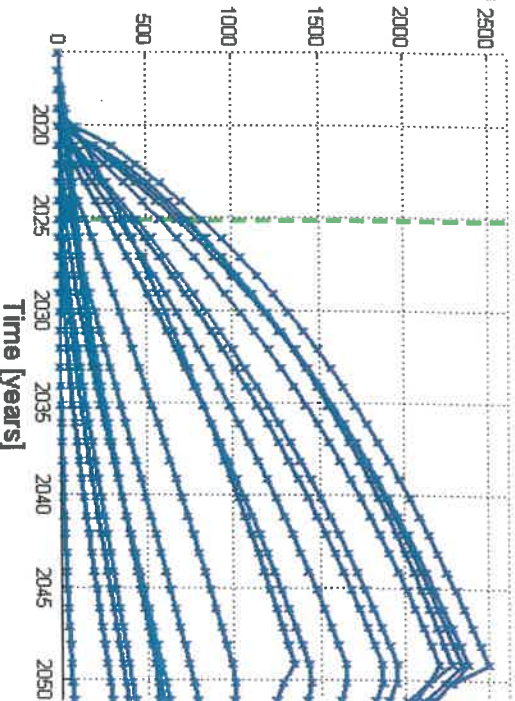
Export

b) PP Change at fault [psi]

Summary Plots



Pressure Change at Fault Midpoint [psi]



Select Fault to Plot Pressures

Fault Slip Potential



FSP

Export

Year:

2025

◀ ▶

Fault Slip Potential

Fault Selector:

All Faults

Fault #1, 0.00 FSP
Fault #2, 0.00 FSP
Fault #3, 0.00 FSP
Fault #4, 0.00 FSP
Fault #5, 0.00 FSP
Fault #6, 0.00 FSP
Fault #7, 0.00 FSP
Fault #8, 0.00 FSP
Fault #9, 0.00 FSP
Fault #10, 0.00 FSP
Fault #11, 0.00 FSP
Fault #12, 0.00 FSP
Fault #13, 0.00 FSP
Fault #14, 0.00 FSP
Fault #15, 0.00 FSP
Fault #16, 0.00 FSP
Fault #17, 0.00 FSP
Fault #18, 0.00 FSP
Fault #19, 0.00 FSP

Calculate

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

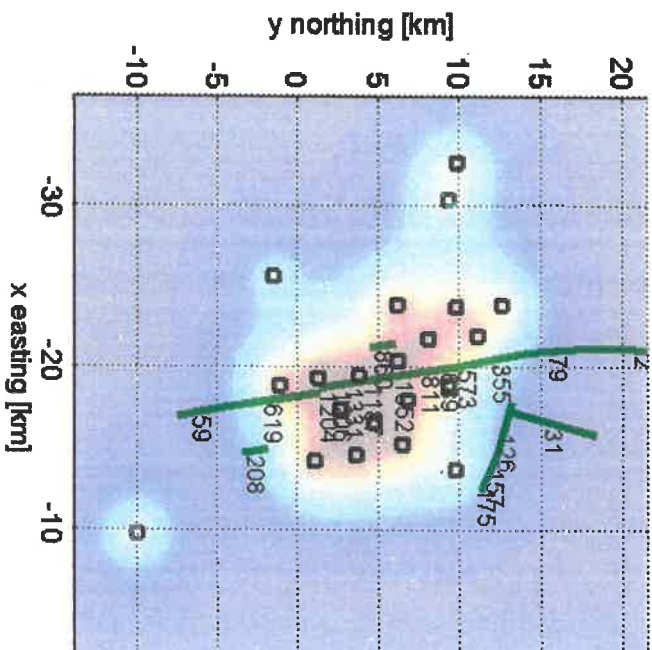
PROB. HYDRO

INTEGRATED

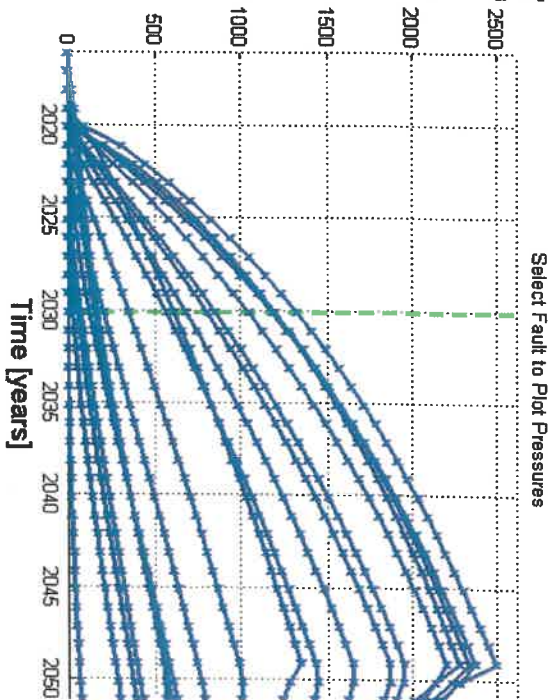
Export

b) PP Change at fault [psi]

Summary Plots



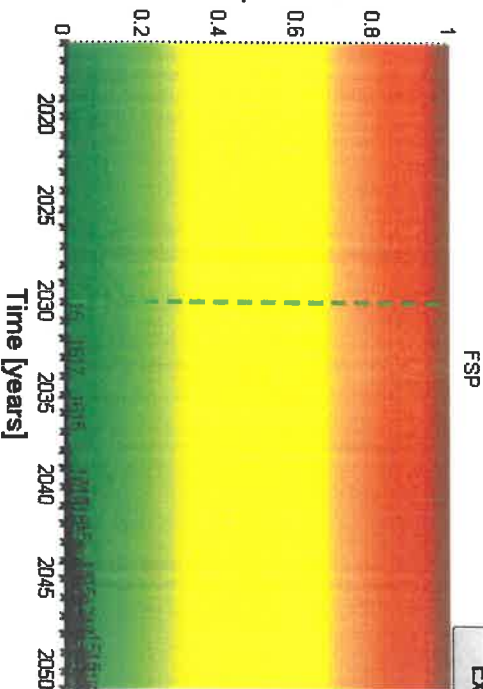
Pressure Change at Fault Midpoint [psi]



Select Fault to Plot Pressures

Time [years]

Fault Slip Potential



FSP

Export

Year:

2030

Fault Slip Potential

Fault Selector:

All Faults

Fault #1, 0.00 FSP
Fault #2, 0.00 FSP
Fault #3, 0.00 FSP
Fault #4, 0.00 FSP
Fault #5, 0.00 FSP
Fault #6, 0.00 FSP
Fault #7, 0.00 FSP
Fault #8, 0.00 FSP
Fault #9, 0.00 FSP
Fault #10, 0.00 FSP
Fault #11, 0.00 FSP
Fault #12, 0.00 FSP
Fault #13, 0.00 FSP
Fault #14, 0.00 FSP
Fault #15, 0.01 FSP
Fault #16, 0.00 FSP
Fault #17, 0.01 FSP
Fault #18, 0.00 FSP
Fault #19, 0.00 FSP

Calculate

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

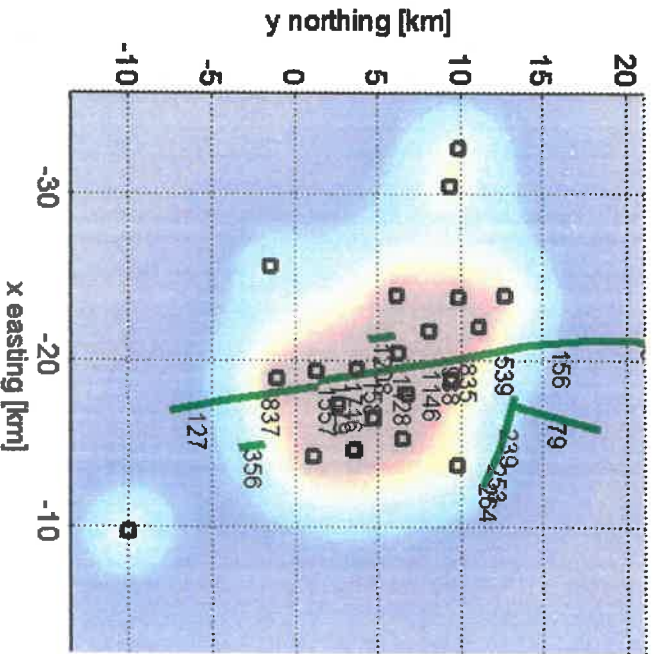
PROB. HYDRO

INTEGRATED

Export

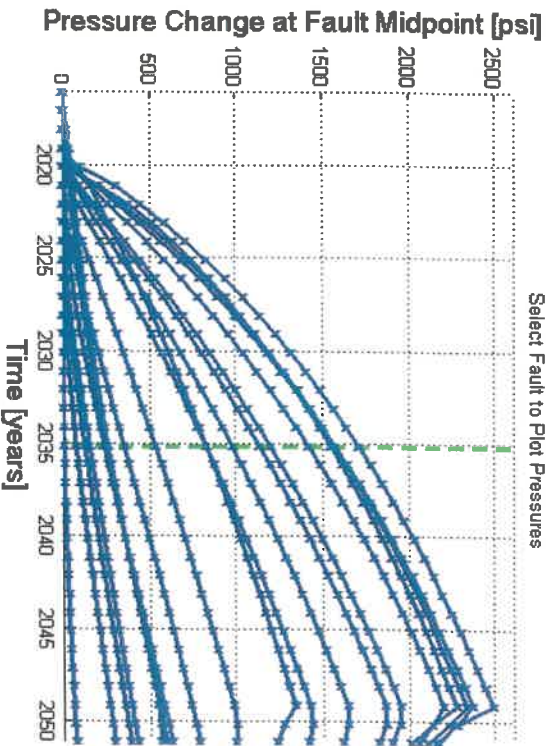
b) PP Change at fault [psi]

Summary Plots

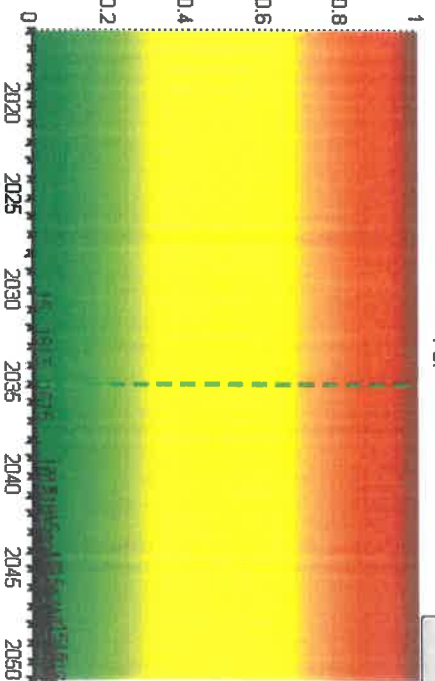


Year:

2035



Fault Slip Potential



Export

Fault Slip Potential

Fault Selector:

All Faults
Fault #1, 0.00 FSP
Fault #2, 0.00 FSP
Fault #3, 0.00 FSP
Fault #4, 0.00 FSP
Fault #5, 0.00 FSP
Fault #6, 0.00 FSP
Fault #7, 0.00 FSP
Fault #8, 0.00 FSP
Fault #9, 0.00 FSP
Fault #10, 0.00 FSP
Fault #11, 0.00 FSP
Fault #12, 0.00 FSP
Fault #13, 0.00 FSP
Fault #14, 0.00 FSP
Fault #15, 0.01 FSP
Fault #16, 0.01 FSP
Fault #17, 0.01 FSP
Fault #18, 0.00 FSP
Fault #19, 0.00 FSP

Calculate

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

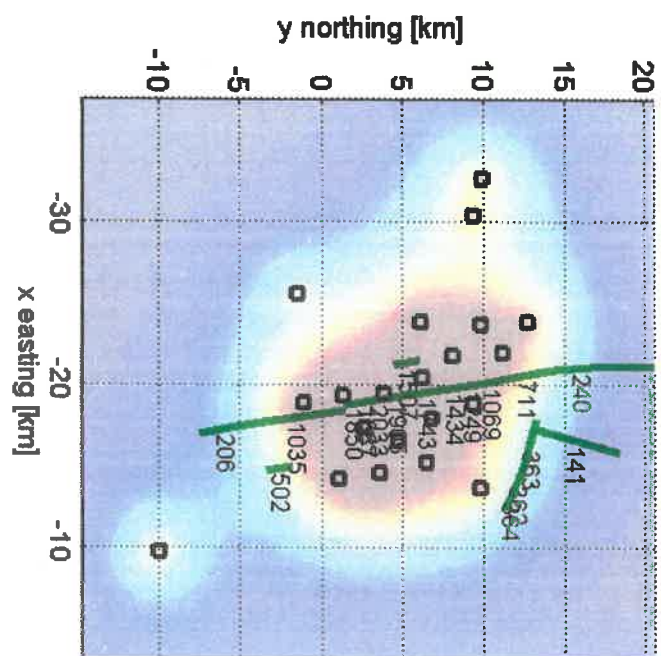
HYDROLOGY

PROB. HYDRO

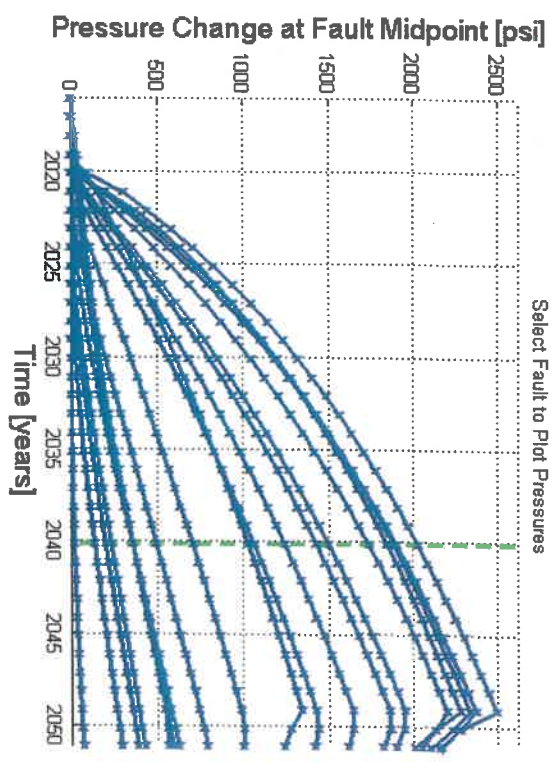
INTEGRATED

b) PP Change at fault [psi]

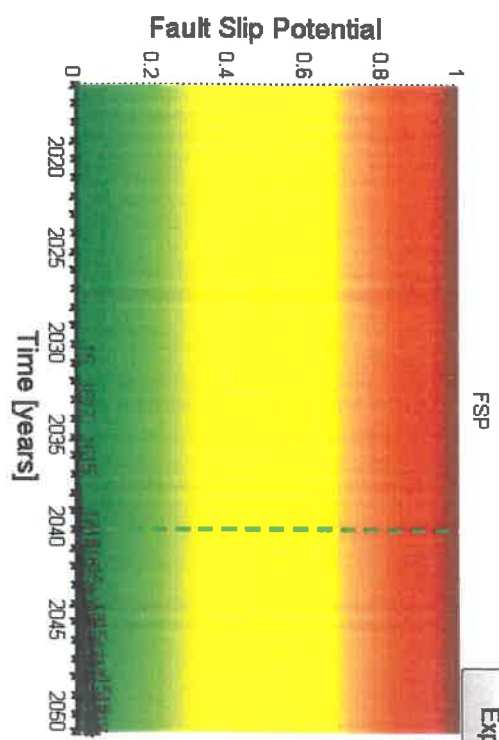
Summary Plots



Year: 2040



Export



Export

Fault Slip Potential

Fault Selector:

All Faults

Fault #1	0.00 FSP
Fault #2	0.00 FSP
Fault #3	0.00 FSP
Fault #4	0.00 FSP
Fault #5	0.00 FSP
Fault #6	0.00 FSP
Fault #7	0.00 FSP
Fault #8	0.00 FSP
Fault #9	0.01 FSP
Fault #10	0.00 FSP
Fault #11	0.00 FSP
Fault #12	0.00 FSP
Fault #13	0.00 FSP
Fault #14	0.00 FSP
Fault #15	0.03 FSP
Fault #16	0.01 FSP
Fault #17	0.02 FSP
Fault #18	0.00 FSP
Fault #19	0.00 FSP

Calculate

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

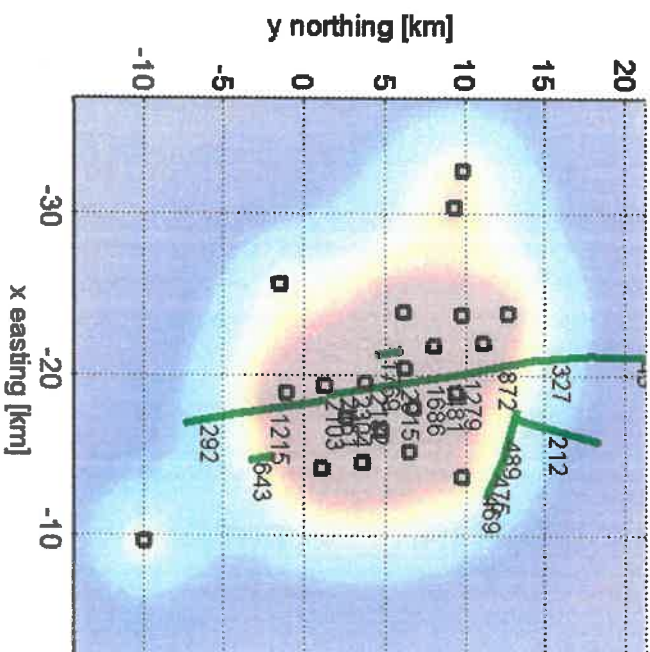
PROB. HYDRO

INTEGRATED

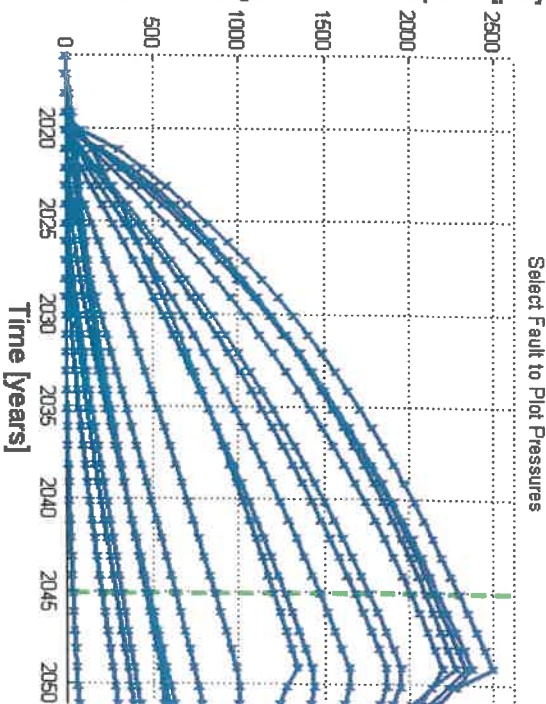
Export

b) PP Change at fault [psi]

Summary Plots

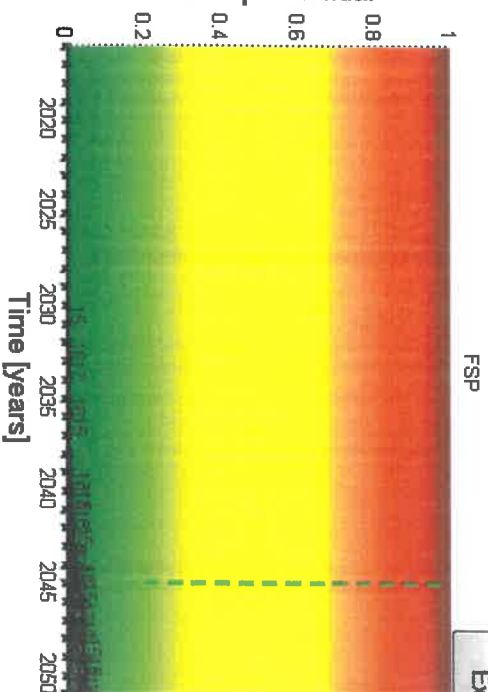


Pressure Change at Fault Midpoint [psi]



Select Fault to Plot Pressures

Fault Slip Potential



FSP

Export

Year:

2045

Fault Slip Potential

Fault Selector:

MODEL INPUTS

GEOMECHANICS

PROB. GEOMECH

HYDROLOGY

PROB. HYDRO

INTEGRATED

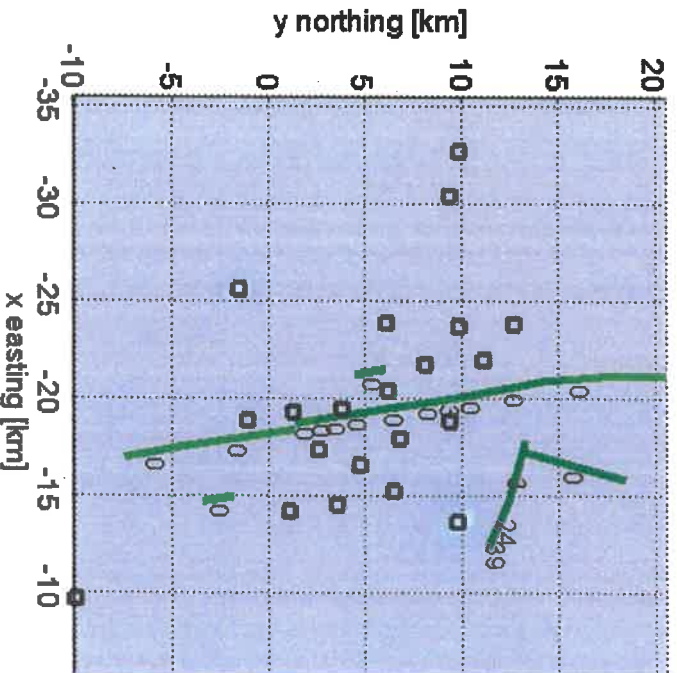
Export

b) PP Change at fault [psi]

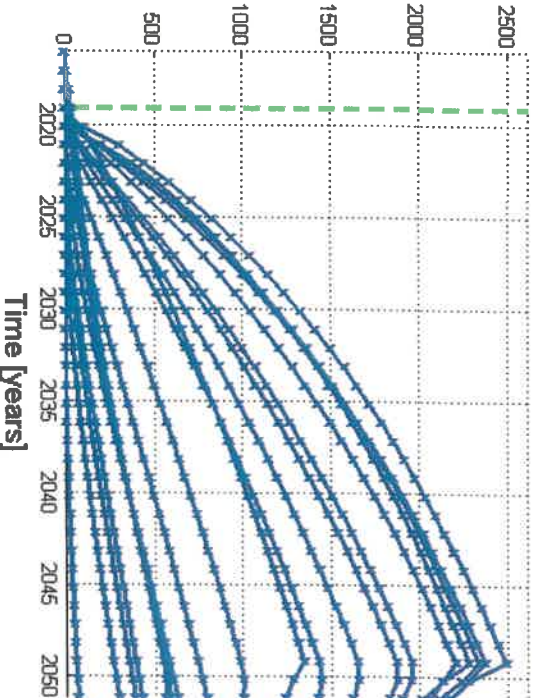
Summary Plots

All Faults
Fault #1, 0.00 FSP
Fault #2, 0.00 FSP
Fault #3, 0.00 FSP
Fault #4, 0.00 FSP
Fault #5, 0.00 FSP
Fault #6, 0.00 FSP
Fault #7, 0.00 FSP
Fault #8, 0.00 FSP
Fault #9, 0.00 FSP
Fault #10, 0.00 FSP
Fault #11, 0.00 FSP
Fault #12, 0.00 FSP
Fault #13, 0.00 FSP
Fault #14, 0.00 FSP
Fault #15, 0.00 FSP
Fault #16, 0.00 FSP
Fault #17, 0.00 FSP
Fault #18, 0.00 FSP
Fault #19, 0.00 FSP

Calculate

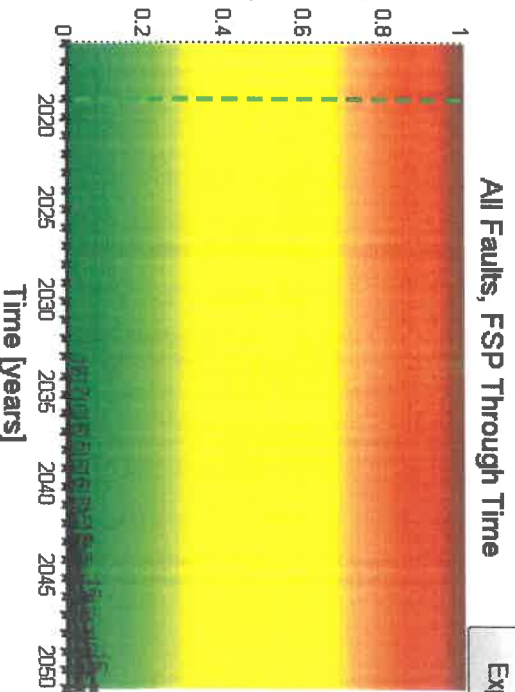


Pressure Change at Fault Midpoint [psi]



Select Fault to Plot Pressures

Fault Slip Potential

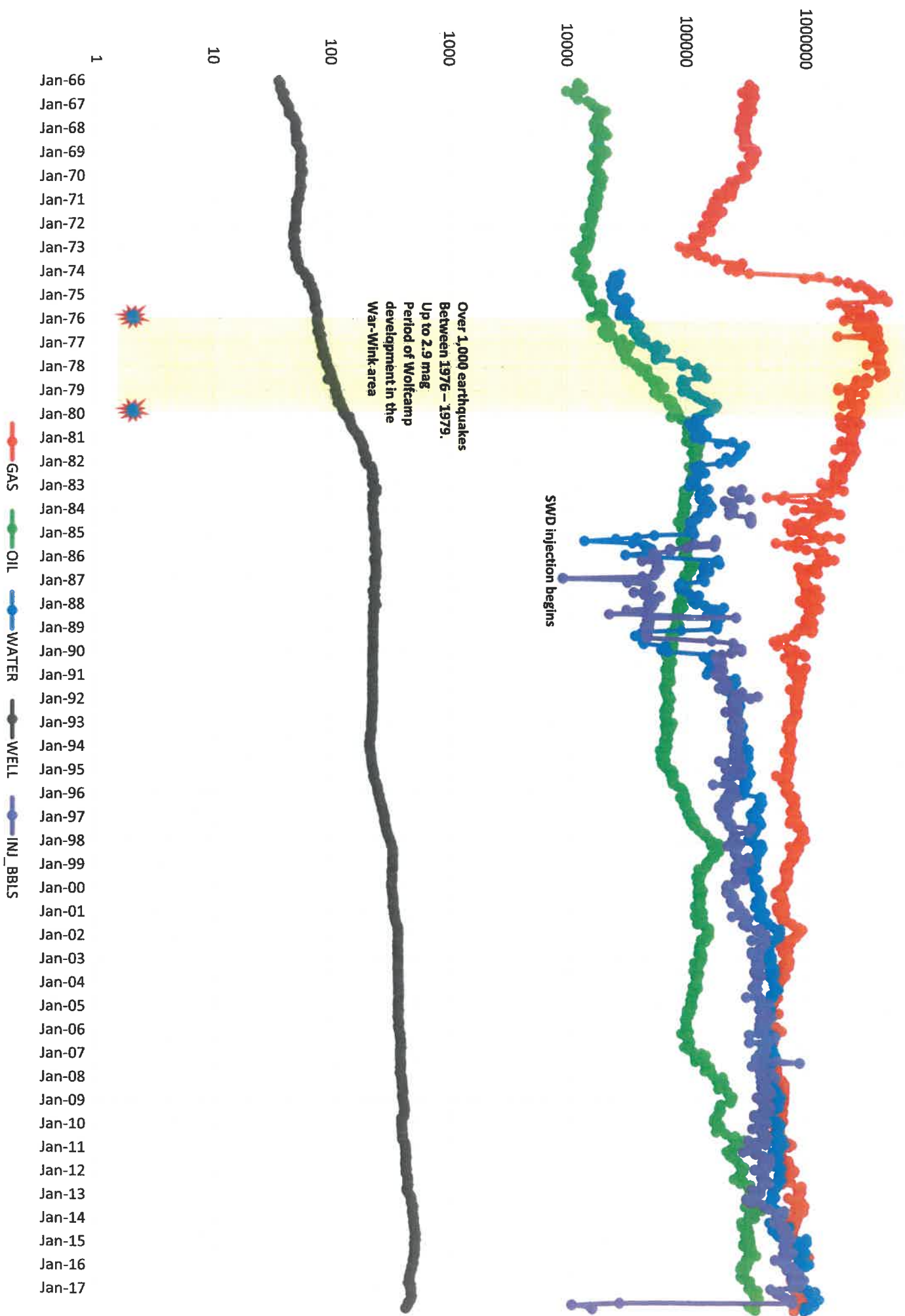


All Faults, FSP Through Time

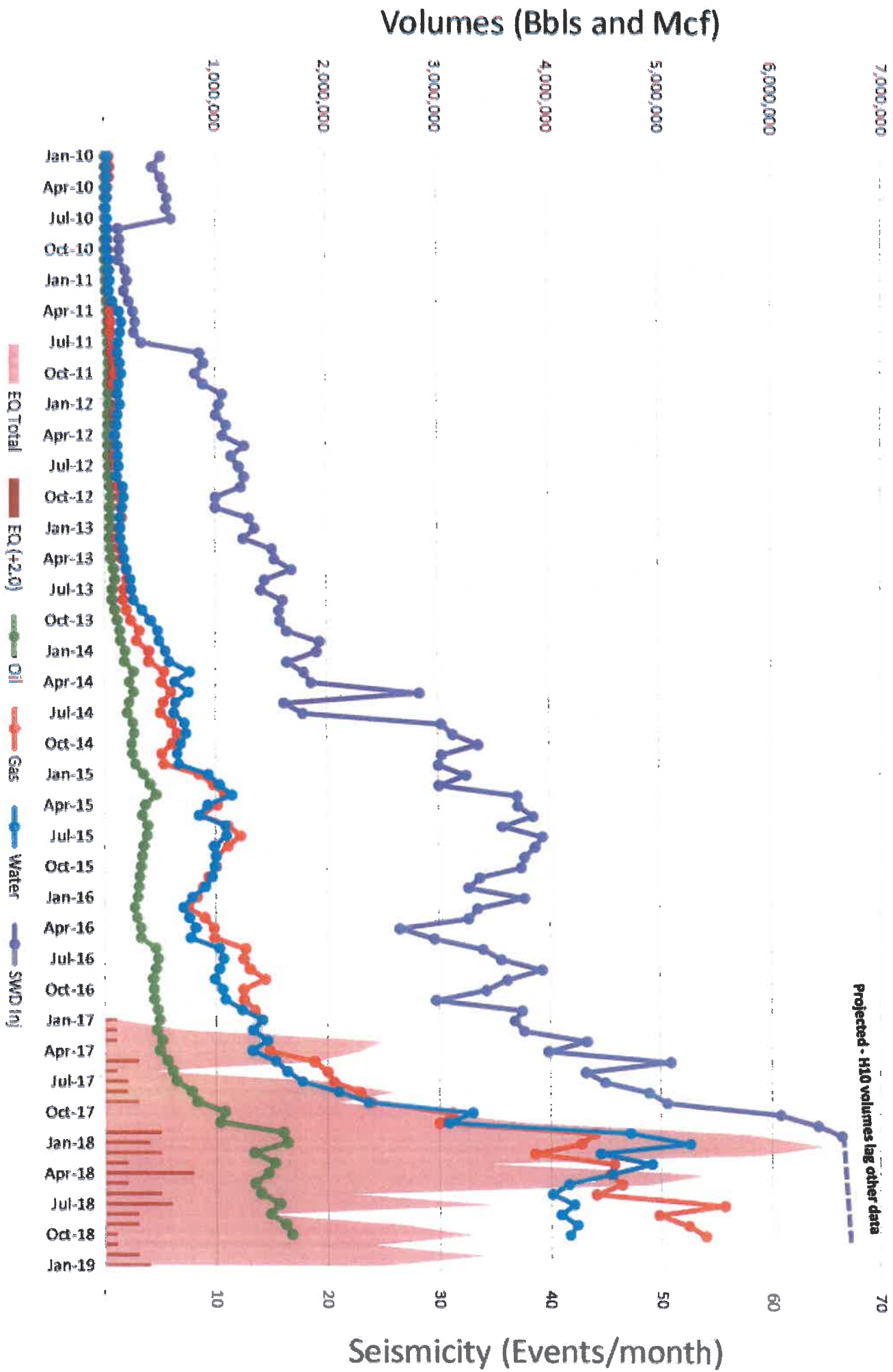
Export

Year:

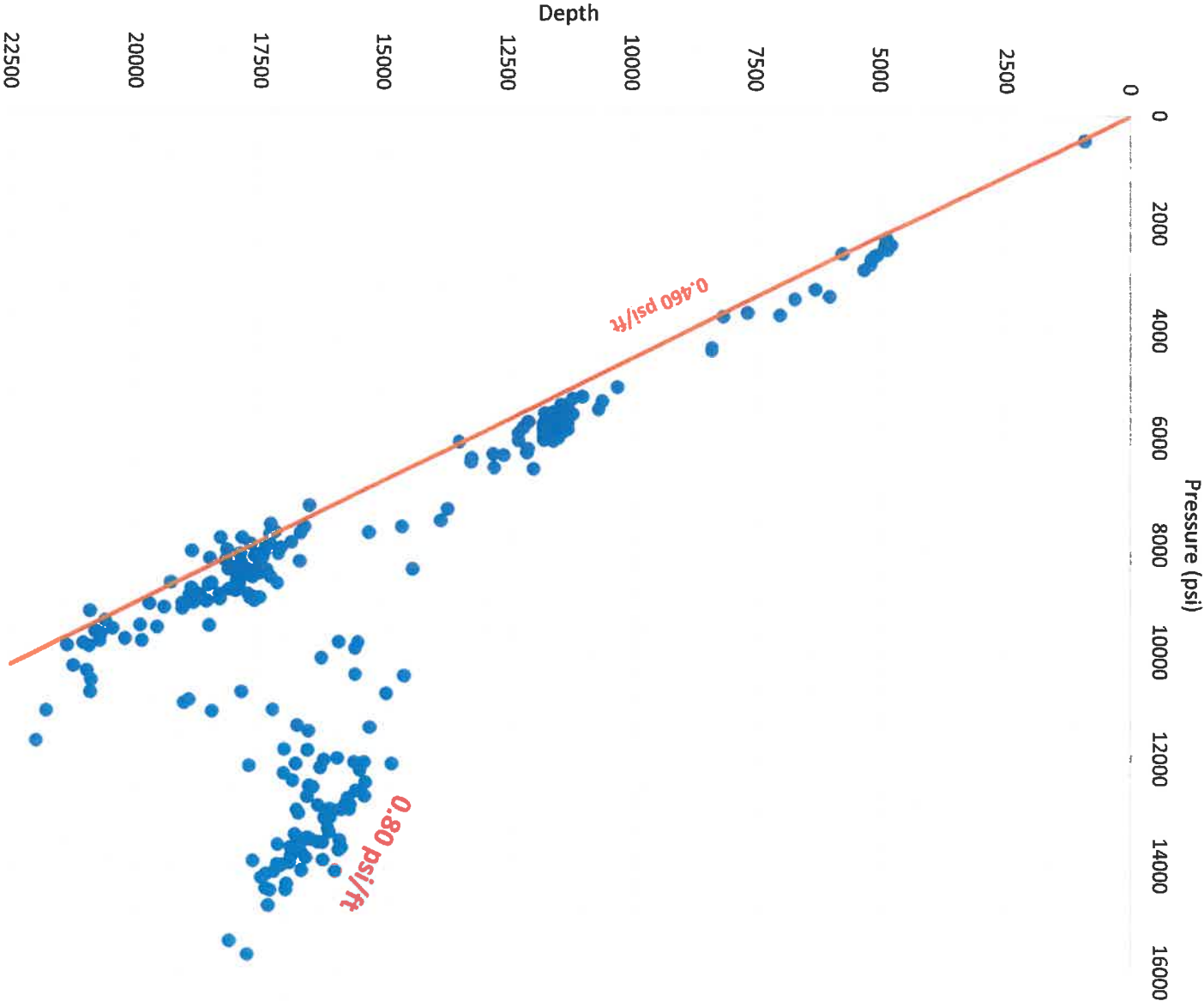
2019

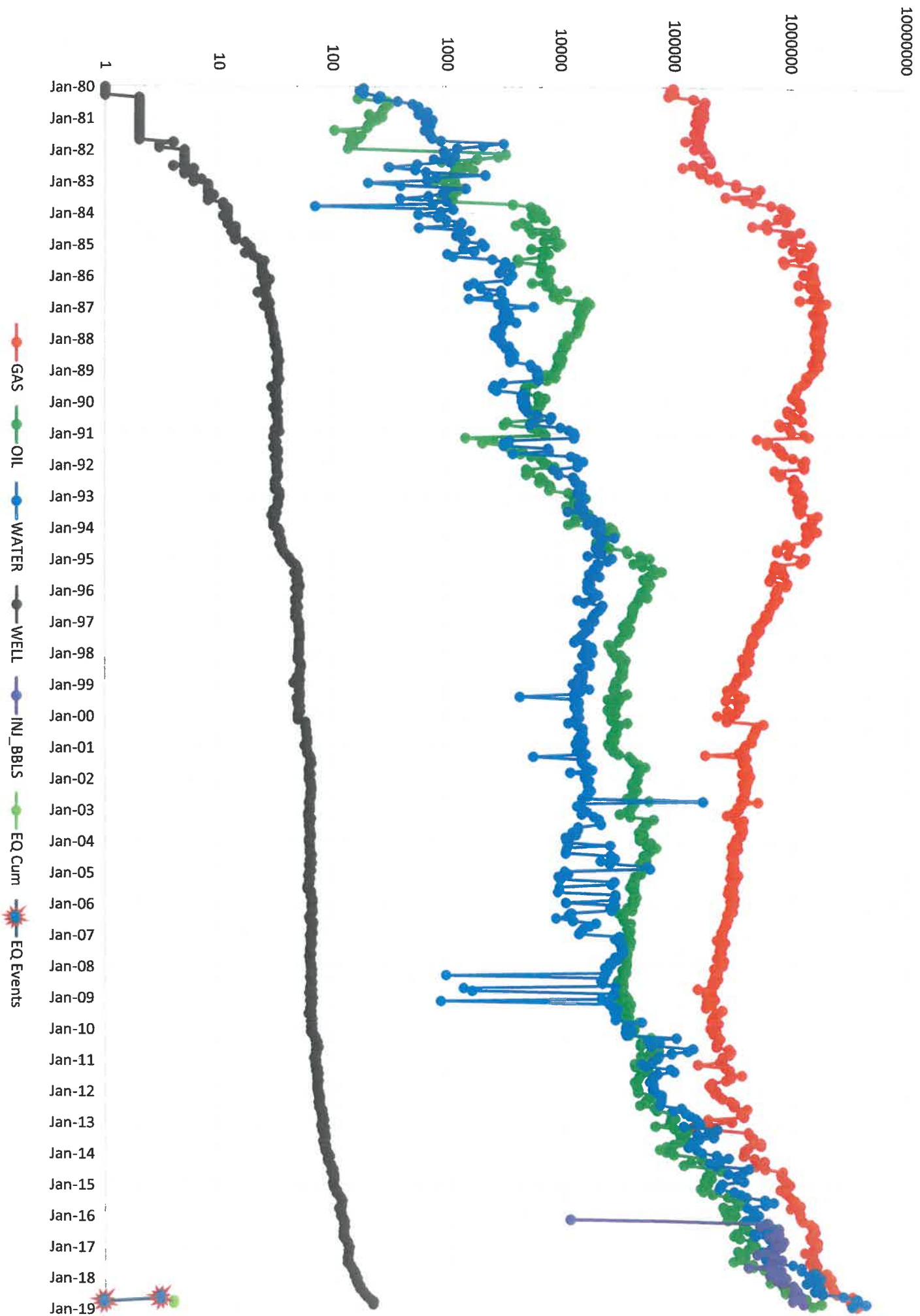


Seismicity Trend (Pecos Townsite)
AOR – 100 sq. mi around Lat 31.401, Long -103.4828

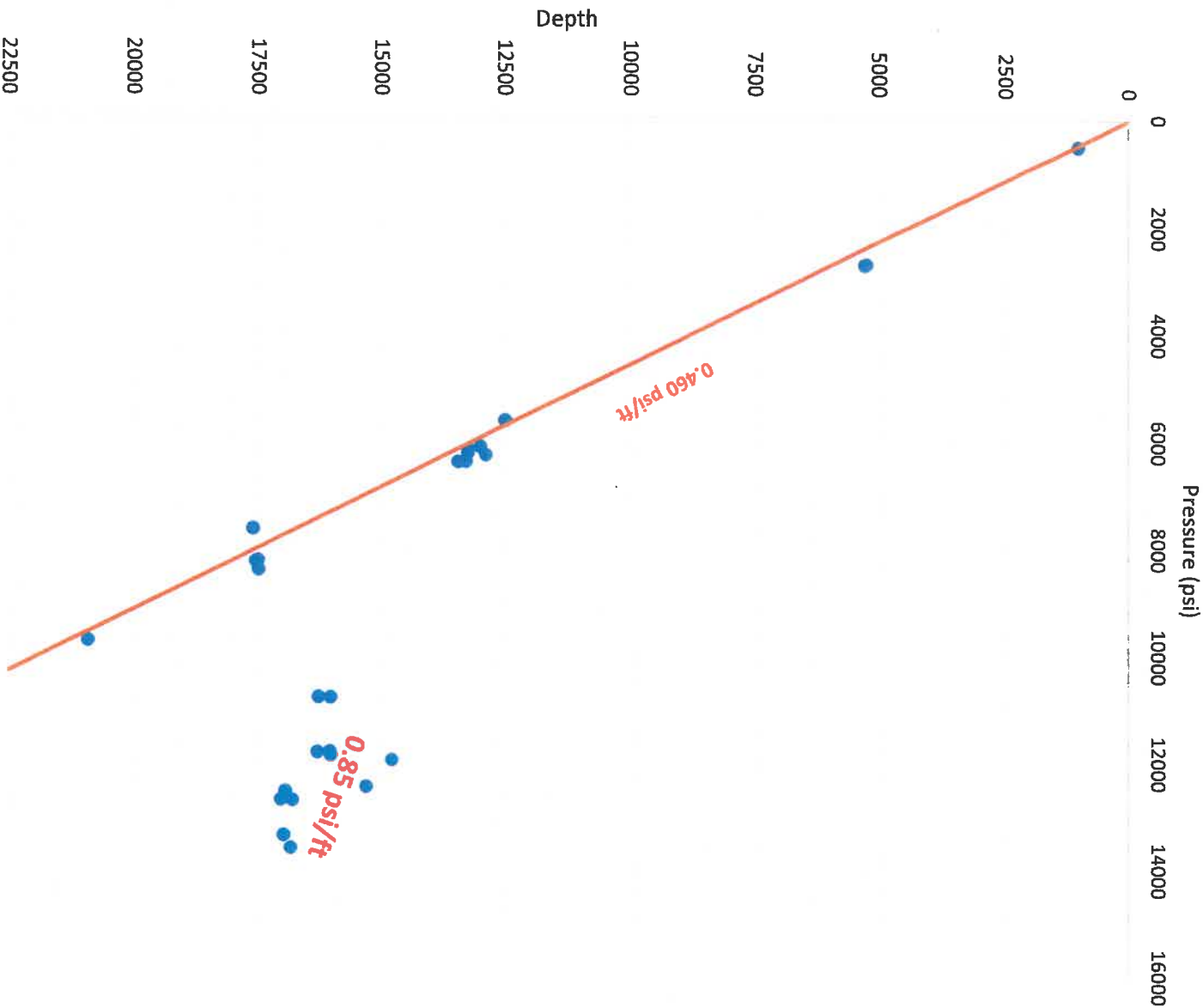


City of Pecos Mud Weight Distribution





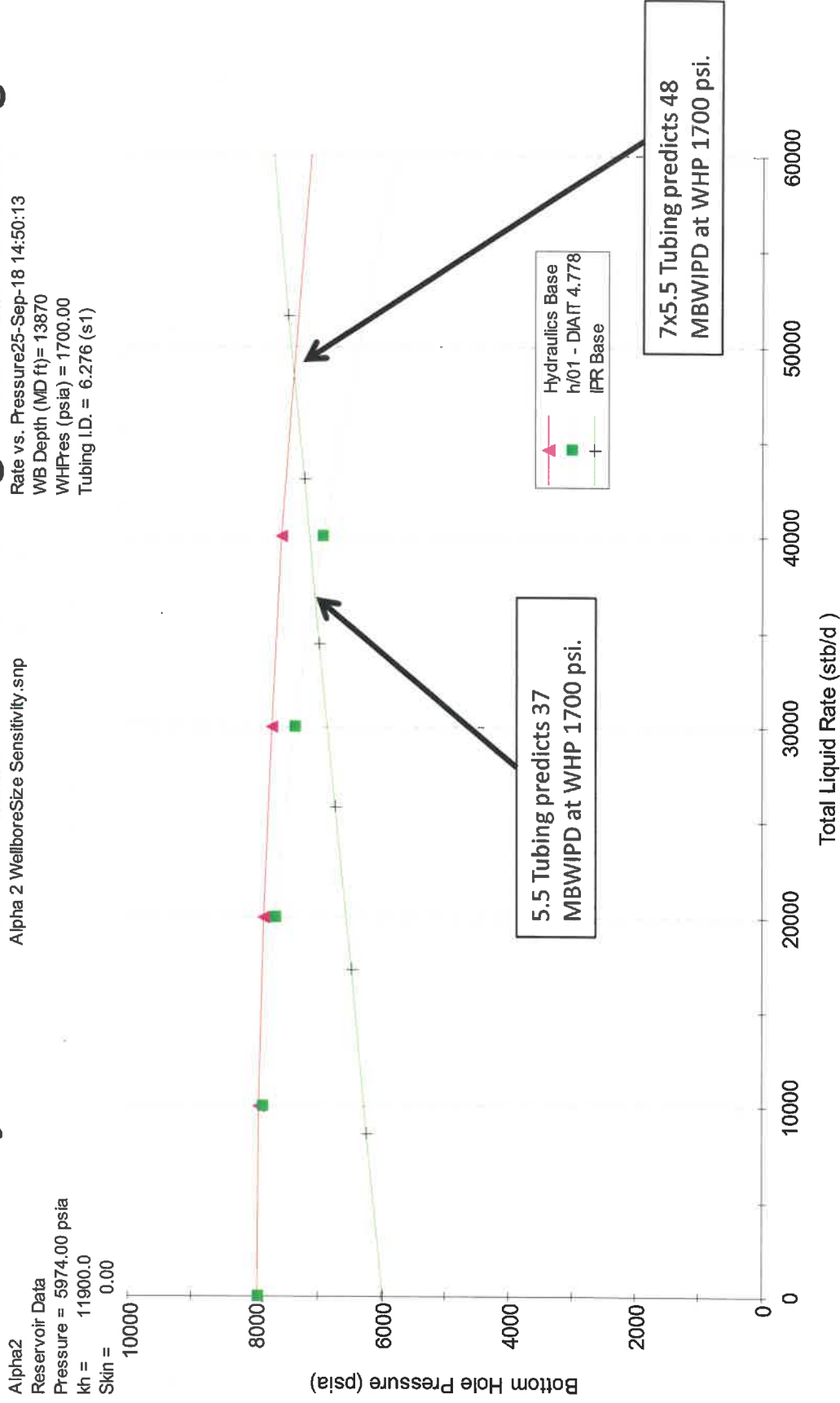
New Mexico Mud Weight Distribution





NGL Water Solutions, LLC

Typical Wellbore Hydraulics Models predict a 30% increase in maximum injection rate between 5.5 tubing and 7x5.5 tubing.





NGL Water Solutions, LLC

Exh. 2

Increased injection rate per well equates to fewer injectors.

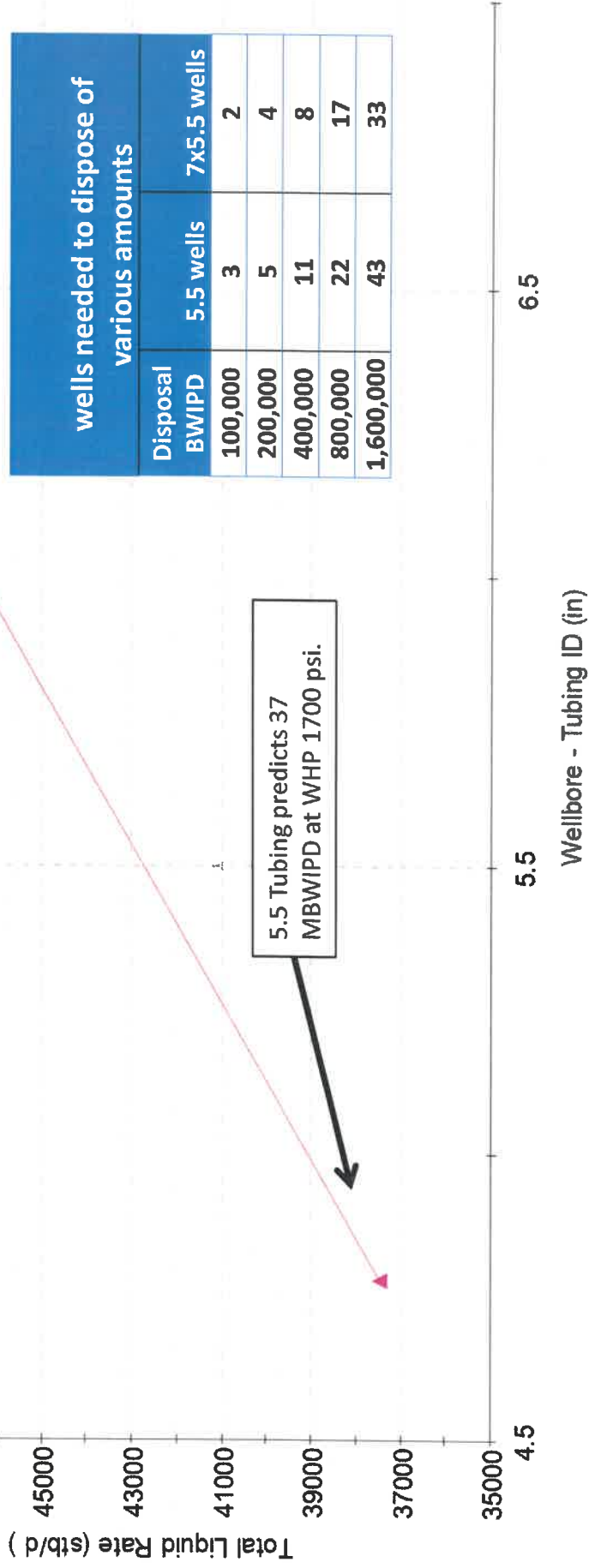
Alpha2
Reservoir Data
Pressure = 5974.00 psia
kh = 11900.0
Skin = 0.00

Alpha 2 WellboreSize Sensitivity .snp

Rate vs. Wellbore - Tubing ID (in)
25-Sep-18 17:06:22
WB Depth (MD ft)= 13870
WHPres (psia) = 1700.00
Tubing I.D. = 6.276 (s1)

7x5.5 Tubing predicts 48
MBWIPD at WHP 1700 psi.

IPR Base

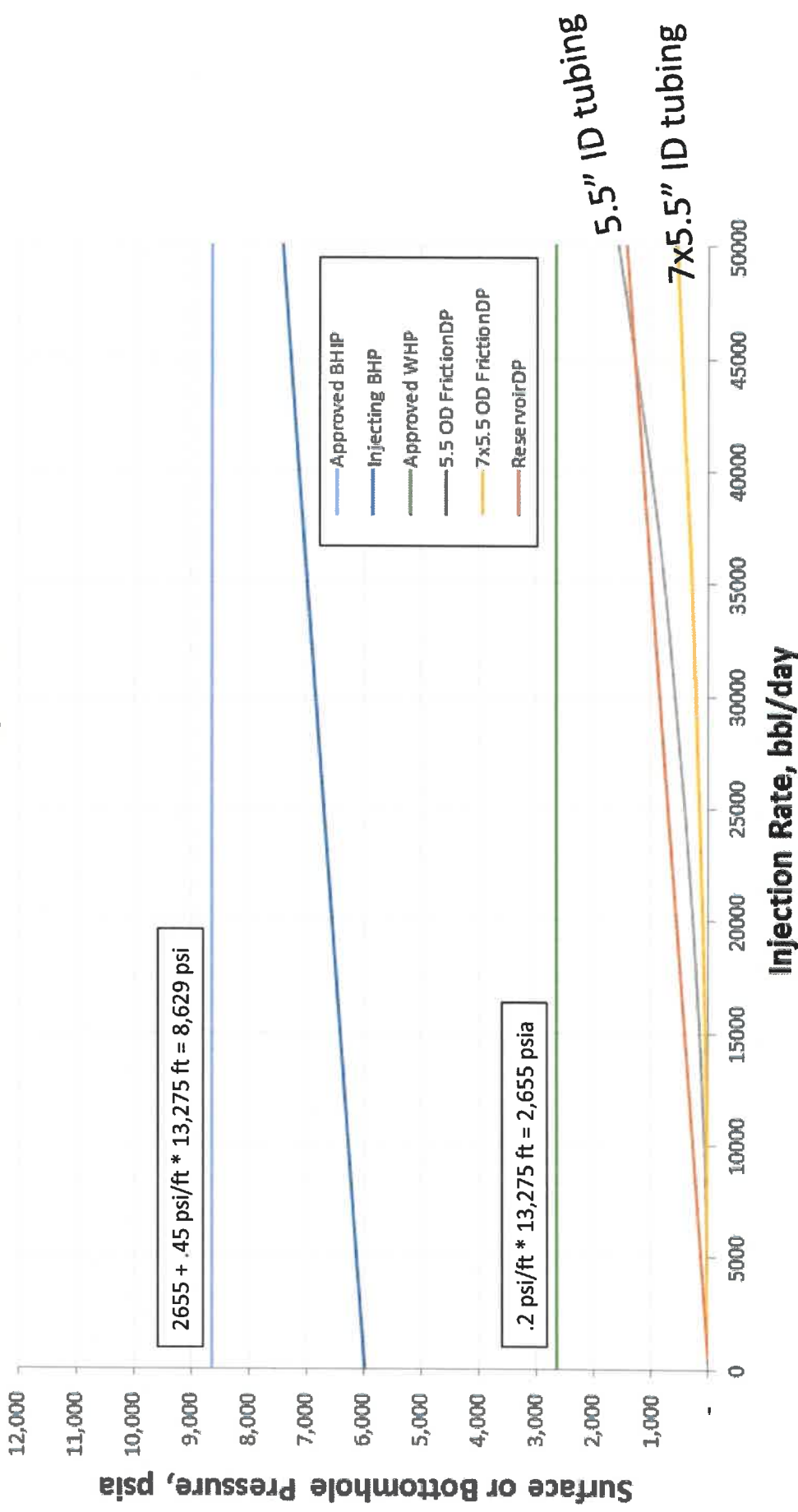




NGL Water Solutions, LLC

Exh. 3

Increasing tubing size will decrease friction losses and conserve horsepower
2 example tubing sizes and their impact on friction losses
Pressure losses at various injection rates

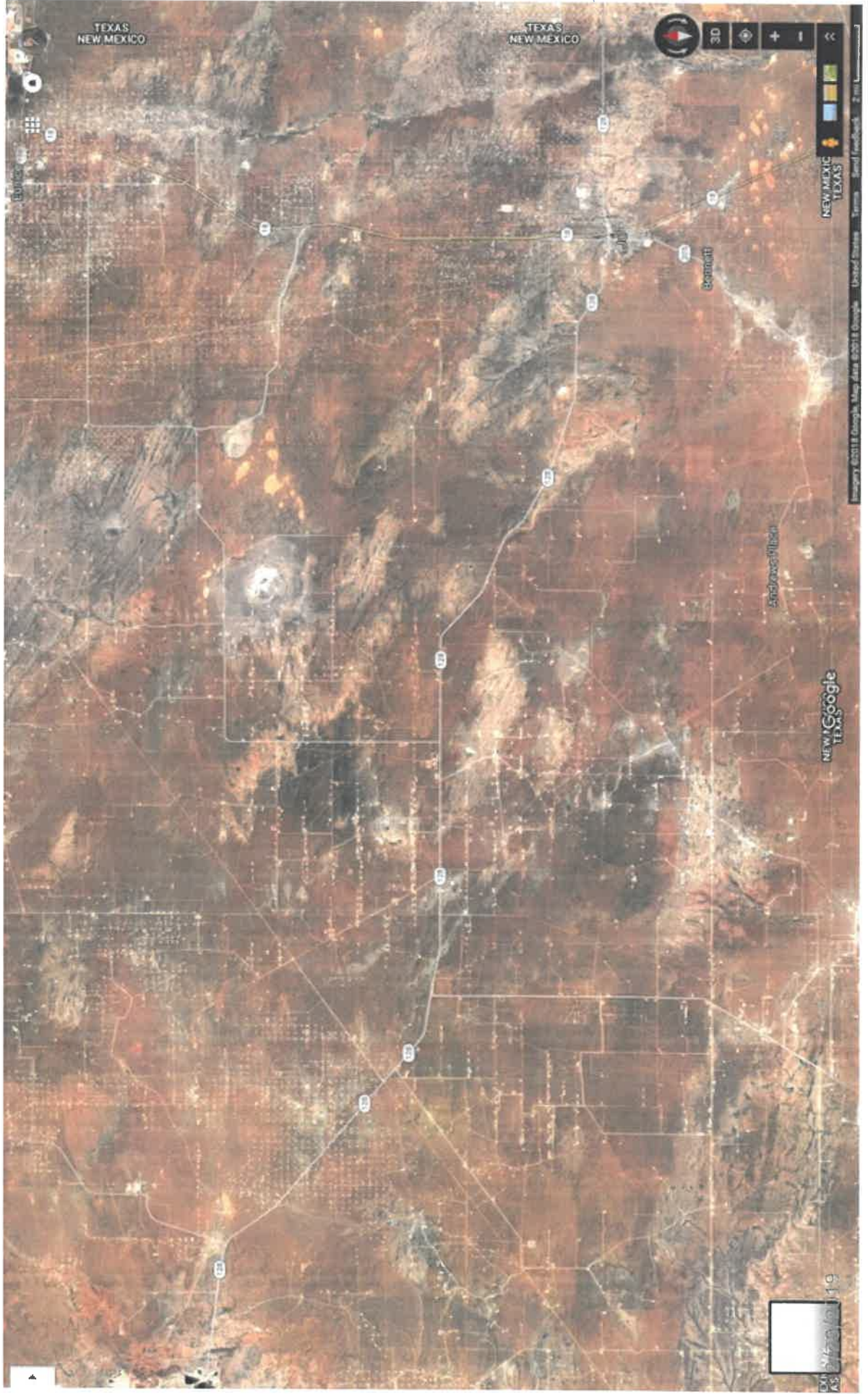




Exh. 4

NGL Water Solutions, LLC

Terrain is level and infrastructure is plentiful.



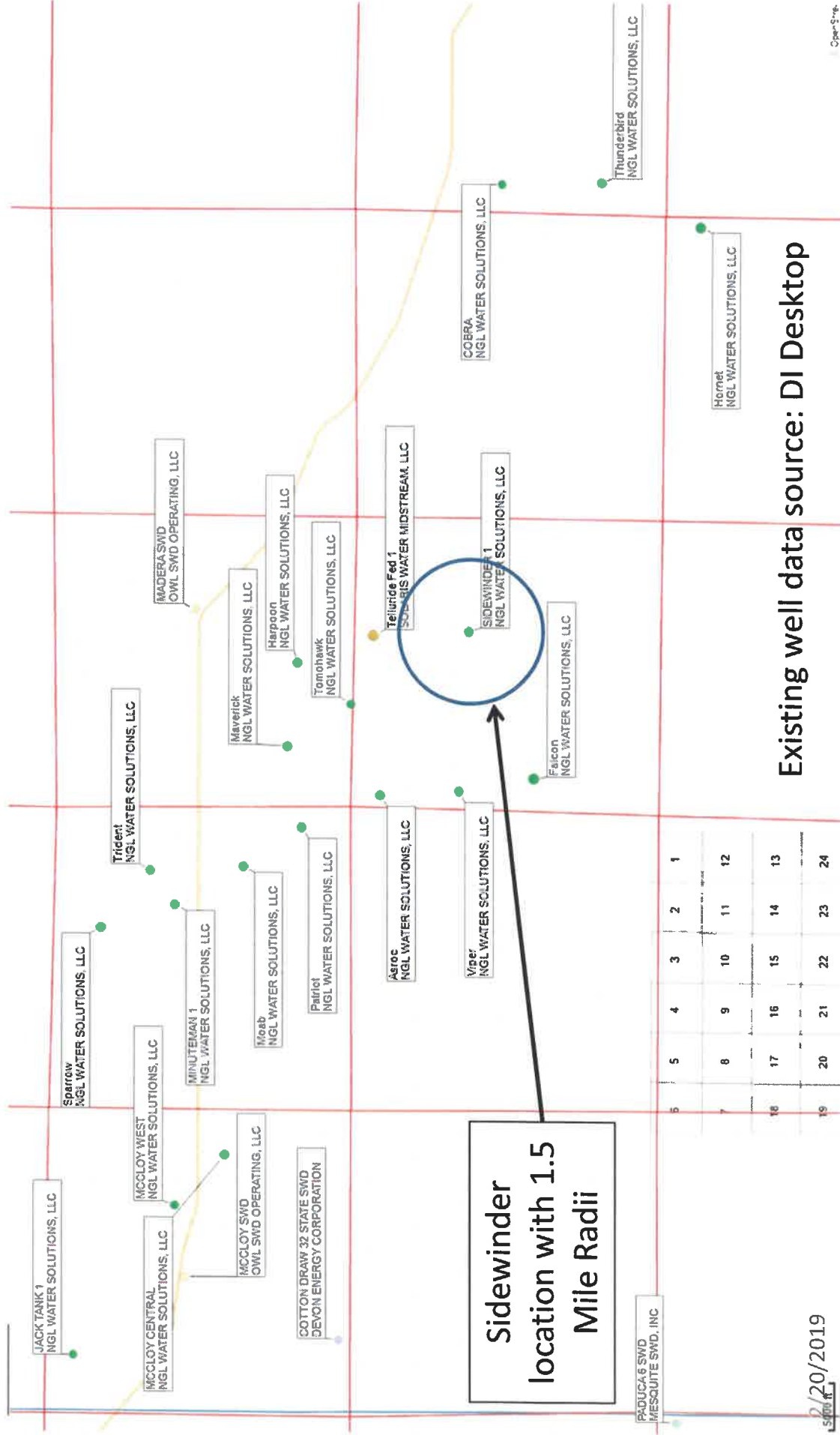


NGL Water Solutions, LLC

Exh. 5

Wells injecting water into the Devonian formation in the area.

Area is roughly 30 miles (E-W) by 20 miles (N-S)

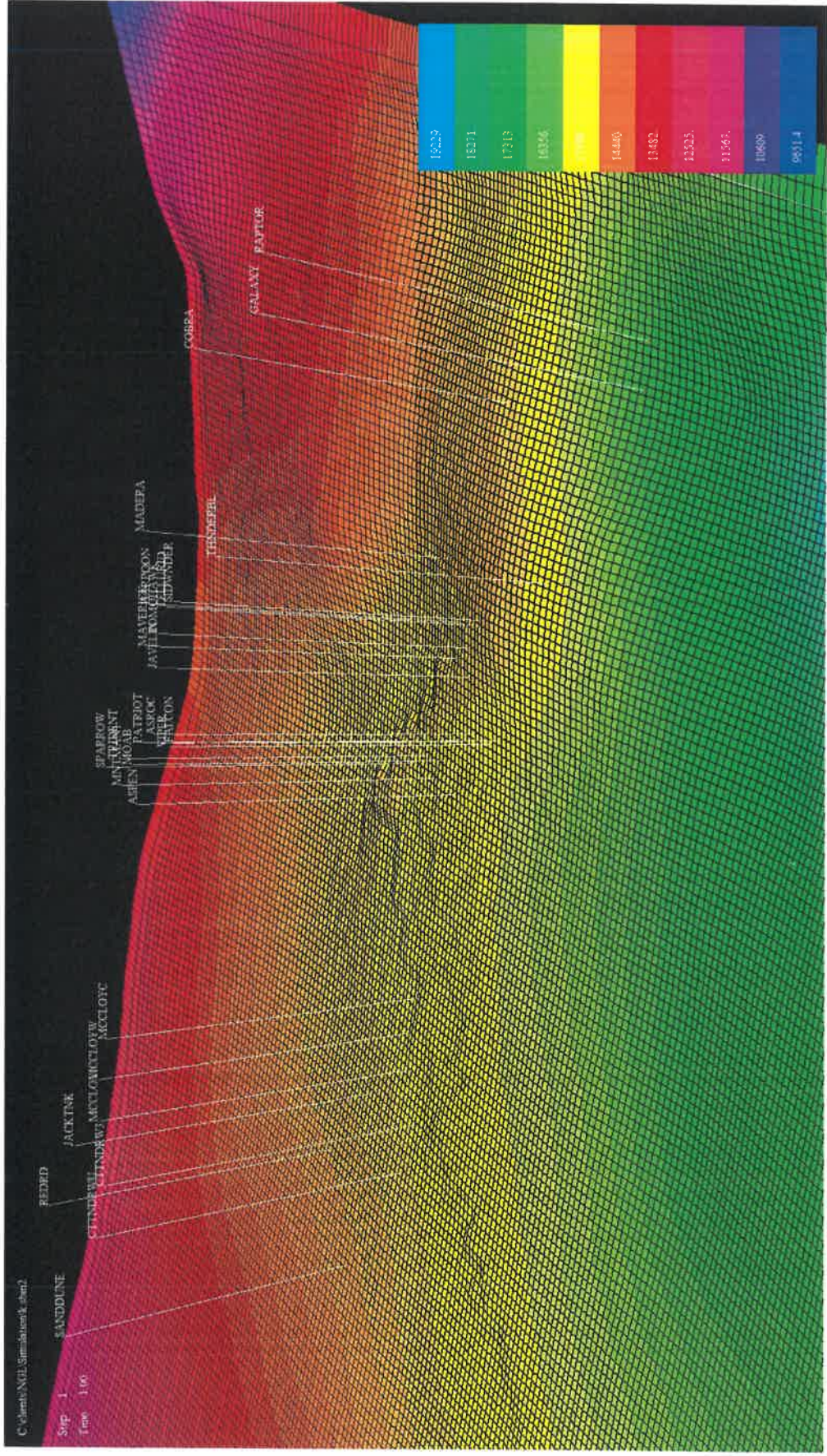


2/20/2019



Exh. 6

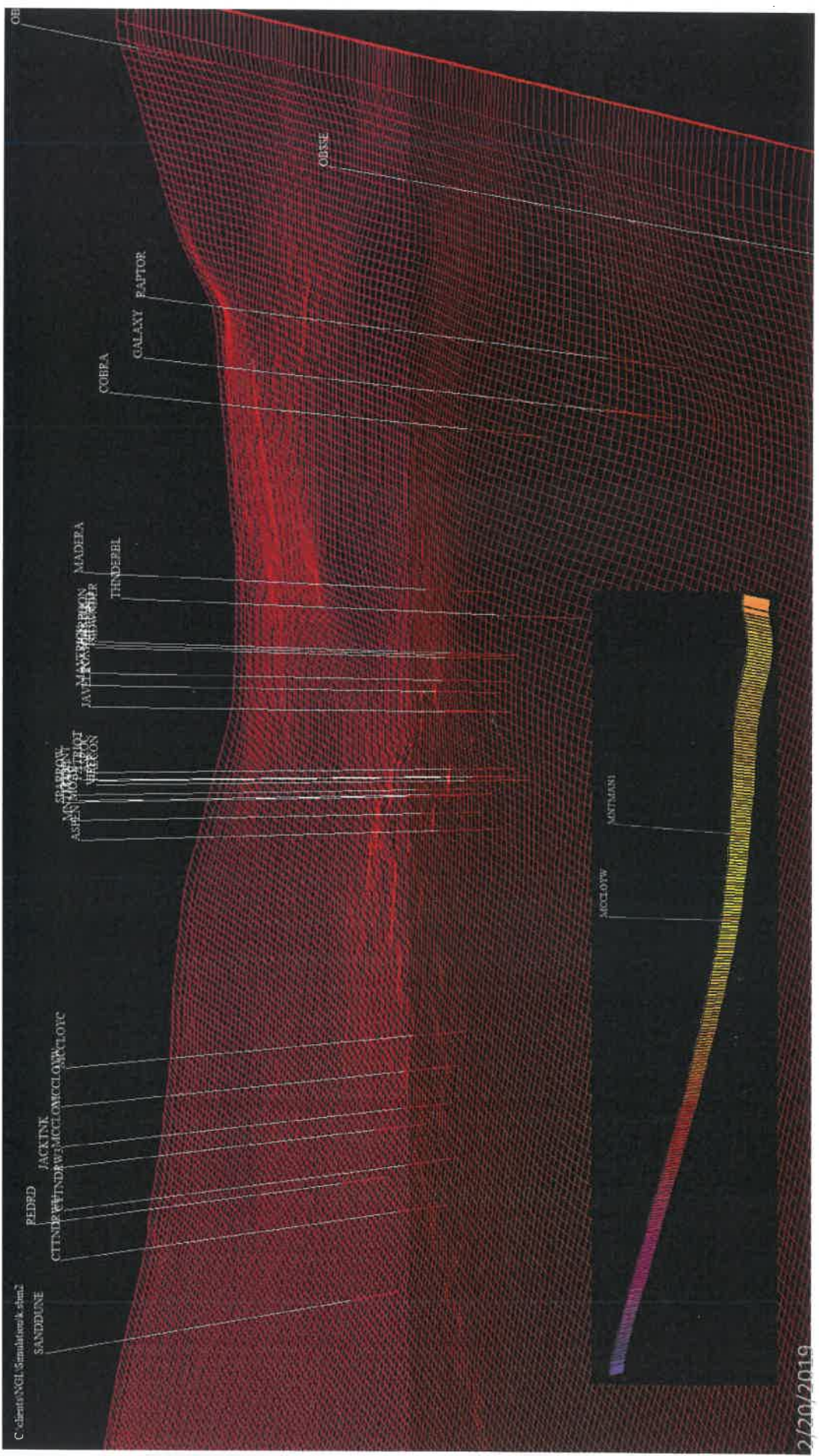
Reservoir Simulation grid incorporates the NGL proposed wells and the close offsets. Observation wells are placed in grid corners to monitor the large scale pressure distribution.





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Thickness is accurate but not easy to see at this aspect ratio.



2/20/2019



Light Blue color to the North East represents the thickest Sil/Dev.

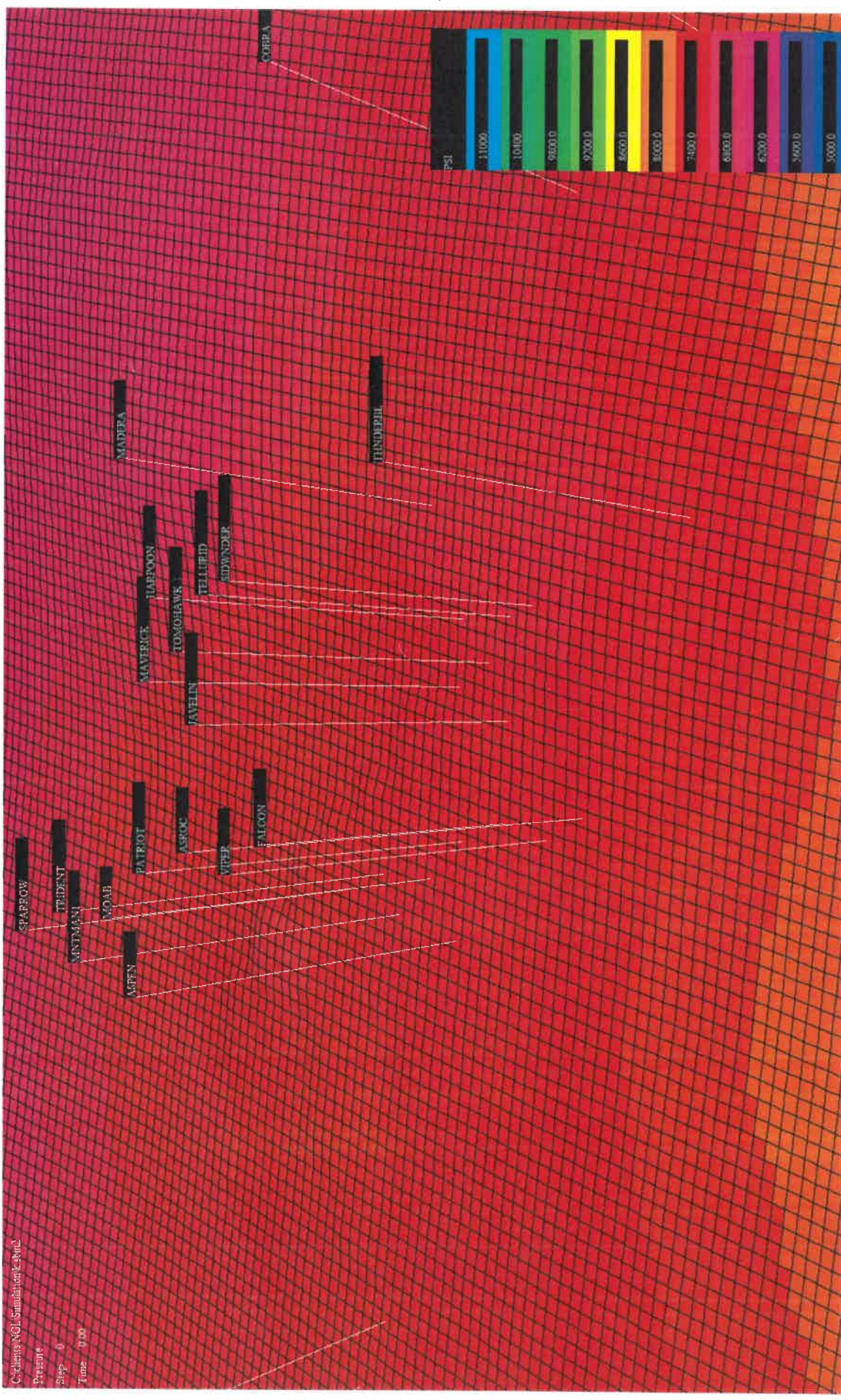




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9

Initial pressure is equilibrated by the model based on grid cell depth, fluids(water) and capillary pressure.

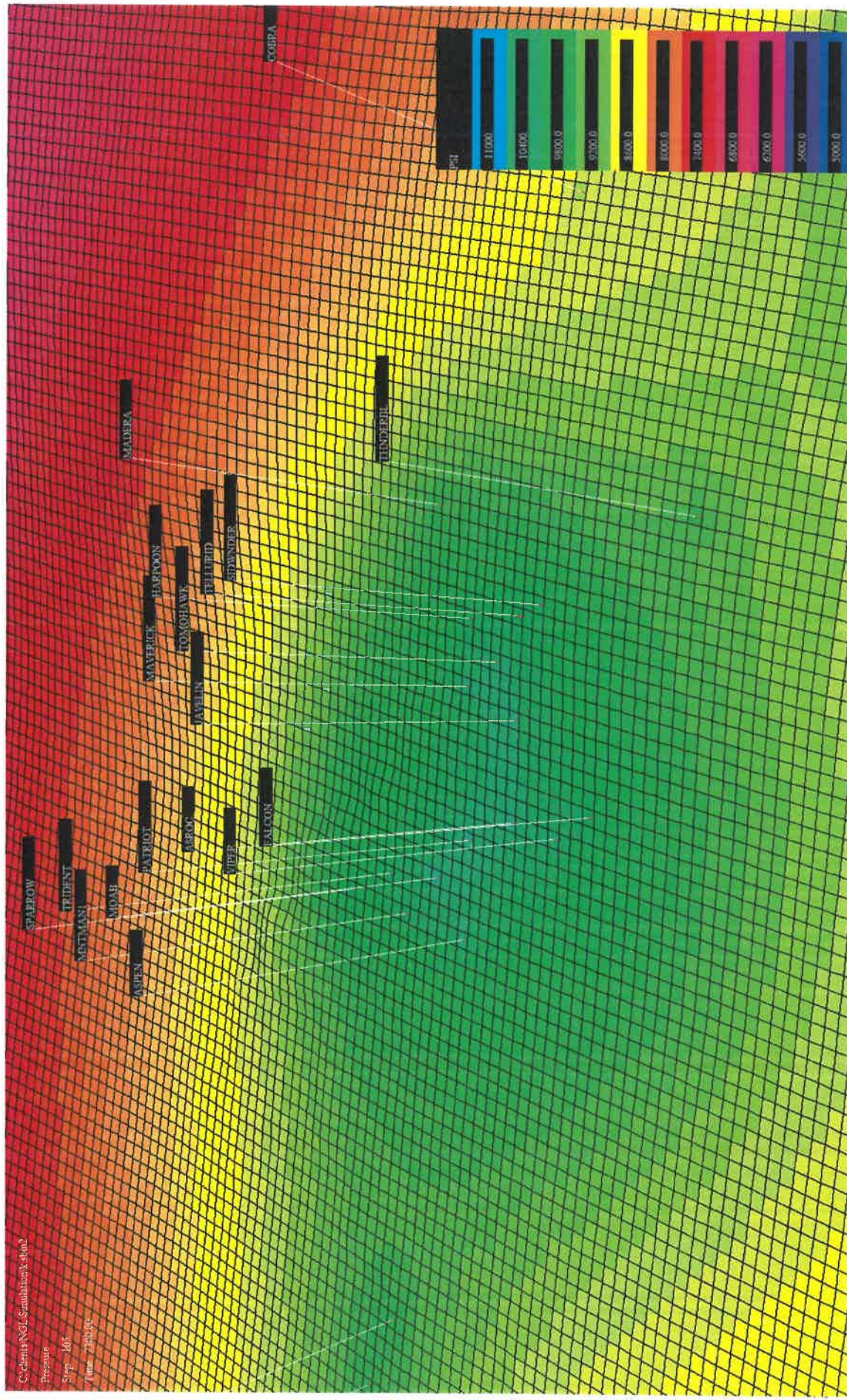




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10

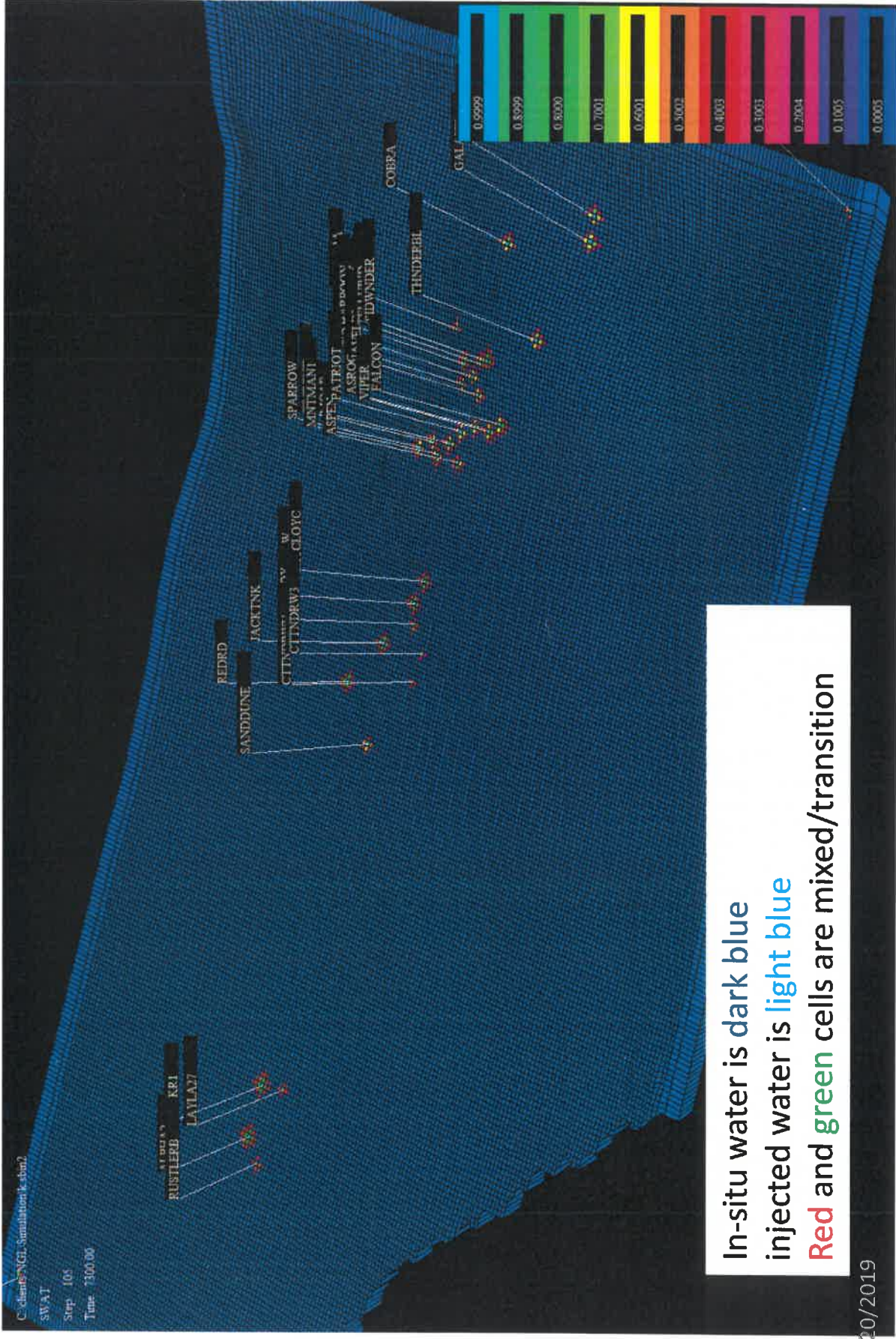
Pressure at 20 years is affected by original pressure, injected volumes, and the ability of the reservoir to dissipate pressure.





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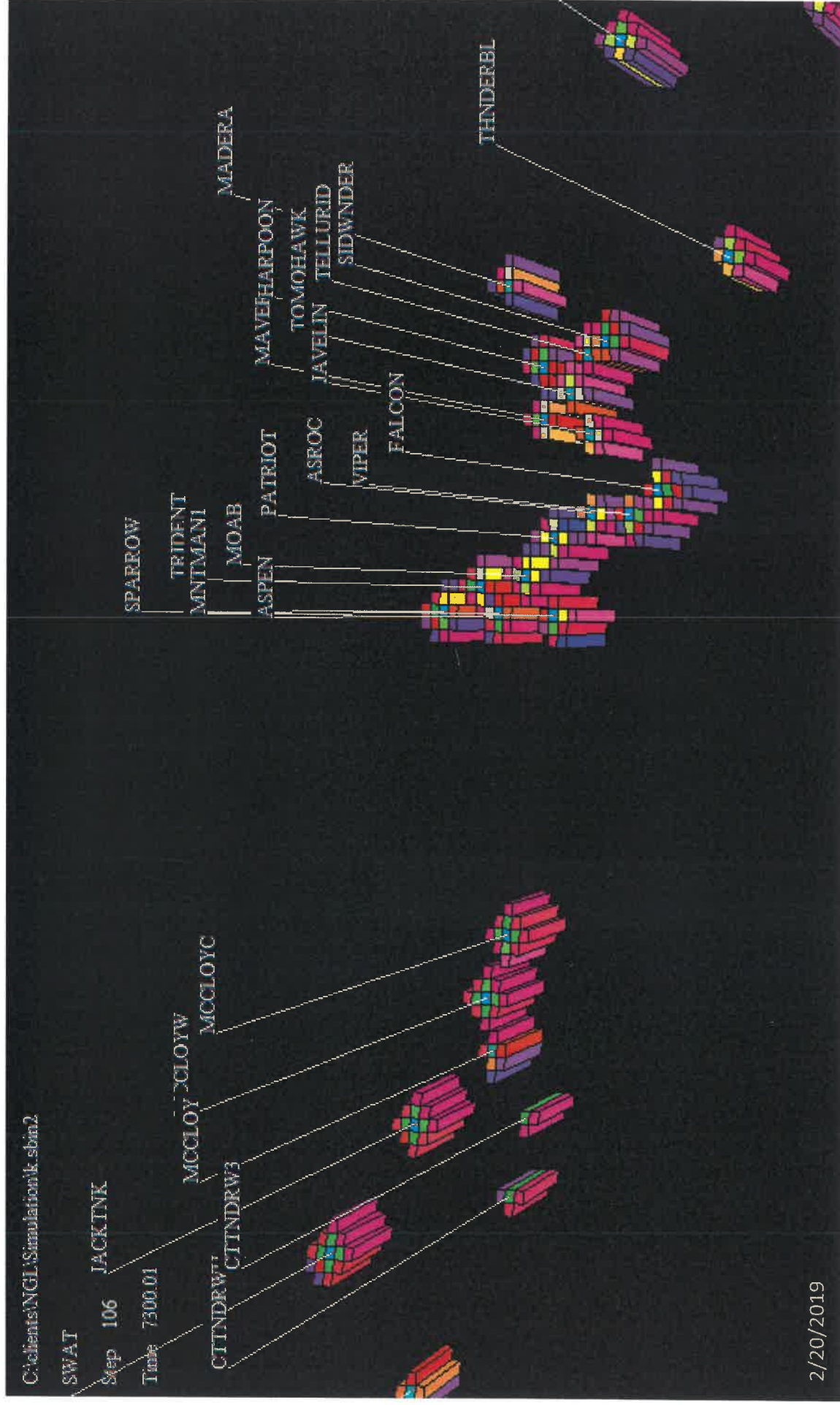
Large scale saturation profiles after 20 years of injection.





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Detailed saturation profiles after 20 years of injection.

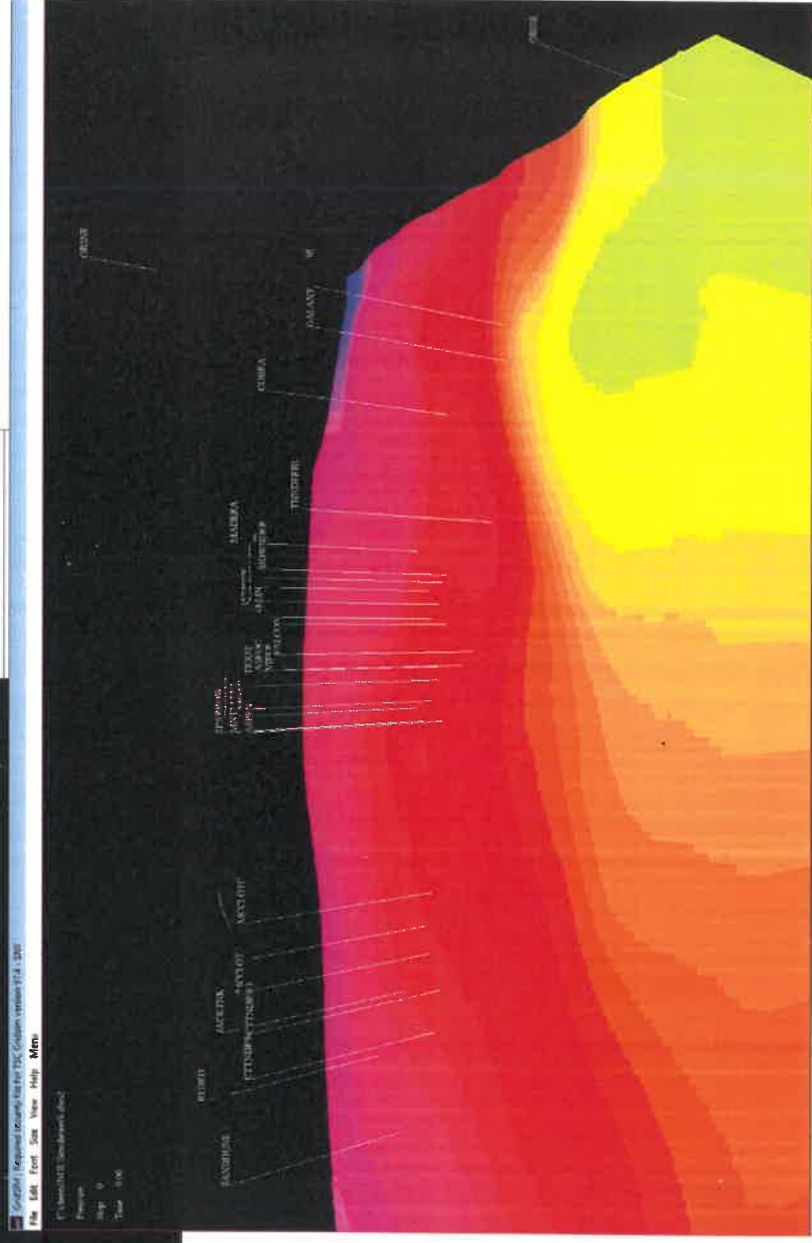




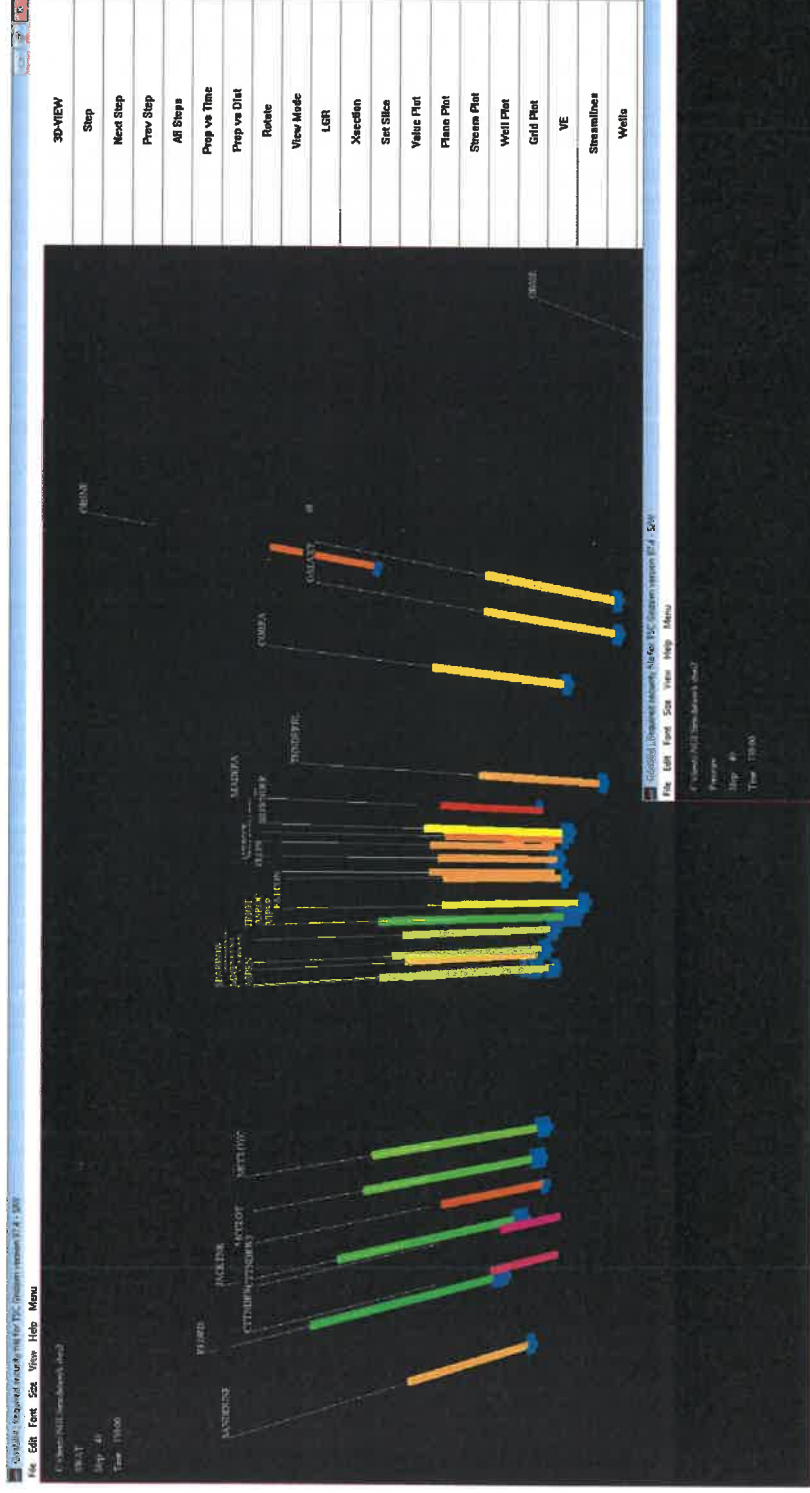
Exh. 13

2019
(0 years)

Water movement & Pressure



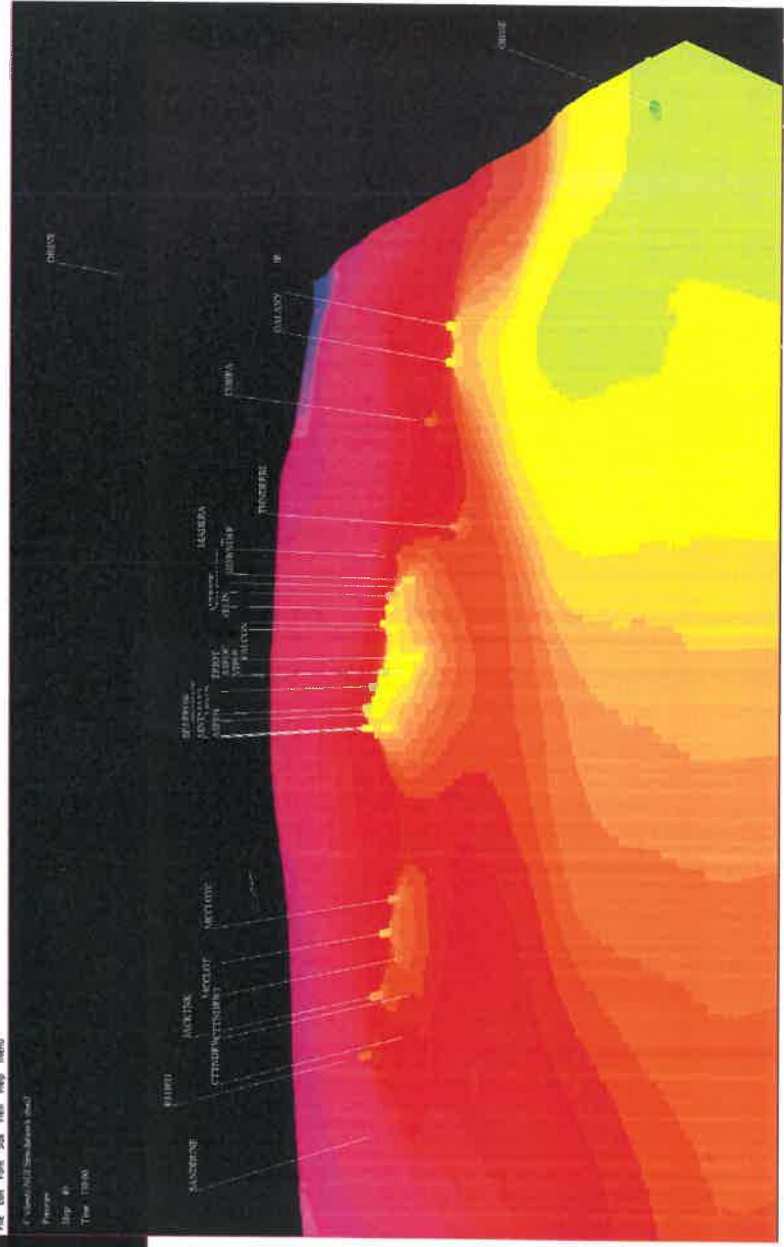
2/20/2019



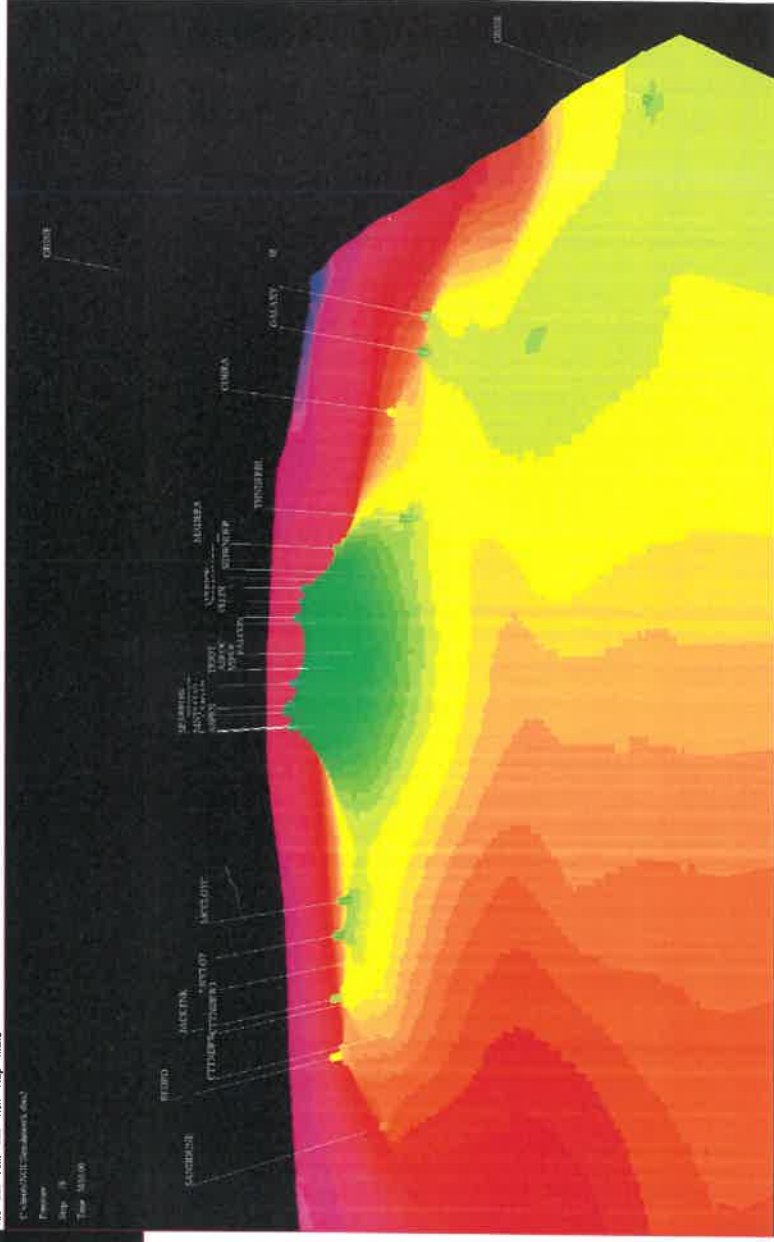
Exh. 15

2021
(2 years)

Water movement & Pressure



2029
(10 years)



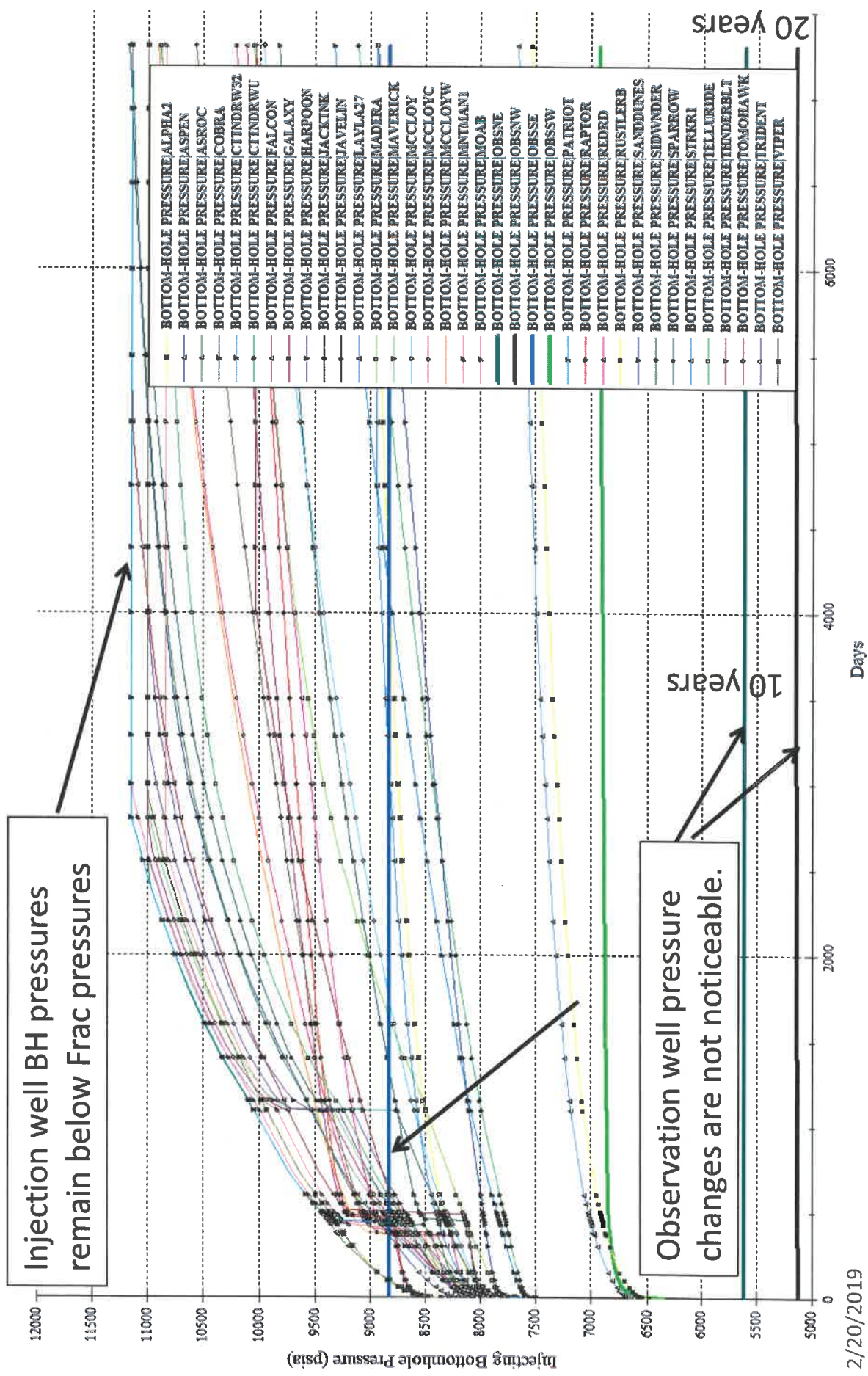
Water movement & Pressure



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Exh. 18

Simulation predictions for individual wells over time





NGL Water Solutions, LLC

Exh. 19

Simulation predictions for individual wells over time

Injection well rates are stable until max injection pressures are reached for wells in thinner sections of the injection zone and/or surrounded by other injectors.

